GE Consumer & Industrial
Lighting

WORLDWIDE PARTNER

Lamp Products Catalog
2006

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EPA does not endorse any product or service.

This latest edition of the GE product catalog has been updated to help you more easily select the GE lighting products that best meet your needs.

Technical data in this catalog (life, lumens, wattage, etc.) are nominal values, subject to manufacturer's tolerances. All technical data in this catalog is based on laboratory tests conducted under controlled conditions. Performance of individual lamps may vary. Because of frequent design improvements, the values listed may not be current ratings. Technical bulletins may be issued from time to time if changes in ratings occur prior to the next catalog printing.

Technical Support

1-800-GE LAMPS

For the most up-to-date, comprehensive product information, visit the GE Lighting website at

www.gelighting.com.

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GE Consumer & Industrial
Lighting

ecomagination℠

The future can seem pretty intimidating: Our known reserves of oil and natural gas are expected to be depleted by 2045, the climate is changing, and more than a billion people lack clean water. At GE, we believe some of the world's most pressing challenges present an opportunity to do what we do best: **imagine and build innovative solutions that benefit our customers and society at large.**

As a global leader in energy, technology, manufacturing, and infrastructure, GE is uniquely suited to help solve environmental challenges, today and for generations to come. Our customers want a more prosperous, cleaner future. By harnessing our most abundant renewable resource - the imagination of our people -we can create that future with them. We are taking a new approach to solving some of our customers' toughhest environmental problems.

We call it ecomagination.

Impact of ecomagination:

If every household in the U.S. replaced one 100-watt Incandescent light bulb with a GE compact fluorescent bulb equivalent in light output, over the bulb's life, we would save enough energy to power more than
1 million U.S. homes for an entire year.

Our Heritage, Our Future

We believe that better technology is the answer to our customers' environmental challenges. And we are confident we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison.

Throughout our 127-year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by researching and developing next-generation clean technologies. Our goal is to be a leader in bringing clean energy, air, and water and improved quality of life-to all of the world's citizens.

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Producing Efficiency

ecomagination Products

All Screw-in CFLs
Ultra T8 Lamps
T5 Lamps
UltraMax® Ballasts
UltraStart™ Ballasts
Halogen-IR
Diamond Precise®

On the way to certification
CMH® Lamps

ecomagination℠

Products Benefits	ecomagination Benefits	Additional Benefits	
All ENERGY STAR CFLs			Starting on page 5-10
All Screw-in products	Energy Savings up to $108* per lamp when using a 42 watt CFL to replace a 150W a-line	Up to 13x longer life	
Ultra T8 Lamps			Starting on page 4-9
• F28 • Watt-Miser® • Hi Lumen	Energy Savings up to $148* per 4-lamp Fixture when using a F28 & UltraMax® ballast to replace a Std. T12 system	All products Ecolux®, Available in CVG	
T5 Lamps			Starting on page 4-7
• High Efficiency • High Output	Energy Savings up to $132* per 6-lamp Fixture when using a T5 fixture to replace a Std. 400 Metal Halide system	All products Ecolux®, Available in CVG	
UltraMax® Ballasts			Starting on page 4-37
T8 Ballasts	Energy Savings up to $148* per 4-lamp Fixture when using a F28 & UltraMax® ballast to replace a Std. T12 system	Multi-Voltage	
UltraMax® Ballasts			Starting on page 4-38
T5 & T8 Ballasts	Energy Savings up to $148* per 4-lamp Fixture when using a F28 & UltraStart™ ballast to replace a Std. T12 system	Programmed Start Multi-Voltage	
Halogen-IR			Starting on page 2-5
• PAR38 HIR & XL • PAR30 HIR & XL	Energy Savings up to $13.20* per lamp when using a Retail HIR™ to replace a Std. Halogen	Up to 6000 hour life	
Diamond Precise®			Starting on page 2-9
Q21EMR16	Energy Savings up to $14.50* per lamp when using a 21 watt Diamond Precise® to replace a 50R20	Up to 2x Longer Life	

On the way to certification

CMH® Lamps			Starting on page 3-9
• 400 Watt • 350 Watt • 250 Watt	Energy Savings up to $160.00* per lamp when using a 350W & e-HID UltraMax™ ballast to replace a Std. 400 watt MH system	SPXX color – CRI 90+	

* @ 10¢per kWh over life of lamps. Actual savings depends on specific lamps compared.

GE Consumer & Industrial
Lighting

We've got the fastest way to slow this down.

Saving energy is good business. Energy-efficient lighting from GE may be the fastest, easiest way to slow your meter down and add dollars to your bottom line.

That's why GE has more than increased our product development investment with a clear goal to be the industry's energy-saving leader.

The result is a whole new line of leadership products, like the F28 UltraMax® system. Combining our 28-watt T-8 lamp with a high-efficiency UltraMax® ballast delivers up to 44% energy savings over T-12 systems. In some cases, pay back is less than a year.

The GE 42-watt compact fluorescent equals the light output of a 150-watt incandescent. That's a savings of 108 watts.

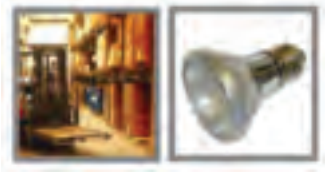
The new Retail HIR™ Halogen uses 27% less energy, with double the life of a standard halogen PAR.

Think your meter is spinning too fast?

27% Savings *replacing standard halogen PARs with the Retail HIR™ for accent, merchandising and general lighting.*

72% Savings *when you replace 150-watt incandescent lamps with our 42-watt CFL.*

44% Savings *when you replace T12 System with GE's Ultra Lamps and UltraMax® Ballast.*



50%+ Savings *when you replace standard PARs with GE ConstantColor® CMH® lamps.*

GE Lighting: Your #1 energy-saving choice

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GE Consumer & Industrial
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The newly expanded GE Lighting and Electrical Institute

World famous training and lighting education center now also offers curriculum for electrical distribution systems!

Impressive, full-scale lighting demonstration spaces.

Comprehensive electrical distribution product center, complete with "control room" simulations.

Variety of scheduled conferences offered throughout the year, led by experienced lighting and electrical distribution professionals.

And e-tools from the Institute:

Mondays @ noon - Live, on-line training offered each week to sharpen your product and market knowledge

Value*Light – GE's award-winning cost of light analysis program

The Lighting Toolkit – a collection of 7 simple estimating tools including a Simple Energy Calculator, Lighting Layout Estimator, and the Watts Per Square Foot Estimator.

The Lighting Assistant™ - a set of 26 user-friendly tools including Value*Light, the Lighting Toolkit, 2005 Energy Policy Act Tax Incentive Calculator and much, much more!

Call 1-800-255-1200, or visit
www.gelighting.com

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GE Consumer & Industrial
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See What's Available Online!

Focus on Products

- Completely redesigned online catalog
- Improved search capability
- More product details
- Highlight energy saving products
- Ballast and product specifications

Segment Driven Value & Applications

- Hospitality
- Restaurant
- Healthcare
- Retail
- Property management
- Residential builders
- Automotive
- Oil and gas
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More Tools & Resources

- Online product catalog
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- Conferences
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- MSDS sheets
- TCLP test results
- IES photometric downloads
- Lamp and ballast recycling
- Simple energy estimator
- Lighting layout estimator
- Cost of waiting estimator

For more information, visit
www.gelighting.com

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GENERAL INFORMATION

INCANDESCENT LAMPS

INCANDESCENT LAMPS (CONTINUED)

MISC. INCANDESCENT LAMP TYPES 1-21

EXPORT-ONLY

E27 BASE-EXPORT

EXPORT PAR

LUMEN RATED TRAFFIC SIGNAL

AIRPORT

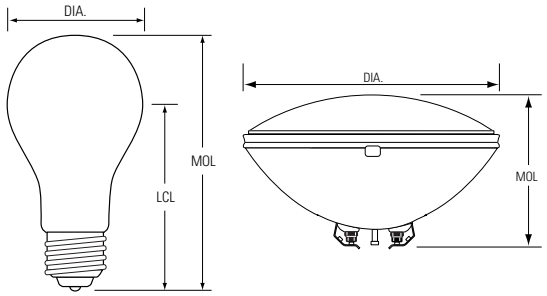
MULTIPLE STREET LIGHTING 1-23

DECORATIVE

PORTABLE LIGHTING PRODUCTS 1-26

CROSS REFERENCE 1-27

BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

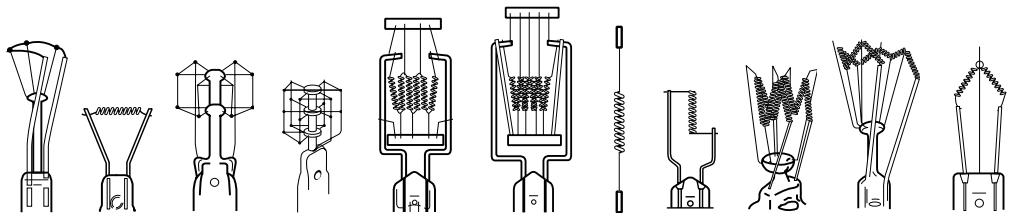
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

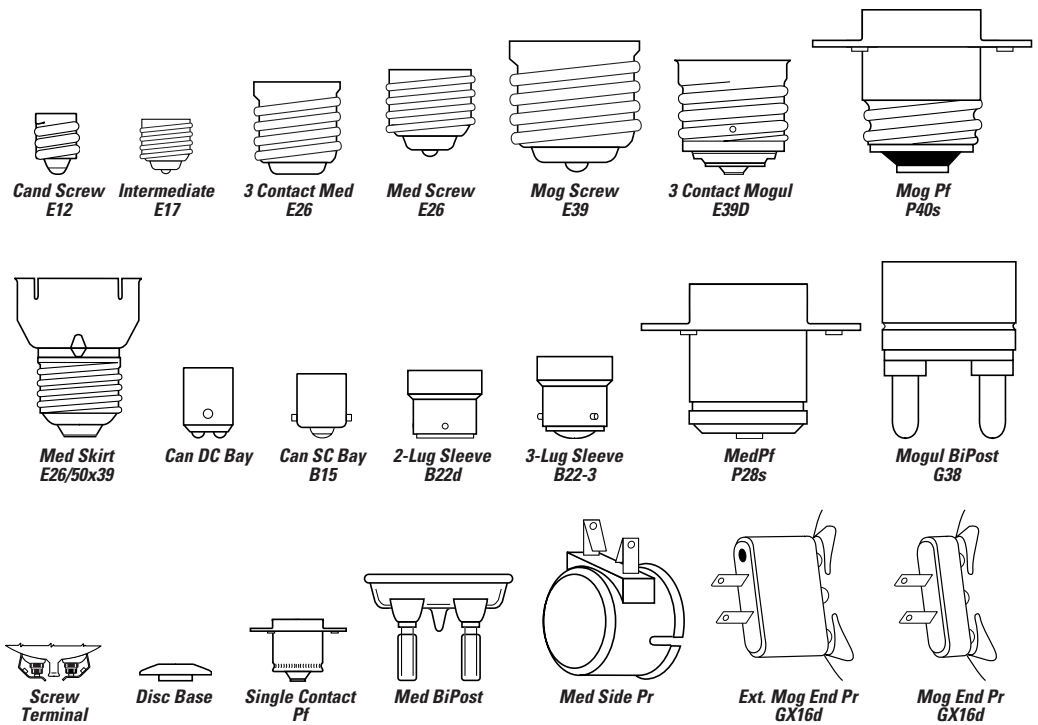
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

FILAMENT IDENTIFICATION



C-9 ***C-6 CC-6*** ***C-17*** ***C-22*** ***C-13*** ***C-13D*** ***C-8 CC-8*** ***C-8 CC-8*** ***C-5*** ***C-7A*** ***C-2V CC-2V***

BASE IDENTIFICATION

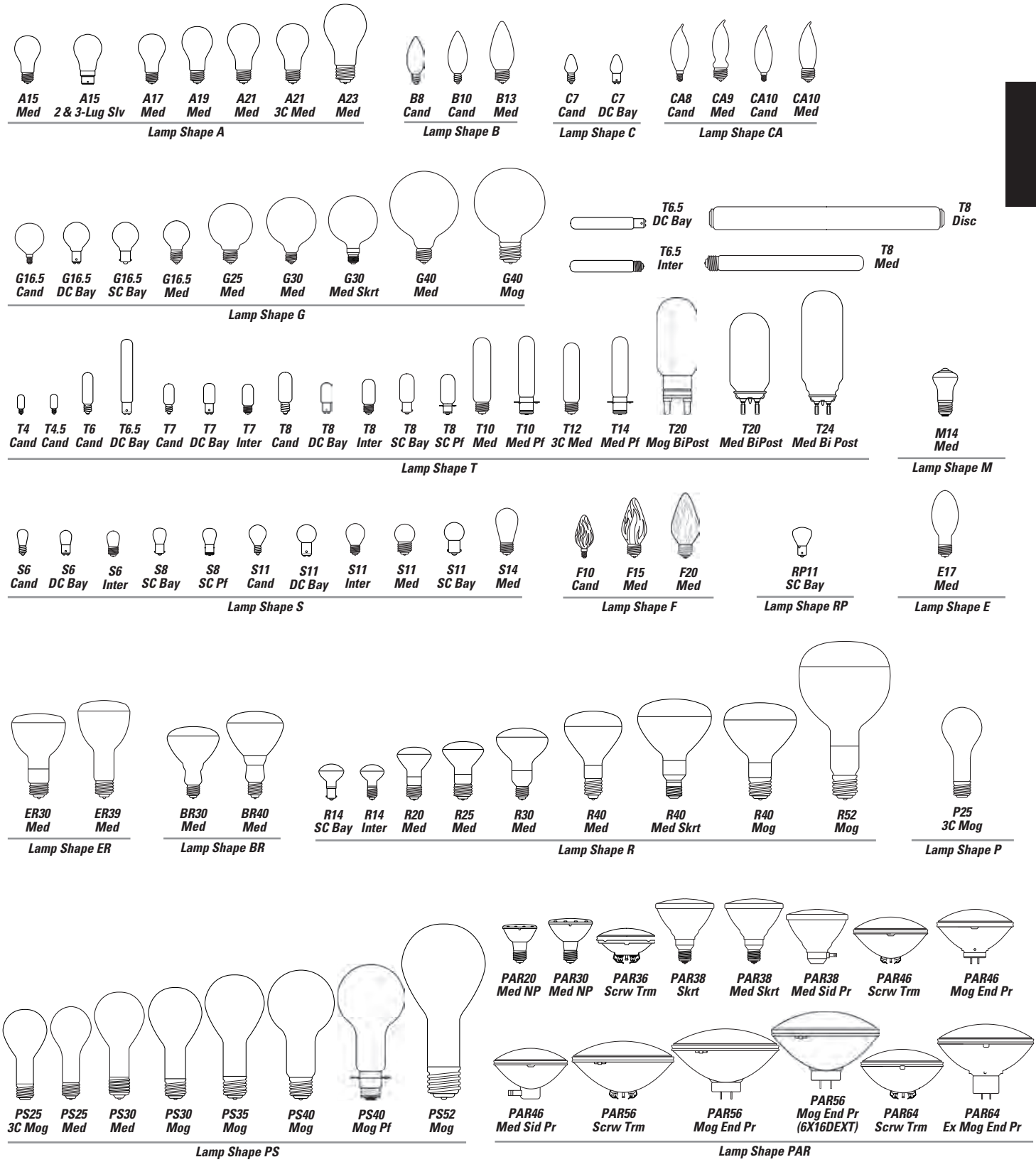


Cand Screw E12 ***Intermediate E17*** ***3 Contact Med E26*** ***Med Screw E26*** ***Mog Screw E39*** ***3 Contact Mogul E39D*** ***Mog Pf P40s***

Med Skirt E26/50x39 ***Can DC Bay*** ***Can SC Bay B15*** ***2-Lug Sleeve B22d*** ***3-Lug Sleeve B22-3*** ***MedPf P28s*** ***Mogul BiPost G38***

Screw Terminal ***Disc Base*** ***Single Contact Pf*** ***Med BiPost*** ***Med Side Pr*** ***Ext. Mog End Pr GX16d*** ***Mog End Pr GX16d***

LAMP LOCATOR



INTRODUCTION

GE's incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder in 1879, of the company that became General Electric Company.

More than a century of research and development later, the present range of GE incandescent lamps represents the state of the art of lamps for residential and commercial use, as well as special purpose lamps for decorative or display applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings.

Incandescent lamps of similar size are commonly available with different wattage ratings. The fixture wattage limit should not be exceeded.

PROTECTION FROM MOISTURE

When **HRG** (Hard Glass) appears in the Lamp Description column, the outer bulbs are made of special thermal-shock-resistant glass. However, sometimes external protection of the lamps is also needed to eliminate the chance of bulb breakage due to contact with water during operation. Footnotes will indicate when external protection is needed. Where **HRG** is not shown, the bulb glass is such that the lamps require protection from exposure to mist or condensation as well as direct contact with water during operation.

RATED LIFE

Values are based on a large number of representative lamps under controlled conditions. Individual lamps or groups of lamps may vary from the Rated Life shown. Rated Life is a median value of life expectancy – the total operating time at which under normal conditions 50% of any large group of initially installed lamps are expected to be still burning.

INCANDESCENT BRAND NAME CROSS-REFERENCE

GE	*Osram/Sylvania*	*Phillips*
Reveal®	—	—
Bug-Lite	Bug Lite	Bug-A-Way
Cool Beam	Cool-Lux	Cool Beam
covRguard®	Safeline	Silicone Coated
Saf-T-Gard®	—	—
Soft Pink	Soft Pink	Softone Pastels
Soft White Miser®	Energy Saver Soft White	Energy Saving
Extended Service	Excel-Line®	Extended Service
Plant Light	Spot-GRO	Agro-Lite
Long Life Soft White	Double Life™ Soft White	Longer Life Soft White
Lumiline	Lumiline	Philinea
Party Light	—	—
Survivor™	—	Industrial Service
Watt-Miser®	Super Saver®	Econ-o-Watt
Watt-Miser® PAR	Super Saver Par®	Econ-o-Par
Watt-Miser® Plus	Super Saver Excel®	Extended Service

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE brands. Individual lamp manufacturers' product offerings and performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or auxiliary equipment.

Survivor™

covRguard®

Long Life BR30 Reflector Floodlight or Spotlight

GE REVEAL® LIGHT BULBS

Superior light quality over regular incandescent that:

- Produces "clean, beautiful light™" for more vibrant colors
- Contains Neodymium glass that filters out dulling yellow rays
- Is available in 40-100 watt A-Line
- Also available for nearly every application from candle shapes to flood lights
- A color enhanced full spectrum light bulb

GE SURVIVOR™ A-LINE BULBS

Built to last, even under many "rough" service conditions...

- Five filament support design protects against early burnouts caused by bumps, jars and vibration
- Longer life... lasts 3000 hours. 3-4 times longer than standard bulbs*
- Popular wattages available
- Economically priced
- Best A-line choice for general commercial/industrial use

* Survivor bulbs provide a 300%-400% increase in life with 68%-75% of the light of ordinary bulbs.

GE COVRGUARD® BULBS

- Teflon®* coating is shatter and weather-resistant
- Resists breakage from heat and thermal shock that can occur from water, sleet, snow, molten solder, and weld spatter
- Wide choice of wattages and voltages
- Rough service version available for extra tough conditions

Uses:

Construction sites, loading docks, string lighting, elevators, trouble light, metal fabricating, food processing areas, farms.

* Teflon is a registered trademark of DuPont.

GE LONG LIFE FLOODLIGHT OR SPOTLIGHT

- 25% longer life than standard reflectors. Ideal for use in high ceilings and hard to reach track lighting.
- Easy replacement – same length and width as standard R bulbs
- Some lumen loss from standard reflectors (See listing for lumen values)
- Available in 45w floodlight and 65w floodlight and spotlight

Uses:

Down lighting, display lighting, accent lighting, wall washing.

Wherever standard reflector bulbs are used.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Incandescent lamp specifications and when ordering products.
Within this product line, lamps are divided by wattage.
Within wattage, lamps are listed alphabetically by bulb shape.

LCL in.:
Distance between the center of the filament and the Light Center Length reference plane, in inches.

Life-Hours:
Life (as defined by FTC Lamp Label Rules) is rated life in hours. (see page 1-26).

Light Output-Lumens:
Light output (as defined by FTC Lamp Label Rules) is rated average lumens.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

MOL in.:
Maximum Overall Length in inches.

Color Temperature - Kelvins (K):
"Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light.

Energy Used-Nominal Watts:
Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Filament Design:
Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.

Approximate CBCP (Center Beam Candlepower):
For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Approximate Beam Spread:
For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% of the maximum value.

Shape:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Description:
The lamp's identification code.

Base:
The type of base.

Case Quantity:
Number of product units packed in a case.

Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Volts:
Lamp data is based on operation at rated voltage.

Additional Information:
Typical application and/or other important information.

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS																
65 WATTS																
BR30	Med	65	**26640**	**75R30/FL/65WM/A**	120	30									2A, 5E, 9K	Reflector - Amber

75 R30 / FL / 65WM / A

- *Identifies the lamp's wattage.*
- *Identifies the lamp's shape.*
- *Identifies the lamp as a floodight.*
- *Identifies the lamp as a Watt-Miser®*
- *Identifies this lamp as amber colored.*

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify the lamp wattage.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 1-2.
4. Find your lamp in the table containing the bulb wattage, then match the shape, size and base, which are all listed alphabetically.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. Reduced Wattage

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS																
3 WATTS																
S6	Cand	3	11098	3S6/5 24PK	130	24	C-7A	1.87	1.37	3000	11					Clear-Indicator
4 WATTS																
C7	Cand	4	16001	4C7/W CD/2	120	240	C-7A	2.12		3000					2E	White-Long Life Night Light
			20572	4C7/S CD/4	120	120	C-7A	2.12		2000					2E	Standard Clear Night Light
			20573	4C7/W/S CD/4	120	120	C-7A	2.12		2000					2E	Standard White Night Light
			26222	4C7/PK-CD2 6PK	120	240	C-7A	2.12		3000					2E	Long Life Pink Night Light
			26223	4C7/BL-CD2 6PK	120	240	C-7A	2.12		3000					2E	Long Life Blue Night Light
			43050	4C7 CD/2	120	240	C-7A	2.12		3000					2E	Long Life Clear Night Light
6 WATTS																
S6	Cand	6	11316	6S6 24PK	12	24	C-2V	1.87	1.37	1500	50					Clear-Indicator
			11329	6S6	24	240	C-2V	1.87	1.37	1500	50					Clear-Indicator
			11331	6S6 24PK	30	24	C-2V	1.87	1.37	1500	50					Clear-Train
			43397	6S6 BB	32	24	C-2V	1.87	1.37	1500	45					Clear-Train
			11367	6S6 TRAY	120	240	C-7A	1.87	1.37	1500	41					Clear-Indicator. 12-Lamp Tray
			11577	6S6/3	120	240	C-7A	1.87	1.37	5000	23					Clear-Signal Light
			15820	6S6 CARD2	120	240	C-7A	1.87	1.37	1500	41					Clear-Indicator
			11369	6S6 TRAY	130	240	C-7A	1.87	1.37	1500	41					Clear-Indicator. 12-Lamp Tray
			11372	6S6	145	240	C-7A	1.87	1.37	1500	41					Clear-Indicator
			11374	6S6	155	240	C-7A	1.87	1.37	1500	41					Clear-Indicator
	DC Bay	6	11357	6S6DC 24PK	75	24	C-7A	1.81	1.43	1500	45					Clear-Indicator
			11592	6S6DC TRAY	120	240	C-7A	1.81	1.43	1500	41					Clear-Indicator. 12-Lamp Tray
			11594	6S6/DC TRAY	130	240	C-7A	1.81	1.43	1500	41					Clear-Indicator. 12-Lamp Tray
			11609	6S6DC 24PK	145	24	C-7A	1.81	1.43	1500	41					Clear-Indicator. 12-Lamp Tray
	Inter	6	11660	6S6/7 TRAY 24PK	120	24	C-7A	1.81	1.06	1500	41					Clear-Indicator. 12-Lamp Tray
T4.5	Cand	6	11764	6T41/2/1	130	100	C-7A	1.87	1.31	1500	42					Clear-Indicator
7 WATTS																
C7	Cand	7	11779	7C7 TRAY	120	240	C-7A	2.12		3000	46					Clear-Indicator. 12-Lamp Tray
			11815	7C7/W TRAY	120	240	C-7A	2.12		3000	36					White-Indicator. 12-Lamp Tray
			11792	7C7 TRAY	130	240	C-7A	2.12		3000	46					Clear-Indicator. 12-Lamp Tray
7.5 WATTS																
S11	Med	7.5	11847	7 1/2S TRAY	120	240	C-9	2.25		1400	53					Clear-12-Lamp Tray
			41267	7 1/2S/CW CARD	120	240	C-9	2.25		1400	39				2E	White
			11848	7 1/2S TRAY	130	240	C-9	2.25		1400	53					Clear-12-Lamp Tray
			11922	7 1/2S/CW TRAY	130	240	C-9	2.25		1400	39					White-12-Lamp Tray
10 WATTS																
S6	Cand	10	12041	10S6/10	230	24	C-7A	1.87	1.37	1500	66					Clear-Indicator
			12050	10S6/10 24PK	250	24	C-7A	1.87	1.37	1500	66					Clear-Indicator
	DC Bay	10	12060	10S6/10DC 24PK	230	24	C-7A	1.87	1.87	1500	66					Clear-Indicator
S11	Cand	10	12249	10S11/79	120	120	C-7A	2.25	1.56	1000	80					Clear-Indicator
	Inter	10	12188	10S11N/F	120	120	C-7A	2.31	1.62	1000	79					Frost-Appliance
			12185	10S11N	130	120	C-7A	2.31	1.62	1000	80					Clear-Sign

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
11 WATTS																
S14	Med	11	**12575**	**11S14**	130	120	C-9	3.5	2.5	3000	76					Clear-Sign
			12589	**11S14/IF**	130	120	C-9	3.5	2.5	3000	76					I.F.-Sign
			12621	**11S14/R**	130	120	C-9	3.5	2.5	3000						Red-Sign
			12632	**11S14/Y**	130	120	C-9	3.5	2.5	3000						Yellow-Sign
12-13.5 WATTS																
S8	SC Bay	12	**10690**	**12S8/93T-6PK CD/2**	12	240	C-2R	2	1.25	1000	200				2G	Low Voltage, High Intensity
S11	SC Bay	13.5	**12649**	**13/3 1/2 S11/95**	10	120	CC-6 C-12	2.37	1.25	1000	180					Clear-Railway Signal Light, Filament in Multiple
15 WATTS																
A15	Med	15	**12784**	**15A**	34	120	C-9	3.56	2.37	1000	180				5A	I.F.-Train
			41270	**15A/W 24PK**	120	120	C-9	3.5	2.37	2500	110					Soft White
			12658	**15A15**	130	120	C-9	3.5	2.37	2500	115					Inside Frost
			16215	**15A15/CL/BB**	130	120	C-9	3.5	2.37	3000	110					Clear-Sign
R14	SC Bay	15	**33404**	**15R14SC/SP**	12	120	CC-8	2.62		2000	120					Reflector Spot
S11	Cand	15	**13210**	**15S11/13**	120	120	C-7A	2.25	1.56	750	115					Clear
	DC Bay	15	**13188**	**15S11/3DC**	75	120	C-9	2.37	1.25	1000	138					Clear-Train
	Med	15	**13291**	**15S11/102**	120	240	C-7A	2.25		400	120					Clear-Refrigerator, 12-Lamp Tray
S14	Med	15	**42590**	**15S14/FBB**	34	120	C-9	3.5	2.5	1000	144					Frost-Locomotive Cab
			11137	**15S14/GR/CL/8**	130	120	C-9	3.5	2.5	8000	90					Clear-Sign. Group Replacement
T6	Cand	15	**13390**	**15T6**	120	60	C-7A	3.06	1.56	2000	107					Clear-Exit
			13402	**15T6**	145	60	C-7A	3.06	1.56	1500	102					Clear-Exit
			22114	**15T6C-CD**	145	120	C-7A	3.06	1.56	1500	102					Clear-Exit. Blister Card
T7	Cand	17	**13494**	**15T7C**	120	120	C-7A	2.25	1.5	3000	100					Clear-Signal Light. Appliance
	DC Bay	17	**35154**	**15T7DC CARD**	120	240	C-7A	2.25	1.31		100					Clear-Appliance, 12-Pack
	Inter	17	**35153**	**15T7N CARD**	120	240	C-7A	2.25	1.56		100					Clear-Appliance
T10	Med	15	**34407**	**15T10 24PK**	120	24	C-8	5.62		2500	120					Clear-Aquarium
15/135/150 WATTS																
A21	3C Med	15 135 150	**23068**	**15/150/SECURITY 12PK**	120 120 120	60	C-2R CC-8	5.25	3.87	1200	75 2080 2155				2B, 9C, 9J	Security 3-Way, Soft White
18 WATTS																
S11	SC Bay	18	**13655**	**18S11/1SC**	10	120	CC-6	2.37	1.25	2000	200					Clear-Railway Signal Light
			13659	**18/3 1/2S11SC**	10	120	CC-6	2.37	1.25	1000	300					Clear-Railway Signal Light. C-12 Filament in multiple
20 WATTS																
S11	SC Bay	20	**19549**	**20S11/1SC**	10	120	CC-6	2.37	1.25	3000						Railway Signal Light
T6.5	DC Bay	20	**34241**	**20T61/2DC/F**	120	60	C-8	5.56		5000	90					Frost-Exit Light
	Inter	20	**34272**	**20T61/2/F**	120	60	C-8	5.5		7000	90					Frost-Exit Light
21.5 WATTS																
A15	2-Lug Slv	21.5	**13644**	**18/3 5A15/5**	10	120	CC-6	3.75	2.21	1500	235					Clear-Railway Signal Light CC-6 Filament in multiple, 2-Lug Base
25 WATTS																
A15	Med	25	**13744**	**25A15/RS**	75	120	C-9	3.46	2.5	1000	250				5A	I.F.-Train. Rough Service

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All footnote references found at the end of this section. ➽ Reduced Wattage

INCANDESCENT LAMPS (CONTINUED)

25 WATTS (CONTINUED)

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
A19	Med	25	**13769**	**25A**	12	120	C-6	3.87	2.56	1000	378				5A	Inside Frost
			13784	**25A**	34	120	C-9	3.87	2.56	1000	390				5A	I.F.-Train
			15064	**25A/CL 24PK**	120	120	CC-6	4.25	2.5	2500	215					Clear
			16553	**25A/TG-CD1 3PK**	120	12	C-9	3.87	2.37	2000						Transp. Green-Party Light
			16555	**25A/TR-CD1 3PK**	120	12	C-9	3.87	2.37	2000						Transp. Red-Party Light
			47625	**25A/TB-CD1 3PK**	120	12	C-9	3.87	2.37	2000						Transp. Blue-Party Light
			16333	**25A/TP-CD 6PK**	120	24	C-9	3.87	2.37	2000						Transp. Purple-Party Light
			47627	**25A/TPK-CD1 3PK**	120	12	C-9	3.87	2.37	2000						Transp. Pink-Party Light
			16335	**25A/TY-CD 6PK**	120	24	C-9	3.87	2.37	2000						Transp. Yellow-Party Light
			22730	**25A/TPK 6PK**	120	120	C-9	3.87	2.37	2000						Transp. Pink-Party Light
			22731	**25A/TP 6 PK**	120	120	C-9	3.87	2.37	2000						Transp. Purple-Party Light
			22732	**25A/TE 6PK**	120	120	C-9	3.87	2.37	2000						Transp. Teal-Party Light
			33486	**25A/RS 24PK**	120	24	C-17	3.87	2.56	1000	190				2A, 5E	I.F.-Rough Service
			37577	**25A/B 24PK**	120	24	C-9	3.87	2.37	2500						Blue
			37578	**25A/G 24PK**	120	24	C-9	3.87	2.37	2500						Green
			37579	**25A/R 24PK**	120	24	C-9	3.87	2.37	2500						Red
			37793	**25A/Y 24PK**	120	24	C-9	3.87	2.37	2500						Yellow
			40320	**25A/O-24PK**	120	24	C-9	3.87	2.37	2500						Orange
			41272	**25A/W 24PK**	120	120	CC-6	4.25	2.5	2500	210					Soft White
			46645	**25A/SG CD/PQ1/5**	120	25	CC-6	4.25	2.5	1500						Stained Glass
			49724	**25A/TB 6PK**	120	120	C-9	3.87	2.37	2000						Transp. Blue-Party Light
			49725	**25A/TG 6PK**	120	120	C-9	3.87	2.37	2000						Transp. Green-Party Light
			49727	**25A/TR 6PK**	120	120	C-9	3.87	2.37	2000						Transp. Red-Party Light
			49728	**25A/TY 6PK**	120	120	C-9	3.87	2.37	2000						Transp. Yellow-Party Light
			13992	**25A/CL**	130	120	CC-6	4.25	2.5	2500	215					Clear
			35613	**25A**	130	120	CC-6	4.25	2.5	2500	215					Inside Frost
			13879	**25A**	250	120	C-17A	3.87	2.56	1000	220				5A	Inside Frost
PAR36	Scrw Term	25	**14553**	**25PAR36**	6	12	C-6	2.75		1000	130	3000	19700	5		Pin Spot. Filament Shield
			14554	**25PAR36/NSP**	12	12	C-6	2.75		2000	150		2600	9		Narrow Spot-Filament Shield
			14555	**25PAR 36WFL**	12	12	C-6	2.75		2000	150		360			Wide Flood-Filament Shield
			14556	**25 PAR36 VWFL**	12	12	C-6	2.75		2000	150		160	55		Very Wide Flood. Filament Shield
PAR46	Scrw Term	25	**14562**	**25PAR46**	6	12	C-6	3.75		1000	140		55000			Pin Spot. Filament Shield
R14	Inter	25	**39156**	**25R14N**	120	120	CC-2V	2.56		1500					5E	Reflector-Light Inside Frost
			18230	**25R14N**	130	120	CC-2V	2.56		1500					5E	Reflector-Light Inside Frost
	SC Bay	25	**33405**	**25R14SC/SP**	12	120	CC-8	2.62		2000						Reflector Spot, Light I.F.
S11	Cand	25	**14585**	**25S11/2C**	120	120	C-7A	2.25	1.43	500	260					Clear-Medical Spot
			14594	**25S11/5C**	120	120	C-7A	2.25	1.56	500	260					Reprographic-Frost. Printer
	SC Bay	25	**14575**	**25S11/4SC**	10	120	CC-6	2.37	1.25	1000	360					Clear-Railway Signal Light
T6.5	DC Bay	25	**14676**	**25T6 1/2DC**	120	60	C-8	5.56		1000	220					Clear-Appliance. Scale Illuminator
			14678	**25T61/2/DC**	130	60	C-8	5.56		1000	244					Clear-Appliance. Scale Illuminator
			14685	**25T61/2DC/F**	130	60	C-8	5.56		1000	240					Frost-Appliance Scale Illuminator
	Inter	25	**14639**	**25T6 1/2**	120	60	C-8	5.5		1000	220					Clear-Showcase
			14641	**25T61/2**	130	60	C-8	5.5		1000	244					Clear-Showcase
			14668	**25T61/2/F**	130	60	C-8	5.5		1000	240					Frost-Showcase
T7	DC Bay	25	**14741**	**25T7DC**	120	60	C-7A	2.25	1.31	200	195					Clear-Appliance
	Inter	25	**10692**	**25T7N-CD 6PK**	120	240	C-7A	2.25	1.56	200	195					Clear-Appliance
			14791	**25T7N**	120	60	C-7A	2.25	1.56	200	195					Clear-Appliance
T8	Cand	25	**14809**	**25T8C**	120	60	C-7A	2.62	1.5	200	195					Clear-Microwave
T10	Med	25	**14880**	**25T10 24PK**	120	192	C-8	5.62		1000	248					Clear-Showcase
			14866	**25T10**	130	120	C-8	5.62		1000	248					Clear-Showcase

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
27 WATTS																
R20	Med	27	**47681**	**27R20/SP/LLPQ1-6**	120	30	CC-6	3.93		2500				↯		Long Life Reflector - Indoor Spotlight
30 WATTS																
A15	Med	30	**14129**	**30A15**	130	120	C-9	3.5	2.37	5000	215					I.F. Changing Message Sign
			15291	**30A15/CL**	130	120	C-9	3.5	2.37	5000	215					Clear Changing Message Sign
			19358	**30A15/8**	130	120	C-9	3.5	2.37	8000	180					I.F. - Sign
R20	Med	30	**14891**	**30R20/1-6PK**	120	30	CC-6	3.93		2000	200					Indoor Reflector
			46848	**30R20/1**	130	30	C-9	3.93		2000	200				5B, 9K	Indoor Reflector - Light I.F.
			46849	**30R20/6**	130	30	C-9	3.93		6000	145				9D	Reflector - Light I.F. - Flashing Message Sign
S11	DC Bay	30	**15012**	**30S11DC**	75	120	C-7A	2.37	1.25	500	350				9D	Clear-Train Marker Control, BDTH
			17948	**30S11DC/RS**	75	120	C-9	2.37	1.25	2000	300					Clear-Train
T8	Disc	30	**15029**	**L30**	120	24	C-8	17.75		1500	230					Clear-Lumiline
			15071	**L30/W**	120	24	C-8	17.75		1500	210					White-Lumiline
30/70/100 WATTS																
A21	3C Med	30	**41273**	**30/100 12PK**	120	60	C-2R	5.25	3.87	1200	305				2B, 9C, 9J	Soft White. 3-Way
		70			120		CC-8				995					
		100			120						1300					
		30	**48711**	**30/100RVL PQ1/12**	120	60	C-2R	5.25	3.875	1200	220				2B, 9C, 9J	Reveal® 3-Way
		70			120						740					
		100			120						960					
33 WATTS																
A19	Med	33	**42626**	**33A19/5**	130	120	C-9	3.87		2500	270					Clear-Changing Message Sign. Group Replacement
34 WATTS																
A19	Med	34	**12612**	**40A/34WM**	120	120	CC-6	4.43	3.12	2000	380			↯		Watt-Miser®-Diffuse Coating
		34	**12620**	**40A/34WM**	130	120	CC-6	4.43	3.12	2000	365			↯		Watt-Miser®-Diffuse Coating
		30			120					5400	270					(Ratings @120 volts)
		34	**13009**	**40A/34WMP/99**	130	120	CC-6	4.43	3.12	2500	360			↯		Watt-Miser® Plus-Diffuse Coating.
		30			120					6800	265					Long Life, BB (Ratings @120 volts)
40 WATTS																
A15	Med	40	**15199**	**40A15**	120	120	C-9	3.5	2.37	1500	415					Clear-Appliance and Oven Service. Vibration Resistant
			15206	**40A15 CARD 12PK**	120	60	C-9	3.5	2.37	1500	415					Clear-Appliance and Oven Service. Vibration Resistant
			20451	**40A15/CF CD2**	120	60	C-9	3.5	2.37	1500	415					Clear-Ceiling Fan. Vibration Resistant
			20452	**40A15/W/CF CD2**	120	60	C-9	3.5	2.37	1500	355					White-Ceiling Fan. Vibration Resistant
			21188	**40A15 CD/2**	120	60	C-9	3.5	2.37	1500	415					Clear-Appliance and Oven Service. Vibration Resistant
			27451	**40A15/F 120PK**	120	120	C-9	3.5	2.37	1500	355					Frosted-Appliance and Oven Service. Vibration Resistant.
			27495	**40A15/F/CD**	120	60	C-9	3.5	2.37	1500	355					Frosted-Appliance and Oven Service. Vibration Resistant.
			45729	**40A15/F CD2**	120	60	C-9	3.5	2.37	1500	355					Frosted-Appliance and Oven Service. Vibration Resistant.
			46887	**40A15CF/STG CD2**	120	30		3.5	2.37	1500	400					Clear, Saf-T-Gard®, Ceiling Fan
			48696	**40A15/CF/RVL CD2**	120	30	C-9	3.5	2.375	1500	320					Reveal® Clear-Ceiling Fan. Vibration Resistant
			48697	**40A15WCF/RVL CD2**	120	30	C-9	3.5	2.375	1500	260					Reveal® White-Ceiling Fan. Vibration Resistant
			48706	**40A15/RVL CD2**	120	30	C-9	3.5	2.375	1500	320					Reveal® Clear-Appliance and Oven Service. Vibration Resistant.

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Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
40 WATTS (CONTINUED)																
A19	Med	40	12311	40A/CL 24PK	120	120	CC-6	4.43	3.12	1500	480					Crystal
			13255	40A 48PK	120	144	CC-6	4.43	3.12	1000	505					Standard
			13257	40A/W 48PK	120	144	CC-6	4.43	3.12	1000	490					Soft White
			48687	40A/RVL 48PK	120	144	CC-6	4.43	3.12	1000	360					Reveal® Soft White
			81869	40A/CL/RVL 24PK	120	120	CC-6	4.43	3.12	1000	370					Reveal® Clear
		40	34034	40A	130	120	CC-6	4.43	3.125	1000	495					Inside Frost
		36			120					2600	365					(Ratings @ 120 volts.)
		40	34125	40A/CL	130	120	CC-6	4.43	3.12	1500	480					Clear
		36			120					4000	345					(Ratings @ 120 volts.)
		40	40323	40A/S-130V-24PK	130	24	C-9	4.43	3.12	3000	330					Survivor™ LongLife, I.F., Vibration
		36			120					5500	245					Resistant, BB (Ratings @ 120 volts.)
A21	Med	40	15554	40A/TS	130	120	C-9	4.37	2.43	2000	380				9D	Clear-Traffic Signal, BDTH
R14	Inter	40	25777	40R14/N/CD	120	30	CC-2V	2.68		1500						Indoor Reflector
	Med	40	25776	40R14/CD	120	30	CC-2V	2.18		1500						Indoor Reflector
R16	Med	40	25781	40R16/CD	120	30	CC-6	3.37		1500						Indoor Reflector
S11	Inter	40	15734	40S11N/1/F	120	120	C-9	2.31	1.62	500	440				2G, 5E	Frost
			35156	40S11N/1/CD 12PK	120	240	C-9	2.31	1.62	500	440				2G, 5E	Clear-12-Card Pack
T6.5	Inter	40	15740	40T6 1/2/2	120	60	C-8	5.5		750	420					Clear-Refrigerator
			15742	40T61/2/2F	120	60	C-8	5.5		750	420					Frost-Appliance
T8	Disc	40	15804	L40	120	24	C-8	11.75		1500	325					Clear-Lumiline
			15839	L40/W	120	12	C-8	11.75		1500	295					White-Lumiline
	Med	40	15754	40T8	120	24	C-23	11.75		1000	430					Clear-Showcase
T10	Med	40	15852	40T10	120	120	C-8	5.62		1000	420					Clear-Showcase
			15892	40T10/F	120	120	C-8	5.62		1000	415					Frost-Showcase
			15854	40T10	130	120	C-8	5.62		1000	420					Clear-Showcase
45 WATTS																
BR30	Med	45	20330	45R/FL/MI/1 6PK	120	30	CC-6	5.37		2000	485		300		2A, 5E, 9K	Reflector Flood
			26804	45R30/FL/LL	120	30	CC-6	5.37		2500	450				2A, 5E, 9K	Reflector Flood-Long Life
R20	Med	45	47682	45R20/SP/LLPQ1-6	120	30	CC-6	3.31		2500					2A, 5E, 9K	Long Life Indoor Spotlight
50 WATTS																
A19	Med	50	16201	50A19/RS	75	120	C-9	3.87	2.5	1000	545				2A, 5A	I.F.-Rough Service, Train
			14727	50A/RS/CVG 24PK	120	24	C-17A	3.87	2.56	1000	480				2A, 9L, 9M	Inside Frost-covRguard® Rough Service, BB, Teflon® Coated
			33495	50A/RS 24PK	120	24	C-17A	3.87	2.56	1000	490				2A, 5E	I.F.-Rough Service
			15995	50A	250	120	C-17A	3.87	2.56	1000	490					Inside Frost
			16147	50A/RS	250	120	C-22	3.87	2.56	1000	470				2A, 5E	I.F.-Rough Service
			16317	50A19	300	120	C-17A	3.87	2.56	1000	460					Inside Frost
A21	Med	50	10686	50A21/RV 6PK	12	48	C-6	4.87	3.43	1000	875				5A	Recreational Vehicle and Marine - Inside Frost
			16366	50A21	12	120	C-6	4.87	3.43	1000	875				5A	Inside Frost
			16385	50A21	30	120	C-9	4.87	3.43	1000	805				5A	I.F.-Train
			16390	50A21	34	120	C-9	4.87	3.43	1000	805				5A	I.F.-Train
ER30	Med	50	44429	50ER30	120	24	CC-6	6.25		2000	525		690		2A, 2B, 5E	Elliptical Reflector, Light I.F.
			47878	50ER30/PK	120	24	CC-6	6.25		2000	480				2A, 2B, 5E	Elliptical Reflector-Pink
			11823	50ER30	130	24	CC-6	6.25		1500	525		690		2A, 2B, 5E	Elliptical Reflector, Light I.F.
P25	3C Mog	50	16535	50/50P25/28	120	60	C-5 C-9	5.06	3.31	750	400					Clear-2-filament Marine Running Light, BB

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
50 WATTS (CONTINUED)																
PAR36	Scrw Term	50	**11468**	**50PAR36WFL/4**	12	12	C-6	2.75		4000	300		720			Wide Flood, Filament Shield
			12892	**50PAR36VNSP**	12	12	C-6	2.75		2000	330		19000	6		Very Narrow Spot, Filament Shield
			16540	**50PAR36/NSP**	12	12	C-6	2.75		2000	330		11000	10		Narrow Spot, Filament Shield
			16541	**50 PAR 36 WFL**	12	12	C-6	2.75		2000	330		900			Wide Flood, Filament Shield
			16542	**50 PAR 36 VWFL**	12	12	C-6	2.75		2000	330		600	55		Very Wide Flood. Filament Shield
R20	Med	50	**14888**	**50R20/PL/1 6PK**	120	30	CC-6	3.93		2000					2A, 5E, 9K	Reflector Plant Light
			14896	**50R20/1 6PK**	120	30	CC-6	3.93		2000	410		510		2A, 5E, 9K	Reflector-I.F.
			20368	**50R20/TWIN**	120	30	CC-6	3.93		2000	410		510		2A, 5E, 9K	Reflector Twin Pk.
			22752	**50R20/BLB 6PK**	120	6	CC-6	3.93		1000					2A, 2F, 5B, 7A, 7C, 9K	Blacklight Reflector
			46854	**50R20/HP/1**	120		CC-6	3.93		2000						Reflector, Hot Pink
			48691	**50R20/RVL PQ1/6**	120	30	CC-6	3.93		2000						Reveal®
			46851	**50R20/1**	130	30	CC-6	3.93		2000	410		510			Indoor Reflector - Light I.F.
			46852	**50R20/6**	130	30	C-9	3.93		6000	400					Reflector - Light I.F. - Flashing Message Sign
			46853	**50R20/PK/1**	130	30	CC-6	3.93		2000						Indoor Reflector - Pink
			48038	**50R20/FUS**	130	30	CC-6	3.93		2000						Reflector, Fusia
T12	3C Med	50	**16726**	**50/50T12**	115	24	C-5 C-9	5.31	3	750	400					Clear-2-filament Marine Running Light, BB
50/100/150 WATTS																
A21	3C Med	50	**14057**	**50/150/SSW 12PK**	120	60	CC-8	5.25	3.87	1200	650				2B, 9C, 9J	Super Soft White, 3-Way
		100			120		CC-8				1550					
		150			120						2200					
		50	**22886**	**50/150A/RL/SW6PK**	120	30	CC-8	5.25	3.87	1000	495				2B, 9C, 9J	Soft White-Reader Light™ 3-Way
		100			120		C-2R				1425					
		150			120						1920					
		50	**41280**	**50/150 12PK**	120	60	CC-8	5.25	3.87	1200	615				2B, 9C, 9J	Soft White. 3-Way
		100			120		CC-8				1540					
		150			120						2155					
		50	**41362**	**50/150 TWIN 6PK**	120	30	CC-8	5.25	3.87	1200	615				2B, 9C, 9J	
		100			120		CC-8				1540					
		150			120						2155					
		50	**48712**	**50/150RVL PQ1/12**	120	60	CC-8	5.25	3.875	1200	450				2B, 9C, 9J	Reveal® 3-Way
		100			120		CC-8				1150					
		150			120						1600					
50/200/250 WATTS																
A21	3C Med	50	**19445**	**50/250/1 12PK**	120	60	CC-8	5.25	3.87	1200	620				2B,9C, 9J	Soft White, 3-Way
		200			120		CC-25				3335					
		250			120						3955					
52 WATTS																
A19	Med	52	**12615**	**60A/52WM**	120	120	CC-8	4.43	3.12	1330	730			↘		Watt-Miser®-Diffuse Coating
		52	**12623**	**60A/52WM**	130	120	CC-8	4.43	3.12	1000	710			↘		Watt-Miser®-Diffuse Coating
		46			120					2600	530					(Ratings @ 120 volts.)
		52	**13012**	**60A/52WMP/99**	130	120	CC-8	4.43	3.12	2500	640			↘		Watt-Miser® Plus, Diffuse Coating,
		46			120					6800	480					LongLife, BB (Ratings @ 120 volts.)
		52	**13555**	**60A/52WM/CL**	130	120	CC-8	4.43	3.12	1000	720			↘		Watt-Miser®-Clear
		46			120					2600	540					(Ratings @ 120 volts.)
54 WATTS																
A21	Med	54	**17960**	**60A21/54WM/TS**		120	C-11V	4.37	2.43	8000	530			↘		Watt-Miser®, Clear-Traffic Signal, Burn BDTH, BB, Krypton
			17961	**60A21/54WM/TS**		120	C-11V	4.37	2.43	8000	530			↘		Watt-Miser®, Clear-Traffic Signal, Burn BDTH, BB, Krypton

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All footnote references found at the end of this section. ↘ Reduced Wattage

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
55 WATTS																
A19	Med	55	**11904**	**55A/SW/MI 48PK**	120	144	CC-8	4.43	3.12	1000	800			↯		Soft White, Miser®
60 WATTS																
A15	Med	60	**14029**	**60A15/W/CF-CD2**	120	60	C-9	3.5	2.37	1500	650					White, Ceiling-Fan, Vibration-Resistant
			17759	**60A15/CF CD2**	120	60	C-9	3.5	2.37	1500	650					Clear-Ceiling Fan and Appliance, Vibration Resistant
			46888	**60A15CF/STGPQ2/6**	120	30	C-9	3.5	2.37	1500	650					Ceiling Fan Saf-T-Gard®
			48698	**60A15/CF/RVL CD2**	120	30	C-9	3.5	2.375	1500	480					Reveal® Clear-Ceiling Fan. Vibration Resistant
A19	Med	60	**14052**	**60A/SSW-24PK**	120	120	CC-8	4.43	3.12	1000	840					Super Soft - Soft White
			14414	**60A/CVG 24PK**	120	24	CC-6	4.43	3.12	1000	850					Inside Frost-covRguard®, Teflon® Coated
			16364	**60A/BLB-CD**	120	24	C-9	4.43		1000						Black Light; Carded
			20326	**60A/SPK 24PK**	120	120	CC-6	4.43	3.12	1000	675					Soft Pink
			22361	**60A/COMM 24PK**	120	24	CC-6	4.43	3.12	1000	855					Inside Frost
			22384	**60A/GD 24PK**	120	24	C-9	4.43	3.12	3000	635					Light I.F.-Garage Door, Vibration Resistant
			23097	**60A/GD CD**	120	24	C-9	4.43	3.12	3000	635					Light I.F. Garage Door, Vibration Resistant, Carded
			25905	**60A/BLB 6PK**	120	30	C-9	4.43		1000					2A, 2F, 5B, 7A, 7C, 9K	Black Light
			39322	**60A/CL 24PK**	120	120	CC-6	4.43	3.12	1000	870					Clear
			40324	**60A/S-120V-24PK**	120	24	C-9	4.43	3.12	3000	600					Survivor™ LongLife I.F., Vibration Resistant, BB
			41026	**60A 48PK**	120	144	CC-6	4.43	3.12	1000	865					Standard
			41028	**60A/W 48PK**	120	144	CC-6	4.43	3.12	1000	840					Soft White
			41284	**60A/Y 24PK**	120	120	CC-6	4.43	3.12	1000	550					Yellow Bug-Lite
			41285	**60A/W/LL 24PK**	120	120	CC-6	4.43	3.12	1500	820					Soft White-LongLife
			41624	**60A/PL 6PK**	120	30	CC-6	4.43	3.12	1000	630				5E	Plant Light
			46845	**60A/W/STG PQ2/10**	120	100	CC-6	4.43	3.12	1000	812					Soft White Saf-T-Gard®
			48688	**60A/RVL 48PK**	120	144	CC-8	4.43	3.12	1000	630					Reveal® Soft White
			81639	**60A/CL /RVL 24PK**	120	120	CC-6	4.43	3.12	1000	650					Reveal® Clear
		60	**16783**	**60A**	130	120	CC-6	4.43	3.12	1000	850					Inside Frost (Ratings @ 120 volts.)
		53			120					2600	640					
		60	**40325**	**60A/S-130V-24PK**	130	24	C-9	4.43	3.12	3000	600					Survivor™ LongLife I.F., Vibration Resistant, BB (Ratings @ 120 volts.)
		53			120					8300	460					
A21	Med	60	**17122**	**60A21**	230	120	C-17A	4.37	2.75	1000	585					Inside Frost
			16997	**60A21/B**	120	120	C-9	4.87		1000					2B	Blue
			17027	**60A21/R**	120	120	C-9	4.87		1000					2B	Red
			17968	**69A21/60WM/TS**		120	C-11V	4.37	2.43	8000	610					Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB
			17969	**69A21/60WM/TS**		120	C-11V	4.37	2.43	8000	610					Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB
R46	Scrw Term	60	**17212**	**60PAR/2/R**	38	12	CC-2V	3.75		800						Red Lens-Train Warning
T8	Disc	60	**17226**	**L60**	120	24	C-8	17.75		1500	480					Clear-Lumiline
			17266	**L60/W**	120	12	C-8	17.75		1500	450					White-Lumiline
T10	Med	60	**17292**	**60T10/64 24PK**	120	192	C-8	5.62		1000	740					Clear-Showcase, BDTH
65 WATTS																
BR30	Med	65	**18011**	**65R/FL/MI/TWIN**	120	6	CC-6	5.37		2000	755				2A, 5E, 9K	Reflector Flood Twin Pack
			20331	**65R/FL/MI/1 6PK**	120	30	CC-6	5.37		2000	755				2A, 5E, 9K	Reflector Flood
			20332	**65R/SP/MI/1 6PK**	120	30	CC-6	5.37		2000	755				2A, 5E, 9K	Reflector
			20996	**65R30/PL/1 6PK**	120	30	CC-6	5.37		2000					2A, 5E, 9K	Reflector -Plant Light, BB
			22714	**65R30/FL/COMM 12PK**	120	12	CC-6	5.37		2000	755				2A, 5E, 9K	Reflector Flood 12 Pack
			26641	**65R30/FL/B**	120	30	CC-6	5.37		2000					2A, 5E, 9K	Reflector - Blue

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
65 WATTS (CONTINUED)																
BR30	Med	65	26642	65R30/FL/G	120	30	CC-6	5.37		2000					2A, 5E, 9K	Reflector - Green
			26645	65R30/FL/Y	120	30	CC-6	5.37		2000					2A, 5E, 9K	Reflector - Yellow
			26803	65R30/FL/PK	120	30	CC-6	5.37		2000					2A, 5E, 9K	Reflector - Pink
			26805	65R30/FL/LL	120	30	CC-6	5.37		2500	725				2A, 5E, 9K	Long Life Reflector - Flood
			26806	65R30/SP/LL	120	30	CC-6	5.37		2500	725				2A, 5E, 9K	Long Life Reflector
			41837	65R30/SP/HP	120	30	CC-6	5.37		2000						Indoor Reflector, Hot Pink
			46858	65R30/FL/CVG	120	30	CC-6	5.37		2000						Reflector - covRguard® Teflon® Coated
			47723	65R30FL/STGPQ1/6	120	30	CC-6	5.37		2000						Indoor Floodlight - Saf-T-Gard®
			48692	65R/FL/RVL PQ1/6	120	30	CC-6	5.37		2000						Reveal®
			46855	65R30/FL	130	30	CC-6	5.37		2000	725					Watt-Miser® - Reflector
			46856	65R30/SP	130	30	CC-6	5.37		2000	725					Watt-Miser® - Reflector
			46857	65R30/FL/PK	130	30	CC-6	5.37		2000						Watt-Miser® - Reflector - Pink
			48039	65R30SP/FUS	130	30	CC-6	5.37		2000						Indoor Reflector, Fusia
BR40	Med	65	14016	65R40/FL/MI 6PK	120	30	CC-6	6.56		2000	730				2A, 2B, 5E, 9K	Reflector Flood
			47683	65R40/FL/LLPQ1-6	120	30	CC-6	6.56		2500					2A, 2B, 5E, 9K	Long Life Reflector - Indoor Floodlight
			46861	65R40/FL	130	30	CC-6	6.56		2000	700				2A, 2B, 5E, 9K	Watt-Miser® - Reflector - I.F.
			87904	65R40FL/RVL-TP6	120	30	CC-6	6.56		2000					2A, 2B, 5E, 9K	Reveal® Reflector Flood
PAR38	Med Sid Pr	65	80314	75PAR/3FL/65WM	120	12	CC-6	4.3		2000	675	2675	1750	30 ↘	1A, 2A, 2B	Compact Flood
			80320	75PAR/3SP/65WM	120	12	CC-6	4.3		2000	675	2675	5900	14 ↘	1A, 2A, 2B	Compact Reflector
67 WATTS																
A19	Med	67	12617	75A/67WM	120	120	CC-8	4.43	3.12	1000	1030			↘		Watt-Miser®-Diffuse Coating
		67	12624	75A/67WM	130	120	CC-8	4.43	3.12	1000	1000			↘		Watt-Miser®-Diffuse Coating
		60			120					2600	755					(Ratings @ 120 volts.)
		67	13018	75A/67WMP/99	130	120	CC-8	4.43	3.12	2500	910			↘		Watt-Miser® Plus-Diffuse Coating
		60			120					6800	685					(Ratings @ 120 volts.)
A21	Med	67	38551	67A21/TS	120	120	C-9	4.37	2.43	8000	635					Clear-Traffic Signal, BDTH
			38553	67A21/TS	130	120	C-9	4.37	2.43	8000	635					Clear-Traffic Signal, BDTH
69 WATTS																
A21	Med	69	17323	69A21/TS	120	120	C-9	4.37	2.43	8000	675			↘		Clear-Traffic Signal, BDTH
			17325	69A21/TS	130	120	C-9	4.37	2.43	8000	675			↘		Clear-Traffic Signal, BDTH
70 WATTS																
A19	Med	70	11905	70A/SW/MI 48PK	120	144	CC-8	4.43	3.12	750	1125			↘		Soft White, Miser®
70/170/240 WATTS																
A21	3C Med	70	15846	80/250A/RL/SW 6PK	120	30	C-2R	5.75	4.31	1000	800				2B, 2I, 9J	Soft White- Reader Light™ 3-Way
		170			120		CC-8			1000	2800					
		240			120					1000	3600					
75 WATTS																
A19	Med	75	10428	75A/CL 24PK	120	120	CC-6	4.43	3.12	750	1200					Clear
			22364	75A/COMM 24PK	120	24	CC-6	4.43	3.12	750	1180					Inside Frost
			41030	75A 48PK	120	144	CC-6	4.43	3.12	750	1190					Standard
			41032	75A/W 48PK	120	144	CC-6	4.43	3.12	750	1170					Soft White
			41287	75A/W/LL 24PK	120	120	CC-6	4.43	3.12	1125	1125					Soft White-LongLife
			48689	75A/RVL 48PK	120	144	CC-8	4.43	3.12	750	830					Reveal® Soft White
			81870	75A/CL/RVL 24PK	120	120	CC-6	4.43	3.12	750	885					Reveal® Clear
		75	17347	75A	130	120	CC-6	4.43	3.12	750	1170					Inside Frost
		67			120					1950	885					(Ratings @ 120 volts.)
		75	40328	75A/S-130V-24PK	130	24	C-9	4.43	3.12	3000	815					Survivor™ LongLife I.F. Vibration
		67			120					8300	615					Resistant (Ratings @ 120 volts.)

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Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
75 WATTS (CONTINUED)																
A21	Med	75	**17482**	**75A21**	12	120	C-6	5.25	3.81	1000	1500				5A	Inside Frost
			18274	**75A/RS 12PK**	120	60	C-17	5.25	3.81	1000	750				2A, 5E	I.F. Rough Service
			46895	**75A/RS/STG PQ1/6**	120	30	C-17	5.25	3.81	1000	740					Rough Service, Saf-T-Gard®
			47263	**75A/RS/CVG-6PK**	120	30	C-17	5.25	3.81	1000	740					Inside Frost - covRguard® Rough Service, Teflon® Coated
		75	**17527**	**75A/RS 60PK**	130	60	C-17	5.25	3.81	1000	740				2A, 5E	I.F. Rough Service
		67			120					2600	560				2A, 5E	(Ratings @ 120 volts)
ER30	Med	75	**37044**	**75ER30**	120	24	CC-6	6.25		2000	850		1200		2A, 2B, 5E	ER-Elliptical Reflector, Light I.F.
			42850	**75ER30**	130	24	CC-6	6.25		2000	850		1200		2A, 2B, 5E	ER-Elliptical Reflector, Light I.F.
PAR38	Med Sid Pr	75	**80319**	**75PAR/3SP/MINE**	120	12	CC-6	4.3		2000	765	2725			1A, 2A, 2B, 9N	Mine Reflector
			80316	**75PAR/3FL/MINE**	120	12	CC-6	4.3		2000	765	2725	1750	33	1A, 2A, 2B, 9N	Mine Flood
PAR46	3 Prong	75	**36473**	**75PAR46/TS**	120	12	CC-6	3.87		6000	700					Traffic Signal
R20	Med	75	**11320**	**75R20 6PK**	120	60	CC-6	3.93		2000	650				2A, 5E, 9K	Reflector , I.F.
R30	Med	75	**22748**	**75R30/BLB 6PK**	120	6	C-9	5.37		1000					2A, 2F, 5B, 7A, 7C, 9K	Reflector Black Light
T10	Med	75	**17749**	**75T10/1**	120	24	C-23	11.87		1000	800					Frost-Showcase
			17754	**75T10/45**	120	24	C-23	11.87		1000	800					Clear-Showcase
85 WATTS																
PAR38	Med Skirt	85	**20945**	**85PAR/FL/BG 6PK**	120	6	CC-6	5.31		2000					1A, 2A, 2B	Yellow-Bug-Lite, BB
			13465	**100PAR/B/85WM 6PK**	120	6	CC-6	5.31		2000				↘	1A, 2A, 2B	Powder Coated - Blue, BB
			13472	**100PAR/R/85WM 6PK**	120	6	CC-6	5.31		2000				↘	1A, 2A, 2B	Powder Coated - Red, BB
			13473	**100PAR/Y/85WM 6PK**	120	6	CC-6	5.31		2000				↘	1A, 2A, 2B	Powder Coated - Yellow, BB
			13474	**100PAR/G/85WM 6PK**	120	6	CC-6	5.31		2000				↘	1A, 2A, 2B	Powder Coated - Green, BB
88 WATTS																
PAR36	Scrw Term	88	**39817**	**88PAR36/FL**	75	12	CC-6	2.75		1500	810					Projector-Train Warning
90 WATTS																
A19	Med	90	**12618**	**100A/90WM**	120	120	CC-8	4.43	3.12	1000	1465			↘		Watt-Miser®-Diffuse Coating
		90	**12625**	**100A/90WM**	130	120	CC-8	4.43	3.12	1000	1440			↘		Watt-Miser®-Diffuse Coating
		80			120					2600	1095					(Ratings @ 120 volts.)
		90	**13023**	**100A/90WMP/99**	130	120	CC-8	4.43	3.12	2500	1260			↘		Watt-Miser® Plus-Diffuse Coating.
		80			120					6800	960					LongLife, (Ratings @ 120 volts.)
A21	Med	90	**17972**	**100A21/90WM/TS**	125	120	C-11V	4.37	2.43	8000	1040			↘		Watt-Miser®-Clear. Traffic Signal. Burn BDTH, Krypton
BR40	Med	90	**46870**	**90R40/FL**	130	30	CC-6	6.563		2000	1050			↘		Watt-Miser® - Reflector - I.F.
			14017	**90R40/FL/MI 6PK**	120	30	CC-6	6.56		2000	1100			↘	2A, 2B, 5E, 9K	Reflector Flood
95 WATTS																
A19	Med	95	**11906**	**95A/SW/MI 48PK**	120	144	CC-8	4.43	3.12	750	1610			↘		Soft White Miser®
100 WATTS																
A19	Med	100	**14056**	**100A/SSW-24PK**	120	120	CC-8	4.43	3.12	750	1690					Super Soft - Soft White
			17995	**100A/LHT/IF**	120	120	CC-8	4.43	3.12	750	1710					Inside Frost, Left-Hand Medium Base
			20328	**100A/SPK 24PK**	120	120	CC-8	4.43	3.12	1000	1330				2B	Soft Pink
			22366	**100A/COMM 24PK**	120	24	CC-8	4.43	3.12	750	1690					Inside Frost
			39321	**100A/CL 24PK**	120	120	CC-8	4.43	3.12	750	1730					Clear
			40329	**100A/S-120V-24PK**	120	24	C-9	4.43	3.12	3000	1190				2B	Survivor™-I.F., Long Life, Vibration Resistant BB
			41034	**100A 48PK**	120	144	CC-8	4.43	3.12	750	1710					Standard
			41036	**100A/W 48PK**	120	144	CC-8	4.43	3.12	750	1690					Soft White
			41289	**100A/W/LL 24PK**	120	120	CC-8	4.43	3.12	1125	1600					Soft White-Long Life

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
100 WATTS (CONTINUED)																
A19	Med	100	**41291**	**100A/Y 24PK**	120	120	CC-8	4.43	3.12	1000	900				2B	Bug-Lite
			46846	**100A/W/STGPQ2/10**	120	100	CC-8	4.43	3.12	750	1624					Soft White Saf-T-Gard®
			48690	**100A/RVL 48PK**	120	144	CC-8	4.43	3.12	750	1260					Reveal® Soft White
			81871	**100A/CL/RVL 24PK**	120	120	CC-8	4.43	3.12	750	1300					Reveal® Clear
		100	**17933**	**100A**	130	120	CC-8	4.43	3.12	750	1680					Inside Frost
		89			120					1950	1275					(Ratings @ 120 volts.)
		100	**40330**	**100A/S-130V-24PK**	130	24	C-9	4.43	3.12	3000	1170				2B	Survivor™-I.F., Long Life, Vibration
		89			120					8300	880				2B	Resistant, BB (Ratings @ 120 volts.)
A21	Med	100	**17525**	**100A21/SBIF 60PK**	120	60	CC-6	5.25	3.87	1000	1400				2B	I.F. Silvered Bowl
			18275	**100A/RS 12PK-5**	120	60	C-17	5.25	3.81	1000	1160				2A, 5E	I.F. Rough Service
			47261	**100A/RS/STGPQ1/6**	120	30	C-17	5.25	3.81	1000	1230					Rough Service - Saf-T-Gard®
			47262	**100A/RS/CVG-6PK**	120	30	C-17	5.25	3.81	1000	1230					I.F.-covRguard® Rough Service, Teflon® Coated
			18365	**100A21/TS**	130	120	C-9	4.37	2.43	3000	1280					Clear-Traffic Signal. Rated Watts: 98. BDTH
		100	**17522**	**100A/RS 60PK**	130	60	C-17	5.25	3.81	1000	1060				2A, 5E	I.F. Rough Service
		89			120					2600	800					(Ratings @ 120 volts.)
		100	**18221**	**100A21**	130	60	CC-6	5.25	3.87	750	1690					Inside Frost
		89			120					1950	1285					(Ratings @ 120 volts.)
		100	**21315**	**100A21/99 60PK**	130	60	CC-6	5.25	3.87	2500	1420					Diffuse Coating-Extended Service
		89			120					6800	1080					(Ratings @ 120 volts.)
		100	**17515**	**100A 60PK**	230	60	C-7A	5.25	3.81	750	1280					Inside Frost
			17516	**100A 60PK**	250	60	C-7A	5.25	3.81	750	1200					Inside Frost
			17524	**100A/RS 60PK**	250	60	C-17	5.25	3.81	1000	960				2A, 5E	I.F. Rough Service
			17517	**100A 60PK**	277	60	C-7A	5.25	3.81	750	1250					Inside Frost
A23	Med	100	**18512**	**100A23**	12	120	C-6	5.93	4.43	1000	1750				5A	Inside Frost
			17904	**100A**	34	120	C-9	5.93	4.43	1000	2160				5A	I.F.-Train
			18449	**100A23/IF**	120	120	CC-6	5.93	4.43	750	1600					Inside Frost
			18542	**100A23/20**	120	120	CC-6	5.93	4.43	1000	1530					Clear-Commercial Oven
		100	**33456**	**100A23/VS**	130	24	C-9	5.93	4.43	1000	1340					I.F.-Vibration Service
		89			120					2600	1020					(Ratings @ 120 volts.)
G16.5	DC Bay	100	**18721**	**100G16.5/29DC**	120	60	CC-13	3	1.37	120	1660				5E, 9D	Clear Reflector. BDTH, BB
PAR38	Med Sid Pr	100	**80323**	**100PAR38/FL**	12	12	C-6	4.3		1000	1400		2200	60	1A, 2A, 2B, 9N	PAR-Mine Flood
R30	Med	100	**39503**	**100R30/CL**	12	24	C-6	5.37		2000	1200				2B, 5A, 5E	Reflector-Clear, Swimming Pool, BB
100/200/300 WATTS																
PS25d	3C Mog	100	**41459**	**100/300 6PK**	120	30	CC-6	6.68	4.43	1200	1320				2B, 9C, 9J	Soft White - 3-Way
		200			120		CC-6			1500	3300					
		100			120						4620					
110 WATTS																
R30	Med	110	**18980**	**110R30/FL/RS**	120	24									2A, 5E, 9K	Reflector Flood. I.F. Rough Service, BB
			46859	**110R30/FL/RS/1**	120	30	C-17	5.375		2000	1080					Reflector Flood. I.F. Rough Service
116 WATTS																
A21	Med	116	**19008**	**116A21/TS**	120	120	C-9	4.37	2.43	8000	1280					Clear-Traffic Signal, BDTH
			19009	**116A21/TS**	125	120	C-9	4.37	2.43	8000	1280					Clear-Traffic Signal, BDTH
			19010	**116A21/TS**	130	120	C-9	4.37	2.43	8000	1280					Clear-Traffic Signal, BDTH
120 WATTS																
BR40	Med	120	**16241**	**120R40/FL-RVL**	120	30	CC-6	6.56		2000						Indoor Floodlight: Reveal
			46875	**120R40/FL/B**	120	30	CC-6	6.563		2000			1450			Watt-Miser® - Reflector - Blue

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All footnote references found at the end of this section. ➘ Reduced Wattage

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
120 WATTS (CONTINUED)																
BR40	Med	120	**46876**	**120R40/FL/PK**	120	30	CC-6	6.563		2000			1450			Watt-Miser® - Reflector - Pink
			20333	**120R/FL/MI/1 6PK**	120	30	CC-6	6.56		2000	1600				2A, 2B, 5E, 9K	Miser®-Reflector Flood
			20334	**120R/SP/MI/1 6PK**	120	30	CC-6	6.56		2000	1600				2A, 2B, 5E, 9K	Reflector
			20824	**120R/FLMI/TWIN**	120	3	CC-6	6.56		2000	1600				2A, 2B, 5E, 9K	Reflector Flood - Twin Pack
			21000	**120R40/PL-1 6PK**	120	30	CC-6	6.56		2000					2A, 2B, 5E, 9K	Reflector Plant Light, BB
			22715	**120R/FL/COMM 6PK**	120	30	CC-6	6.56		2000	1600				2A, 2B, 5E, 9K	Watt-Miser® Reflector Flood IF
			47684	**120R40/FLLLPQ1-6**	120	30	CC-6	6.56		2500	1300					Indoor Floodlight - Long Life
			46871	**120R40/FL**	130	30	CC-6	6.563		2000	1600		1450			Watt-Miser® - Reflector - I.F.
			46872	**120R40/SP**	130	30	CC-6	6.563		2000						Reflector
			46877	**120R/40/FL/CVG**	130	30	CC-6	6.56		1700	1550		1200			Reflector - covRguard® Teflon® Coated
			47725	**120R40FL/STG PQ6**	130	30	CC-6	6.56		1700	1550		1200			Reflector - Saf-T-Gard® Teflon® Coated
ER39	Med	120	**41607**	**120ER39**	120	24	CC-6	7.37		2000	1425		1700		2A, 2B, 5E	ER-Elliptical Reflector, Light I.F.
PAR38	Med Sid Pr	120	**80313**	**150PAR/3FL/120WM**	120	12	CC-6	4.3		2000	1370	2725	3600	30 ↘	1A, 2A, 2B, 9N	Watt-Miser®-Flood
			80322	**150PAR/3SP/120WM**	120	12	CC-6	4.3		2000	1370	2725	9200	18 ↘	1A, 2A, 2B, 9N	Watt-Miser® Reflector
135 WATTS																
A21	Med	135	**17973**	**150A21/135WM/TS**		120	C-11V	4.68	3	7000	1750			↘		Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB, Krypton
			17974	**150A21/135WM/TS**		120	C-11V	4.68	3	7000	1750			↘		Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB, Krypton
			12619	**150A/135WM**	120	60	CC-8	5.37	4.06	1000	2380			↘		Watt-Miser®-Diffuse Coating
		135 120	**12627**	**150A/135WM**	130 120	60	CC-8	5.37	4.06	1000 2600	2340 1790			↘		Watt-Miser®-Diffuse Coating (Ratings @ 120 volts.)
		135 120	**13025**	**150A/135WMP/99**	130 120	60	CC-8	5.37	4.06	2500 6800	2060 1580			↘		Watt-Miser®-Plus-Diffuse Coating, LongLife (Ratings @ 120 volts.)
150 WATTS																
A21	Med	150	**10429**	**150A/W 12PK**	120	12	CC-8	5.37	4.06	750	2780					Soft White
			16703	**150A/RVL**	120	30	CC-8	5.37	4.06	750	1950					Reveal®
			22881	**150A/RL/SW 6PK**	120	30	CC-8	5.75	4.31	750	2650					Soft White-Reader Light™
			22889	**150A/GAR 12PK**	120	12	CC-8	5.37	4.16	1125	2600					I.F. - Garage
			41294	**150A 24PK**	120	24	CC-8	5.37	4.06	750	2850					Standard
		150 133	**15818**	**150A/S**	130 120	60	C-9	4.93	3.37	2000 5500	1925 1470				2B	Survivor™-I.F. Long Life. Vibration Resistant, BB (Ratings @ 120 volts.)
		150 133	**17625**	**150A21/RS**	130 120	60	C-17	5.25	3.81	1000 2600	2065 1580				2A, 5E	I.F.-Rough Service (Ratings @ 120 volts.)
		150 133	**25929**	**150A21/99/IF**	130 120	60	CC-8	5.37	4.06	2500 6800	2310 1765					I.F.-Extended Service, BB (Ratings @ 120 volts.)
		150 133	**33009**	**150A**	130 120	60	CC-8	5.37	4.06	750 1950	2800 2140					Inside Frost (Ratings @ 120 volts.)
P25	Med	150	**19334**	**150P25/2SB**	120	60	C-7A	4.75		200	2100					Clear Reflector. Silvered Bowl. Hard glass button, BB
			19372	**150P25/10**	120	60	C-7A	4.75	3	200	2100					Light I.F.-Spot. Hard glass button, BB
PAR38	Med Sid Pr	150	**80321**	**150PAR/3SP/MINE**	120	12	CC-6	4.3		2000	1740		12000	16	1A, 2A, 2B, 9N	Mine Reflector
			80315	**150PAR/3FL/MINE**	120	12	CC-6	4.3		2000	1740	2775	3100	36	1A, 2A, 2B, 9N	Mine-Flood
			19489	**150PAR/3SP/MINE**	130	12	CC-6	4.3		2000	1740		12000	16	1A, 2A, 2B, 9N	Mine Reflector
			80317	**150PAR/3FL/MINE**	130	12	CC-6	4.3		2000	1740		3100	36	1A, 2A, 2B, 9N	Mine-Flood
	Med Skirt	150	**19464**	**150PAR/FL/A**	120	12	CC-6	5.31		2000					1A, 2A, 2B	Flood. Dichro Amber
			19465	**150PAR/FL/B**	120	12	CC-6	5.31		2000					1A, 2A, 2B	Flood. Dichro Blue
			19467	**150PAR/FL/G**	120	12	CC-6	5.31		2000					1A, 2A, 2B	Flood. Dichro Green
			19468	**150PAR/FL/R**	120	12	CC-6	5.31		2000					1A, 2A, 2B	Flood. Dichro Red

INCANDESCENT LAMPS (CONTINUED)

150 WATTS (CONTINUED)

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
PAR38	Med Skirt	150	**26370**	**150PAR/FL/CVG**	120	12	CC-6	5.31		2000	1700				1A, 2A, 2B, 9L, 9M	covRguard® Flood, BB, Teflon® Coated
			26371	**150PAR/SP/CVG**	120	12	CC-6	5.31		2000	1700					covRguard® Spot, BB, Teflon® Coated
			48037	**150PAR/FL/STGPQ6**	120	6	CC-6	5.31		2000	1700					Saf-T-Gard® Flood, BB, Teflon® Coated
PAR46	3 Prong	150	**35327**	**150PAR46/TS**	115	12	CC-6	4		6000	1750					Traffic Signal - Burn Horiz.
	Scrw Term	150	**19512**	**150PAR46/1**	32	12	CC-8	3.75		800	1950		100000			Mine Locomotive Headlight
			19517	**150PAR46**	125	12	C-13	3.75		1000	1250					Mine Locomotive Headlight
	Med Sid Pr	150	**41968**	**150PAR46/3MFL**	125	12	CC-13	4		2000	1500	2750	8000		1A, 2A, 5B, 5C, 9N	Medium Flood
PS25	Med	150	**14635**	**150PS25/CVG**	120	60	C-9	6.93		1000	2630				2A, 9L, 9M	Inside Frost-covRguard®, BB, Teflon® Coated
			14716	**150/RS/CVG**	120	60	C-17	6.93	5.18	1000	2120				2A, 9L, 9M	Inside Frost-covRguard® Rough Service, BB, Teflon® Coated
			19597	**150/SBIF**	120	60	C-9	6.93	5.18	1000	2370					I.F.-Silver Bowl
		150	**19530**	**150/IF**	130	60	C-9	6.93	5.18	750	2520					Inside Frost
		133			120					1950	1930					(Ratings @ 120 volts.) Vibration Resistant
		150	**19618**	**150/RS**	130	60	C-17	6.93	5.18	1000	2160				2A, 5E	I.F.-Rough Service
		133			120					2600	1650					(Ratings @ 120 volts.)
		150	**19658**	**150/99/IF**	130	60	C-9	6.93	5.18	2500	2200					I.F.-Extended Service
		133			120					6800	1680					(Ratings @ 120 volts.) Vibration Resistant
		150	**19668**	**150/99CL**	130	60	C-9	6.93	5.18	2500	2200					Clear-Extended Service
		133			120					6800	1680					(Ratings @ 120 volts.) Vibration Resistant
		150	**33465**	**150/VS**	130	24	C-9	6.93	5.18	1000	2270					I.F.-Vibration Service
		133			120					2600	1735					(Ratings @ 120 volts.)
PS30	Med	150	**19756**	**150PS30**	230	60	C-9	8.06	6	750	1950					Clear-Reflector. Silvered Neck
ER30	Med	120	**43231**	**120ER40**	130	24	CC-6	7.37		2000	1425		1700		2A, 2B, 5E	ER-Elliptical Reflector, Light I.F.

175 WATTS

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
PAR38	Med Skirt	175	**13643**	**175PAR38/HEAT**	120	12	CC-6	5.31	4.31	5000	3100				1A, 2A, 2B, 3B	Infrared-Clear

200 WATTS

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
A21	Med	200	**11585**	**200A/W-1 12PK**	120	12	CC-8	5.37	4.06	750	3910					Soft White
			16069	**200A/CL-1 12PK**	120	12	CC-8	5.37	4.06	750	3980					Crystal
			25925	**200A21/IF/12PK**	120	12	CC-8	5.37	4.06	750	3920					Inside Frost
		200	**25930**	**200A21/IF 130**	130	60	CC-8	5.37	4.06	750	3850					Inside Frost
		177			120					1950	2965					(Ratings @ 120 volts.)
		200	**25932**	**200A21/CL**	130	60	CC-8	5.37	4.06	750	3850					Clear
		177			120					1950	2965					(Ratings @ 120 volts.)
		200	**25936**	**200A21/99/IF**	130	60	CC-8	5.37	4.06	2500	3250					I.F.-Extended Service
		177			120					6800	2500					(Ratings @ 120 volts.)
		200	**25937**	**200A21/99/CL 130**	130	60	CC-8	5.37	4.06	2500	3250					Clear-Extended Service
		177			120					6800	2500					(Ratings @ 120 volts.)
PAR46	Med Sid Pr	200	**20115**	**200PAR46/3NSP**	120	12	CC-13	4		2000	2270	2750	31000		1A, 2A, 5B, 5C, 9N	Narrow Reflector
			20138	**200PAR46/3MFL**	120	12	CC-13	4		2000	2270	2750	11500		1A, 2A, 5B, 5C, 9N	Medium Flood
			20117	**200PAR46/3NSP**	130	12	CC-13	4		2000	2270	2750	31000		1A, 2A, 5B, 5C, 9N	Narrow Reflector
			20140	**200PAR46/3MFL**	130	12	CC-13	4		2000	2270	2750	11500		1A, 2A, 5B, 5C, 9N	Medium Flood
PAR56	Scrw Term	200	**20122**	**200PAR**	30	12	CC-8	4.5		350			230000			Locomotive Headlight
	Mog End Pr	200	**49889**	**200PAR56/MFL**	120	12	CC-13	5		2000	2270	2750	15000		1A, 2A, 5B, 5C, 9N	Medium Flood

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INCANDESCENT LAMPS (CONTINUED)

200 WATTS (CONTINUED)

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
PS30	Med	200	**14636**	**200PS30/CVG**	120	60	C-9	8.06	6	1000	3480				2A, 9L, 9M	Inside Frost-covRguard®, BB, Teflon® Coated
			14637	**200PS30/RS/CVG**	120	60	C-9	8.06	6	1000	3330				2A, 9L, 9M	Inside Frost-covRguard® Rough Service, BB, Teflon® Coated
			20316	**200/SBIF**	120	60	C-9	8.06	6	1000	3320					I.F.-Silvered Bowl
		200	**20172**	**200**	130	60	C-9	8.06	6	750	3540					Clear
		177			120					1950	2725					(Ratings @ 120 volts.)
		200	**20252**	**200/IF**	130	60	C-9	8.06	6	750	3540					Inside Frost
		177			120					1950	2725					(Ratings @ 120 volts.)
		200	**20354**	**200/99IF**	130	60	C-9	8.06	6	2500	3000					I.F.-Extended Service, BB
		177			120					6800	2310					(Ratings @ 120 volts.)
		200	**20403**	**200PS30/24**	130	60	C-9	8.06	6	1000	3240				2A, 5E	Clear-Rough Service
		177			120					2600	2495				2A, 5E	(Ratings @ 120 volts.)
		200	**33468**	**200PS30/23 24PK**	130	24	C-9	8.06	6	1000	3240				2A, 5E	I.F.-Rough Service
		177			120					2600	2495					(Ratings @ 120 volts.)
		200	**20192**	**200**	250	60	C-9	8.06	6	1000	2980					Clear

240 WATTS

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
A21	Med	240	**15843**	**240A/RL/SW 6PK**	120	30	CC-8	5.75	4.31	750	4300					Soft White-Reader Light™
PAR56	Scrw Term	240	**20575**	**240PAR56/VNSP**	12	12	C-6	4.5		2000		2800	140000		1A, 2A, 5B, 5C, 9N	Very Narrow Reflector
			20576	**240PAR56/MFL**	12	12	C-6	4.5		2000		2800	46000		1A, 2A, 5B, 5C, 9N	Medium Flood
			20577	**240PAR56/WFL**	12	12	C-6	4.5		2000		2800	13000		1A, 2A, 5B, 5C, 9N	Wide Flood

250 WATTS

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
R40	Med	250	**37770**	**250R40/1 6PK**	120	30	C-9	6.56		5000	2200				2A, 2B, 3B, 5E, 6A	Reflector-Warm Up Infrared Heat Lamp - Clear Face
			37771	**250R40/10 6PK**	120	30	C-9	6.56		5000					2A, 2B, 3B, 5E, 6A	Reflector-Chill Chaser Infrared Heat Lamp. Red, HRG
			46881	**250R40/1/CVG**	120	30	C-9	6.56		5000	2150					Clear-covRguard® Teflon® Coated. Food Warming, Reflector-Infrared
	Med Skirt	250	**20724**	**250R40/4**	120	24	C-9	7.43		5000					2A, 2B, 3B, 5E, 6A	Reflector Infrared Industrial-Light I.F., BB

300 WATTS

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
PAR56	Scrw Term	300	**23427**	**300PAR56/WFL**	12	12	C-6	4.5		1000	6000				2B, 9F, 9N	PAR-Wide Flood. Swimming
PAR56	Mog End Pr	300	**20803**	**300PAR56/NSP**	120	12	CC-13	5		2000	3840	2750	68000		1A, 2A, 5B, 5C, 9N	Narrow Reflector
			20836	**300PAR56/MFL**	120	12	CC-13	5		2000	3840	2750	24000		1A, 2A, 5B, 5C, 9N	Medium Flood
			20849	**300PAR56/WFL**	120	12	CC-13	5		2000	3840	2750	11000		1A, 2A, 5B, 5C, 9N	Wide Flood
			20838	**300PAR56/MFL**	130	12	CC-13	5		2000	3840	2750	24000		1A, 2A, 5B, 5C, 9N	Medium Flood
			20851	**300PAR56/WFL**	130	12	CC-13	5		2000	3840	2750	11000		1A, 2A, 5B, 5C, 9N	Wide Flood
PS25	Med	300	**20861**	**300M**	120	60	CC-8	6.93	5.18	750	6200					Clear
			25919	**300M/IF 6PK**	120	30	CC-8	6.93	5.18	750	6200					Inside Frost
		300	**20863**	**300M**	130	60	CC-8	6.93	5.18	750	6120					Clear
		266			120					1950	4170					(Ratings @ 120 volts.)
		300	**20917**	**300M/IF**	130	60	CC-8	6.93	5.18	750	6120					Inside Frost
		266			120					1950	4170					(Ratings @ 120 volts.)

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
300 WATTS (CONTINUED)																
PS30	Med	300	**20887**	**300M/99**	130	60	C-9	8.06	6	2500	5110					Clear-Extended Service
		266			120					6800	3935					(Ratings @ 120 volts.)
		300	**20894**	**300M/99IF**	130	60	C-9	8.06	6	2500	5110					I.F.-Extended Service
		266			120					6800	3935					(Ratings @ 120 volts.)
PS35	Mog	300	**21025**	**300**	130	24	C-9	9.37	7	1000	5820					Clear
			21079	**300/IF**	130	24	C-9	9.37	7	1000	5820					Inside Frost
			21139	**300/SBIF**	130	24	C-9	9.37	7	1000	5410					I.F.-Silver Bowl. Burn base up
			21167	**300/99**	130	24	C-9	9.37	7	2500	5190					Clear-Extended Service
			21177	**300/99IF**	130	24	C-9	9.37	7	2500	5190					I.F.-Extended Service
R40	Med	300	**21197**	**300R/SP**	120	24	CC-2V	6.56		2000	3700		9000		2A, 2B, 5B, 9E	Reflector -Light I.F. HORIZ
			21213	**300R/FL**	120	24	CC-2V	6.56		2000	3700		2500		2A, 2B, 5B, 9E	Reflector Flood-I.F. HORIZ
			21229	**300R/FL/1**	120	24	CC-2V	6.75		2000	3700		1900		2A, 2B, 5B, 9E	Reflector Flood-I.F. BB, HRG
		300	**21215**	**300R/FL**	130	24	CC-2V	6.56		2000	3465		2500		2A, 2B, 5B, 9E	Reflector Flood-I.F. HORIZ
		266			120					5400	2670					(Ratings @ 120 volts.)
	Mog	300	**21254**	**300R/3FL**	120	24	CC-2V	7.25		2000	3750				2A, 2B, 5B, 9E	Reflector Flood-I.F. BB
			21256	**300R/3FL**	130	24	CC-2V	7.25		2000	3750				2A, 2B, 5B, 9E	Reflector Flood-I.F. BB
			21263	**300R/3FL**	250	24	C-7A	7.25		2000	3300				2A, 2B, 5B, 9E	Reflector Flood-I.F. BB
T20	Med BiPost	300	**21280**	**300T20/1**	120	12	C-13	6.5	4	1000	5500				8A, 9G	Inside Frost, HRG
350 WATTS																
PAR56	Scrw Term	350	**19866**	**350PAR56/SP**	75	12	CC-8	4.5		500	6200				1A, 2A, 5B, 5C, 9N	Ditch Light-Locomotive
375 WATTS																
R40	Med Skirt	375	**21331**	**375R40**	115	24	C-9	7.37		5000					2A, 2B, 3B, 5E, 6A	Reflector Infrared Industrial-Light I.F., BB
			21334	**375R40/1**	115	24	C-9	7.5		5000					2A, 2B, 3B, 5E, 6A	Reflector Infrared Industrial-Clear Face, HRG, BB
400 WATTS																
G30	Med	400	**21363**	**400G/FL**	120	60	C-5	5.12	3	800	6800				2A, 2B, 2D, 5B	Clear Flood, BDTH, BB
R40	Med	400	**17542**	**400R40/FL**	120	24	CC-2V	6.75		2000	5000				5B, 5C, 9B	Reflector Flood. Swimming Pool, BB, HRG
					120											
500 WATTS																
PAR64	MogEndPr	500	**39411**	**500PAR64/MFL**	230	12	CC-13	6		2000	5500	2700			1A, 2A, 5B, 5C, 9N	Medium Flood
			39414	**500PAR64/WFL**	230	12	CC-13	6		2000	5500	2700			1A, 2A, 5B, 5C, 9N	Wide Flood
	ExMogEndPr	500	**39406**	**500PAR64/NSP**	120	12	CC-13	6		2000	6500	2800	110000		1A, 2A, 5B, 5C, 9N	Narrow Reflector
			39409	**500PAR64/MFL**	120	12	CC-13	6		2000	6500	2800	37000		1A, 2A, 5B, 5C, 9N	Medium Flood
			39412	**500PAR64/WFL**	120	12	CC-13	6		2000	6500	2800	13000		1A, 2A, 5B, 5C, 9N	Wide Flood
PS35	Mog	500	**21530**	**500**	120	24	CC-8	9.37	7	1000	10850					Clear, BB
			21532	**500**	130	24	CC-8	9.37	7	1000	10850					Clear, BB
			21581	**500/IF**	130	24	CC-8	9.37	7	1000	10850					Inside Frost, BB
			21651	**500/99IF**	130	24	C-9	9.75	7	2000	9070					I.F.-Extended Service, BB
PS40	Mog	500	**21643**	**500/99**	130	24	C-9	9.75	7	2000	9070					Clear-Extended Service, BB
			21687	**500PS40**	120	24	C-9	9.75	7	1000	9900					Clear, BB

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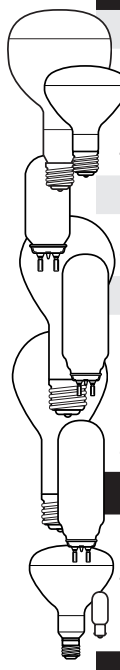
All footnote references found at the end of this section. ➘ Reduced Wattage



Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
INCANDESCENT LAMPS (CONTINUED)																
500 WATTS (CONTINUED)																
R40	Mog	500	**21734**	**500R/3FL**	120	24	CC-2V	7.25		2000	6500				2A, 2B, 5B, 9E	Reflector Flood-I.F. BB, HRG
			21736	**500R/3FL**	130	24	CC-2V	7.25		2000	6500				2A, 2B, 5B, 9E	Reflector Flood-I.F. BB, HRG
R52	Mog	500	**21761**	**500R52**	130	12	C-7A	11.75		2000	7600					Reflector High Bay-Light I.F. BB
T20	Med BiPost	500	**21872**	**500T20/50**	130	12	C-13	6.5	4	1000	9800				8A, 9G	I.F. HRG
750 WATTS																
PS52	Mog	750	**22000**	**750**	130	12	CC-8	13	9.5	1000	17040				5D, 5E	Clear, BB
T24	Med BiPost	750	**22117**	**750T24**	130	24	C-13	9.18	5.5	1000	14800				8A, 9G	Inside Frost, HRG
1000 WATTS																
PS52	Mog	1000	**22260**	**1000**	130	12	CC-8	13	9.5	1000	23740				5D, 5E	Clear, BB
			22301	**1000/99**	130	12	C-7A	13	9.5	2500	19800				5D, 5E	Clear-Extended Service, BB
			22280	**1000**	250	12	C-7A	13	9.5	2000	17700				5D, 5E	Clear, BB
			22284	**1000**	277	12	C-7A	13	9.5	2000	17700				5D, 5E	Clear, BB
T24	Med BiPost	1000	**22479**	**1M/T24**	120	24	C-13	9.18	5.5	1000	21200				8A, 9G	Inside Frost, HRG
MISC. INCANDESCENT LAMP TYPES																
R40	Med		**23423**	**21A/R40/FL**	12	24	C-2V	6.68		1000					2C, 5A, 5E	Reflector Flood-I.F. Swimming pool. BDTH, HORIZ, HRG, BB
T8	SC Bay		**23326**	**7.5A/T8/92SC**	10	24	C-8Z	3.12	1.75	100	1620					Clear-Sound Reproduction Optical Comparator. Source WxH: 1.8 x 4.6mm. ANSI: BXE, BB
EXPORT-ONLY																
65 WATTS																
PAR38	Med Skirt	65	**14505**	**75PAR/SP/65/WM/EX**	130	12	CC-6	5.31		2000	675	2675	5900	14	1A, 2A, 2B	Watt-Miser®, Reflector
			14506	**75PAR/FL/65WM/EX**	130	12	CC-6	5.31		2000	675	2675	1750	30	1A, 2A, 2B	Watt-Miser®, Flood
75 WATTS																
PAR38	Med Skirt	75	**14510**	**75PAR/FL/EX**	120	12	CC-6	5.31		2000	765	2700	1750	33	1A, 2A, 2B	Flood
85 WATTS																
PAR38	Med Skirt	85	**14509**	**100PAR/FL/85WM/EX**	120	6	CC-6	5.31		2000	930	2700	2000	37 ↘	1A, 2A, 2B	Miser® Flood
120 WATTS																
PAR38	Med Skirt	120	**14501**	**150PAR/FL/120WM/EX**	120	12	CC-6	5.31		2000	1370	2725	3600	30 ↘	1A, 2A, 2B	Watt-Miser®, Flood
			14502	**150PAR/SP/120WM/EX**	120	12	CC-6	5.31		2000	1370	2725	9200	18 ↘	1A, 2A, 2B	Watt-Miser®, Reflector
			14503	**150PAR/FL/120WM/EX**	130	12	CC-6	5.31		2000	1370	2725	3600	30 ↘	1A, 2A, 2B	Watt-Miser®, Flood
150 WATTS																
PAR38	Med Skirt	150	**14531**	**150PAR/FL/EX**	120	12	CC-6	5.31		2000	1740	2775	3100	36	1A, 2A, 2B	Flood
			14535	**150PAR/SP/EX**	120	12	CC-6	5.31		2000	1740	2775	12000	16	1A, 2A, 2B	Reflector
E27 BASE-EXPORT																
80 WATTS																
PAR38	Skirted (E27)	80	**18180**	**80PAR/SP/27**	220/0	12									1A, 2A, 2B	Clear Reflector
100 WATTS																
PAR38	Skirted (E27)	100	**38854**	**100PAR/FL/27**	220/0	12	CC-6	5.5		2000	800	2600	1500	35	1A, 2A, 2B	Clear Flood
			42711	**100PAR/FL/27**	240/0	12	CC-6	5.5		2000	800	2600	1500	35	1A, 2A, 2B	Clear Flood

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
E27 BASE-EXPORT (CONTINUED)																
120 WATTS																
PAR38	Skirted	120	**18172**	**120PAR/FL/27**	220/0	12	CC-6	5.5		2000	1150	2675	2300	35	1A, 2A, 2B	Clear Flood
			18173	**120PAR/FL/27**	240/0	12	CC-6	5.5		2000	1050	2675	2300	35	1A, 2A, 2B	Clear Flood
PAR56	Scrw Term	120	**19023**	**120PAR56VNSP**	12	12	C-6	4.5		2000	1050	2750	60000		1A, 2A, 5B, 5C, 9N	Very Narrow Reflector
			19024	**120PAR56/MFL**	12	12	C-6	4.5		2000	1050	2750	19000		1A, 2A, 5B, 5C, 9N	Medium Flood
			19025	**120PAR56WFL**	12	12	C-6	4.5		2000	1050	2750	5625		1A, 2A, 5B, 5C, 9N	Wide Flood
150 WATTS																
PAR38	Skirted	150	**40033**	**150PAR/FL/27**	220/0	12	CC-6	5.5		2000	1350	2650	2450	35	1A, 2A, 2B	Clear Flood
			40035	**150PAR/FL/27**	240/0	12	CC-6	5.5		2000	1350	2650	2450	35	1A, 2A, 2B	Clear Flood
EXPORT PAR																
300 WATTS																
PAR56	GX16DEXT	300	**20852**	**300PAR56/MFL**	230	12	CC-13	5		2000	3450				1A, 2A, 5B, 5C, 9N	Medium Flood
			20853	**300PAR56/NSP**	230	12	CC-13	5		2000	3450				1A, 2A, 5B, 5C, 9N	Narrow Reflector
			20854	**300PAR56/WFL**	230	12	CC-13	5		2000	3450				1A, 2A, 5B, 5C, 9N	Wide Flood
			18676	**300PAR56/NSP**	240/0	12	CC-13	5		2000	3450				1A, 2A, 5B, 5C, 9N	Narrow Reflector
			18677	**300PAR56/MFL**	240/0	12	CC-13	5		2000	3450				1A, 2A, 5B, 5C, 9N	Medium Flood
			18678	**300PAR56/WFL**	240/0	12	CC-13	5		2000	3450				1A, 2A, 5B, 5C, 9N	Wide Flood
LUMEN RATED TRAFFIC SIGNAL																
165 WATTS																
P25	Med	165	**20094**	**1950L/P25/TS**	120	60	C-9	4.75	3	8000	1950					Clear-Traffic Signal (BDTH), BB
			20097	**1950L/P25/TS**	130	60	C-9	4.75	3	8000	1950					Clear-Traffic Signal (BDTH), BB
AIRPORT																
30 WATTS																
T10	Med Pf	30	**23294**	**6.6A/T10/1P**		60	C-2V	3.93	1.5	1000	400					Clear
40 WATTS																
T10	Med Pf	40	**15921**	**40T10P**	120	60	CC-2V	3.93	1.5	1000	400					Clear
45 WATTS																
PAR56	Scrw Term	45	**23310**	**6.6A/PAR56/5**		12	C-8	4.5		1000	700					Stippled cover
T10	Med Pf	45	**23295**	**6.6A/T10P**		60	C-2V	3.93	1.5	1000	675					Clear
120 WATTS																
PAR64	Scrw Term	120	**39395**	**120PAR**	6	12	C-6	4		3000	780		180000			Transmissometer. Filament Shielded. Very Narrow Reflector
200 WATTS																
T14	Med Pf	200	**23298**	**6.6A/T14P**		24	C-13	5.75	2.18		4900					Clear
204 WATTS																
T14	Med Pf	204	**23300**	**6.6A/T14/2P**		24	C-13	5.75	2.18	500	4220					Clear

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Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
AIRPORT (CONTINUED)																
620 WATTS																
PS40	Mog Pf	620	**21950**	**620PS40P**	120	24	C-9	10.06	5.68	3000	11200					Clear
			21952	**620PS40P**	130	24	C-9	10.06	5.68	3000	11200					Clear
1000 WATTS																
T20	Mog BiPost	1000	**22429**	**1M/T20BP**	120	12	C-13	9.5	4	500	22000					Clear-Beacon, HRG
1200 WATTS																
T20	Mog BiPost	1200	**22524**	**1200T20**	115	12	CC-8	9.5	4	750	29600					Clear-Beacon, HRG
MULTIPLE STREET LIGHTING																
A23	Med	105	**42392**	**105A23/12**	125	120	C-9	5.93	4.43	12000						Clear, BB
PS25	Med	189	**19939**	**189PS25/64**	130	60	C-9	6.93	5.25	3000						Clear, BB
		205	**42663**	**205PS25/12**	125	60	C-9	6.93	5.25	12000						Clear, BB
PS35	Mog	295	**20772**	**295PS35/58**	125	24	C-9	9.37	7	3000						Clear, BB
		327	**21307**	**327PS35**	125	24	C-9	9.37	7	6000						Clear, BB
PS40	Mog	405	**21408**	**405PS40/54**	120	24	C-9	9.75	7	3000	6850					Clear, BB
DECORATIVE																
3 WATTS																
CA10	Cand	3	**81167**	**3CAC/FF/CD1-6PK**	120	30		4.125		2000						Flicker Flame
CA10	Med	3	**81168**	**3CAM/FF/CD1-6PK**	120	30		4.125		2000						Flicker Flame
15 WATTS																
B8	Cand	15	**81559**	**15BC/CF/CD2-TRAY**	120	30	C-7A	3.19		1500						Blunt Tip, Ceiling Fan, Vibration Resistant
			48400	**15BC CD2 6PK**	120	30	C-7A	3.87		1500						Clear-Blunt Tip
B10	Cand	15	**46678**	**15 BFC PQ2/5**	120	25	C-7A	3.87		1500						Faceted-Blunt Tip
CA8	Cand	15	**41524**	**15CAC/L**	120	120	C-7A	4.12		4000						Clear-Bent Tip, LL
			48403	**15CAC/F CD2 6PK**	120	30	C-7A	4.12		1500						Frost-Bent Tip
G16.5	Cand	15	**12578**	**15GC/L**	120	60	C-7A	3		4000						Clear-Globe, LL
25 WATTS																
B8	Cand	25	**81560**	**25BC/CF/CD2-TRAY**	120	30	C-7A	3.19		1500					5E, 9D	Blunt Tip, Ceiling Fan, Vibration Resistant, BDTH
B10	Cand	25	**15787**	**25BC 25PK**	120	200	C-7A	3.75		1500						Clear-Blunt Tip
			46679	**25BFC PQ2/5**	120	25	CC-2V	3.75		1500						Faceted-Blunt Tip
			48700	**25BC/RVL CD2**	120	30	CC-2V	3.75		1500						Reveal® Clear-Blunt Tip
B13	Med	25	**22756**	**25BM CD2**	120	60	C-9	4.62		1500						Clear-Blunt Tip
CA10	Cand	25	**15777**	**25CAC 25PK**	120	200	CC-2V	4.12		1500						Clear-Bent Tip
			16045	**25CAC CARD4**	120	30	CC-2V	4.12		1500						Clear-Bent Tip
			16046	**25CAC/F CARD4**	120	30	CC-2V	4.12		1500						Frost-Bent Tip
			16365	**25CAC/L-CD4**	120	120	CC-2V	4.12		4000						Clear-Bent Tip, LL
			40045	**25CAC/L**	120	120	CC-2V	4.12		4000						Clear-Bent Tip, LL
			47933	**25CAC CARD 2**	120	30	CC-2V	4.12		1500						Clear-Bent Tip
F15	Med	25	**18890**	**25FM CD2 6PK**	120	30	C-6	4.37		1500						Clear-Flame
			18891	**25FM/A CD2 6PK**	120	30	C-6	4.37		1500						Amber-Flame
			18894	**25FM/AU CD2 6PK**	120	30	C-6	4.37		1500						Auradescent-Flame
			18895	**25FM/W CD2 6PK**	120	30	C-6	4.37		1500						White-Flame
G16.5	Cand	25	**11303**	**25GC 12PK**	120	120	CC-2V	3		1500						Clear-Globe
			15790	**25GC 25PK**	120	100	CC-2V	3		1500						Clear-Globe
			17722	**25GC CD2**	120	60	CC-2V	3		1500						Clear-Globe

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
DECORATIVE (CONTINUED)																
25 WATTS (CONTINUED)																
G16.5	Cand		**23510**	**25GC/AU-CD2**	120	60	CC-2V	3		1500						Auradescent - Globe
			27301	**25GC CD4**	120	30	CC-2V	3		1500						Clear-Globe
			27302	**25GC/W CD4**	120	30	CC-2V	3		1500						White-Globe
			39679	**25GC/W 12PK**	120	120	CC-2V	3		1500						White-Globe
			43158	**25GC-L**	120	60	CC-2V	3		4000						Clear-Globe, LL
			48703	**25GC/RVL CD2**	120	30	CC-2V	3		1500						Reveal® Clear-Globe
G16.5	Med	25	**31106**	**25GM/CL-PQ2/6**	120	30	CC-2V	3		1500						Clear-Globe, Medium Base
			31107	**25GM/W-PQ2/6**	120	30	CC-2V	3		1500						White-Globe, Medium Base
			31108	**25GM/AU-PQ2/6**	120	30	CC-2V	3		1500						Auradescent-Globe, Medium Base
G25	Med	25	**12982**	**25G25/W 6PK**	120	6	C-9	4.5		1500						White-Globe
			12983	**25G25 6PK**	120	6	C-9	4.5		1500						Clear-Globe
			20408	**25G25/L/24**	120	24	C-9	4.5		3000						Clear-Globe, LL
			20410	**25G25/W/L/24**	120	24	C-9	4.5		3000						White-Globe, LL
			25545	**25G25 CPK**	120	24	C-9	4.5		1500						Clear-Globe
			25546	**25G25/W CPK**	120	24	C-9	4.5		1500						White-Globe
40 WATTS																
B8	Cand	40	**81561**	**40BC/CF/CD2-Tray**	120	30	C-7A	3.19		1500					5E, 9D	Clear-Blunt Tip, Ceiling Fan, Vibration Resistant, BDTH
B10	Cand	40	**15788**	**40BC 25PK**	120	200	CC-2V	3.75		1500						Clear-Blunt Tip
			19110	**40BC CD2 6PK**	120	30	CC-2V	3.75		1500						Clear-Blunt Tip
			19981	**40BC CARD4**	120	30	CC-2V	3.75		1500						Clear-Blunt Tip
			27292	**40BFC CD2 6PK**	120	30	CC-2V	3.75		1500						Faceted-Blunt Tip
			48701	**40BC/RVL CD2**	120	30	CC-2V	3.75		1500						Reveal® Clear-Blunt Tip
			48702	**40BC/RVL CD4**	120	30	CC-2V	3.75		1500						Reveal® Clear-Blunt Tip
B13	Med	40	**12993**	**40BM CD2**	120	60	C-9	4.62		1500						Clear-Blunt Tip
			27310	**40BM/CD4**	120	6	C-9	4.62		1500						Clear-Blunt Tip
			40891	**40BFM PQ2/6**	120	30	C-9	4.62		1500						Faceted-Blunt Tip
			48699	**40BM/RVL CD2**	120	30	C-9	4.625		1500						Reveal® Clear-Blunt Tip
CA9	Med	40	**48391**	**40CAM/F CD2 6PK**	120	30	CC-2V	4.56		1500						Frost-Bent Tip
			16049	**40CAM CARD4**	120	30	CC-2V	4.56		1500						Clear-Bent Tip
			22813	**40CAM/LL/BB CD2**	120	30	CC-2V	4.56		3000						Clear-Bent Tip, LL, Post Light
CA10	Cand	40	**15778**	**40CAC 25PK**	120	200	CC-2V	4.12		1500						Clear-Bent Tip
			16047	**40CAC CARD4**	120	30	CC-2V	4.12		1500						Clear-Bent Tip
			16048	**40CAC/F CARD4**	120	30	CC-2V	4.12		1500						Frost-Bent Tip
			19107	**40CAC CD2 6PK**	120	30	CC-2V	4.12		1500						Clear-Bent Tip
			22812	**40CAC/LL/BB CD2**	120	30	CC-2V	4.12		3000						Clear-Bent Tip, LL, Post Light
			40050	**40CAC/L**	120	120	CC-2V	4.12		3000						Clear-Bent Tip, LL
F15	Med	40	**18896**	**40FM CD2 6PK**	120	30	C-6	4.37		1500						Clear-Flame
			18897	**40FM/AU CD2 6PK**	120	30	C-6	4.37		1500						Auradescent-Flame
			18899	**40FM/W CD2 6PK**	120	30	C-6	4.37		1500						White-Flame
G16.5	Cand	40	**14958**	**40GC 12PK**	120	120	CC-2V	3		1500					5E, 9D	Clear-Globe, BDTH
			17730	**40GC CD/2**	120	60	CC-2V	3		1500					5E, 9D	Clear-Globe, BDTH
			23511	**40GC/AU CD/2**	120	60	CC-2V	3		1500					5E, 9D	Auradescent - Globe, BDTH
			27303	**40GC CD4**	120	30	CC-2V	3		1500					5E, 9D	Clear-Globe, BDTH
			27304	**40GC/W CD4**	120	30	CC-2V	3		1500					5E, 9D	White-Globe, BDTH
			48704	**40GC/RVL CD2**	120	30	CC-2V	3		1500					5E, 9D	Reveal® Clear-Globe, BDTH
			48705	**40GC/W/RVL CD2**	120	30	CC-2V	3		1500					5E, 9D	Reveal® White-Globe, BDTH
G16.5	Med	40	**31109**	**40GM/CL-PQ2/6**	120	30	CC-2V	3		1500					5E, 9D	Clear-Globe, Medium Base, BDTH
			31110	**40GM/W-PQ2/6**	120	30	CC-2V	3		1500					5E, 9D	White-Globe, Medium Base, BDTH
			31113	**40GM/AU-PQ2/6**	120	30	CC-2V	3		1500					5E, 9D	Auradescent-Globe, Medium Base, BDTH

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Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
DECORATIVE (CONTINUED)																
40 WATTS (CONTINUED)																
G25	Med	40	**12979**	**40G25/W 6PK**	120	6	C-9	4.5		1500						White-Globe
			12980	**40G25 6PK**	120	6	C-9	4.5		1500						Clear-Globe
			20419	**40G25/L/24**	120	24	C-9	4.5		3000						Clear-Globe, LL
			20420	**40G25/W/L/24**	120	24	C-9	4.5		3000						White-Globe, LL
			25547	**40G25/W CPK**	120	24	C-9	4.5		1500						White-Globe
			25548	**40G25 CPK**	120	24	C-9	4.5		1500						Clear-Globe
			46675	**40DG25/F PQ1/6**	120	30	C-9	4.5		1500						Designer-Frosted Swirl Top
			48694	**40G25C/RVL PQ1/6**	120	6	C-9	4.5		1500						Reveal®
			48695	**40G25W/RVL PQ1/6**	120	6	C-9	4.5		1500						Reveal®
G30	Med	40	**27499**	**40G30/W**	120	24	CC-6	5		2500						White-Globe
G40	Med	40	**36191**	**40G40/W 6PK**	120	6	CC-6	6.93		2500						White-Globe
			37914	**40G40/CL**	120	24	CC-6	6.93		2500						Clear-Globe
T10	Med	40	**48707**	**40T10/RVL CD1**	120	25	C-8	5.625		1000						Reveal® Clear-Showcase
			48709	**40T10/F/RVL CD1**	120	25	C-8	5.625		1000						Reveal® Frost-Showcase
M14	Med	40	**46680**	**40M14/F/CF PQ2/6**	120	30	C-9	3.25		1500						Frost-Swirl Top
60 WATTS																
B10	Cand	60	**27298**	**60BC/CD4**	120	30	CC-2V	3.75		1500						Clear-Blunt Tip
			48714	**60BC/RVL CD2**	120	30	CC-2V	3.75		1500						Reveal® Clear-Blunt Tip
			48715	**60BC/RVL CD4**	120	30	CC-2V	3.75		1500						Reveal® Clear-Blunt Tip
B13	Med	60	**22757**	**60BM CD/2**	120	60										Clear-Blunt Tip
			27497	**60BM/CD4**	120	6	C-9	4.62		1500						Clear-Blunt Tip
			48713	**60BM/RVL CD2**	120	30	C-9	4.625		1500					2C, 9I	Reveal® Clear-Blunt Tip
CA9	Med	60	**21009**	**60CAM CARD4**	120	30	CC-2V	4.56		1500						Clear-Bent Tip, BDTH
			48401	**60CAM CD2 6PK**	120	30	CC-2V	4.56		1500						Clear-Bent Tip
CA10	Cand	60	**15781**	**60CAC 25PK**	120	200	CC-2V	4.12		1500						Clear-Bent Tip
			16050	**60CAC CARD4**	120	30	CC-2V	4.12		1500						Clear-Bent Tip
			16051	**60CAC/F CARD4**	120	30	CC-2V	4.12		1500						Frost-Bent Tip
			19153	**60CAC CD/2 6PK**	120	30	CC-2V	4.12		1500						Clear-Bent Tip
			48404	**60CAC/F CD2 6PK**	120	30	CC-2V	4.12		1500						Frost-Bent Tip
G16.5	Cand	60	**23091**	**60GC CD/2**	120	60	CC-2V	3		1500					5E, 9D	Clear-Globe, BDTH
			40388	**60GC CD4**	120	30	CC-2V	3		1500					5E, 9D	Clear-Globe, BDTH
			40389	**60GC/W CD4**	120	30	CC-2V	3		1500					5E, 9D	White-Globe, BDTH
G16.5	Med	60	**31114**	**60GM/CL-PQ2/6**	120	30	CC-2V	3		1500					5E, 9D	Clear-Globe, Medium Base, BDTH
			31115	**60GM/W-PQ2/6**	120	30	CC-2V	3		1500					5E, 9D	White-Globe, Medium Base, BDTH
G25	Med	60	**14846**	**60G25 6PK**	120	6	C-9	4.5		1500						Clear-Globe
			14848	**60G25/W 6PK**	120	6	C-9	4.5		1500						White-Globe
			20427	**60G25/24**	120	24	C-9	4.5		1500						Clear-Globe
			20428	**60G25/W/24**	120	24	C-9	4.5		1500						White-Globe
G30	Med	60	**14850**	**60G30/W 6PK**	120	24	CC-9	5		2500						White-Globe. Retail Pack
G40	Med	60	**14187**	**60G40 6PK**	120	6	CC-6	6.93		2500						Clear-Globe
			16741	**60G40/W CPK**	120	24	CC-6	6.93		2500						White-Globe
			49780	**60G40/W 6PK**	120	6	CC-6	6.93		2500						White-Globe
T10	Med	60	**48710**	**60T10/RVL CD1**	120	25	C-8	5.625		1000						Reveal® Clear-Showcase
75 WATTS																
E17	Med	75	**28917**	**75E17/TF-PQ1/4**	120	20	CC-6	5		4000						Post Light , Teflon® Coated, Saf-T-Gard® BB
G40	Med	75	**36193**	**75G40/W 6PK**	120	6	CC-6	6.93		2500						White-Globe

Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Beam Spread	Footnotes	Additional Information
DECORATIVE (CONTINUED)																
100 WATTS																
F20	Med	100	**44540**	**100F20/TF-PQ1/6**	120	30	CC-9	5		3000						Post Light , Teflon® Coated, Saf-T-Gard® BB
G40	Med	100	**16742**	**100G40/W CPK**	120	24	CC-6	6.93		2500						White-Globe
			49781	**100G40/W 6PK**	120	6	CC-6	6.93		2500						White-Globe
150 WATTS																
G40	Med	150	**16585**	**150G40/W**	120	24	CC-6	6.93		2500						White-Globe
PORTABLE LIGHTING PRODUCTS																
R30	Med	75	**44848**	**PLK-1**	120	4	CC-6								2A, 5E, 9K	Plant Light Kit includes one 75R30/PL Plant Light lamp, UL listed holder and information booklet.

GENERAL INFORMATION

1

⚠ WARNING

Risk of electric shock

a. Turn off power before inspection, installation or removal

2

⚠ WARNING

Risk of fire

a. Keep combustible materials away from lamp
b. Use in fixture rated for this product
c. Use in fixture rated for this product – see instructions
d. Operate base down to horizontal only
e. Keep away from bed coverings, drapes and other combustible materials
f. Do not use in enclosed fixture or with lamp shade
g. Use in a high intensity fixture rated for this product
h. Do not use as a night light
i. Burning position base down only

3

⚠ WARNING

Lamp emits IR radiation which may cause eye injury

a. Use in fixture approved for this product
b. Do not use on infant, disabled, sleeping, or unconscious person/animal unable to avoid potential injury

4

⚠ WARNING

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

a. Use eye protection when handling lamp
b. Avoid direct water/liquid contact
c. Use in enclosed fixture rated for this product
d. Operate lamp only in specified position

5

⚠ WARNING

Unexpected lamp rupture may cause injury, fire, or property damage

a. Do not exceed rated voltage
b. Avoid direct water/liquid contact
c. Use in enclosed fixture rated for this product
d. Do not use lamp if outer glass is scratched or broken
e. Avoid direct water, liquid, or metal contact

6

⚠ WARNING

Risk of burn

a. Do not touch operating lamp

7

⚠ CAUTION

Risk of burn

a. Allow lamp to cool before handling
b. Allow lamp/fixture to cool before handling
c. Do not touch operating lamp

8

⚠ CAUTION

Lamp may shatter and cause injury if broken

a. Do not use excessive force when installing lamp

9

OPERATING INSTRUCTIONS

a. Burning position – base up
b. Burning position – horizontal
c. Burn base down only
d. Burn base down to horizontal
e. For best performance burn lamp within 45 degrees of vertical base up
f. For best performance burn within 45 degree of base down to horizontal
g. For best performance operate base up within 30° of vertical
h. For best performance burn base down
i. Do not burn in base up position
j. To produce all three levels of light, this lamp should be tightened firmly, but not forcibly, in the socket to assure that all contacts are connected
k. Should not be used in equipment where the base lamp will exceed 550°F (260°C)
l. Will operate in any burning position, but fixed-socket usage other than base up, or continuous burning in any position in ambient temperatures above 150°F (66°C), may result in some loss of protective coating
m. Reflectors and accessories may raise bulb temperature
n. For use with heat-resistant connector supported by bulb rim or metal shell of base
o. For best performance replace lamp if it blisters or darkens

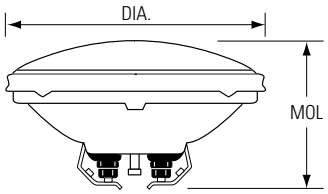
INCANDESCENT LAMPS CROSS REFERENCE

GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
INCANDESCENT LAMPS		
3S6/5 24PK 130V	3S6/5 130V	3S6/5 120-130V
4C7 CARD 2	4C7/BL/2PK	BC-4C7
4C7/W CD2	4C7/W/2PK 120V	BC4C7/W
10S11N	10S11N/CL	10S11N
10S11N/F	10S11/IF	10S11N/IF
15S14/GR/CL 130V	15S14/CL 130V	—
15CAC/F-CD/2	—	—
25BC (120)	25B10C/T/BL/2PK	25B101/2 (120)
25CAC (120)	25B10C/BL/2PK	25BA9C (120)
25CAC/F (120)	25B10C/W/BL/2PK	25BA9C/F (120)
25CAC/L (120)	25B10C/DL/BL	25BA9C/4M
25FM CD2 (120)	25F (120-125)	25F15 (120)
25GC (120)	—	25G161/2C (120)
40A15	40A15 120V	40A15-SPB-130
40A 130V	40A-130V	40A-130V
40A/CL 130V	40R/CL-130V	40A/CL-120-130
40R14/N/CD	40R14N/RP	40R14/N
40S11N/1/F	40S11N/CF 120V	40S11N/IF 120V
40T61/2/2	40T6.5/CL/BL/6PK	40T6-1/2/2 120V
40T8	40T8 120-130V	40T8 115-125V
40T10	40T10-120V	40T10-120-130V
40A/34/WMP/99 (120, 130)	40A/99/XL (120,130)	40A/99 (120,130)
40BC (120)	40C91/2C/BL (120-125)	40B101/2 (120)
40BC/W (120)	40C91/2C/W/BL (120-125)	40B101/2/W (120)
40CAC (120)	40B10C/BL (120-125)	40BA9C (120)
40CAC/F (120)	—	40BA9C/F (120)
40CAM (120)	40C11/BL (120)	40BA91/2 (120)
40CAM/F (120)	—	40BA91/2/(120)
40FM (120)	40F (120-125)	40F15 (120)
40S11N/1/F	40S11N/CF	40S11N/IF (120)
50A21 (12, 30, 34)	50A21	50A (12,34)
50A/RS 24 PK	50A/RS-120V	—
50A/RS/CVG	50A/RS/SL	50A/RS/TF (120)
50/150	50/150A/W	50/150T/SW (120)
60A 48 PK	60A/CVP-130V	60A19/35-130V
60A/CVG (120)	60A/SL (120)	60A/TF (120)
60BC (120)	60B10C/ST/BL (120-125)	60B101/2 (120)
60CAC (120)	60B10C/BL (120-125)	60BA9C (120)

GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
INCANDESCENT LAMPS (CONTINUED)		
60CAC/F (120)	—	60BA9C/F (120)
60CAM (120)	—	60BA91/2 (120)
60A/PL	60A/GRO	60A/AGRO (120)
60T10F/CD (120)	60T10/CF (120)	60T10/64IF (120)
65R30/FL/LL	—	65BR30/FL/LL551
65R30/SP/LL	—	65BR30/SP/LL20/1
75A 48PK	75A/RP 120V	75A-120V
75 A/S (120, 130)	75A/99/XL (120,130)	75A/99 (120,130)
65R30/PL-1 6PK	65BR30/GRO/RP 120V	—
75A/CL 24PK	75A/CL/RP 120V	75A/CL-130V
75A/RS 12PK	75A/RS/RP 120V	75A/RS/VS 120V
75ER30	75ER30 120V	75ER30 120V
65R30/FL/B	65BR30/BV/RP 120V	75BR30/B 120V
65R30/FL/G	65BR30/G/RP 120V	75BR30/G 120V
65R30/FL/Y	65BR30/Y/RP 120V	75BR30/Y 120V
65R30/FL/PK	65BR30/PK/RP 120V	75BR30/PK 120V
100A 130V	100A/CVP 130V	100A 130V
100A/S 130V	100A/RS/XL	100A/RS/VS 125-130V
100A/CL 24 PK	100A/CL-120V	100A/CL 120V
100A/90WM	100/90/W/ES/4PK	100-90/EW/48PK
100A/RS	100A/RS/RP 130V	100A/RS/VS 125-130V
100A23/VS 24PK	—	—
100A23	—	100A (12)
100A21/99 (120, 130)	100A/99/XL (120,130)	100A/99 (120,130)
100A21/SBIF (120)	—	100A/SBIF (120)
100A/RS (120,130)	100A/RS	100A/RS/VS (120,130)
100A23/VS (120,130) (120,130)	100A/VS (120,125,130)	100A/RS/VS(2)
100A/RS/CVG (120)	100A21/RS/SL	100A/RS/TF (120)
150A21/99/IF (120,130)	—	150A21/RS/VS/BR 120-130V LAMP
200A21/99CL (120-130)	—	200A/99CL (130)
200PS30/CVG (120)	200PS30/SL	200/TF (120)
200PS30/RS/CVG (120)	200PS30/23/SL	200PS30/RS/TF (120)
250R40/10	250R40/10	250R40/HR (120)
300M 120V	300M/CL 120V	300M 120V
300M (120, 130V)	300M/CL 130V	300-120V CLR PS30
300M/IF 130V	300M/IF 130V	300M/PS30IF 130V
300M/99 (120, 130V)	300M/CL/99/XL 130V	300M/99 130V

NOTES

BULB IDENTIFICATION



DIA. in.: Diameter of bulb at widest point.

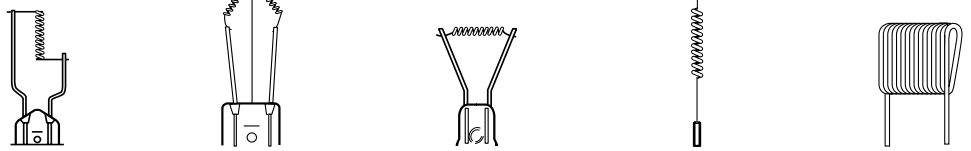
MOL in.: Maximum Overall Length including base or pins.

LCL in.: Distance between the center of the filament and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

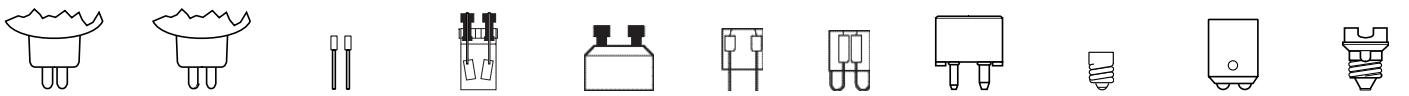
FILAMENT IDENTIFICATION



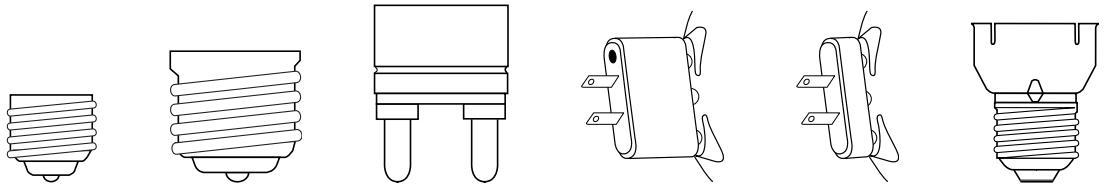
C-8 CC-8 ***C-2V CC-2V*** ***C-6 CC-6*** ***C-8 CC-8*** ***C-6 Oval***

BASE IDENTIFICATION

2-Pin (Round) GX5.3 ***Can DC Bay*** ***2-Pin GY6.35*** ***Recessed Single Contact R7s*** ***Screw Terminals*** ***4" Leads*** ***1" Ribbon Leads*** ***6" Flex Leads***



2-Pin GU4 ***2-Pin GU5.3*** ***2-Pin G4*** ***Turn & Lock GU7*** ***GU10*** ***G8*** ***G9*** ***2-Pin Pf*** ***Min Screw E10*** ***DC Bay BA15d*** ***Min Cand E11***



Med Screw E26 ***Mog Screw E39*** ***Mogul BiPost G38*** ***Ext. Mog End Pr GX16d*** ***Mog End PR GX16d*** ***Med Skirted E26/50x39***

INTRODUCTION

Halogen lamps provide a small, white light source with excellent color rendering. Unlike standard incandescent lamps, halogen lamps use a halogen gas which allows the bulbs to burn longer without sacrificing light output.

Compared to incandescent lamps, halogen lamps provide:

- Crisp, white light
- Compact size
- Long life
- Excellent beam control
- High lumen maintenance

PRODUCT INFORMATION

PAR38* VS. STANDARD HALOGEN

Retail HIR™ (PAR38) *(pg 2-5)*
- Up to 42% more efficient
- Up to 27% energy savings
- Up to 60% longer life – 4000 hours

HIR XL® UltraLong Life (PAR38) *(pg 2-5)*
- Up to 13% energy savings
- Ultra long life – 6000 hours

HIR™ (PAR38) *(pgs 2-5 to 2-6)*
- Up to 28% more efficient
- Up to 22% energy savings
- Up to 20% longer life – 3000 hours

Silver Saver™ (PAR38) *(pg 2-6)*
- Up to 14% more efficient
- Up to 12% energy savings
- Up to 20% longer life – 3000 hours

Halogen Plus (PAR38) *(pgs 2-6 to 2-7)*
- Longer life than standard halogen – 2500 hours
- Wide variety of wattages and beam spreads

Standard Halogen (PAR38) *(pg 2-7)*
- Crisp, white light
- Life – 2000 hours

Quartzline® (PAR38) *(pg 2-7)*
- High light output for long throws (250 watt)
- Long life – 4200 hours

COMPACT PAR

Compact HIR™ (PAR30) *(pg 2-7)*
- Most efficient PAR30
- Long life – 4000 hours

Long Neck PAR30 Halogen (PAR30L) *(pgs 2-7 to 2-8)*
- Energy efficient replacement for R30 lamps
- Ideal for recessed fixtures

Compact PAR Halogen (PAR20/PAR30) *(pg 2-8)*
- Small size for "low profile" fixture
- Energy efficient replacement for R20/R30 lamps
- Long life – 3000 hours

Diamond Precise® Electronic (MR16)◊ *(pg 2-9)*
- 58% energy savings vs 50PAR20/50R20
- 2X longer life than 50PAR20/50R20 – 5000 hours
- Precise beam control, 90% lumen maintenance
- 120V Edison base, fully dimmable

MR

Turn & Lock (TAL) ConstantColor® (MR16) *(pg 2-11)*
- User-friendly base... easy to install and remove
- Over 90% maintained light over life
- Virtually no color shift
- Suitable for use in open fixtures

ConstantColor® Precise™ Cover Glass (MR16) *(pgs 2-11 to 2-12)*
- Cover glass lens protects bulb from dust and dirt
- Suitable for use in open fixtures

ConstantColor® Precise™ (MR16) *(pg 2-12)*
- Precise beam control
- No color shift
- Over 90% maintained light output over life
- Long life – up to 6000 hours (50-watt)

Precise™ Cover Glass IR (MR16) *(pg 2-13)*
- Energy saving MR16
- 4000 hour lamp life

Standard MR (MR16/MR11) *(pgs 2-13 to 2-14)*
- Small size for "low profile" look
- Crisp, white light

LINEAR QUARTZ

Linear Quartzline® HIR™ *(pgs 2-14 to 2-15)*
- 30%-40% energy cost savings vs. standard quartz lamps
- 95% maintained light output over life
- Cooler operation increases fixture life

* All comparisons made against standard and Halogen Plus at same/similar lumen output.

◊ Although face lumens are 53% less, the multi-faceted reflector concentrates lumens on target, diminishing extraneous light.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.

MOL in.:
Maximum Overall Length in inches.

LCL in.:
Distance between the center of the filament and the Light Center Length reference plane, in inches.

Filament Design:
Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.

Life - Hours:
Life (as defined by FTC Lamp Label Rules) is rated life in hours.

Light Output - Lumens:
Light output (as defined by FTC Lamp Label Rules) is rated lumens.

Energy Used - Nominal Watts:
Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Case Quantity:
Number of product units packed in a case.

Reference Color Temperature Kelvins (K):
"Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light.

Volts:
Lamp data is based on operation at rated voltage.

Approximate CBCP (Center Beam Candlepower):
For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Bulb Shape:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Additional Information
Typical application and/or other important information.

Base:
The type of base.

Lamp Description:
The lamp's identification code.

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
HALOGEN PAR38 LAMPS															
HIR™															
PAR38	Med Skirt	50	**12396**	**50PAR/HIR/SP9**	120	12 CC-8	5.31			3000	800	2810	16000	1a, 2a, 4f, 9a, 10c	Spotlight

50 PAR / HIR / SP 9

- 50 — *Identifies the lamp's wattage.*
- PAR — *Identifies the lamp shape and the bulb diameter in eighths of inches.*
- HIR — *Identifies the lamp type.*
- SP — *Identifies as Spotlight.*
- 9 — *Identifies beam angle, code may also include packaging information.*

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.

HALOGEN BRAND NAME CROSS-REFERENCE

GE	OSRAM/SYLVANIA	PHILIPS
Retail HIR™	—	—
HIR/XL™ PAR	—	—
HIR™ PAR	Capsylite® PAR IR™	Masterline™ IRC
Silver Saver™	—	—
Edison™	—	—
Halogen Plus PAR	Capsylite® PAR	Masterline™ 2500
Standard Halogen PAR	—	Masterline™ 2000
Compact PAR	Capsylite® PAR	Masterline™ PAR
Diamond Precise®	—	—
Turn & Lock (TAL) ConstantColor®	—	—
ConstantColor® Precise™	Tru-Aim Titan®	Continuum Color®
Precise™ IR	Tru-Aim® IR™	Masterline™ ES IRC
Standard MR16	Tru-Aim®	Continuum®
Halogen A-Line	Capsylite® A-Line (Midbreak)	Halogena®

ATTENTION: This brand-name cross reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or other auxiliary equipment.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. Reduced Wattage. High Color Rendering.

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
HALOGEN PAR38 LAMPS															
RETAIL HIR™ & SILV-IR															
PAR38	Med Skirt	45	**16344**	**45PAR/HIR/R/SP10**	120	12		5.31		4000	800	2750	14000	1a, 2a, 4f, 9a, 10c	Spotlight
			16345	**45PAR/HIR/R/FL25**	120	12		5.31		4000	800	2750	3400	1a, 2a, 4f, 9a, 10c	Floodlight
		50	**46168**	**50PAR/HIR/S/SP10**	120	12		5.31		4000	800	2750	14000	1a, 2a, 4f, 9a, 10c	Spotlight - Heavy Duty Filament
			46167	**50PAR/HIR/S/FL25**	120	12		5.31		4000	800	2750	3400	1a, 2a, 4f, 9a, 10c	Floodlight - Heavy Duty Filament
		55	**16346**	**55PAR/HIR/R/SP10**	120	12		5.31		4000	1050	2800	17000	1a, 2a, 4f, 9a, 10c	Spotlight
			16347	**55PAR/HIR/R/FL25**	120	12		5.31		4000	1050	2800	4000	1a, 2a, 4f, 9a, 10c	Floodlight
		60	**46165**	**60PAR/HIR/S/SP10**	120	12		5.31		4000	1050	2800	17000	1a, 2a, 4f, 9a, 10c	Spotlight - Heavy Duty Filament
			46166	**60PAR/HIR/S/FL30**	120	12		5.31		4000	1050	2800	2800	1a, 2a, 4f, 9a, 10c	Floodlight - Heavy Duty Filament
		90	**16348**	**90PAR/HIR/R/SP10**	120	12		5.31		4000	2030	2850	30000	1a, 2a, 4f, 9a, 10c	Spotlight
			16349	**90PAR/HIR/R/FL25**	120	12		5.31		4000	2030	2850	7000	1a, 2a, 4f, 9a, 10c	Floodlight
HIR XL® (ULTRALONG LIFE) PAR38															
PAR38	Med Skirt	45	**40793**	**45PAR/HIR/SP12XL**	120	6	CC-8	5.31		6000	600	2680	7000	1a, 2a, 4f, 9a, 10c	Spotlight
			40790	**45PAR/HIR/FL40XL**	120	6	CC-8	5.31		6000	600	2680	1300	1a, 2a, 4f, 9a, 10c	Floodlight
		55	**40794**	**55PAR/HIR/SP12XL**	120	6	CC-8	5.31		6000	800	2680	9000	1a, 2a, 4f, 9a, 10c	Spotlight
			40792	**55PAR/HIR/FL40XL**	120	6	CC-8	5.31		6000	800	2680	2000	1a, 2a, 4f, 9a, 10c	Floodlight
		90	**40795**	**90PAR/HIR/SP12XL**	120	6	CC-8	5.31		6000	1470	2800	17000	1a, 2a, 4f, 9a, 10c	Spotlight
			40791	**90PAR/HIR/FL40XL**	120	6	CC-8	5.31		6000	1470	2800	2800	1a, 2a, 4f, 9a, 10c	Floodlight
HIR™															
PAR38	Med Skirt	50	**40937**	**50PAR/HIR/SP6**	120	12	CC-8	5.31		3000	800	2810	20000	1a, 2a, 4f, 9a, 10c	Spotlight
			12396	**50PAR/HIR/SP9**	120	12	CC-8	5.31		3000	800	2810	16000	1a, 2a, 4f, 9a, 10c	Spotlight
			**12397**	**50PAR/HIR/FL25**	120	12	CC-8	5.31		3000	800	2810	3400	1a, 2a, 4f, 9a, 10c	Floodlight
		50 46	**22850**	**50PAR/HIR/FL25**	130 120	12	CC-8	5.31		3000 6000	800 600	2810	3400	1a, 2a, 4f, 9a, 10c	Floodlight
		60	**11881**	**60PAR/HIR/SP10**	120	6	CC-8	5.31		3000	1050	2850	17000	1a, 2a, 4f, 9a, 10c	Spotlight
			18627	**60PAR/HIR/SP10**	120	12	CC-8	5.31		3000	1050	2850	17000	1a, 2a, 4f, 9a, 10c	Spotlight
		60 54	**18629**	**60PAR/HIR/SP10**	130 120	12	CC-8	5.31		3000 6000	1050 800	2850	17000	1a, 2a, 4f, 9a, 10c	Spotlight
		60	**11878**	**60PAR/HIR/FL30**	120	6	CC-8	5.31		3000	1050	2850	2800	1a, 2a, 4f, 9a, 10c	Floodlight
			18626	**60PAR/HIR/FL30**	120	12	CC-8	5.31		3000	1050	2850	2800	1a, 2a, 4f, 9a, 10c	Floodlight
		60 54	**18628**	**60PAR/HIR/FL30**	130 120	12	CC-8	5.31		3000 6000	1050 800	2850	2800	1a, 2a, 4f, 9a, 10c	Floodlight
		60	**10467**	**60PAR/HIR/FL40**	120	12	CC-8	5.31		3000	1050	2850	1700	1a, 2a, 4f, 9a, 10c	Floodlight
			20947	**60PAR/HIR/WFL**	120	12	CC-8	5.31		3000	1050	2850		1a, 2a, 4f, 9a, 10c	Wide Floodlight
		60 54	**20948**	**60PAR/HIR/WFL**	130 120	12	CC-8	5.31		3000 6000	1050 800	2850		1a, 2a, 4f, 9a, 10c	Wide Floodlight
		70	**46367**	**70PAR/HIR/SP10**	120	12	CC-8	5.31		3000	1260	2900	19000	1a, 2a, 4f, 9a, 10c	Spotlight
		70 64	**46369**	**70PAR/HIR/SP10**	130 120	12	CC-8	5.31		3000 6000	1260 950	2900	19000	1a, 2a, 4f, 9a, 10c	Spotlight
		70	**46368**	**70PAR/HIR/FL25**	120	12	CC-8	5.31		3000	1260	2900	4700	1a, 2a, 4f, 9a, 10c	Floodlight
		70 64	**46370**	**70PAR/HIR/FL25**	130 120	12	CC-8	5.31		3000 6000	1260 950	2900	4700	1a, 2a, 4f, 9a, 10c	Floodlight
		70	**16239**	**70PAR/HIR/FL/CON**	120	6	CC-8	5.31		3000	1260	2900	4700	1a, 2a, 4f, 9a, 10c	Floodlight
		80	**27216**	**80PAR/HIR/SP10**	120	12	CC-8	5.31		3000	1500	2900	22000	1a, 2a, 4f, 9a, 10c	Spotlight
			27217	**80PAR/HIR/SP12**	120	12	CC-8	5.31		3000	1500	2900	17500	1a, 2a, 4f, 9a, 10c	Spotlight
			27218	**80PAR/HIR/FL25**	120	12	CC-8	5.31		3000	1500	2900	5000	1a, 2a, 4f, 9a, 10c	Floodlight

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
HALOGEN PAR38 LAMPS (CONTINUED)															
HIR™ (CONTINUED)															
PAR38	Med Skirt	100	**18635**	**100PAR/HIR/SP10**	120	12 CC-8		5.31		3000	2030	2900	30000	1a, 2a, 4f, 9a, 10c	Spotlight
			11885	**100PAR/HIR/SP10**	120	6 CC-8		5.31		3000	2030	2900	30000	1a, 2a, 4f, 9a, 10c	Spotlight
		100	**18636**	**100PAR/HIR/SP10**	130	12 CC-8		5.31		3000	2030	2900	30000	1a, 2a, 4f, 9a, 10c	Spotlight
		88			120					6000	1470				
		100	**11883**	**100PAR/HIR/FL25**	120	6 CC-8		5.31		3000	2030	2900	7000	1a, 2a, 4f, 9a, 10c	Floodlight
			18631	**100PAR/HIR/FL25**	120	12 CC-8		5.31		3000	2030	2900	7000	1a, 2a, 4f, 9a, 10c	Floodlight
		100	**18633**	**100PAR/HIR/FL25**	130	12 CC-8		5.31		3000	2030	2900	7000	1a, 2a, 4f, 9a, 10c	Floodlight
		88			120					6000	1470				
		100	**10473**	**100PAR/HIR/FL40**	120	12 CC-8		5.31		3000	2030	2900	3400	1a, 2a, 4f, 9a, 10c	Floodlight
SILVER SAVER™															
PAR38	Med Skirt	53	**16338**	**53PAR/H/SS/SP10**	120	12 CC-8		5.31		3000	800	2800	14000	1a, 2a, 4f, 9a, 10c	Spotlight
			16339	**53PAR/H/SS/FL25**	120	12 CC-8		5.31		3000	800	2800	2900	1a, 2a, 4f, 9a, 10c	Floodlight
		53	**27989**	**53/PAR/HSS/SP10**	130	12 CC-8		5.31		3000	800	2800	14000	1a, 2a, 4f, 9a, 10c	Spotlight
		47			120					6000	608				
		53	**27991**	**53/PAR/HSS/FL25**	130	12 CC-8		5.31		3000	800	2800	2900	1a, 2a, 4f, 9a, 10c	Floodlight
		47			120					6000	608				
		66	**16340**	**66PAR/H/SS/SP10**	120	12 CC-8		5.31		3000	1050	2850	18000	1a, 2a, 4f, 9a, 10c	Spotlight
			16341	**66PAR/H/SS/FL25**	120	12 CC-8		5.31		3000	1050	2850	4000	1a, 2a, 4f, 9a, 10c	Floodlight
		66	**28263**	**66/PAR/HSS/SP10**	130	12 CC-8		5.31		3000	1050	2850	18000	1a, 2a, 4f, 9a, 10c	Spotlight
		58			120					6000	800				
		66	**28265**	**66PAR/HSS/FL25**	130	12 CC-8		5.31		3000	1050	2850	4000	1a, 2a, 4f, 9a, 10c	Floodlight
		58			120					6000	800				
		79	**16342**	**79PAR/H/SS/SP10**	120	12 CC-8		5.31		3000	1310	2850	20000	1a, 2a, 4f, 9a, 10c	Spotlight
			16343	**79PAR/H/SS/FL25**	120	12 CC-8		5.31		3000	1310	2850	4700	1a, 2a, 4f, 9a, 10c	Floodlight
		79	**28267**	**79PAR/HHS/SP10**	130	12 CC-8		5.31		3000	1310	2850	20000	1a, 2a, 4f, 9a, 10c	Spotlight
		70			120					6000	1000				
		79	**28268**	**79PAR/HSS/FL25**	130	12 CC-8		5.31		3000	1310	2850	4700	1a, 2a, 4f, 9a, 10c	Floodlight
		70			120					6000	1000				
LONG LIFE PAR38															
PAR38	Med Skirt	45	**16354**	**45PAR/SP10 XL-EG**	120	6 CC-8		5.31		6000	520	2700	8000	1a, 2a, 4f, 9a, 10c	Spotlight
			16355	**45PAR/FL25 XL-EG**	120	6 CC-8		5.31		6000	520	2700	2000	1a, 2a, 4f, 9a, 10c	Floodlight
		90	**16357**	**90PAR/SP10 XL-EG**	120	6 CC-8		5.31		6000	1310	2800	20000	1a, 2a, 4f, 9a, 10c	Spotlight
			16358	**90PAR/FL25 XL-EG**	120	6 CC-8		5.31		6000	1310	2800	4700	1a, 2a, 4f, 9a, 10c	Floodlight
		45	**20757**	**45PAR/SP10XL-OD**	120	6 CC-8		5.31		6000	520	2700	8000	1a, 2a, 4f, 9a, 10c	Spotlight
			20758	**45PAR/FL25XL-OD**	120	6 CC-8		5.31		6000	520	2700	2000	1a, 2a, 4f, 9a, 10c	Floodlight
		90	**20759**	**90PAR/SP10XL-OD**	120	6 CC-8		5.31		6000	1310	2800	20000	1a, 2a, 4f, 9a, 10c	Spotlight
			20763	**90PAR/FL25XL-OD**	120	6 CC-8		5.31		6000	1310	2800	4700	1a, 2a, 4f, 9a, 10c	Floodlight
HALOGEN PLUS															
PAR38	Med Skirt	45	**17470**	**45PAR/H/SP10**	120	6 CC-8		5.31		2500	540	2750	8000	1a, 2a, 4f, 9a, 10c	Spotlight
		45	**16229**	**45PAR/H/SP10**	130	12 CC-8		5.31		2500	540	2750	8000	1a, 2a, 4f, 9a, 10c	Spotlight
		40			120					5000	410				
		45	**17471**	**45PAR/H/FL25 6PK**	120	6 CC-8		5.31		2500	540	2750	2000	1a, 2a, 4f, 9a, 10c	Floodlight
		45	**16231**	**45PAR/H/FL25**	130	12 CC-8		5.31		2500	540	2750	2000	1a, 2a, 4f, 9a, 10c	Floodlight
		40			120					5000	410				
		60	**25266**	**60PAR/H/SP10**	120	12 CC-8		5.31		3000	800	2800	13000	1a, 2a, 4f, 9a, 10c	Spotlight
		60	**25270**	**60PAR/H/SP10**	130	12 CC-8		5.31		3000	800	2800	13000	1a, 2a, 4f, 9a, 10c	Spotlight
		54			120					6000	608				
		60	**25269**	**60PAR/H/FL25**	120	12 CC-8		5.31		3000	800	2800	3200	1a, 2a, 4f, 9a, 10c	Floodlight
		60	**25271**	**60PAR/H/FL25**	130	12 CC-8		5.31		3000	800	2800	3200	1a, 2a, 4f, 9a, 10c	Floodlight
		54			120					6000	608				

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. Reduced Wattage. High Color Rendering.

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
HALOGEN PAR38 LAMPS (CONTINUED)															
HALOGEN PLUS (CONTINUED)															
PAR38	Med Skirt	75	**14751**	**75PAR/H/SP9-6PK**	120	6	CC-8	5.31		2500	1050	2850	18000	1a, 2a, 4f, 9a, 10c	Spotlight
			14748	**75PAR/H/FL25-6PK**	120	6	CC-8	5.31		2500	1050	2850	4000	1a, 2a, 4f, 9a, 10c	Floodlight
			81864	**75PAR38HFL25/RVL**	120	6	CC-8	5.31		2500	950			1a, 2a, 4f, 9a, 10c	Reveal®, Floodlight
			26564	**75PAR/H/FL-TWIN**	120	3	CC-8	5.31		2500	1050	2850	4000	1a, 2a, 4f, 9a, 10c	Floodlight
		75	**21389**	**75PAR/H/FL25**	130	12	CC-8	5.31		2500	1050	2850	4000	1a, 2a, 4f, 9a, 10c	Floodlight
		66			120					5000	800				
		90	**17450**	**90PAR/H/SP10-6PK**	120	6	CC-8	5.31		2500	1310	2900	20000	1a, 2a, 4f, 9a, 10c	Spotlight
		90	**13311**	**90PAR/H/SP10**	130	12	CC-8	5.31		2500	1310	2900	20000	1a, 2a, 4f, 9a, 10c	Spotlight
		79			120					5000	1000				
		90	**17451**	**90PAR/H/FL25-6PK**	120	6	CC-8	5.31		2500	1310	2900	4700	1a, 2a, 4f, 9a, 10c	Floodlight
		90	**13308**	**90PAR/H/FL25**	130	12	CC-8	5.31		2500	1310	2900	4700	1a, 2a, 4f, 9a, 10c	Floodlight
		79			120					5000	1000				
		90	**22742**	**90PAR/H/FL-TWIN**	120	3	CC-8	5.31		2500	1310	2900	4700	1a, 2a, 4f, 9a, 10c	Floodlight
			25727	**90PAR/H/WFL-120V**	120	12	CC-8	5.31		2500	1310	2900		1a, 2a, 4f, 9a, 10c	Wide Floodlight
		120	**41632**	**120PAR/H/SP9**	120	6	CC-8	5.31		2500	1900	2950	18000	1a, 2a, 4f, 9a, 10c	Narrow Spot
		120	**41631**	**120PAR/H/FL30**	120	6	CC-8	5.31		2500	1900	2950	4000	1a, 2a, 4f, 9a, 10c	Floodlight
STANDARD HALOGEN															
PAR38	Med Skirt	50	**17980**	**50PAR/H/SP10-6PK**	120	6	CC-8	5.31		2000	600	2750	9500	1a, 2a, 4f, 9a, 10c	Spotlight
			17979	**50PAR/H/FL25-6PK**	120	6	CC-8	5.31		2000	600	2750	2200	1a, 2a, 4f, 9a, 10c	Floodlight
			25948	**50PAR/H/FL-TWIN**	120	3	CC-8	5.31		2000	600	2750	2200	1a, 2a, 4f, 9a, 10c	Floodlight
		50	**17926**	**50PAR/H/FL**	130	12	CC-8	5.31		2000	600	2750	2200	1a, 2a, 4f, 9a, 10c	Floodlight
		46			120					4000	450				
		100	**17992**	**100PAR/H/SP10**	120	6	CC-8	5.31		2000	1500	2900	22000	1a, 2a, 4f, 9a, 10c	Spotlight
			17986	**100PAR/H/FL25**	120	6	CC-8	5.31		2000	1500	2900	5000	1a, 2a, 4f, 9a, 10c	Floodlight
			25679	**100PAR/H/FL/TWIN**	120	3	CC-8	5.31		2000	1500	2900	5000	1a, 2a, 4f, 9a, 10c	Floodlight
		100	**17947**	**100PAR/H/FL25**	130	12	CC-8	5.31		2000	1500	2900	5000	1a, 2a, 4f, 9a, 10c	Floodlight
		88			120					4000	1150				
COOL BEAM PAR38															
PAR38	Med Skirt	90	**17691**	**90PAR/CB/H/FL25**	120	12	CC-8	5.31		2500	1260	2870	4100	1a, 2a, 2c, 4f, 9a, 10c	Cool Beam Flood
QUARTZLINE®															
PAR38	Med Skirt	250	**23719**	**Q250PAR/SP10**	120	12	CC-8	5.31		4200	3600	2880	40000	1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c	Spotlight
			23718	**Q250PAR/FL30**	120	12	CC-8	5.31		4200	3600	2880	9000	1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c	Floodlight
HALOGEN COMPACT PAR LAMPS															
COMPACT HIR™															
PAR30	Med	45	**41545**	**45PAR30HIR/SP9XL**	120	15	CC-8	3.62		6000	620	2680	9750	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
			41547	**45PAR30HIR/FL25XL**	120	15	CC-8	3.62		6000	620	2680	2025	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
			41550	**45PAR30HIR/FL35XL**	120	15	CC-8	3.62		6000	620	2680	1125	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50	**19902**	**50PAR30/HIR/SP9**	120	15	CC-8	3.62		4000	825	2810	15000	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
			19901	**50PAR30HIR/FL25**	120	15	CC-8	3.62		4000	825	2810	3200	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50	**21533**	**50PAR30HIR/FL25**	130	15	CC-8	3.62		3000	825	2810	3200	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		46			120					6000	620				
		50	**19900**	**50PAR30/HIR/FL35**	120	15	CC-8	3.62		4000	825	2810	1800	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50	**19903**	**50PAR30/HIR/FL35**	130	15	CC-8	3.62		3000	825	2810	1800	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		46			120					6000	620				
COMPACT PAR30 LONG NECK															
PAR30L	Med	50	**14940**	**50PAR30L/H/SP10**	130	6	CC-8	4.75		3000	580	2800	7500	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		46			120					6000	460				
		50	**11117**	**50PAR30L/H/SP10**	130	15	CC-8	4.75		3000	580	2800	7500	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		46			120					6000	460				

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
HALOGEN COMPACT PAR LAMPS (CONTINUED)															
COMPACT PAR30 LONG NECK (CONTINUED)															
PAR30L	Med	50	**11116**	**50PAR30L/H/FL40**	120	15	CC-8	4.75		3000	580	2800	1100	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50 46	**11123**	**50PAR30L/H/FL40**	130 120	15	CC-8	4.75		3000 6000	580 460	2800	1100	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50	**14941**	**50PAR30L/H/WFL**	120	6	CC-8	4.75		3000	630	2800		1a, 2a, 4f, 4h, 9a, 10c	Wide Floodlight
		75	**11124**	**75PAR30L/H/SP10**	120	15	CC-8	4.75		3000	940	2830	13000	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		75 66	**11129**	**75PAR30L/H/SP10**	130 120	15	CC-8	4.75		3000 6000	940 751	2830	13000	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		75	**14943**	**75PAR30L/H/FL25**	120	6	CC-8	4.75		3000	940	2830	3800	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		75 66	**11131**	**75PAR30L/H/FL25**	130 120	15	CC-8	4.75		3000 6000	940 751	2830	3800	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		75	**16393**	**75PAR30L/H/WFL**	120	6	CC-8	4.75		3000	1050	2830		1a, 2a, 4f, 4h, 9a, 10c	Wide Floodlight
			81862	**75PAR30LHFL25/RVL**	120	6	CC-8	4.75		3000	980			1a, 2a, 4f, 4h, 9a, 10c	Reveal®, Floodlight
COMPACT PAR30															
PAR30	Med	50	**14023**	**50PAR30/H/SP10**	120	6	CC-8	3.62		3000	630	2800	8200	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		50 46	**17870**	**50PAR30/H/SP10**	130 120	15	CC-8	3.62		3000 6000	630 500	2800	8200	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		50	**17871**	**50PAR30/H/FL25**	120	15	CC-8	3.62		3000	630	2800	2300	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50 46	**17872**	**50PAR30/H/FL25**	130 120	15	CC-8	3.62		3000 6000	630 500	2800	2300	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50	**14022**	**50PAR30/H/FL35**	120	6	CC-8	3.62		3000	630	2800	1400	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50 46	**17874**	**50PAR30/H/FL35**	130 120	15	CC-8	3.62		3000 6000	630 500	2800	1400	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		60	**27212**	**60PAR30/H/NSP9**	120	15	CC-8	3.62		3000	800	2800	11000	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
			40167	**60PAR30/H/FL25**	120	15	CC-8	3.62		3000	800	2800	2900	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
			27214	**60PAR30/H/FL35**	120	15	CC-8	3.62		3000	800	2800	1700	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		75	**14802**	**75PAR30/H/SP10**	120	6	CC-8	3.62		3000	1030	2830	13000	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
			81863	**75PAR30HFL35/RVL**	120	6	CC-8	3.62		3000	1010			1a, 2a, 4f, 4h, 9a, 10c	Reveal®, Floodlight
		75 66	**18056**	**75PAR30/H/SP10**	130 120	15	CC-8	3.62		3000 6000	1030 790	2830	13000	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		75	**18057**	**75PAR30/H/FL25**	120	15	CC-8	3.62		3000	1030	2830	3800	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
			14779	**75PAR30/H/FL35**	120	6	CC-8	3.62		3000	1030	2830	2400	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		75 66	**18060**	**75PAR30/H/FL35**	130 120	15	CC-8	3.62		3000 6000	1030 790	2830	2400	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
COMPACT PAR20															
PAR20	Med	50	**14927**	**50PAR20/H/SP10**	120	6	CC-8	3.13		2500	570	2800	6000	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
			**81861**	**50PAR20HFL25/RVL**	120	6	CC-8	3.13		2500				1a, 2a, 4f, 4h, 9a, 10c	Reveal®, Floodlight
		50 46	**17866**	**50PAR20/H/SP10**	130 120	15	CC-8	3.13		2500 5000	570 498	2800	6000	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
		50	**14928**	**50PAR20H/FL25**	120	6	CC-8	3.13		2500	570	2800	1500	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
		50 46	**17868**	**50PAR20/H/FL25**	130 120	15	CC-8	3.13		2500 5000	570 498	2800	1500	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
HALOGEN COMPACT PAR16															
PAR16	Med	35	**82135**	**35PAR16CURIO-PQ**	120	6	CC-8	2.88		3000				1a, 2a, 4f, 4h, 9a, 10c	
		60	**41628**	**60PAR16/H/SP10**	120	6	CC-8	2.88		2000	650	2950	5400	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
			41623	**60PAR16/H/FL30**	120	6	CC-8	2.88		2000	650	2950	1550	1a, 2a, 4f, 4h, 9a, 10c	Floodlight
			82142	**60PAR16FL/RVL-CD**	120	6	CC-8	2.88		2000				1a, 2a, 4f, 4h, 9a, 10c	Reveal®, Floodlight, Carded
		75	**41630**	**75PAR16/H/SP10**	120	6	CC-8	2.88		2000	900	2950	6200	1a, 2a, 4f, 4h, 9a, 10c	Spotlight
			41629	**75PAR16/H/FL30**	120	6	CC-8	2.88		2000	900	2950	1600	1a, 2a, 4f, 4h, 9a, 10c	Floodlight

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All footnote references found at the end of this section. Reduced Wattage High Color Rendering.

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
HALOGEN COMPACT PAR LAMPS (CONTINUED)															
DIAMOND PRECISE® ELECTRONIC MR16															
MR16	Med	21	**48545**	**Q21EMR16/C/SP12**	120	6	C-6	3.38		5000	260	2950	3900	1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c	Narrow Spot
			48546	**Q21EMR16/C/FL25**	120	6	C-6	3.38		5000	260	2950	890	1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c	Narrow Flood
			48547	**Q21EMR16/C/SP12CD**	120	6	C-6	3.38		5000	260	2950	3900	1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c	Narrow Spot, Carded
			48548	**Q21EMR16/C/FL25CD**	120	6	C-6	3.38		5000	260	2950	890	1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c	Narrow Flood, Carded
PAR36															
PAR36	Scrw Term	35	**19873**	**35PAR36/H/SP5**	12	12	C-6	2.75		4000	250	3050	25000	2a, 2b, 4f, 4g, 7a, 9b, 10c	Spotlight
			19876	**35PAR36/H/SP8**	12	12	C-6	2.75		4000	250	3050	8000	2a, 2b, 4f, 4g, 7a, 9b, 10c	Spotlight
			19877	**35PAR36/H/FL30**	12	12	C-6	2.75		4000	250	3050	900	2a, 2b, 4f, 4g, 7a, 9b, 10c	Floodlight
			42072	**35PAR36/H/VWFL**	12	12	C-6	2.75		4000	250	3050		2a, 2b, 4f, 4g, 7a, 9b, 10c	Wide Flood
		50	**19878**	**50PAR36/H/SP5**	12	12	C-6	2.75		4000	400	3050	39000	2a, 2b, 4f, 4g, 7a, 9b, 10c	Spotlight
			19879	**50PAR36/H/SP8**	12	12	C-6	2.75		4000	400	3050	10000	2a, 2b, 4f, 4g, 7a, 9b, 10c	Spotlight
			19880	**50PAR36/H/FL30**	12	12	C-6	2.75		4000	400	3050	1300	2a, 2b, 4f, 4g, 7a, 9b, 10c	Floodlight
A-15															
A15	Med	40	**82114**	**40A15CF/CL/H-CD2**	120	6	CC-8	3.50		2250				1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c	Celing Fan, Halogen
		60	**82115**	**60A15CF/CL/H-CD2**	120	6	CC-8	3.50		2250				1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c	Celing Fan, Halogen
A-19															
A19	Med	60	**82137**	**60A/CL/H/RVL-CD**	120	5	C-8	4.43		3000	675			1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	Reveal®, Halogen
		75	**82138**	**75A/CL/H/RVL-CD**	120	5	C-8	4.43		3000	850			1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	Reveal®, Halogen
		100	**82139**	**100A/CL/H/RVL-CD**	120	5	C-8	4.43		3000	1275			1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	Reveal®, Halogen
A-21															
A21	Med	30	**24699**	**30/100-HALOGEN**	120	6	CC-8	5.25		2500	300			1a, 2a, 2b, 2c, 4i, 4j	3-Way
		70									1050			9a, 10b, 10c	
		100									1370				
		50	**81590**	**50/150-HALOGEN**	120	6	CC-8	5.25		2500	700			1a, 2a, 2b, 2c, 4i, 4j	3-Way
		100									1600			9a, 10b, 10c	
		150									2300				
HALOGEN REFLECTORS															
BR30	Med	60	**85116**	**60BR30FL/H-PQ1/6**	120	6	CC-8	5.37		3000	700			1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	Halogen Reflector
			85127	**60BR30FL/H-3PK**	120	6	CC-8	5.37		3000	700			1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	Halogen Reflector 3-Pack
BR40	Med	60	**85131**	**60BR40FL/H-PQ1/6**	120	6	CC-8	6.56		3000	790			1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	Halogen Reflector
		100	**85146**	**100BR40F/H-PQ1/6**	120	6	CC-8	6.56		3000	1200			1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	Halogen Reflector
G16.5															
GC															
G16.5	Cand	40	**82131**	**40GC/CL/H-PQ2/3**	120	6	CC-8	3.00		2250				1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	
		60	**82132**	**60GC/CL/H-PQ2/3**	120	6	CC-8	3.00		2250				1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c	

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
G16.5 (CONTINUED)															
GM															
G16.5	Med	40	**82133**	**40GM/CL/H-PQ2/3**	120	6	CC-8	3.00		2250				1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c	
		60	**82134**	**60GM/CL/H-PQ2/3**	120	6	CC-8	3.00		2250				1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c	
A-LINE/DECORATIVE															
B13	Med	45	**45650**	**45BM/HAL/PQ1/6**	120	6	CC-8	4.63	2.38	3000	600	2750		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Frost, Thick Glass
TB19	Med	50	**16747**	**50TB/H**	130	60	CC-8	4.43	3.13	2000	710	2800		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass
		46			120					4000	540				
		50	**20647**	**50A/HAL 6PK**	120	6	CC-8	4.43	3.13	2000	710	2800		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass
		60	**48105**	**60A/HAL/CD**	120	4	CC-8	4.43	2.62	3000	840	2800		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass
			48106	**60A/HAL/CL/CD**	120	4	CC-8	4.43	2.62	3000	870	2800		1a, 2a, 4f, 4h, 9a, 10c	Clear, Thick Glass
		75	**48107**	**75A/HAL/CD**	120	4	CC-8	4.43	2.62	3000	1170	2850		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass
		90	**16745**	**90TB/H**	130	60	CC-8	4.43	3.13	2000	1580	2930		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass
		81			120					4000	1220				
		90	**20648**	**90A/HAL 6PK**	120	6	CC-8	4.43	3.13	2000	1580	2930		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass
			48108	**90A/HAL/CD**	120	4	CC-8	4.43	2.62	3000	1470	2930		1a, 2a, 4f, 4h, 9a, 10c	Frost, Thick Glass
BT14.5	Med	60	**10036**	**60BTT/CL/CD**	120	5	C-8	4.75	3.00	3000	900	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Brass Base, Carded
			11856	**60BTT/CL/CD/TW**	120	5	C-8	4.75	3.00	3000	900	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Brass Base twin pack, Carded
			10038	**60BTT/SW/CD**	120	5	C-8	4.75	3.00	3000	840	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base, Carded
			10039	**60BTT/SW/CD/TW**	120	5	C-8	4.75	3.00	3000	840	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base twin pack, Carded
		75	**10040**	**75BTT/SW/CD**	120	5	C-8	4.75	3.00	3000	1070	2850		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base, Carded
		100	**10042**	**100BTT/SW/CD**	120	5	C-8	4.75	3.00	3000	1600	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brass Base, Carded
		150	**10043**	**150BTT/SW/CD**	120	5	C-8	4.75	3.00	3000	2430	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	White, Brase Base, Carded
F14.5	Med	60	**10044**	**60BTT/POST/CD**	120	5	C-8	4.75	3.00	3000	900	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Brass Base, Carded Postlamp
B10	Med	25	**16760**	**25BM/H/CD2**	120	5	CC-8	3.4	2.22	2250	280	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack
		40	**16761**	**40BM/H/CD2**	120	5	CC-8	3.4	2.22	2250	485	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack
	Cand	25	**16764**	**25BC/H/CD2**	120	5	CC-8	3.4	2.22	2250	280	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack
		40	**16765**	**40BC/H/CD2**	120	5	CC-8	3.4	2.22	2250	485	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack
T10	Med	25	**16766**	**25BFM/H/CD2**	120	5	CC-8	3.4	2.22	2250	280	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack
		40	**16767**	**40/BFM/H/CD2**	120	5	CC-8	3.4	2.22	2250	485	2800		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded Twin Pack
G25	Med	40	**16771**	**40G25/H/CL**	120	6	CC-8	4.45	2.56	2250	510	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	
			82140	**40G25/CL/H/RVL**	120	6	C-8	4.50		2250				1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Reveal® Halogen
		60	**16773**	**60G25/H/CL**	120	6	CC-8	4.45	2.56	2250	1000	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	
			82141	**60G25/CL/H/RVL**	120	6	C-8	4.50		2250				1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Reveal® Halogen

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Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
A-LINE/DECORATIVE (CONTINUED)															
G25	Med	40	**16774**	**40G25/H/CRYSTAL**	120	6	CC-8	4.45	2.56	2250	500	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	
		60	**16775**	**60G25/H/CRYSTAL**	120	6	CC-8	4.45	2.56	2250	960	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	
T10	Med	25	**16776**	**25T10/H/CD**	120	4	CC-8	5.04	2.56	2250	260	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded
		40	**16777**	**40T10/H/CD**	120	4	CC-8	5.04	2.56	2250	510	2700		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded
		60	**16778**	**60T10/H/CD**	120	4	CC-8	5.04	2.56	2250	800	2900		1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c	Carded
AR111															
AR111	G53	35	**97532**	**35AR111/SP8**	12	10		2.64		2000		2800	14000	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Spotlight
			97533	**35AR111/FL24**	12	10		2.64		2000		2800	2500	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Narrow Floodlight
		50	**97534**	**50AR111/SP8**	12	10		2.64		3000		2800	17800	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Spotlight
			97535	**50AR111/FL24**	12	10		2.64		3000		2800	3500	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Narrow Floodlight
		75	**97536**	**75AR111/SP8**	12	10		2.64		3000		2900	23500	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Spotlight
			97537	**75AR111/FL24**	12	10		2.64		3000		2900	5300	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Narrow Floodlight
			97538	**75AR111/FL45**	12	10		2.64		3000		2900	1700	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Wide Floodlight
		100	**97539**	**100AR111/SP8**	12	10		2.64		3000		2950	40000	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Spotlight
			97540	**100AR111/FL24**	12	10		2.64		3000		2950	8000	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Narrow Floodlight
			97541	**100AR111/FL45**	12	10		2.64		3000		2950	2300	2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c	Wide Floodlight
MR															
TURN & LOCK CONSTANTCOLOR®															
MR16	TAL	35	**30932**	**35MR16/Q/8/TL**	12	10	C-6	2		3500		2900	8100	2a, 2b, 4f, 7a, 9a, 10b, 10c	Narrow Spot
		50	**30901**	**50MR16/Q/10/TL**	12	10	C-6	2		3500		3000	10800	2a, 2b, 4f, 7a, 9a, 10b, 10c	Narrow Spot
			30900	**50MR16/Q/20/TL**	12	10	C-6	2		3500		3000	3330	2a, 2b, 4f, 7a, 9a, 10b, 10c	Narrow Flood
			30899	**50MR16/Q/40/TL**	12	10	C-6	2		3500		3000	1395	2a, 2b, 4f, 7a, 9a, 10b, 10c	Floodlight
CONSTANTCOLOR® PRECISE™ COVER GLASS MR16															
MR16	2-Pin GU5.3	20	**20858**	**Q20MR16C/CG15**	12	20	C-6	1.88		5000		2900	3150	2a, 2b, 4f, 9a, 10c	Narrow Spot, ANSI: ESX
			20857	**Q20MR16C/CG40**	12	20	C-6	1.88		5000		2900	475	2a, 2b, 4f, 9a, 10c	Flood, ANSI: BAB
			21456	**FAM6Q20MR16NSCCG**	12	1	C-6	1.88		5000		2900	3350	2a, 2b, 4f, 9a, 10c	Narrow Spot, Carded, ANSI: ESX
			21455	**FAM6Q20MR16FLCCG**	12	1	C-6	1.88		5000		2900	490	2a, 2b, 4f, 9a, 10c	Flood, Carded ANSI: BAB
		35	**20864**	**Q35MR16/C/CG12**	12	20	C-6	1.88		5000		3000	7500	2a, 2b, 4f, 9a, 10c	Narrow Spot, ANSI: FRB
			20860	**Q35MR16C/CG20**	12	20	C-6	1.88		5000		3000	3200	2a, 2b, 4f, 9a, 10c	Spot, ANSI: FRA

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
MR (CONTINUED)															
CONSTANTCOLOR® PRECISE™ COVER GLASS MR16 (CONTINUED)															
MR16	2-Pin GU5.3	35	**20859**	**Q35MR16C/CG40**	12	20 C-6		1.88		5000		3000	900	2a, 2b, 4f, 9a, 10c	Flood, ANSI: FMW
			23252	**FAM6Q35MR16SPCCG**	12	1 C-6		1.88		5000		3000	3200	2a, 2b, 4f, 9a, 10c	Spot, Carded ANSI: FRB
			23253	**FAM6Q35MR16FLCCG**	12	1 C-6		1.88		5000		3000	900	2a, 2b, 4f, 9a, 10c	Flood, Clear Glass Carded, ANSI: FMW
			41487	**Q35MR16/CCG40**	24	20 C-6		1.88		4000		2950	920	2a, 2b, 4f, 9a, 10c	Flood
		50	**20872**	**Q50MR16C/CG15**	12	20 C-6		1.88		6000		3050	8400	2a, 2b, 4f, 9a, 10c	Narrow Spot ANSI: EXT
			20871	**Q50MR16C/CG25**	12	20 C-6		1.88		6000		3050	2900	2a, 2b, 4f, 9a, 10c	Narrow Flood ANSI: EXZ
			20867	**Q50MR16C/CG40**	12	20 C-6		1.88		6000		3050	1500	2a, 2b, 4f, 9a, 10c	Flood, ANSI: EXN
			20865	**Q50MR16C/CG55**	12	20 C-6		1.88		6000		3050	850	2a, 2b, 4f, 9a, 10c	Wide Flood, ANSI: FNV
			21458	**FAM6Q50MR16NSCCG**	12	1 C-6		1.88		6000		3050	9500	2a, 2b, 4f, 9a, 10c	Narrow Spot. Carded, ANSI: EXT
			21457	**FAM6Q50MR16FLCCG**	12	1 C-6		1.88		6000		3050	1720	2a, 2b, 4f, 9a, 10c	Flood. 3050K. Carded, ANSI: EXN
			41488	**Q50MR16/CCG15**	24	20 C-6		1.88		4000		2950	8400	2a, 2b, 4f, 9a, 10c	Narrow Spot
			41489	**Q50MR16/CCG40**	24	20 C-6		1.88		4000		2950	1570	2a, 2b, 4f, 9a, 10c	Flood
		71	**20876**	**Q71MR16C/CG15**	12	20 C-6		1.88		4000		3050	10800	2a, 2b, 4f, 9a, 10c	Narrow Spot, ANSI: EYF
			20874	**Q71MR16C/CG25**	12	20 C-6		1.88		4000		3050	4550	2a, 2b, 4f, 9a, 10c	Narrow Flood, ANSI: EYJ
			20873	**Q71MR16C/CG40**	12	20 C-6		1.88		4000		3050	2000	2a, 2b, 4f, 9a, 10c	Flood, ANSI: EYC
CONSTANTCOLOR® PRECISE™ MR16															
MR16	2-Pin GX5.3	20	**20816**	**Q20MR16/C/VNSP7**	12	20 CC-6		1.88		3000		2900	7400	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Very Narrow Spot, ANSI: EZX
			20815	**Q20MR16/C/NSP15**	12	20 C-6		1.88		5000		2900	3750	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Spot, ANSI: ESX
			20814	**Q20MR16C/FL40 10**	12	20 C-6		1.88		5000		2900	525	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: BAB
		35	**20826**	**Q35MR16/C/SP20**	12	20 C-6		1.88		5000		3000	3900	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, ANSI: FRA
			20825	**Q35MR16/C/FL40**	12	20 C-6		1.88		5000		3000	1000	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: FMW
		42	**20830**	**Q42MR16/C/VNSP9**	12	20 CC-6		1.88		3500		3000	12300	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Very Narrow Spot, ANSI: EZY
		50	**20839**	**Q50MR16/C/NSP15**	12	20 C-6		1.88		6000		3050	9100	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Spot, ANSI: EXT
			20835	**Q50MR16/C/NFL25**	12	20 C-6		1.88		6000		3050	3200	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Flood, ANSI: EXZ
			20834	**Q50MR16C/NFL30**	12	20 C-6		1.88		6000		3050	2500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Flood, ANSI: EXK
			20833	**Q50MR16/C/FL40**	12	20 C-6		1.88		6000		3050	1700	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: EXN
			20832	**Q50MR16/C/WFL55**	12	20 C-6		1.88		6000		3050	900	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Wide Flood, ANSI: FNV
		71	**20843**	**Q71MR16/C/NSP15**	12	20 C-6		1.88		4000		3050	11500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Spot, ANSI: EYF
			20841	**Q71MR16/C/NFL25**	12	20 C-6		1.88		4000		3050	5500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Narrow Flood, ANSI: EYJ
			20840	**Q71MR16/C/FL40**	12	20 C-6		1.88		4000		3050	2200	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: EYC

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All footnote references found at the end of this section. Reduced Wattage High Color Rendering.

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
MR (CONTINUED)															
PRECISE™ COVER GLASS IR MR16															
MR16	2-Pin GU5.3	37	**16715**	**Q37MR16/HIR/CG10**	12	20	C-8	1.8		4000		3000	12500	2a, 2b, 4f, 9a, 10c	Narrow Spot
			16716	**Q37MR16/HIR/CG25**	12	20	C-8	1.8		4000		3000	4400	2a, 2b, 4f, 9a, 10c	Narrow Flood
			16717	**Q37MR16/HIR/CG40**	12	20	C-8	1.8		4000		3000	2050	2a, 2b, 4f, 9a, 10c	Flood
		50	**16718**	**Q50MR16/HIR/CG10**	12	20	C-8	1.8		4000		3000	15000	2a, 2b, 4f, 9a, 10c	Narrow Spot
			16719	**Q50MR16/HIR/CG25**	12	20	C-8	1.8		4000		3000	5700	2a, 2b, 4f, 9a, 10c	Narrow Flood
			16720	**Q50MR16/HIR/CG40**	12	20	C-8	1.8		4000		3000	2600		Flood
STANDARD MR16															
MR16	2-Pin GX5.3	20	**25481**	**Q20MR16/SP**	12	20	C-6	1.88		2000		2900	3500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, ANSI: ESX
			25480	**Q20MR16/FL**	12	20	C-6	1.88		2000		2900	500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: BAB
			81763	**Q20MR16CGFLCD-BA**	12	6	C-6	1.88		2000				2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, Basic
			81765	**Q20MR16CGSPCD-BA**	12	6	C-6	1.88		2000				2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, Basic
		35	**81768**	**Q35MR16CGFLCD-BA**	12	6	C-6	1.88		2000				2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, Basic
			81769	**Q35MR16CGSPCD-BA**	12	6	C-6	1.88		2000				2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, Basic
		50	**81770**	**Q50MR16CGFLCD-BA**	12	6	C-6	1.88		2000				2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, Basic
			81771	**Q50MR16CGSPCD-BA**	12	6	C-6	1.88		2000				2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, Basic
			25483	**Q50MR16/SP**	12	20	C-6	1.88		2000		2900	9500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Spot, ANSI: EXT
			25482	**Q50MR16/FL**	12	20	C-6	1.88		2000		2900	1500	2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Flood, ANSI: EXN
			42098	**Q50MR16FL/CG/3PK**	12	6	C-6	1.88		2000		2900	1500	2a, 2b, 4c, 4f, 9a, 10c	Flood, ANSI: EXN
			82110	**Q50MR16FCCGRV-CD**	12	6	C-6	1.88		3000				2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Reveal®, Floodlight, Carded
			82111	**Q50MR16SCCGRV-CD**	12	6	C-6	1.88		3000				2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Reveal®, Spotlight, Carded
STANDARD MR11															
MR11	2-Pin GZ4	20	**30754**	**Q20MR11/SP15**	12	10	C-6	1.38		3500		2900	1760	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Spot, ANSI: FTC
			30773	**Q20MR11/NFL30**	12	10	C-6	1.38		3500		2900	600	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Narrow Flood, ANSI: FTD
			25197	**FAM6Q20MR11NF/CD**	12	1	C-6	1.38		3500		2900	600	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Narrow Flood, ANSI: FTD
		35	**30774**	**Q35MR11SP20**	12	10	C-6	1.38		3500		2900	3000	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Spot, ANSI: FTF
			30890	**Q35MR11NFL30**	12	10	C-6	1.38		3500		2900	1300	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Narrow Flood, ANSI: FTH
			25349	**FAM6Q35MR11SP/CD**	12	1	C-6	1.38		3500		2900	4100	2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a	Spot, ANSI: FTF
			41483	**Q35MR11/CG12 24**	24	50	C-6	1.38		2000		2950	4100	2a, 2b, 4c, 4f, 9a, 10c	Spot
			41484	**Q35MR11/CG30 24**	24	50	C-6	1.38		2000		2950	1300	2a, 2b, 4c, 4f, 9a, 10c	Narrow Flood
120V MR16															
MR16	GU10	20	**16753**	**Q20GU10/FL/CD**	120	5	CC-2V	2.13		2000		2600	230	1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	
		35	**16752**	**Q35GU10/FL/CD**	120	5	CC-2V	2.13		3000		2650	500	1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
MR (CONTINUED)															
120V MR16 (CONTINUED)															
MR16	GU10	50	**16751**	**Q50GU10/FL/CD**	120	5	CC-2V	2.13		3000		2750	1000	1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	
			82143	**Q50GU10FL/RVL-CD**	120	6	CC-2V	2.13		3000				1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Reveal®, Floodlight, Carded
JDR16	Med	35	**20641**	**35PAR16/CURIO**	120	3	CC-6V	2.05		3000		2700	500	1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	
QUARTZ HALOGEN															
T3	2-Pin G4	5	**42959**	**Q5T3/CL**	12	100	C-6	1.25	0.75	2000	60			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear
		10	**34674**	**Q10T3/CL**	12	100	C-6	1.25	0.75	2000	140			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear
			19371	**Q10T3/CL/CD 5PK**	12	25	C-6	1.25	0.75	2000	140			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear, Carded
		20	**34715**	**Q20T2.5/12V/CL**	12	100	C-6	1.25	0.75	2000	350			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
			19375	**Q20T3/CL/CD 5PK**	12	25	C-6	1.25	0.75	2000	350			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear, Carded
T4	2-Pin G8	25	**16809**	**Q25G8/CD2**	120	5	CC-2V	1.59	1.04	1500	240			1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Twin Pack, Carded
		35	**48428**	**Q35G8/CD**	120	5	CC-2V	1.77	1.34	1500				1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
T3	2-Pin GY6.35	35	**34708**	**Q35T3/12V/CL**	12	100	C-6	1.75		2000	550			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
			48503	**Q35T3/CL/CD 5PK**	12	25	C-8	1.75		2000				2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Carded
T4	2-Pin G8	50	**21941**	**Q50G8/CD**	120	5	CC-2V	1.77	1.34	1300	700			1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
T3	2-Pin GY6.35	50	**34702**	**Q50T3/12V/CL**	12	100	C-6	1.75		2000	900			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
			19376	**Q50T3/CL/CD 5PK**	12	25	C-6	1.75	1.16	2000	900			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear, Carded
T4	2-Pin GY6.35	75	**19377**	**Q75T4/CL/CD 5PK**	12	25	C-6	1.75	1.16	2000	1600			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	Clear, Carded
T4	2-Pin G8	75	**47801**	**Q75G8/CD**	120	5	CC-2V	1.77	1.34	1500				1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
		100	**47803**	**Q100G8/CD**	120	5	CC-2V	1.77	1.34	1500				1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
T3	2-Pin GY6.35	100	**34676**	**Q100T3/12V/CL**	12	100	CC-6	1.75		2000	2350			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
			34663	**Q100T3/24V/CL**	24	100	CC-6	1.75		2000	2000			2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c	
QUARTZLINE®															
HIR™															
T2	R7s	225	**12282**	**Q225T2CL/ULTRACD**	120	60	C-8	4.69	2.5	3000	5950	2965		↯ 1a, 2a, 2b, 4c, 4d, 4e, 4f, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal
T2.5	R7s	350	**12283**	**Q350T3CL/ULTRACD**	120	60	C-8	4.69	2.25	2000	10000	3075		↯ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal, Carded
			13894	**Q350T3/CL/HIR**	120	6	C-8	4.69	2.25	2000	10000	3075		↯ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal
			14311	**Q350T3/CL/HIR**	130	6	C-8	4.69	2.25	2000	9600	3000		↯ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal

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Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
QUARTZLINE® (CONTINUED)															
HIR™ (CONTINUED)															
T2.5	R7s	900	**13642**	**Q900T3/CL/HIR**	240	6	C-8	10.06	6.13	2000	32000	3160		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal
			14335	**Q900T3/CL/HIR**	277	6	C-8	10.06	6.13	2000	31000	3160		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	IR, Clear, Horizontal Halogen
HALOGEN															
T4	G9	25	**16754**	**Q25G9/CD**	120	5	CC-8	1.77	1.26	3000	240	2650		1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
			81300	**Q25G9/F/CD**	120	5	CC-8	1.77	1.26	3000				1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Frosted, Carded
		40	**16755**	**Q40G9/CD**	120	5	CC-8	1.77	1.26	2000	480	2750		1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
			81301	**Q40G9/F/CD**	120	5	CC-8	1.77	1.26	2000				1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Frosted, Carded
		60	**81468**	**Q60G9/F/CD**	120	5	CC-8	1.77	1.26	3000				1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Frosted, Carded
		75	**81469**	**Q75G9/F/CD**	120	5	CC-8	1.77	1.26	3000				1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Frosted, Carded
T4	2-Pin PreFoc	45	**41541**	**Q45T4/CL**		12	C-6	2.5	1.53	500	835			2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12c	Clear, Airport, Base Down
	G9	60	**16756**	**Q60G9/CD**	120	5	CC-8	1.77	1.26	3000	780	2800		1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
		75	**16759**	**Q75G9/CD**	120	5	CC-8	1.77	1.26	3000	1100	2850		1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c	Carded
T3	Mini-Cand	75	**39574**	**Q75CL**	28	20	CC-6	2.5	1.19	2000	1350			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			12715	**Q75CL/MC/CD**	120	25	CC-8	2.5	1.25	1000	1050	2850		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Carded
	R7s	100	**22489**	**Q100T3/CL/CD 5PK**	120	60	C-8	3.13	1.25	1500	1650	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
T4	Mini-Cand	100	**16452**	**Q100MC**	120	6	CC-8	2.81	1.38	2000	1550	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			15507	**Q100CL/MC**	120	6	CC-8	2.81	1.38	2000	1600	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			44385	**Q100CL/MC/2V**	120	6	CC-2V	2.81	1.38	750	1800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			19383	**Q100CL/MC/CD 5PK**	120	25	CC-8	2.81	1.38	2000	1600	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Carded
T4	D C Bay	100	**16451**	**Q100DC**	120	6	CC-8	2.44	1.38	2000	1550	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			15508	**Q100CL/DC**	120	6	CC-8	2.44	1.38	2000	1600	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			44386	**Q100CL/DC/2V**	120	6	CC-2V	2.44	1.38	750	1800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
T3	R7s	150	**27449**	**Q150T3/117/CL/CD**	120	60	C-8	4.69	2.25	1500	2400	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
			19378	**Q150T3/CL/CD 5PK**	120	60	C-8	3.13	1.25	1500	2400	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
			80905	**Q150T3/HD/CD2**	120	25	C-8	3.13	1.25	2000		2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Carded, Heavy Duty
T4	R7s	150	**23710**	**Q150T4/CL**	25	12	CC-8	2.56		3000	2760	2850		2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Clear, Dental Spotlight

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
QUARTZLINE® (CONTINUED)															
HALOGEN (CONTINUED)															
T4	Mini-Cand	150	**44654**	**Q150MC**	120	6	CC-8	3	1.38	2000	2700	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43694	**Q150CL/MC**	120	6	CC-8	3	1.38	2000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			19386	**Q150CL/MC/CD 5PK**	120	25	CC-8	3	1.38	2000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Carded
	D C Bay	150	**44653**	**Q150DC**	120	6	CC-8	2.5	1.38	2000	2700	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43693	**Q150CL/DC**	120	6	CC-8	2.5	1.38	2000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			44384	**Q150CL/DC/2V**	120	6	CC-2V	2.44	1.38	1000	2800	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
T4	2-Pin PreFoc	200	**40702**	**Q200T4/CL**		12	CC-6	2.5	1.53	500	4500			2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12c	Clear, Airport, Base Down
	2-Pin GZ9.5	235	**11548**	**Q235T4/3**	33	12	CC-6	2.63	1.53	150	6000			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Frosted, Instrument, Prefocus
T2.5	R7s	250	**22865**	**Q250T3/CL-6PK**	120	144	C-8	3.13	1.25	1500	4000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal
			22121	**Q250T3/CL/CD 5PK**	120	60	C-8	3.25	1.13	1500	4000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Carded
T4	Mini-Cand	250	**43695**	**Q250MC**	120	6	CC-8	3.16	1.63	2000	4850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43696	**Q250MC**	130	6	CC-8	3.16	1.63	2000	4850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43699	**Q250CL/MC**	120	6	CC-8	3.16	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			19387	**Q250CL/MC/CD 5PK**	120	25	CC-8	3.16	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Carded
			43700	**Q250CL/MC**	130	6	CC-8	3.16	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
T4	D C Bay	250	**43701**	**Q250DC**	120	6	CC-8	3	1.63	2000	4850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43702	**Q250DC**	130	6	CC-8	3	1.63	2000	4850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43697	**Q250CL/DC**	120	6	CC-8	3	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
			43698	**Q250CL/DC**	130	6	CC-8	3	1.63	2000	5000	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
T2.5	R7s	300	**15535**	**Q300T3/HD/2CD**	120	5	C-8	4.68	2.25	2000	5950	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	
			43704	**Q300T3-6PK**	120	144	C-8	4.69	2.25	2000	5900	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Frosted, Horizontal
			43703	**Q300T3/CL-6PK**	120	144	C-8	4.69	2.25	2000	5950	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal
			19379	**Q300T3/CL/CD 5PK**	120	60	C-8	4.69	2.25	2000	5950	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
			27447	**Q300T3CL/CD2-5PK**	120	60	C-8	4.69	2.25	2000	5950	2950		1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear, Horizontal, Carded
T4	R7s	300	**43705**	**Q300T4/CL**	120	12	CC-8	3.13	2.25	2000	5650	2900		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a	Clear

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Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
QUARTZLINE® (CONTINUED)															
HALOGEN (CONTINUED)															
T4	Mini-Cand	400	**43706**	**Q400MC**	120	6	CC-8	3.62	2	2000	7850	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43707	**Q400CL/MC**	120	6	CC-8	3.62	2	2000	8250	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
T2.5	R7s	500	**15537**	**Q500T3/HD/2CD**	120	5	C-8	4.68	2.25	2000	11100	2950		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	
			23731	**Q500T3/CL**	120	12	C-8	4.69	2.25	2000	11100	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
			23733	**Q500T3/CL**	130	12	C-8	4.69	2.25	2000	10550	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
			23744	**Q500T3/CL/6-12PK**	120	144	C-8	4.69	2.25	1500	10950	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d,, 10b, 10c, 12b	Clear, 6 Filament Support, Rough Service, Horizontal
			19382	**Q500T3/CL/CD 5PK**	120	60	C-8	4.69	2.25	2000	11100	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal, Carded
			27448	**Q500T3CL/CD2-5PK**	120	60	C-8	4.69	2.25	2000	11100	3000		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal, Carded
T4	D C Bay	500	**43709**	**Q500DC**	120	6	CC-8	3.44	2.13	2000	10100	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Frosted
			43710	**Q500CL/DC**	120	6	CC-8	3.44	2.13	2000	10450	2950		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear
T8	Spec 1" Ribbon	500	**39071**	**Q500T8/1CL**		20	CC-8	4.25	2.5	500	13400	3200		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Airport, Special bulb
PAR56	Mog End Pr	500	**43494**	**Q500PAR56NSP**	120	6	CC-6	5		4000	8000	2950	96000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Narrow Spot
			43495	**Q500PAR56MFL**	120	6	CC-6	5		4000	8000	2950	43000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Medium Flood
			43496	**Q500PAR56WFL**	120	6	CC-6	5		4000	8000	2950	19000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Wide Flood
T3	R7s	1000	**43711**	**Q1000T3/CL-6PK**	230	144	C-8	10.06	6.13	2000	21500	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
			43712	**Q1000T3/CL-6PK**	240	144	C-8	10.06	6.44	2000	21500	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
T6	R7s	1000	**23800**	**Q1000T6/CL**	120	6	CC-8	5.63	1	2000	23400	3200		1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Clear
T20	Mog BiPost	1000	**41734**	**Q1000T20BP**	120	6	CC-8	9.5	4	3000	22400	3050		12c	Clear, Lighthouse, Base Down
PAR64	ExMogEndPr	1000	**43497**	**Q1000PAR64NSP**	120	6	CC-6	6		4000	19400	3000	200000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Narrow Spot
			43498	**Q1000PAR64MFL**	120	6	CC-6	6		4000	19400	3000	80000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Medium Flood
			43499	**Q1000PAR64/WFL**	120	6	CC-6	6		4000	19400	3000	33000	1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	Wide Flood

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
QUARTZLINE® (CONTINUED)															
HALOGEN (CONTINUED)															
T3	R7s	1500	**23828**	**Q1500T3/CL-12PK**	208	144	C-8	10.06	6.25	2000	35800	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
			23826	**Q1500T3/CL-12PK**	220	144	C-8	10.06	6.81	2000	35800	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
			23830	**Q1500T3/CL**	240	12	C-8	10.06	6.31	2000	35800	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
			23832	**Q1500T3/CL**	277	12	C-8	10.06	6.25	2000	34400	3050		1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b	Clear, Horizontal
	Wire Lead	6000	**23843**	**Q6M/T3/CL/HT**	480	12	C-8	11.94	9.75	100		3250		1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b, 12e	Clear, Infrared, High Temp, Constr.
	Slv	6600	**13511**	**QH6600T3/CL/HT**	480	12	C-8	11.94	9.75	150				1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b, 12e	Clear, Infrared, Horizontal
AIRPORT															
T2.5	Special	45	**23847**	**Q6 6A/T2 1/2/1CL**		12	C-8	1.75		1000	710			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Clear, Airport
T4	PK30d	100	**80584**	**Q6.6A100PK30d-m**		10	CBAR-6	2.0	0.79	1000	2700			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Airport, Male Spade
T5	PK30d	100	**80588**	**Q6.6A100PK30d-f**		10	CBAR-6	2.0	0.79	1000	2700			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Airport, Female Spade
T6	PK30d	150	**80585**	**Q6.6A150PK30d-m**		10	CBAR-6	2.0	0.79	1000	3600			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Airport, Male Spade
T7	PK30d	150	**80589**	**Q6.6A150PK30d-f**		10	CBAR-6	2.0	0.79	1000	3600			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Airport, Female Spade
T8	PK30d	200	**80586**	**Q6.6A200PK30d-m**		10	CC-6	2.3	0.79	1000	4800			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Airport, Male Spade
T9	PK30d	200	**80590**	**Q6.6A200PK30d-f**		10	CC-6	2.3	0.79	1000	4800			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Airport, Female Spade
T4	Spec 1" Ribbon	200	**23857**	**Q6.6A/T4/5CL**		12	CC-8	3		500	5000			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c	Clear, Airport
	D C Bay	200	**23860**	**Q6.6AT4/DCR**		12	CC-6	2.5	1.06	500	5150			2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e	Clear, Airport, Ringed
PAR56	Scrw Term	200	**33279**	**Q6.6A PAR56/3**		12	CC-6	4.5		1000			200000	2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
PAR56	Mog End Pr	200	**38271**	**Q6.6A/PAR56/2**		12	CC-6	5		1000			16000	2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
			18309	**Q6.6A/PAR56/4**		12	CC-6	5		600				2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, Prismatic Lens, BDTH
PAR64	Mog End Pr	200	**13224**	**Q6.6A/PAR 64/2P**		6	CC-6	4.5		2000				2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
PAR56	Scrw Term	300	**32861**	**Q20A/PAR56/2**		12	CC-6	4.5		500			200000	2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c	PAR, Airport, Burn Position: Any
	Mog End Pr	300	**15482**	**Q20A/PAR56/C**		12	CC-6	5		500				2a, 2j, 4c, 4f, 4g, 7a, 9b, 10c	PAR, Airport, Teflon® Coated, Burn Position: Any
PAR64	Mog End Pr	300	**13223**	**Q6.6A/PAR 64/3P**		6	CC-6	4.5		2000				2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
PAR56	Scrw Term	499	**23863**	**Q20A/PAR56/3**		12	CC-6	4.5		500			330000	2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c	PAR, Airport, BDTH
	Mog End Pr	500	**15485**	**Q20A/PAR56/1/C**		12	CC-6	5		500				2a, 2j, 4c, 4f, 4g, 7a, 9b, 10c	PAR, Airport, Teflon® Coated, Burn Position: Any

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Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
TUBULAR QUARTZ HEAT															
T3	Slv	300	**39019**	**QH300T3/CL**	120	12	C-8	8.47	4.19	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared
		375	**21337**	**QH375T3/CL**		12	C-8	8.81	5.06	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared
	R7s	375	**38893**	**QH375T3/CL/7**	120	12	C-8	8.69	5.06	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared
		500	**21787**	**QH500T3/CL/7**	120	12	C-8	8.69	4.81	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared
	Slv	500	**21788**	**QH500T3/CL**	120	12	C-8	8.81	4.81	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear
		1000	**22355**	**QH1000T3/CL**	210	12	C-8	13.81	10	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared
			22357	**QH1000T3/CL**	240	12	C-8	13.81	10	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared
			22358	**QH1000T3/CL/1**	240	12	C-8	11.88	10	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Horizontal
			22365	**QH1000T3/2CL/HT**	240	12	C-8	13.81	10	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, High Temp, Constr., Horizontal
		1200	**22531**	**QH1200T3/CL**	144	12	C-8	8.81	6.13	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Horizontal
			22532	**QH1200T3/CL/HT**	144	12	C-8	8.81	6.13	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, High Temp, Constr., Horizontal
		1600	**22686**	**QH1600T3/CL**	210	12	C-8	19.81	15.88	5000		2350		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Horizontal
			22688	**QH1600T3/CL**	240	12	C-8	19.81	15.88	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Horizontal
			22695	**QH1600T3/CL**	277	12	C-8	19.81	15.88	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Horizontal
T3	R7s	1600	**22691**	**QH1600T3/CL/7**	240	12	C-8	19.63	15.88	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Horizontal
			22699	**QH1600T3/CL/7**	210	12	C-8	19.63	15.88	5000		2350		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Horizontal
	CER	2000	**12716**	**QH2MT3/CL/HT/R**	230	12	C-8		11.06	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, High Temp, Horizontal, Reflector 170°
	Slv	2000	**15551**	**QH2MT3/1CL/HT/VB**	240	12	C-8	11.94	9.69	500		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12e	Infrared, Clear, High Temp, Constr., Universal
			18668	**QH2MT3/CL/VB**	230	12	C-8	13.81	11.06	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Universal
			22789	**QH2M/T3/1CL/HT**	240	12	C-8	11.94	9.69	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, High Temp, Constr.
			22790	**QH2M/T3/CL/HT**	225	12	C-8	13.81	10	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, High Temp, Constr., Horizontal
	R7s	2500	**22837**	**QH2500T3/CL/7**	460	12	C-8	28.63	24.88	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Horizontal

TUBULAR QUARTZ HEAT (CONTINUED)

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Color Temp.	CBCP	Footnotes	Additional Information
T3	Slv	2500	**22838**	**QH2500T3/CL**	480	12	C-8	28.81	24.88	5000		2400		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Horizontal
	CER	2500	**28126**	**QH2.5MT3/CL/HT/R**	400	12	C-8	15.1	12.3	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, High Temp, Horizontal, Reflector 170°
	M4 Lug Term	2500	**28129**	**QH2500T3/VB-10PK**	240	10	C-8	13.8	11	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Universal
	CER	3000	**28127**	**QH3MT3/CL/HT/R**	400	12	C-8	15.1	12.3	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, High Temp, Horizontal, Reflector 170°
	M4 Lug Term	3000	**28130**	**QH3MT3/VB-10PK**	240	10	C-8	13.8	11	5000		2450		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Universal
		3650	**10872**	**QH3650T3/CL/5**	480	6	C-8	41.63	38	5000		2500		1a, 2a, 2b, 3a, 4f, 5a, 5b, 9a, 9d, 10c, 12b, 12e	Infrared, Horizontal
	Slv	3800	**22875**	**QH3800T3/CL**	575	6	C-8	41.81	38	5000		2500		1a, 2a, 2b, 3a, 4f, 5a, 5b, 9a, 9d, 10c, 12b, 12e	Infrared, Horizontal
			22878	**QH3800T3/CL/VB**	575	6	C-8	41.81	38	5000		2500		1a, 2a, 2b, 3a, 4f, 5a, 5b, 9a, 9d, 10c, 12e	Infrared, Clear, Universal
		5000	**22900**	**QH5M/T3/1CL/HT**	600	12	C-8	28.81	25.25	5000		2500		1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, High Temp, Constr., Horizontal
	M4 Lug Term	6000	**29889**	**QH6000T3/HT-ASM**	480	12	C-8	14.2	11.4					1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Horizontal, High Temp.
	Wire Lead	6000	**23843**	**QH6MT3/CL/HT**	480	12	C-8	11.94	9.75	100		3250		1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Horizontal, High Temp.
	M4 Lug Term	6600	**13511**	**QH6600T3/CL/HT**	480	12	C-8	11.94	9.75	150				1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e	Infrared, Clear, Horizontal, High Temp.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. Reduced Wattage High Color Rendering.

GENERAL INFORMATION

HALOGEN LAMP OPERATING PRECAUTIONS

The lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (lumens per watt). Some general cautions are given below.

HIGH OPERATING TEMPERATURES

Since operating temperatures are critical to the effective self-cleaning properties of halogen lamps, filament tube wall temperatures should not go below 482°F (250°C). Hot spots on the bulb wall itself can go as high as 1230°F (700°C) in normal operation.

Substantial heat is generated in all halogen lamps, so equipment design should make allowance for the dissipation of excessive heat. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and to prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors and lamp housings because the 1230°F (700°C) bulb wall temperature is greater than the kindling temperature of many materials. Lamp base temperatures should not exceed 662°F (350°C) because, above that point, lead wires may deteriorate and the basing cement loosen, causing premature lamp failure.

DISTRIBUTION OF SPECTRAL RADIATION

Halogen lamps offer large amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some halogen lamps can be used for special applications where small amounts of ultraviolet energy are required. The slight ultraviolet radiation that comes from unprotected sources could cause skin and eye irritation following extended direct exposure. Passing the light through ordinary glass or plastic provides adequate protection. The lenses of the PAR, TAL or Cover Glass Precise™ lamps provide this protection.

QUARTZ HEAT LAMPS

GE standard quartz heat products are primarily pressurized halogen lamps. Many standard tungsten coil filaments have been converted to a deflection coil winding design that eliminates the need for filament supports through an integral coil/support construction. These changes will improve lamp life as well as keep the bulb wall cleaner during operation and throughout the life of the lamp.

In general, halogen lamps are more efficient than ordinary incandescent lamps. HIR™ lamps are the most efficient halogen lamps we offer. For each application, check life, lumens, wattage, beam spread and lamp dimensions to determine proper bulb selection.

GE has added a reflectorized heat lamp with a patented design that directs the infrared to a surface rather than in 360° angle.

HALOGEN CAUTION NOTICE – GENERAL

Halogen lamps are constructed of a glass bulb with a pressurized internal filament tube that operates at high temperatures and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture enclosure and/or surrounding environment, thereby creating a risk of personal injury or fire.

OPERATING NOTES

- Turn power off and let lamp cool before removal to avoid potential burn and electrical shock during lamp replacement
- Do not use lamp if outer glass is scratched or broken because it may break during installation or later during operation
- Do not use lamp in close proximity to combustible materials or those adversely affected by drying or fading action because of heat radiation in the lamp beam
- Dispose of removed lamp with care such as placing in used lamp carton or other closed container

COMPACT PAR LAMPS (PAR20/30)

- Use outdoors in enclosed fixtures or where protected from exposure to water

QUARTZLINE® PAR (250W)

- Avoid use where subjected to exposure to moisture which may cause lamp to break or shatter
- Do not operate lamp over 110% rated voltage. Overvoltage operation increases pressure and tendency to break.
- Use this lamp only in fixtures designed for Q250PAR38 lamps

HALOGEN A-LINE (TB/H)

Caution: Cracked or broken bulbs that still light should be replaced immediately. The inner tube of the GE Halogen lamp is pressurized, operates at high temperature and could unexpectedly shatter with the possibility of property damage or personal injury. Avoid use in unstable table lamps, dispose of with care. To avoid burns, electricity should be switched off and the lamp allowed to cool for several minutes before removing from socket. Use outdoors only in enclosed fixtures or where protected from exposure to water.

OPERATING NOTES – LOW VOLTAGE LAMPS

Low voltage tungsten-halogen lamps are sensitive to voltage variations. Even a small change in voltage can have a considerable impact on lamp life. Designers should match fixture transformer ratings to actual line voltages to ensure that the lamps operate at as close to 12 volts as possible.

Rapid cycling can also shorten lamp life, and designers should take advice from their GE Lighting representative before using these lamps in flashing or blinking applications.

The lamps may be dimmed by reducing voltage. However, this may cause the bulbs to blacken. If this occurs the lamp should be run at full voltage for fifteen minutes, thereby clearing the problem. Note that the nature of low voltage lighting systems requires the use of fluorescent-type dimmers. Lamp can be operated on AC or DC currents.

WARNINGS AND CAUTION NOTICES

1

⚠ WARNING

Risk of electric shock

a Turn power off before inspection, installation or removal
b Turn power off if glass bulb is broken, even if bulb continures to light. Remove and dispose of lamp.
c Do not open. No user serviceable parts inside.

2

⚠ WARNING

Risk of fire

a Keep combustible materials away from lamp
b Use in fixture rated for this product
c Use in fixture rated for this product—see instructions
d Operate base down to horizontal only
e In table lamp use only with shade
f Do not use in enclosed fixture or with lamp shade
g Use in high intensity fixture rated for this product
h Do not use as a night light
i Burning position base down only
j Use in enclosed fixture rated for this product
k Fire Hazard! Do not use in Torchieres or other indoor residential fixtures

3

⚠ WARNING

Lamp emits IR radiation which may cause eye injury

a Avoid exposure of eyes and skin to unshielded lamp

4

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

a Use eye protection when handling lamp
b Avoid direct water/liquid contact
c Use in enclosed fixture rated for this product
d Operate lamp only in specified position
e Do not touch glass with bare hands
f Do not use lamp if outer glass is scratched or broken
g Do not exceed 110% of rated voltage
h Do not use where directly exposed to water or outdoors without an enclosed fixture
i Do not exceed rated voltage
j Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose.
k Do not use in wet locations

5

⚠ WARNING

Unexpected lamp rupture may cause injury, fire, or property damage

a Do not touch glass with bare hands
b Operate lamp only in specified position
c Use in enclosed fixture rated for this product
d Do not use lamp if outer glass is scratched or broken
e Avoid direct water, liquid or metal contact

6

⚠ WARNING

Risk of burn

a Do not touch operating lamp

7

⚠ WARNING

A damaged lamp emits UV radiation which may cause eye/skin injury

a Turn power off if glass bulb is broken. Remove and dispose of lamp.

8

⚠ WARNING

Lamp emits UV radiation which may cause eye/skin injury.

a Avoid exposure of eyes and skin to unshielded lamp

9

⚠ CAUTION

Risk of burn

a Allow lamp to cool before handling
b Allow lamp/fixture to cool before handling
c Do not touch operating lamp
d Turn power off before installing lamp

10

⚠ CAUTION

Lamp may shatter and cause injury if broken

a Wear safety glasses and gloves when handling lamp
b Dispose of lamp in a closed container
c Do not use lamp if outer glass is scratched or broken

11

⚠ CAUTION

Lamp emits UV radiation which may cause eye/skin irritation.

a Minimize exposure

12

OP. INST.

a Burning Position - Base up
b Burning position - horizontal
c Burn base down only
d Burn base down to horizontal
e Limit seal temp to 650°F. Maintain min bulb wall temp of 500°F for operation of halogen cycle

HALOGEN LAMPS CROSS REFERENCE

GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
HALOGEN PAR LAMPS		
60PAR16/H/SP10	60PAR16/CAP/NSP10	60PAR16/HAL/NSP10
60PAR16/H/FL30	60PAR16/CAP/NFL30	60PAR16/HAL/NFL27
75PAR16/H/SP10	75PAR16/CAP/NSP10	—
75PAR16/H/FL30	75PAR16/CAP/NFL30	—
Q21EMR16/C/SP12	—	—
Q21EMR16/C/FL25	—	—
50PAR20/H/SP10	50PAR20/CAP/SPL/NSP10	50PAR20/HAL/NSP9
50PAR20/H/FL25	50PAR20/CAP/SPL/NFL30	50PAR20/HAL/NFL30
50PAR30/H/SP10	50PAR30/CAP/SPL/NSP9	50PAR30S/HAL/NSP10
50PAR30/H/FL25	50PAR30/CAP/SPL/NFL25	50PAR30S/HAL/NFL30
50PAR30/H/FL35	50PAR30/CAP/SPL/FL40	50PAR30S/HAL/FL40
50PAR30L/H/SP10	50PAR30LN/CAP/SPL/NSP9	50PAR30L/HAL/NSP9
50PAR30L/H/FL40	52PAR30LN/CAP/SPL/NFL30	50PAR30L/HAL/NFL30
50PAR30L/H/WFL	50PAR30LN/CAP/SPL/WFL50	50PAR30L/HAL/WFL60
60PAR30/H/NSP9	60PAR30/CAP/SPL/NSP9	60PAR30S/HAL/NSP10
60PAR30/H/FL25	60PAR30/CAP/SPL/NFL25	60PAR30S/HAL/NFL30
60PAR30/H/FL35	—	60PAR30S/HAL/NFL40
75PAR30/H/SP10	75PAR30/CAP/SPL/NSP9	75PAR30S/HAL/NSP10
75PAR30/H/FL25	75PAR30/CAP/SPL/NFL25	75PAR30S/HAL/NFL30
75PAR30/H/FL35	75PAR30/CAP/SPL/FL40	75PAR30S/HAL/FL40
75PAR30L/H/SP10	75PAR30LN/CAP/NSP9	75PAR30L/HAL/NSP9
75PAR30L/H/FL25	75PAR30LN/CAP/NFL25	75PAR30L/HAL/NFL30
75PAR30L/H/WFL	75PAR30LN/CAP/WFL40	75PAR30L/HAL/FL40
35PAR36/H/SP5	36PAR36/CAP/VNSP5	—
35PAR36/H/SP8	36PAR36/CAP/NSP13	—
35PAR36/H/FL30	36PAR36/CAP/FL32	—
35PAR36/H/WFL	—	—
50PAR36/H/SP5	50PAR36/CAP/NSP6	—
50PAR36/H/SP8	—	—
50PAR36/H/FL30	—	—
45PAR/H/SP10	45PAR/CAP/SPL/SP9	45PAR38/HAL/SP12/LL
45PAR/H/FL25	45PAR/CAP/SPL/FL30	45PAR38/HAL/FL28/LL
50PAR/H/SP10	—	—
50PAR/H/FL25	—	—
53PAR/H/SS/SP10	—	—
53PAR/H/SS/FL25	—	—
60PAR/H/SP10	60PAR/CAP/SPL/SP10	60PAR38/HAL/NSP10/WLL
60PAR/H/FL25	60PAR/CAP/SPL/NSL25	60PAR38/HAL/FL28/WLL
66PAR/H/SS/SP10	—	—
66PAR/H/SS/FL25	—	—
75PAR/H/NSP9	75PAR/CAP/SPLSP9	75PAR38/HAL/SP10/WLL
75PAR/H/FL25	75PAR/CAP/SPL/FL30	75PAR38/HAL/FL28/WLL
79PAR/H/SS/SP10	—	—
79PAR/H/SS/FL25	—	—
90PAR/H/SP10	90PAR/CAP/SPL/SP9	90PAR38/HAL/SP12/LL
90PAR/H/FL25	90PAR/CAP/SPL/FL30	90PAR38/HAL/FL28/LL

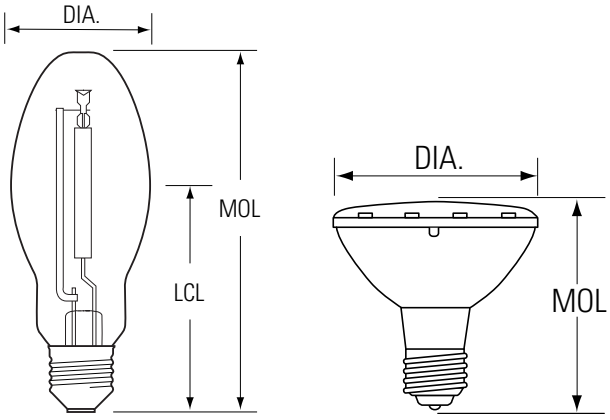
GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
HALOGEN PAR LAMPS (CONTINUED)		
90PAR/H/WFL	90PAR/CAP/SPL/WFL50	90PAR38/HAL/WFL60/WLL
100PAR/H/SP10	—	—
100PAR/H/FL25	—	—
120PAR/H/SP9	120PAR/CAP/SPL/SP10	—
120PAR/H/FL30	120PAR/CAP/SPL/FL30	—
Q250PAR/SP10	250PAR/CAP/SPL/SP10	—
Q250PAR/FL30	250PAR/CAP/SPL/FL30	—
Q500PAR56NSP	500PAR56QNSP	500PAR56Q/NSP
Q500PAR56MFL	500PAR56QMFL	500PAR56Q/MFL
Q500PAR56WFL	500PAR56QWFL	500PAR56Q/WFL
Q1000PAR64NSP	1000PAR64QNSP	1000PAR64Q/NSP
Q1000PAR64MFL	1000PAR64QMFL	1000PAR64Q/MFL
Q1000PAR64WFL	1000PAR64QWFL	1000PAR64Q/WFL
HALOGEN HIR™ PAR LAMPS		
45PAR30/HIR/SP9XL	—	—
45PAR30/HIR/FL25XL	—	—
45PAR30/HIR/FL35XL	—	—
50PAR30/HIR/SP9	50PAR30/CAP/IR/NSP9	50PAR30S/IRC/NSP10
50PAR30/HIR/FL25	50PAR30/CAP/IR/NFL25	50PAR30S/IRC/NFL30
50PAR30/HIR/FL35	50PAR30/CAP/IR/FL40	50PAR30S/IRC/FL40
45PAR/HIR/R/SP10	—	—
45PAR/HIR/R/FL25	—	—
45PAR/HIR/SP12XL	—	—
45PAR/HIR/FL40XL	—	—
50PAR/HIR/SP6	—	—
50PAR/HIR/SP9	50PAR/CAP/IR/NSP9	50PAR38/IRC/SP12
50PAR/HIR/FL25	50PAR/CAP/IR/NFL25	50PAR38/IRC/FL25
50PAR/HIR/S/SP10	—	—
50PAR/HIR/S/FL25	—	—
55PAR/HIR/R/SP10	—	—
55PAR/HIR/R/FL25	—	—
55PAR/HIR/SP12XL	—	—
55PAR/HIR/FL40XL	—	—
60PAR/HIR/SP10	60PAR/CAP/IR/SP9	60PAR38/IRC/SP12
60PAR/HIR/FL30	60PAR/CAP/IR/FL30	60PAR38/IRC/FL25
60PAR/HIR/FL40	—	—
60PAR/HIR/WFL	—	60PAR38/IRC/WFL
60PAR/HIR/S/SP10	—	—
60PAR/HIR/S/FL25	—	—
70PAR/HIR/SP10	—	—
70PAR/HIR/FL25	—	—
80PAR/HIR/SP10	80PAR/CAP/IR/SP10	—
80PAR/HIR/SP12	80PAR/CAP/IR/SP12	—
80PAR/HIR/FL25	80PAR/CAP/IR/FL25	—
90PAR/HIR/R/SP10	—	—
90PAR/HIR/R/FL25	—	—

HALOGEN LAMPS CROSS REFERENCE

GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	**IF YOU CURRENTLY USE THESE LAMPS**	
HALOGEN HIR™ PAR LAMPS (CONTINUED)		
90PAR/HIR/SP12XL	—	—
90PAR/HIR/FL40XL	—	—
100PAR/HIR/SP10	100PAR/CAP/IR/SP10	100PAR38/IRC/SP10
100PAR/HIR/FL25	100PAR/CAP/IR/NFL25	100PAR38/IRC/FL25
100PAR/HIR/FL40	100PAR/CAP/IR/FL40	100PAR38/IRC/WFL
HALOGEN MR11 LAMPS		
Q20MR11/SP15	20MR11/SP10/FTB	20MRC11/SP10
Q20MR11/NFL30	20MR11/FL35/FTD	20MRC11/FL30
Q35MR11/NSP20	35MR11/SP10/FTE	—
Q35MR11/NFL30	35MR11/FL40/FTH	—
HALOGEN STANDARD MR16 LAMPS		
Q20MR16/SP	20MR16/NSP8/ESX	20MRC16/SP10
Q20MR16/FL	20MR16/FL40/BAB	20MRC16/FL36
Q50MR16/SP	50MR16/NSP12/EST	50MRC16/SP10
Q50MR16/FL	20MR16/FL40/EXN	50MRC16/FL38
HALOGEN CONSTANTCOLOR® PRECISE™ MR16 LAMPS		
Q20MR16/C/VNSP7	20MR16/T/NSP/10	20MRC16/CC/SP10
Q20MR16/C/NSP15	—	20MRC16/CC/NFL24
Q20MR16/C/FL40	20MR16/T/NFL40	20MRC16/CC/FL38
Q35MR16/C/SP20	35MR16/T/NFL25	—
Q35MR16/C/FL40	35MR16/T/FL40	—
Q42MR16/C/VNSP9	50MR16/T/NSP10	—
Q50MR16/C/NSP15	—	50MRC16/CC/SP10
Q50MR16/C/NFL25	50MR16/T/NFL25	50MRC16/CC/NFL24
Q50MR16/C/NFL30	—	—
Q50MR16/C/FL40	50MR16/T/FL40	50MRC16/CC/NFL38
Q71MR16/C/NSP15	65MR16/T/NSP10	—
Q71MR16/C/NFL25	65MR16/T/NFL25	—
Q71MR16/C/FL40	65MR16/T/FL40	—
HALOGEN HIR™ MR16 LAMPS		
Q37MR16/HIR/CG10	37MR16/IR/NSP10C	35MRC16/IRC/SP8
Q37MR16/HIR/CG25	37MR16/IR/NFL25C	35MRC16/IRC/NFL24
Q37MR16/HIR/CG40	37MR16/IR/FL40C	35MRC16/IRC/FL36
Q50MR16/HIR/CG10	50MR16/IR/NSP10C	45MRC16/IRC/SP8
Q50MR16/HIR/CG25	50MR16/IR/NFL25C	45MRC16/IRC/NFL24
Q50MR16/HIR/CG40	50MR16/IR/FL40C	45MRC16/IRC/FL36

GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	**IF YOU CURRENTLY USE THESE LAMPS**	
HALOGEN BIPIN LOW VOLTAGE		
Q5T3/CL	5T3Q/CL	5W12V/Capsule
Q10T3/CL	10T3Q/CL	10W12V/Capsule
Q20T3/CL	20T3Q/CL/AX	20W12V/Capsule
Q35T3/CL	35TQ/CL/AX	35W12V/Capsule
Q50T4/CL	50T4Q/CL	50W12V/Capsule
Q75T4/CL	75T4Q/CL/RP	
HALOGEN SINGLE-ENDED		
Q100CL/DC	100Q/CL/DC	100Q/CL/DC
Q100CL/MC	100Q/CL/MC	100Q/CL
Q100DC	100Q/DC	—
Q150CL/DC/2V	150Q/CL/DC/1	—
Q150CL/DC	150Q/CL/DC	150Q/CL/DC
Q150CL/MC	150Q/CL/MC/2	150Q/CL
Q150CL/MC/2V	150Q/CL/MC	—
Q150DC	150Q/DC	150Q/DC
Q150MC	150Q/MC	150Q
Q250CL/DC	250Q/CL/DC	250Q/CL/DC
Q250CL/MC	250Q/CL/MC/2	250Q/CL
Q250DC	250Q/DC	—
Q250MC	250Q/MC	—
HALOGEN DOUBLE-ENDED		
Q100T3/CL/CD	100T3Q/CL	BC100T3Q/CL/TP
Q150T3/CL	150T3Q/CL	BC100T3Q/CL/TP
Q300T3/CL	300T3Q/CL	300T3Q/P/CL
Q500T3/CL	500T3Q/CL	500T3Q/P/CL

BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

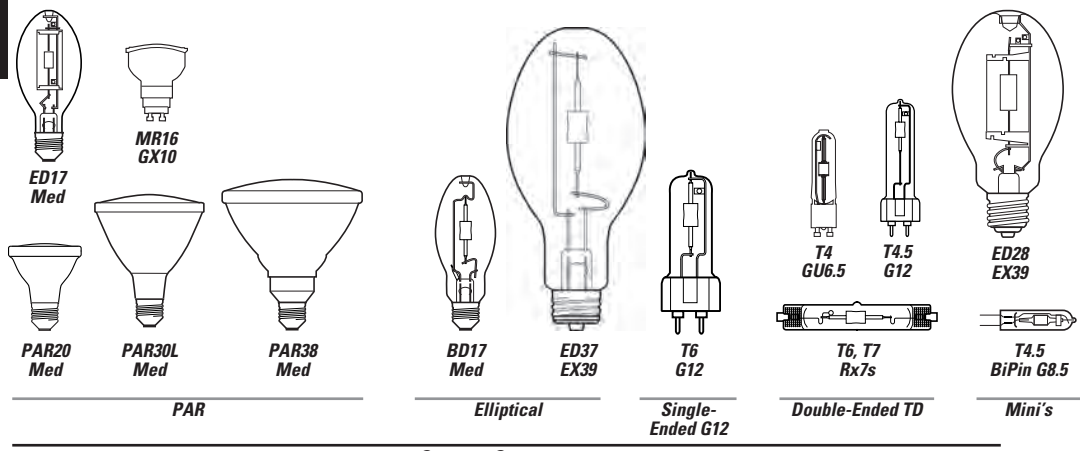
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

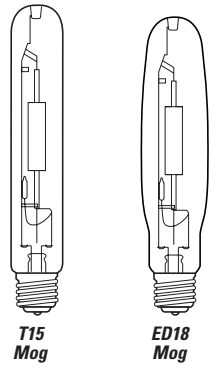
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

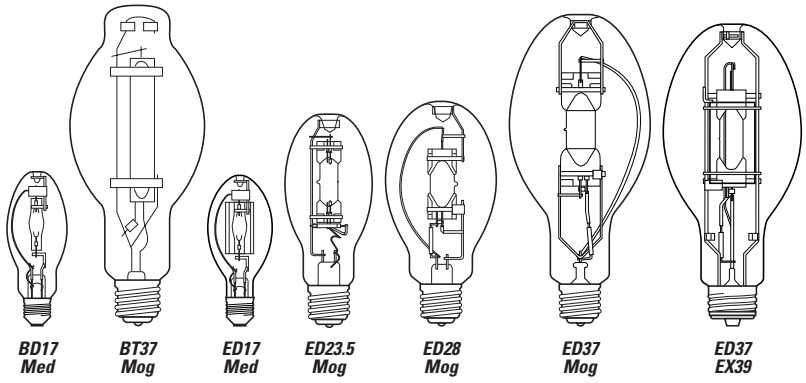
LAMP LOCATOR



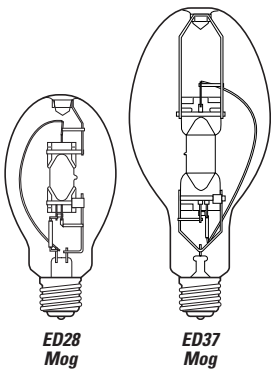
ConstantColor® CMH® Ceramic Metal Halide



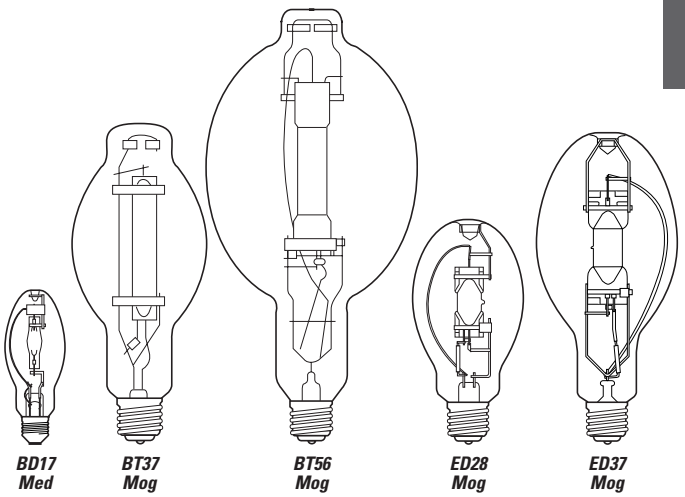
CMH® Chromafit™ Ceramic Metal Halide (HPS Retrofit Lamps)



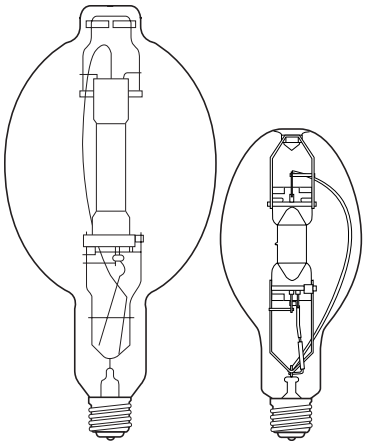
PulseArc® Multi-Vapor® Metal Halide Lamps



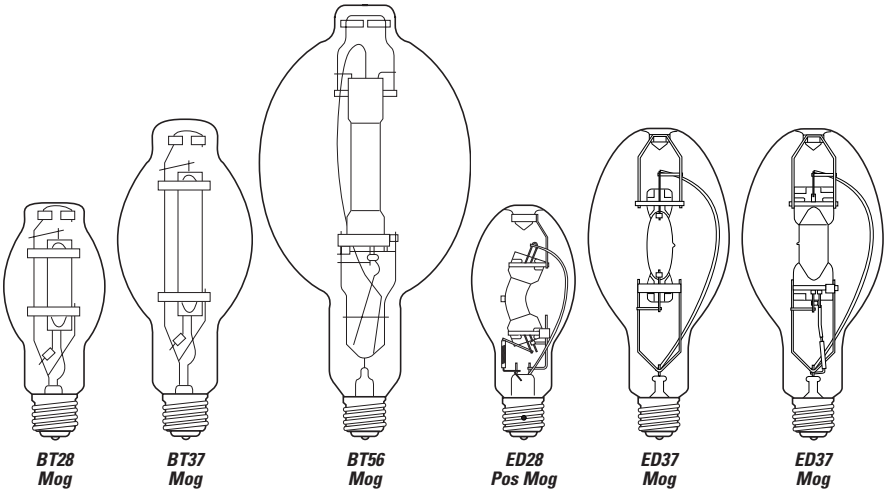
Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)



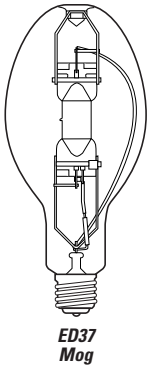
Multi-Vapor® Metal Halide Lamps



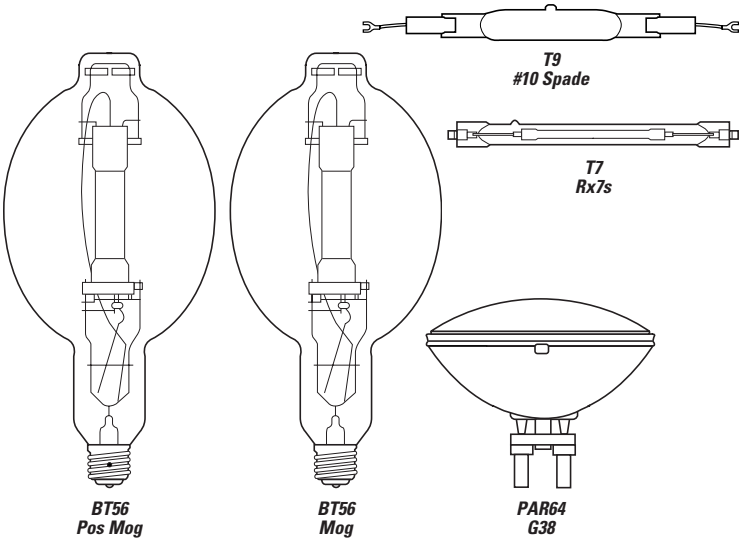
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps)



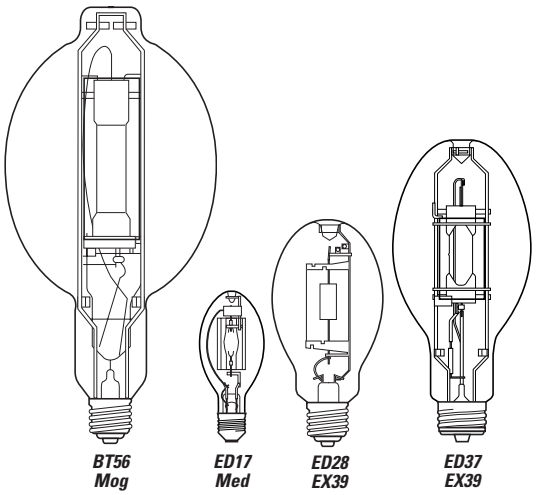
High Output and XHO Multi-Vapor® Metal Halide Lamps



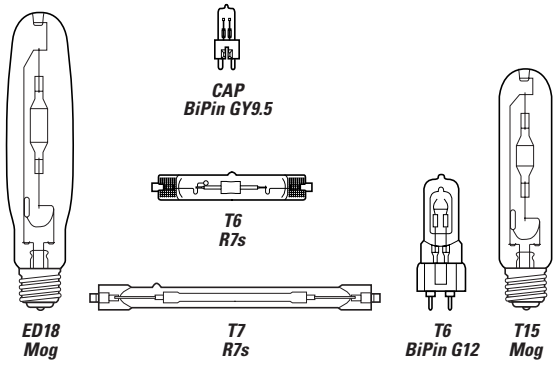
Saf-T-Gard® Self-Extinguishing Multi-Vapor® Lamps



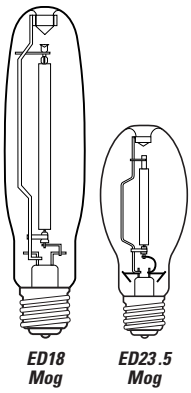
Sportslighting



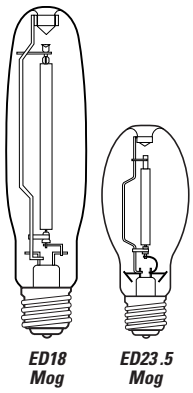
Protected Multi-Vapor® Metal Halide Lamps



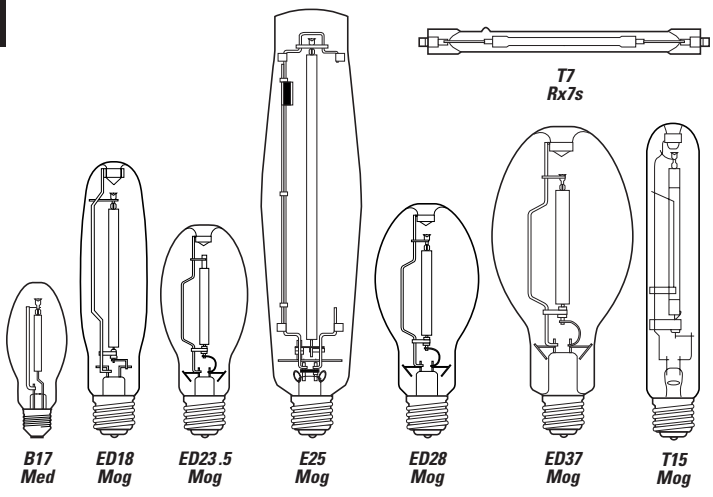
Arcstream® Metal Halide Lamps



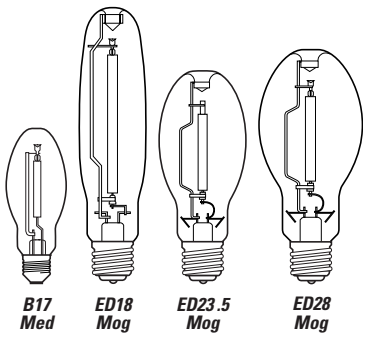
Ecolux® NC Non-Cycling High Pressure Sodium Lamps (TCLP Compliant)



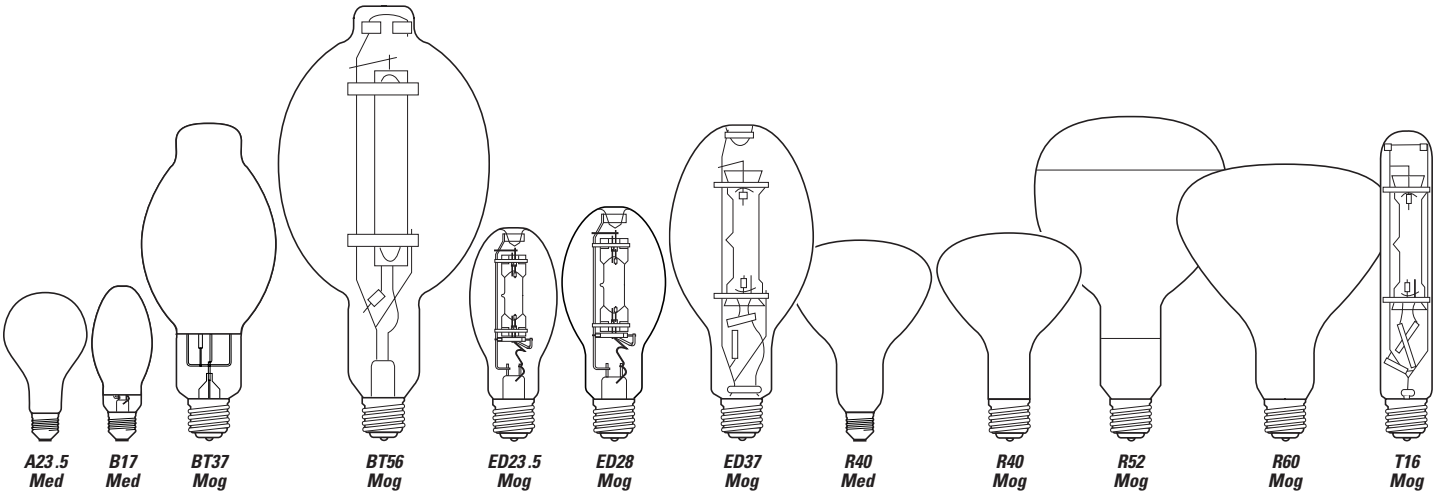
Ecolux® High Pressure Sodium Lamps (TCLP Compliant)



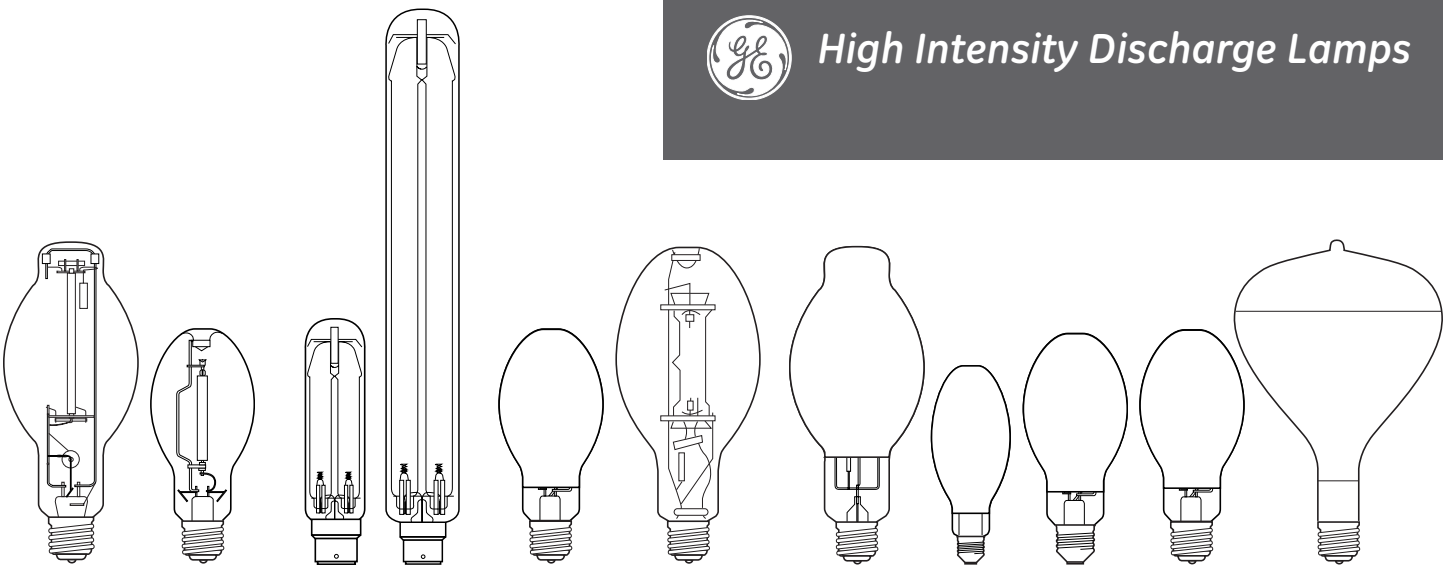
Lucalox® High Pressure Sodium Lamps



Deluxe Lucalox® High Pressure Sodium Lamps



Mercury Lamps



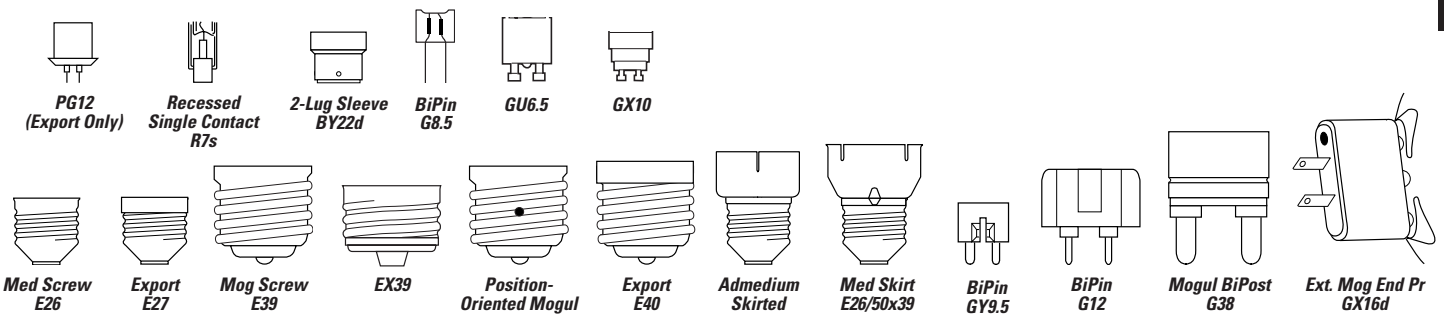
E-Z Lux® High Pressure Sodium Lamps (Mercury Retrofit)

SOX Low Pressure Sodium Lamps

Saf-T-Gard® Mercury Lamps

E-Z Merc® Self-Ballasted Lamps (Incandescent Retrofit)

BASE IDENTIFICATION



INTRODUCTION

GE HID lamps provide the following benefits:

High Efficacy/Low Operating Cost.
HID is generally the most efficient light source. Better efficiency almost always means lower operating cost.

Long Life.
Most HID lamps have life ratings that are better than incandescent lamps and similar to fluorescent lamps.

Compact Size.
An HID lamp produces high light output from a relatively compact source. Like incandescent, it is a "point" light source, which allows for good optical control.

The chart at right shows how HID lamps compare to incandescent, halogen, and fluorescent in terms of efficiency and rated life. Efficiency is measured in lumens per watt (LPW). Rated life for most lamp types is the number of burning hours when 50% of the tested samples have failed and 50% are still operational. For both HID and fluorescent, lamp life depends on the number of hours per start.

The combination of high efficiency and long life makes HID an ideal light source for many commercial and industrial applications.

SUGGESTED COLOR APPLICATIONS FOR HID LAMPS

CMH®: Stores, people places, display, accent.

MVR: Stores, public spaces, industrial, gymnasiums, floodlighting signs and buildings, parking areas, sports.

MVR/C: Same as MVR – warmer color – diffuse coating reduces glare.

Typical Lamp Characteristics

Lamp Type	*Typical LPW*	*Rated Life (in hours)*
Incandescent	5 - 22	750 - 2000
Halogen	12 - 36	2000 - 6000
Compact Fluorescent	27 - 80	9000 - 20,000
Fluorescent	75 - 100	12,000 - 24,000 +
Mercury	50 - 60	12,000 - 24,000 +
ConstantColor® CMH®	80 - 95	7,500 - 20,000
Multi-Vapor® Metal Halide	80 - 115	10,000 - 20,000
Lucalox® High Pressure Sodium	90 - 140	10,000 - 40,000

MVR/SP30: Same as MVR – warmer than MVR or MVR/C – matches SP30 fluorescent.

MXR: Warm color (3200K) – good match for halogen.

LU: Street lighting, parking areas, industrial, floodlighting, security, CCTV.

LU/DX: Floodlighting, parking areas, indoor/outdoor pedestrian malls, industrial, security, roadway.

Deluxe (DX) Mercury: Stores, public spaces – Metal Halide lamps however, are preferred.

Clear Mercury: Landscape lighting, specialized floodlighting such as green copper roofs.

PRODUCT INFORMATION

GE CONSTANTCOLOR® CMH® CERAMIC METAL HALIDE LAMPS (pgs 3-9 to 3-11)

- Color uniformity lamp-to-lamp and over lamp life
- Excellent color rendering (80+ CRI, 90+ CRI for SPXX versions)
- Delivers more light than standard metal halide (10%–20% more)
- Lamp operates at high efficacy — up to 95 lumens per watt
- Many are universal burn — may be operated in any position
- Perfect for retail and commercial display lighting, accent and floodlighting, lobby and foyer lighting. Ideal for "people places."

GE CMH® CHROMAFIT™ CERAMIC METAL HALIDE LAMPS (pg 3-11)

- Convert High Pressure Sodium sockets to crisp, white ceramic metal halide light (80+ CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Universal burn – may be operated in any position
- Uses: Area lighting, industrial and "people places"
- Enclosed glass fixtures only

GE PULSEARC® MEDIUM BASED METAL HALIDE LAMPS (/MED MODELS) (pgs 3-11 to 3-13)

- Low wattage metal halide lamps (formerly Halarc®) are now part of the PulseArc® family
- Compact source
- Sparkling white light (3000-4000K) and very good color rendition (70-75 CRI)
- High efficacy – more than 3 times the lumens per watt of incandescent
- Long life – up to 15 times longer than incandescent systems and up to 7 times longer than most PAR and R systems, saving maintenance and labor costs
- Superior optical control
- Uses: Display lighting, downlighting, floodlighting, corridors, lobbies, walkways; retail, office, commercial

GE PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (/PA MODELS) (pgs 3-11 to 3-13)

- Designed for operation only on approved ballasts with metal halide pulse ignitors
- More light – 400W lamps provide highest initial and highest maintained lumens versus other standard universal or vertical base-up lamp options
- 50% longer life – 400W lamps provide 30,000 hours life when burned on 120 hour on/1 hour off cycle (approximately continuous)
- Faster hot restrike – less than 4 minutes versus 10-15 minutes for typical metal halide lamps

GE MULTI-VAPOR® METAL HALIDE LAMPS (pgs 3-13 to 3-14)

- Sparkling white light (3000-4000K) and very good color rendition (65-75 CRI)
- Warm, rich 3000K color of SP30 blends well with incandescent, halogen and triphosphor fluorescent lamps for interior retail applications
- High efficacy – more efficient than incandescent, mercury and most fluorescent sources
- Long life – 10,000-20,000 hours for most types
- Full line, 150-1000 watts, to meet most application needs
- Uses: Downlighting, floodlighting, corridors, lobbies, walkways; retail, commercial, industrial

GE HIGH OUTPUT MULTI-VAPOR® LAMPS (pgs 3-14)

- More light – optimized for higher light output in horizontal, vertical base-up and base-down burn applications
  - Horizontal burn lamps provide up to 25% more light than standard universal burn equivalents
  - 400W vertical burn lamps provide up to 22% more light than standard universal burn equivalents; the highest lumen lamps available for operation on standard M59 ballasts
- Longer life – horizontal burn lamps last up to 67% longer than universal burn lamp equivalents, significantly reducing replacement lamp and maintenance costs

GE STAYBRIGHT® (/STB) LAMPS (pg 3-14)

- Brighter longer – has 32% higher mean lumens while running on standard metal halide ballasts
- Uses: Any application where fixed-orientation lamps can be used. Gas stations, sports lighting, billboards, retail, office, roadway, parking garages, floodlights, sign lighting.

GE PROTECTED HIGH OUTPUT MULTI-VAPOR® LAMPS (/O) (pgs 3-14 to 3-16)

- Protective quartz jacket surrounds the arc tube
- The/O suffix and/or the "MPR" prefix in the Lamp Description indicates lamps are suitable for open fixture applications

GE CHROMAFIT™ MULTI-VAPOR® LAMPS (/R) (pg 3-16)

- Convert high pressure sodium sockets to crisp white metal halide light (65-70 CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Uses: Area lighting, industrial and "people places"

GE I-LINE MULTI-VAPOR® LAMPS (pgs 3-16)

- Convert mercury sockets to crisp, white metal halide light
- More light, better color, energy cost savings for mercury users
- 40%-100% more light than existing mercury lamps
- Operate on standard CW and CWA mercury ballasts and auxiliary equipment

PRODUCT INFORMATION (CONTINUED)

GE SAF-T-GARD® MULTI-VAPOR LAMPS (MVT) (pg 3-16)

- Special self-extinguishing feature prevents exposure to UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21CFR1040.30
- Saf-T-Gard® I-Line lamps convert mercury sockets to crisp, white metal halide light
- Saf-T-Gard® I-Line lamps operate on standard mercury ballasts and auxiliary equipment
- Uses: Industrial, commercial, gymnasiums, sports complexes, especially where open fixtures are used and risk of outer bulb breakage is possible

GE ARCSTREAM® METAL HALIDE LAMPS (pgs 3-16 to 3-17)

- Compact size, white light, excellent color
- Precise optical control delivers a concentrated beam of light right where it's needed
- Variety of color temperatures (3,000K - 6,000K)
- PAR64: ideal for long-range projection and sports lighting applications
- Uses: Ideal for retail and commercial display lighting, floodlighting, accent/highlighting

GE LUCALOX® HIGH PRESSURE SODIUM LAMPS (pgs 3-17 to 3-18)

- Very high efficacy/low operating cost
- Excellent lumen maintenance – over 90% @ 50% of life
- Very long life – 24,000+ hours
- Universal burn – can be operated in any position without affecting performance
- Warm color
- For open or enclosed fixtures
- Uses: Industrial, roadway, security, floodlighting

GE DOUBLE-ENDED LUCALOX® LAMPS (/TD) (pg 3-18)

- Compact tubular design fits compact fixtures for excellent optical control
- High efficacy, lumen maintenance and long life of standard Lucalox® HPS

GE STANDBY LONGLIFE LUCALOX® LAMPS (/SBY) (pg 3-18)

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes
- Dual arc tubes provide 40,000 hour rated life
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Industrial, roadway, security, and hard-to-reach sockets

GE ECOLUX® NC "NON-CYCLING" HIGH PRESSURE SODIUM LAMPS (/ECO/NC) (pgs 3-18 to 3-19)

- Low mercury. Passes TCLP, which can lower disposal costs.
- Non-cycling feature makes locating and replacing end-of-life lamps quick and easy
- Lead-free base
- High efficacy/low operating cost
- 6%-11% higher initial lumens than standard HPS in 100W and 400W versions
- Long life - 30,000 hours
- Open or enclosed fixtures
- Uses: Industrial, roadway, security

GE ECOLUX® HIGH PRESSURE SODIUM LAMPS (/ECO) (pg 3-19)

- Lead-free base. Passes TCLP, which can lower disposal costs.

GE DELUXE LUCALOX® HIGH PRESSURE SODIUM LAMPS (pg 3-19)

- High efficacy, lumen maintenance and long life of standard Lucalox® HPS
- High color rendering (65-70CRI), much better than standard HPS
- Blends well with incandescent and standard HPS sources
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Storage rooms, industrial facilities, offices, gymnasiums, malls, parks, building floodlighting

GE E-Z LUX® HIGH PRESSURE SODIUM LAMPS (pg 3-19)

- Direct replacement for mercury lamps on mercury ballasts
- More efficient, 57-114% more lumens and 10-14% fewer watts than mercury lamps they replace
- Uses: General lighting, roadway
- See operating notes for further information

GE SOX LOW PRESSURE SODIUM LAMPS (pg 3-19 to 3-20)

- Highest luminous efficacy for general, not for color-critical lighting
- Monochromatic, yellow color (589nm)

GE MERCURY LAMPS (pgs 3-20)

- Long life and good efficacy
- Phosphor coated Deluxe lamps provide good color rendering(50CRI)
- Uses: Industrial, roadway, landscapes, residential and commercial security, parking lots

GE SAF-T-GARD® MERCURY LAMPS (pg 3-21)

- Special self-extinguishing feature prevents exposure to harmful UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21 CFR 1040.30
- See operating notes for further information

GE E-Z MERC® SELF-BALLASTED MERCURY LAMPS (pg 3-21)

- Retrofit incandescent sockets to longer-life mercury lamps without additional mercury ballasts or auxiliary equipment

GE EXPORT BASE LAMPS (pg 3-21 and 3-22)

- Export-only lamps are not sold or intended for use in North America. The lamps are identified by "/27" or "/40" at the end of the lamp description, and comply with electrical characteristics defined by IEC standards.
- Bulb shapes are generally similar to U.S. lamp types. Refer to drawings on pages 3-2 to 3-5.

HID BRAND NAME CROSS-REFERENCE

GE	OSRAM/SYLVANIA	PHILIPS
Arcstream® MQI	BRITE-LINE™, HQI®	MHN-TD
ChromaFit™ Multi-Vapor®	—	—
ConstantColor® CMH® Ceramic Metal Halide	Powerball MCP	MasterColor™ CDM
Deluxe Lucalox®	—	Ceramalux™ Comfort
E-Z Lux®	Unalux®	Ceramalux™ Retrolux
E-Z Merc®	—	Self Ballasted Mercury
Ecolux®	Lumalux ECO®	Ceramalux Alto®
Ecolux® NC	Lumalux Plus™/ECO®	Ceramalux Alto® Plus
High Output Multi-Vapor®	Super Metalarc®	Metal Halide
Horizontal Multi-Vapor®	Super Metalarc®	—
I-Line Multi-Vapor®	—	—
Lucalox®	Lumalux®	Ceramalux™
Multi-Vapor®	Metalarc®	Metal Halide
Protected High Output Multi-Vapor®	Metalarc® Pro-Tech™	—
PulseArc®	Super Metalarc® Pulse Start	Pulse Start
Saf-T-Gard® Mercury	Mercury Safeline®	Safety Lifeguard Mercury
Saf-T-Gard® Multi-Vapor®	Metalarc® Safeline®	Safety Lifeguard Metal Halide
SOX Low Pressure Sodium	SOX Low Pressure Sodium	SOX Low Pressure Sodium
Standby Longlife Lucalox®	Lumalux® Standby	Instant Restrike Ceramalux™
StayBright®	—	—
Watt-Miser® Multi-Vapor®	—	—

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking High Intensity Discharge lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these wattage groups, lamps are listed by bulb shape.

Bulb:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

LET (Lamp Enclosure Type):
Describes fixture requirements for this lamp (see page 3-22).

OP (Operating Position):
(see page 3-23).

MOL:
Maximum Overall Length in inches.

Base:
The type of base.

LCL:
Distance between the center of the filament and the Light Center Length reference plane, in inches.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description:
The lamp's identification code.

CBCP (Center Beam Candlepower):
For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. Used only for ConstantColor® CMH™ Metal Halide Lamps.

Case Qty.:
Number of product units packed in a case.

ANSI Ballast Type:
Ballast type used to operate lamp.

Lumens - Mean:
Lamp light output (lumens) at 40% of rated lamp life for Metal Halide lamps and 50% of rated life for Mercury and HPS lamps.

Lumens - Initial:
Initial light output.

Rated Life Hours:
Lamp burning hours to median life expectancy.

Color Temperature Kelvins (K):
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.

Color Rendering Index (CRI or R_a):
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Additional Information:
Typical application and/or other important information.

Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	Color Temp. CRI	Additional Information	Foot-notes	Warning
HIGH OUTPUT AND XHO MULTI-VAPOR® METAL HALIDE LAMPS																			
400 WATTS																			
ED37	Mog	S	VBU	400	11.5	7	49656	MVR400/C/VBU	M59	6		20000	41000	26500	3700	70	Coated		121

MVR400 / C / VBU

- MVR400 — *Identifies as Multi-Vapor® lamp.*
- C — *Identifies the lamp's wattage.*
- V — *Outer bulb finish.*
- BU — *Operating position (see page 3-23)*

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using illustrations on pages 3-2 to 3-5.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 3-5.
4. Find your lamp in the tabular data containing the bulb shape, size and base, which are all listed by wattage.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. Reduced Wattage High Color Rendering.

Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
CONSTANTCOLOR® CMH® METAL HALIDE LAMPS																			
CMH® MR16																			
MR1620	GX10T&L	O	U	20	2.28		**85101**	**CMH20MR16/830/SP**	M156	9000	9000	1000		3000	80	12 Spotlight, UV control	33, 51	107
							85110	**CMH20MR16/830/FL**	M156	2900	9000	1000		3000	80	25 Floodlight, UV control	33, 51	107
							97630	**CMH20MR16/830/WFL**	M156	1500	9000	1000		3000	80	40 Wideflood, UV Control	33, 51	107
CMH® PAR																			
PAR20	Med	O	U	20	3.5		**29485**	**CMH20PAR20/SP**	M156	15	13000	7500	1000	3000	81	8 Spotlight, UV control	33, 51	107
							29486	**CMH20PAR20/FL**	M156	15	3750	7500	1000	3000	81	25 Floodlight, UV control	33, 51	107
PAR30L	Med	O	U	20	4.75		**29487**	**CMH20PAR30/SP10**	M156	6	19800	7500	1200	3000	81	10 Spotlight, UV control	33, 51	107
							29488	**CMH20PAR30/SP15**	M156	6	14500	7500	1200	3000	81	15 Spotlight, UV control	33, 51	107
							29489	**CMH20PAR30/FL25**	M156	6	4900	7500	1200	3000	81	25 Floodlight, UV control	33, 51	107
PAR20	Med	O	U	39	3.5		**42068**	**CMH39/UPAR20/FL25**	M130	15	7500	10000	2100	3000	86	25 Floodlight, UV control	33,45	107
							42069	**CMH39/UPAR20/SP10**	M130	15	22000	10000	2100	3000	86	10 Spotlight, UV control	33,45	107
PAR30L	Med	O	U	39	4.75		**42066**	**CMH39/PAR30L/SP15**	M130	6	29000	10000	2400	3000	81	15 Spotlight, UV control	33,45	107
							42067	**CMH39/PAR30L/FL25**	M130	6	11000	10000	2400	3000	81	25 Floodlight, UV control	33,45	107
							45066	**CMH39/PAR30L/SP10**	M130	6	39600	10000	2400	3000	81	10 Spotlight, UV control	33,45	107
				70	4.75		**22152**	**CMH70/PAR30L/830SP**	M98 or M139	6	43000	13000	4700	3000	82	15 Spotlight, UV control	33,45	107
							22159	**CMH70/PAR30L/830FL**	M98 or M139	6	10000	13000	4700	3000	82	40 Floodlight, UV control	33,45	107
PAR38	Med	O	U	70	5.31		**45675**	**CMH70/PAR38/830SP15/ECO**	M98 or M139	6	40000	10000	4800	3000	82	15 Spotlight, UV control	33	108
							45677	**CMH70/PAR38/830FL25/ECO**	M98 or M139	6	14000	10000	4800	3000	82	25 Spotlight, UV control	33	108
							45679	**CMH70/PAR38/830WF/ECO**	M98 or M139	6		10000	4800	3000	82	Wide Floodlight, UV control	33	108
				100	5.31		**45680**	**CMH100/PAR38/830S15/ECO**	M90 or M140	6	45000	10000	6500	3000	81	15 Spotlight, UV control	33	108
							45681	**CMH100/PAR38/830F25/ECO**	M90 or M140	6	15000	10000	6500	3000	81	25 Spotlight, UV control	33	108
							45682	**CMH100/PAR38/830W/ECO**	M90 or M140	6		10000	6500	3000	81	Wide Floodlight, UV control	33	108
CMH® ELLIPTICAL																			
BD17	Med	E	U	70	5.43	3.37	**22119**	**CMH70/U/830/MED**	M98 or M139	6		15000	6300	4100	3000	80	Clear	33	116
							22124	**CMH70/C/U/830/MED**	M98 or M139	6		15000	6000	4000	3000	80	Coated	33	116
				100	5.43	3.37	**22127**	**CMH100/U/830/MED**	M90 or M140	6		10000V 15000H	6600V 9200H	9200V 6400H	3000	83	Clear	33	116
							22137	**CMH100/C/U830/MED**	M90 or M140	6		10000V 15000H	8700V 8700H	6300V 6300H	3000	83	Coated	33	116
CMH® ELLIPTICAL OPEN-RATED																			
ED17	Med	O	U	70		3.37	**31069**	**CMH70/U/830/MED/O**	M98 or M143	6		15000	5700	4100	3000	80	Clear	33	116
							31070	**CMH70/C/U/830/MED/O**	M98 or M143	6		15000	5700	4100	3000	80	Coated	33	116
							31073	**CMH70/U/942/MED/O**	M98 or M143	6		15000	5500	4200	4000	90	Clear	33	116
							31074	**CMH70/C/U/942/MED/O**	M98 or M143	6		15000	5200	4000	4000	90	Coated	33	116
				150		3.37	**31065**	**CMH150/U/830/MED/O**	M102 or M142	6		12000	12900	9500	3000	80	Clear	33	116

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CONSTANTCOLOR® CMH® METAL HALIDE LAMPS (CONTINUED)																			
CMH® ELLIPTICAL OPEN-RATED (CONTINUED)																			
ED17	Med	O	U	150		3.37	**31066**	**CMH150/C/U830/MED/O**	M102 or 6 M142			12000	11900	8800	3000	80	Coated	33	
							31067	**CMH150/U/942/MED/O**	M102 or 6 M142			15000	12000	9000	4200	90	Clear	33	
							31068	**CMH150/C/U/942/MED/O**	M102 or 6 M142			15000	11000	8300	4200	90	Coated	33	
CMH® SINGLE ENDED G12																			
T4.5	BiPin G12	E	U	20	3.56	2.18	**29703**	**CMH20/T/U/830/G12**	M156	12		12000	1600	1060	3000	81	UV Control	33,39,51	104
							20153	**CMH39/T/U/830/G12**	M130	12		10000	3400	2600	3000	82	UV Control	39,44,45	104
							29696	**CMH39/T/U/942/G12**	M130	12		12000	3150	2700	4200	88	UV Control	39,44,45	104
T6	BiPin G12	E	U	70	3.56	2.18	**20016**	**CMH70/T/U/830/G12**	M85, M98, or M139	12		15000	6200	4700	3000	83	UV Control	39,44,45	104
							20023	**CMH70/T/U/942/G12**	M85, M98, or M139	12		15000	6000	4600	4200	93	UV Control	39,44,45	104
				150	3.93	2.18	**20017**	**CMH150/T/U/830/G12**	M81, M102, or M142	12		12000	14000	11000	3000	82	UV Control	39,44,45	104
							20018	**CMH150/T/U/942/G12**	M81, 12 M102, or M142			12000	13000	11000	4200	94	UV Control	39,44,45	104
CMH® DOUBLE-ENDED TD																			
T6	Rx7s	E	H45	70	4.5	2.25	**92587**	**CMH70/TD/830/RX7S**	M85, M98, or M139	12		15000	7000	5600	3000	81	UV Control	39,44	109
							92588	**CMH70/TD/942/RX7S**	M85, M98, or M139	12		15000	7000	5600	4200	88	UV Control	39,44	109
T7	Rx7s	E	H45	150	5.37	2.62	**92589**	**CMH150/TD/830/RX7S**	M81, M102, or M142	12		15000	14000	11500	3000	80	UV Control	39,44	109
							92590	**CMH150/TD/942/RX7S**	M81, M102, or M142	12		15000	14000	11500	4200	93	UV Control	39,44	109
CMH® GU6.5																			
T4	GU6.5	E	U	20	2.05	1.18	**85086**	**CMH20/TC/U/830/G6.5**	M156	12		9000	1615	1100	3000	80	UV Control	33,44,51	104
CMH® MINI'S																			
T4.5	BiPin G8.5	E	U	20	3.37	2	**92696**	**CMH20/TC/U/830/G8.5**	M156	12		12000	1600	1060	3000	81	UV Control	33,44,51	104
							90352	**CMH39/TC/U/830/G8.5**	M130	12		10000	3400	2600	3000	82	UV Control	39,44,45	104
							29698	**CMH39/TC/U/942/G8.5**	M130	12		12000	3150	2700	4200	88	UV Control	39,44,45	104
							92585	**CMH70/TC/U/830/G8.5**	M98 or M139	12		9000	6200	4700	3000	83	UV Control	39,44,45	104
							29701	**CMH70/TC/U/942/G8.5**	M98 or M139	12		15000	6000	4600	4200	90	UV Control	39,44,45	104
HIGH-WATT CMH® SPXX																			
ED28	EX39	O	VBU	250	8.31	5	**48429**	**CMH250/VBU/PA/O**		12		20000	23000	18400	4100	90		33,45,52	106
							48432	**CMH250/C/VBU/PA/O**		12		20000	22000	17600	4100	90		33,45,52	106
ED37	EX39	O	VBU	320	11.31	7	**17264**	**CMH320/PA/O**		6		20000	30000	24000	3700	90		33,45,52	106
							17267	**CMH320/C/PA/O**		6		20000	29000	23200	3700	90		33,45,52	106
				350	11.31	7	**11834**	**CMH350/VBU/940/PA/O**		6		20000	34000	27200	3600	90		33,45,52	106
							11835	**CMH350/C/VBU/940/PA/O**		6		20000	33000	26400	3600	90		33,45,52	106
				400	11.31	7	**49910**	**CMH400/VBU/940/PA/O**		6		20000	40000	32000	3700	92		33,45,49,52	106
							49911	**CMH400/C/VBU/940/PA/O**		6		20000	39000	31200	3700	92		33,45,49,52	106

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CONSTANTCOLOR® CMH® METAL HALIDE LAMPS (CONTINUED)																			
CMH® CHROMAFIT™																			
T15	Mog	E	U	250	9.75	5.75	**93357**	**CMH250/U/830/R**	S50	12		16000	25000	20000	3000	85		44,45	105
ED18	Mog	E	U	400	9.75	5.75	**93295**	**CMH400/U/830/R**	S51	12		20000	41000	31300	3000H 3600V	80>		44,45,49	105
PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS																			
32 WATTS																			
ED17	Med	O	VBD	32	5.43	3.43	**12651**	**MXR32/C/VBD/O**	M100	6		10000	2400	1700	3200	70	Coated, protected		119
							16469	**MXR32/C/VBU/O**	M100	6		10000	2400	1700	3200	70	Coated, protected		119
50 WATTS																			
ED17	Med	O	U	50	5.43	3.43	**45670**	**MXR50/U/MED/O**	M110	6		10000	3400	1700	3500	70	Clear, protected		119
							45671	**MXR50/C/U/MED/O**	M110	6		10000	3200	1500	3500	70	Coated, protected		119
							10361	**MXR50/U/MED**	M110	6		10000	3200	2100	3700	60	Clear		118
							10364	**MXR50/C/U/MED**	M110	6		10000	3000	2000	3400	65	Coated		118
70 WATTS																			
ED17	Med	O	U	70	5.43	3.43	**12377**	**MXR70/U/MED/O**	M98	6		15000	5500	3500	3200	70	Clear, protected		119
							12577	**MXR70/C/U/MED/O**	M98	6		15000	5300	3300	3200	70	Coated, protected		119
							22158	**MXR70/U/MED**	M98	6		12000	5500	3500	3200	70	Clear		118
							22162	**MXR70/C/U/MED**	M98	6		12000	5300	3300	3200	70	Coated		118
							12590	**MVR70/U/MED**	M98	6		12000	4700	3000	4000	75	Clear		118
							12594	**MVR70/C/U/MED**	M98	6		12000	4500	2800	4000	75	Coated		118
100 WATTS																			
ED17	Med	O	U	100	5.43	3.43	**12381**	**MXR100/U/MED/O**	M90	6		15000	9000	6200	3200	70	Clear, protected		119
							12579	**MXR100/C/U/MED/O**	M90	6		15000	8500	5900	3200	70	Coated, protected		119
							18680	**MXR100/U/MED**	M90	6		15000	9000	6200	3200	70	Clear		118
							18679	**MXR100/C/U/MED**	M90	6		15000	8500	5900	3200	70	Coated		118
							12652	**MVR100/U/MED**	M90	6		15000	8100	5800	4000	75	Clear		118
							12653	**MVR100/C/U/MED**	M90	6		15000	7600	4900	4000	75	Coated		118
150 WATTS																			
ED17	Med	O	U	150	5.43	3.43	**45683**	**MXR150/U/MED/O**	M102	6		15000	12500	8600	3500	70	Clear, protected		119
							45688	**MXR150/C/U/MED/O**	M102	6		15000	12000	8300	3500	70	Coated, protected		119
							22935	**MXR150/U/MED**	M102	6		15000	13300	10000	3400	60	Clear		118
							22936	**MXR150/C/U/MED**	M102	6		15000	12600	9500	3100	60	Coated		118
							12598	**MVR150/U/MED**	M102	6		15000	14000	10500	4300	65	Clear		118
							12604	**MVR150/C/U/MED**	M102	6		15000	13300	10000	3900	70	Coated		118
175 WATTS																			
ED23.5	Mog	E	VBU	175	7.5	5	**22342**	**MXR175/VBU/PA**	M137 or M152	6		15000	17000	12500	3200	65	Clear	43	117
							11185	**MXR175/C/VBU/PA**	M137 or M152	6		15000	16000	12000	3200	65	Coated	43	117
							12622	**MVR175/VBU/PA**	M137 or M152	6		15000	17500	13000	4000	75	Clear	43	117
							12633	**MVR175/C/VBU/PA**	M137 or M152	6		15000	16500	12500	4000	75	Coated	43	117
BD17	Med	E	VBU	175	5.75	3.43	**12636**	**MVR175/VBU/MED/PA**	M137 or M152	6		15000	17500	13000	4000	75	Clear	43	117
							12637	**MVR175/C/VBU/MED/PA**	M137 or M152	6		15000	16500	12500	4000	75	Coated	43	117

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PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED)																			
250 WATTS																			
ED28	Mog	E	VBU	250	8.25	5	**26317**	**MVR250/VBU/PA**	M138 or`12 M153			15000	23000	17000	4200	65	Clear	43	117
							26319	**MVR250/C/VBU/PA**	M138 or 12 M153			15000	21500	15500	3900	65	Coated	43	117
320 WATTS																			
ED28	Mog	E	VBU	320	8.25	5	**27501**	**MVR320/VBU/HO/PA**	M132 or 12 M154			20000	31000	18000	4000	65	Clear	43	117
							27502	**MVR320/C/VBU/HO/PA**	M132 or 12 M154			20000	30000	16500	3700	70	Coated	43	117
							45666	**MVR320/VBU/XHO/PA**	M132 or 12 M154			20000	34000	25000	4000	65	Clear	43	116
							45669	**MVR320/C/VBU/XHO/PA**	M132 or 12 M154			20000	33000	23000	3700	70	Coated	43	116
ED37	EX39	O	VBU	320	11.5	7	**46275**	**MPR320/VBU/XHO/PA**	M132 or6 M154			20000	32000	22500	4000	65	Clear, protected	43	120
							46276	**MPR320/C/VBU/XHO/PA**	M132 or 6 M154			20000	30500	21500	3700	70	Coated, protected	43	120
ED 28	EX39	O	VBU	320	8.25	5	**19609**	**MPR320/C/PA/ED28**	M132 or 12 M154			20000	30600	24500	3700	70	Coated, protected	43	120
350 WATTS																			
ED37	Mog	S	V	350	11.5	7	**40376**	**MVR350/VBUXHO/PA**	M131	6		20000	36500	27000	4000	62	Clear	43	117
							40377	**MVR350/CVBUXHOPA**	M131	6		20000	34500	25000	3700	65	Coated	43	117
							10202	**MPR350/VBU/PA**	M131	6		20000	35200	24600	4000	65	Clear, protected	43	120
							48824	**MPR350/C/VBU/PA**	M131	6		20000	33400	23500	4000	70	Coated, protected	43	120
							48825	**MPR350/C/VBU/3K/PA**	M131	6		20000	33400	23500	3400	70	Coated, protected	43	120
400 WATTS																			
ED37	Mog	S	VBU	400	11.5	7	**45664**	**MVR400/VBU/HO/PA**	M135 or 6 M155			20000	41000	31000	4000	65	Clear	43, 49	121
							45665	**MVR400C/VBU/HO/PA**	M135 or 6 M155			20000	40000	30000	3700	70	Coated	43, 49	121
							12642	**MVR400/VBU/XHO/PA**	M135 or 6 M155			20000	44000	33000	4000	65	Clear	43, 49	121
							12644	**MVR400/C/VBU/XHO/PA**	M135 or 6 M155			20000	42000	31500	3700	70	Coated	43, 49	121
ED37	EX39	O	VBU	400	11.5	7	**46273**	**MPR400/VBU/XHO/PA**	M135 or 6 M155			20000	42000	29500	4000	65	Clear, protected	43, 49	120
							46274	**MPR400/C/VBUXHO/PA**	M135 or 6 M155			20000	40000	28000	3700	70	Coated, protected	43, 49	120
ED28	Mog	E	VBU	400	8.25	5	**46271**	**MVR400/VBU/ED28/PA**	M135 or 12 M155			20000	44000	28500	4000	65	Clear	43, 49	120
							46272	**MVR400/C/VBU/ED28/PA**	M135 or 12 M155			20000	42000	27500	3700	70	Coated	43, 49	116
ED37	Mog	E	V	400	11.5	7	**46632**	**MVR400VBD/XHO/PA**	M135 or 6 M155			20000	44000	35200	4000	65		43, 49	116

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PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED)																			
750 WATTS																			
BT37	Mog	S	VBU	750	11.5	7	**27219**	**MVR750/VBU/PA**	M149	6		16000	82000	60000	4000	65	Clear	43, 49	121
							45560	**MVR750/C/VBU/PA**	M149	6		16000	72000	54000	3700	70	Coated	43, 49	121
1000 WATTS																			
BT37	Mog	E	U	1000	11.3	7	**10389**	**MVR1000/U/BT37/PA**	M141	6		12000V 9000H	115000V 105000H	90000V 82000H	3900	65	Clear	43, 49	116
MULTI-VAPOR® METAL HALIDE LAMPS																			
150 WATTS																			
ED28	Mog	E	U	150	8.25	5	**13481**	**MVR150/U/WM**	M57	12		7500H 10000V	13500V 11500H	8500V 7200H	4000	65	Clear, Watt-Miser® ®		117
							13490	**MVR150/C/U/WM**	M57	12		7500H 10000V	12800V 10900H	8000V 6900H	3700	70	Coated, Watt-Miser® ®		117
175 WATTS																			
BD17	Med	E	U	175	5.75	3.43	**18902**	**MVR175/U/MED**	M57	6		6000H 10000V	13600V 11700H	8800V 7400H	4000	65	Clear		117
							26432	**MVR175/U/MED/CP**	M57	4		6000H 10000V	13600V 11700H	8800V 7400H	4000	65	Clear, Consumer Pack		117
							19976	**MVR175/C/U/MED**	M57	6		6000H 10000V	12900V 11900H	8400V 7900H	3900	65	Coated		117
ED28	Mog	E	U	175	8.25	5	**47760**	**MVR175/U**	M57	12		6000H 10000V	13600V 11700H	8800V 7400H	4000	65	Clear		117
							26433	**MVR175/U/CP**	M57	4		6000H 10000V	13600V 11700H	8800V 7400H	4000	65	Clear, Consumer Pack		117
							47761	**MVR175/C/U**	M57	12		6000H 10000V	12900V 11900H	8400V 7900H	3900	70	Coated		117
							17634	**MVR175/SP30/U**	M57	12		6000H 10000V	12000V 10300H	7600V 6500H	3000	70	RE730 Phosphor Coating		117
PAR38	Med	E		175	5.62		**25218**	**MVR175/PAR38/FL/1**	M57	6	6500	7500V	12000V	7600V	3800	65	Clear, One-piece PAR		117
250 WATTS																			
ED28	Mog	E	U	250	8.25	5	**42729**	**MVR250/U**	M58	12		6000H 10000V	20800V 19100H	13500V 12400H	4200	65	Clear		117
				175	8.25	5	**26434**	**MVR250/U/CP**	M58	4		6000H 10000V	20800V 19100H	13500V 12400H	4200	65	Clear, Consumer Pack		117
				250	8.25	5	**42731**	**MVR250/C/U**	M58	12		6000H 10000V	19800V 18200H	13000V 11600H	3900	70	Coated		117
							17633	**MVR250/SP30/U**	M58	12		6000H 10000V	18000V 16600H	11500V 10600H	3000	70	RE730 Phosphor Coating		117
360 WATTS																			
ED37	Mog	S	VBU	360	11.5	7	**13495**	**MVR360/VBU/WM/HO**	M59	6		20000	36000	23500	4300	65	Clear, Watt-Miser® ®	32, 49	121
							13496	**MVR360/C/VBU/WM/HO**	M59	6		20000	35000	23000	4000	70	Coated, Watt-Miser® ®	32,49	121
400 WATTS																			
ED37	Mog	S	U	400	11.5	7	**43828**	**MVR400/U**	M59	6		15000H 20000V	36000V 33100H	23500V 22100H	4000	65	Clear	49	121
							26435	**MVR400/U/CP**	M59	4		15000H 20000V	36000V 33100H	23500V 22100H	4000	65	Clear, Consumer Pack	49	121
							43829	**MVR400/C/U**	M59	6		15000H 20000V	35000V 32200H	23000V 19300H	3700	70	Coated	49	121
							17632	**MVR400/SP30/U**	M59	6		15000H 20000V	31000V 28500H	18600V 17100H	3000	70	RE730 Phosphor Coating	49	121
ED28	Mog	E	U	400	8.25	5	**18904**	**MVR400/U/ED28**	M59	12		15000H 20000V	36000V 33100H	23500V 22100H	4000	65	Clear, Compact Bulb	49	117
							19979	**MVR400/C/U/ED28**	M59	12		15000H 20000V	35000V 32200H	23000V 19300H	4000	65	Coated, Compact Bulb	49	117

Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED)																			
1000 WATTS																			
BT56	Mog	S	U	1000	15.37	9.5	**41826**	**MVR1000/U**	M47	6		11000H 15000V	108000V 100280H	86000V 79000H	4000	65	Clear	49	121
							41827	**MVR1000/C/U**	M47	6		11000H 15000V	105000V 96600H	80000V 73000H	3700	65	Coated	49	121
BT37	Mog	E	U	1000	11.5	7	**18205**	**MVR1000/U/BT37**	M47	6		9000H 12000V	115000V 105000H	90000V 82000H	3700	65	Clear, Compact Bulb	49	121
HIGH OUTPUT AND XHO MULTI-VAPOR® METAL HALIDE LAMPS																			
175 WATTS																			
ED28	PosMog	E	HOR	175	8.25	5	**18104**	**MVR175/HOR**	M57	12		10000	15000	7700	4000	65	Clear, Position Oriented Socket Required		117
							18105	**MVR175/C/HOR**	M57	12		10000	14100	7500	3500	70	Coated, Position Oriented Socket Required		117
250 WATTS																			
ED28	PosMog	E	HOR	250	8.25	5	**18101**	**MVR250/HOR**	M58	12		15000	21000	10000	4200	65	Clear, Position Oriented Socket Required		117
							18103	**MVR250/C/HOR**	M58	12		15000	19700	9400	3600	70	Coated, Position Oriented Socket Required		117
360 WATTS - WATT-MISER® ENERGY-SAVING REPLACEMENT FOR 400W METAL HALIDE																			
ED37	Mog	S	VBU	360	11.5	7	**40053**	**MVR360/VBU/WM/XHO**	M59	6		20000	37000	24000	4200	65	↯ Clear, Watt-Miser®®	32,49	121
							40055	**MVR360/C/VBU/WM/XHO**	M59	6		20000	35000	23000	4000	70	↯ Coated, Watt-Miser®®	32,49	121
							47685	**MVR360/VBU/STB/WM**	M59	6		20000	36000	27000	4300	65	↯ Clear, Watt-Miser®®	32,49	121
																	StayBright®®		121
							47686	**MVR360/C/VBU/STB/WM**	M59	6		20000	35000	26000	4000	70	↯ Coated, Watt-Miser®®	32,49	121
																	StayBright®®		
400 WATTS																			
ED37	Mog	S	VBU	400	11.5	7	**26865**	**MVR400/VBU/STB/HO**	M59	6		20000	41000	31000	4000	65	Clear, StayBright®®	49	121
							26866	**MVR400/CVBU/STB/HO**	M59	6		20000	41000	29500	3700	70	Coated, StayBright®®	49	121
							49657	**MVR400/VBU/HO**	M59	6		20000	41000	26500	4000	65	Clear	49	121
							49656	**MVR400/C/VBU/HO**	M59	6		20000	41000	26500	3700	70	Coated	49	121
							49655	**MVR400/VBD**	M59	6		20000	41000	26500	4000	65	Clear	49	121
							20931	**MVR400/SP30/VBU/HO**	M59	6		20000	34000	20400	3200	70	RE730 Phosphor Coating, Vertical Base Up ±15&	49	121
							13923	**MVR400/VBU/XHO**	M59	6		20000	43000	28000	4000	65	Clear	49	121
							13924	**MVR400/C/VBU/XHO**	M59	6		20000	42000	27000	3700	70	Coated	49	121
ED28	Mog	E	VBU	400	8.31	7	**40335**	**MVR400/VBU/ED28/HO**	M59	12		20000	41000	26500	4000	65	Clear, Compact Bulb	49	121
BT28	Mog	E	HOR	400	8.25	5	**40201**	**MVR400/HOR/BT28**	M59	12		20000	37000	22000	4200	65	Clear, Compact Bulb	49	117
BT37	Mog	E	HOR	400	11.5	7	**26218**	**MVR400/HOR/MOG**	M59	6		20000	38000	22500	4200	65	Clear	49	117
							26219	**MVR400/C/HOR/MOG**	M59	6		20000	36800	22000	3900	70	Coated	49	117
1000 WATTS																			
BT56	EX39	O	VBU	1000	15.37	9.5	**41433**	**MPR1000/VBU/O**	M47	6		12000	107000	85500	3500	65	Clear, Protected	49	119
	Mog	S	VBU	1000	15.37	9.5	**44835**	**MVR1000/VBU/HO**	M47	6		15000V	111000V	87000V	3800	65	Clear	49	121
							13137	**MVR1000/C/VBU/HO**	M47	6		15000V	107000V	81500V	3700	70	Coated	49	121
SPORTSLIGHTING																			
1000 WATTS																			
PAR64	G38	E	U	1000	6.87		**29333**	**SPL1000/PAR64840**	–		11350000	3500	63000	53000	4000	80	Clear, Narrow Spot, 6° Beam, 1,350,000 CBCP	38	124
							29336	**SPL1000/PAR64/HR**	–		11350000	3500	63000	53000	4000	80	Clear, Narrow Spot, 6° Beam, 1,350,000 CBCP	38	124

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Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
SPORTSLIGHTING (CONTINUED)																			
1500 WATTS																			
T7	Rx7s	E	HOR	1500	10.12	5	**16920**	**SPL1500/H/652**	–	1		6000	120000	90000	5200	80	Frosted	38	125
BT56	Mog	E	U	1500	15.37	9.5	**47326**	**MVR1500/U/SPORTS**	M48	6		3000H 3000V	170000V 162000H	153000V 133000H	4000	65	Clear	17,42,49	117
							37405	**MVR1500/HBU**	M48	6		3000H 3000V	165000V 155000H	140000V 130000H	3900	65	Clear	16,17,49	117
1650 WATTS																			
BT56	PosMog	E	HOR	1650	15.37	9.5	**25532**	**MVR1650/HOR**	M112	6		3000	177000	145000	3200	65	Clear, Position Oriented Socket Required	17,49	117
2000 WATTS																			
T9	#10 Spade	E	HOR	2000	10	4.3	**12275**	**MQI2000/T9/40**	M134	10		3000	200000	170000	4000	65	Clear		125
PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS																			
32 WATTS																			
ED17	Med	O	VBD	32	5.43	3.43	**12651**	**MXR32/C/VBD/O**	M100	6		10000	2400	1700	3200	70	Coated, protected		119
							16469	**MXR32/C/VBU/O**	M100	6		10000	2400	1700	3200	70	Coated, protected		119
50 WATTS																			
ED17	Med	O	U	50	5.43	3.43	**45670**	**MXR50/U/MED/O**	M110	6		10000	3400	1700	3500	70	Clear, protected		119
							45671	**MXR50/C/U/MED/O**	M110	6		10000	3200	1500	3500	70	Coated, protected		119
70 WATTS																			
ED17	Med	O	U	70	5.43	3.43	**12377**	**MXR70/U/MED/O**	M98	6		12000	5500	3500	3200	70	Clear, protected		119
							12577	**MXR70/C/U/MED/O**	M98	6		12000	5300	3300	3200	70	Coated, protected		119
100 WATTS																			
ED17	Med	O	U	100	5.43	3.43	**12381**	**MXR100/U/MED/O**	M90	6		15000	9000	6200	3200	70	Clear, protected		119
							12579	**MXR100/C/U/MED/O**	M90	6		15000	8500	5900	3200	70	Coated, protected		119
150 WATTS																			
ED17	Med	O	U	150	5.43	3.43	**45683**	**MXR150/U/MED/O**	M102	6		15000	12500	8600	3500	70	Clear, protected		119
							45688	**MXR150/C/U/MED/O**	M102	6		15000	12000	8300	3500	70	Coated, protected		119
175 WATTS																			
BT28	EX39	O	VBU	175	8.25	5	**49470**	**MPR175/VBU/O**	M57	6		10000	14400	10200	4000	65	Clear, protected		119
							11649	**MPR175/C/VBU/O**	M57	6		10000	12800	7800	3800	70	Coated, protected		119
250 WATTS																			
BT28	EX39	O	VBU	250	8.25	5	**49471**	**MPR250/VBU/O**	M58	6		10000	23000	17000	4000	65	Clear, protected		119
							11650	**MPR250/C/VBU/O**	M58	6		10000	20500	14700	3800	70	Coated, protected		119
320 WATTS																			
ED37	EX39	O	VBU	320	11.5	7	**46275**	**MPR320/VBU/XHO/PA**	M132 or M154	6		20000	32000	22500	4000	65	Clear, protected		120
							46276	**MPR320/C/VBU/XHO/PA**	M132 or M154	6		20000	30500	21500	3700	70	Coated, protected		120
ED 28	EX39	O	VBU	320	8.25	5	**19609**	**MPR320/C/PA/ED28**	M132 or M154	12		20000	30600	24500	3700	70	Coated, protected	43	120
350 WATTS																			
ED37	EX39	O	VBU	350	11.5	7	**10202**	**MPR350/VBU/PA**	M131	6		20000	35200	28200	4000	65	Clear, protected	43	120
							48824	**MPR350/C/VBU/PA**	M131	6		20000	33400	26700	3700	70	Coated, protected	43	120
							48825	**MPR350/C/VBU/3K/PA**	M131	6		20000	33400	26700	3200	70	Coated, protected	43	120
360 WATTS - WATT-MISER® ENERGY-SAVING REPLACEMENT FOR 400W METAL HALIDE																			
ED37	EX39	O	VBU	360	11.5	7	**40056**	**MPR360/VBU/WM/HO/O**	M59	6		20000	36000	23500	4000	65	Clear, protected	32,49	119
							11685	**MPR360CVBUWMHO/O**	M59	6		20000	35000	22500	3700	70	Coated, protected	32,49	119

Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED)																			
400 WATTS																			
ED37	EX39	O	VBU	400	11.5	7	**18708**	**MPR400/VBU/HO/O**	M59	6		20000	40000	26000	3800	65	Clear, protected	49	119
							13582	**MPR400/C/VBU/HO/O**	M59	6		20000	38000	25000	3600	70	Coated, protected	49	119
							46273	**MPR400/VBU/XHO/PA**	M135 or M155	6		20000	42000	29500	4000	65	Clear, protected	43,49	120
							46274	**MPR400/C/VBUXHO/PA**	M135 or M155	6		20000	40000	28000	3700	70	Coated, protected	43,49	120
1000 WATTS																			
BT56	EX39	O	VBU	1000	15.37	9.5	**41433**	**MPR1000/VBU/O**	M47	6		12000	107000	85500	3500	65	Clear, Protected	49	119
CHROMAFIT™ MULTI-VAPOR® METAL HALIDE LAMPS (HPS RETROFIT LAMPS)																			
250 WATTS																			
ED28	Mog	E	VBU	250	8.25	5.75	**12762**	**MVR250/VBU/R**	S50	12		10000	18500	13900	4500	65	Clear, HPS Retrofit	50	116
							12769	**MVR250/C/VBU/R**	S50	12		10000	18000	13000	4000	70	Coated, HPS Retrofit	50	116
400 WATTS																			
ED28	Mog	E	U	400	8.31	5	**26851**	**MVR400/U/ED28/R**	S51	12		15000H 20000V	36000V 33100H	22000V 20200H	4000	65	Clear, HPS Retrofit, Compact Bulb	49,50	116
ED37	Mog	S	VBU	400	11.5	5.75	**12770**	**MVR400/VBU/R**	S51	6		20000	37600	22600	4500	65	Clear, HPS Retrofit	49,50	122
							12772	**MVR400/C/VBU/R**	S51	6		20000	35700	21400	4000	70	Coated, HPS Retrofit	49,50	122
I-LINE MULTI-VAPOR® METAL HALIDE LAMPS (MERCURY RETROFIT LAMPS)																			
325 WATTS																			
ED37	Mog	S	U	325	11.5	7	**10687**	**MVR325/I/U/WM**	H33	6		10000H 20000V	28000V 25800H	13300V 12200H	4000	65	↯ Clear, Retrofit for 400W Mercury, Watt-Miser®®		121
							10688	**MVR325/C/I/U/WM**	H33	6		10000H 20000V	26300V 24200H	12900V 11800H	3700	70	✎ Coated, Retrofit for 400W Mercury, Watt-Miser®&#174		121
400 WATTS																			
ED37	Mog	S	U	400	11.5	7	**43817**	**MVR400/I/U**	H33 or M59	6		10000H 15000V	36000V 33100H	24000V 22100H	4000	65	Clear, Retrofit for 400W Mercury	49	121
							43818	**MVR400/C/I/U**	H33 or M59	6		10000H 15000V	35000V 32200H	21000V 19300H	3700	70	Coated, Retrofit for 400W Mercury	49	121
950 WATTS ENERGY-SAVING REPLACEMENT FOR 1000W MERCURY																			
BT56	Mog	S	VBU	950	15.06	9.5	**39097**	**MVR950/I/VBU**	H36 or M47	6		12000	100000	62900	3800	65	↯ Coated, Retrofit for 1000W Mercury, Watt-Miser®&#17	49	121
SAF-T-GARD® SELF-EXTINGUISHING MULTI-VAPOR® LAMPS																			
400 WATTS																			
ED37	Mog	S	U	400	11.5	7	**11146**	**MVT400/I/U**	H33 or M59			610000H 15000V	36000V 33100H	23500V 22100H	4000	65	Clear, Retrofit for 400W Mercury	49	123
							11119	**MVT400/C/I/U**	H33 or M59	6		10000H 15000V	35000V 32200H	23000V 19300H	3700	70	Coated, Retrofit for 400W Mercury	49	123
							11144	**MVT400/VBU**	M59	6		20000	41000	26500	4000	65	Clear	49	123
							11145	**MVT400/C/VBU**	M59	6		20000	41000	26500	3700	70	Coated	49	123
ARCSTREAM® METAL HALIDE LAMPS																			
70 WATTS																			
T6	R7s	E	HOR	70	4.68		**34530**	**ARC70/TD/UVC/730**	M85	12		6000	6000	4800	3000	75	Clear		103
							34536	**ARC70/TD/UVC/743**	M85	12		6000	6000	4800	4300	75	Clear		103
150 WATTS																			
T7	R7s	E	HOR	150	5.37		**34527**	**ARC150/TD/UVC/730**	M81	12		6000	13000	11000	3000	75	Clear		103
							34535	**ARC150/TD/UVC/742**	M81	12		6000	12000	10000	4200	75	Clear		103
T6	BiPinG12	E	U	150	3	2.25	**21053**	**ARC150T/U/830G12**	M81	10		6000	12000	9500	3000	80	Clear		102
							21054	**ARC150T/U/840G12**	M81	10		6000	11500	10500	4000	80	Clear		102
CAP	BiPinGY9.5	E	U	150	1.62	1.12	**34813**	**CSS150/CAP/50**	M81	10		1000	10000	8000	5000	80	Clear, Disco Lamp		102

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Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
ARCSTREAM® METAL HALIDE LAMPS (CONTINUED)																			
250 WATTS																			
T15	Mog	E	HOR	250	8.37	5.62	**26683**	**ARC250/T/H/960/E**	M80	12		10000	19000	13300	6000	90	Clear, Daylight Color		111
400 WATTS																			
ED18	Mog	E	HOR	400	10.5	6.75	**26685**	**KRC400/T/H/960/E**	M135	12		10000	25000	17500	6000	90	Clear, Daylight Color	49	110
LUCALOX® HIGH PRESSURE SODIUM LAMPS																			
35 WATTS																			
B17	Med	O	U	35	5.43	3.43	**11668**	**LU35/MED**	S76	6		16000	2250	2025	1900	22	Clear		111
							26420	**LU35/MED/CP**	S76	4		16000	2250	2025	1900	22	Clear, Consumer Pack		111
							11669	**LU35/D/MED**	S76	6		16000	2150	1935	1900	22	Diffuse		111
50 WATTS																			
B17	Med	O	U	50	5.43	3.43	**11345**	**LU50/MED**	S68	6		24000+	4000	3600	1900	22	Clear		111
							26421	**LU50/MED/CP**	S68	4		24000+	4000	3600	1900	22	Clear, Consumer Pack		111
							11347	**LU50/D/MED**	S68	6		24000+	3800	3420	1900	22	Diffuse		111
ED23.5	Mog	O	U	50	7.75	5	**44975**	**LU50**	S68	12		24000+	4000	3600	1900	22	Clear		111
							26425	**LU50/CP**	S68	4		24000+	4000	3600	1900	22	Clear, Consumer Pack		111
							45006	**LU50/D**	S68	12		24000+	3800	3420	1900	22	Diffuse		111
70 WATTS																			
B17	Med	O	U	70	5.43	3.43	**11339**	**LU70/MED**	S62	6		24000+	6400	5450	1900	22	Clear		111
							26422	**LU70/MED/CP**	S62	4		24000+	6400	5450	1900	22	Clear, Consumer Pack		111
							11340	**LU70/D/MED**	S62	6		24000+	5950	5050	1900	22	Diffuse		111
ED23.5	Mog	O	U	70	7.75	5	**44033**	**LU70**	S62	12		24000+	6400	5450	1900	22	Clear		111
							26426	**LU70/CP**	S62	4		24000+	6400	5450	1900	22	Clear, Consumer Pack		111
							44035	**LU70/D**	S62	12		24000+	5950	5050	1900	22	Diffuse		111
100 WATTS																			
B17	Med	O	U	100	5.5	3.43	**13250**	**LU100/MED**	S54	6		24000+	9500	8550	2000	22	Clear		111
							26423	**LU100/MED/CP**	S54	4		24000+	9500	8550	2000	22	Clear, Consumer Pack		111
							13251	**LU100/D/MED**	S54	6		24000+	8800	7920	2000	22	Diffuse		111
ED23.5	Mog	O	U	100	7.75	5	**44037**	**LU100**	S54	12		24000+	9500	8550	2000	22	Clear		111
							26427	**LU100/CP**	S54	4		24000+	9500	8550	2000	22	Clear, Consumer Pack		111
							44038	**LU100/D**	S54	12		24000+	8800	7920	2000	22	Diffuse		111
150 WATTS																			
B17	Med	O	U	150	5.75	3.5	**13252**	**LU150/MED**	S55	6		24000+	16000	14400	2000	22	Clear		111
							26424	**LU150/MED/CP**	S55	4		24000+	16000	14400	2000	22	Clear, Consumer Pack		111
							13253	**LU150/D/MED**	S55	6		24000+	15000	13500	2000	22	Diffuse		111
ED23.5	Mog	O	U	150	7.75	5	**44043**	**LU150/55**	S55	12		24000+	16000	14400	2000	22	Clear		111
							26429	**LU150/55/CP**	S55	4		24000+	16000	14400	2000	22	Clear, Consumer Pack		111
							44045	**LU150/55/D**	S55	12		24000+	15000	13500	2000	22	Diffuse		111
ED28	Mog	O	U	150	8.31	5	**44243**	**LU150/100(ED28)**	S56	12		24000+	15000	13500	2000	22	Clear		111
200 WATTS																			
ED18	Mog	O	U	200	9.75	5.75	**44206**	**LU200**	S66	12		24000+	22000	19800	2100	22	Clear		111
250 WATTS																			
ED18	Mog	O	U	250	9.75	5.75	**44047**	**LU250**	S50	12		24000+	28000	25200	2100	22	Clear		111
							26430	**LU250/CP**	S50	4		24000+	28000	25200	2100	22	Clear, Consumer Pack		111
					9	5	**44051**	**LU250/D**	S50	12		24000+	26000	23400	2100	22	Diffuse		111
310 WATTS																			
ED18	Mog	O	U	310	9.75	5.75	**44053**	**LU310**	S67	12		24000+	37000	33300	2100	22	Clear		111

Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
LUCALOX® HIGH PRESSURE SODIUM LAMPS (CONTINUED)																			
400 WATTS																			
ED18	Mog	O	U	400	9.75	5.75	**44054**	**LU400**	S51	12		24000+	51000	45000	2100	22	Clear	49	111
							26431	**LU400/CP**	S51	4		24000+	51000	45000	2100	22	Clear, Consumer Pack	49	111
ED37	Mog	O	U	400	11.31	7	**44056**	**LU400/D**	S51	6		24000+	47500	42750	2100	22	Diffuse	49	111
T7	Rx7s	O	HOR	400	10.12		**30244**	**LU400/TD**	S51	10		24000	43000	37300	2000	25	Clear, Double-ended, Horizontal Burn ±20&#176		111
600 WATTS																			
T15	Mog	O	U	600	11.06	6.62	**27187**	**LU600/T**	S106	12		24000+	90000	81000	2000	22	Clear	49	112
750 WATTS																			
ED37	Mog	O	U	750	11.5	6.75	**14682**	**LU750**	S111	6		24000+	110000	99000	2100	22	Clear	49	112
1000 WATTS																			
E25	Mog	O	U	1000	15.06	8.75	**44058**	**LU1000/ECO**	S52	6		24000+	130000	126000	2100	22	Clear	49	111
T7	Rx7s	O	HOR	1000	13.18		**30246**	**LU1000/TD**	S52	10		24000	137500	118200	2000	25	Clear, Double-ended, Horizontal Burn ±20&#176		111
STANDBY LONGLIFE LUCALOX® LAMPS																			
70 WATTS																			
ED23.5	Mog	O	U	70	7.75	5	**19264**	**LU70/SBY/XL**	S62	12		40000	6400	5050	2000	22	Clear, Standby Longlife, Dual Arc Tube		111
100 WATTS																			
ED23.5	Mog	O	U	100	7.75	5	**19265**	**LU100/SBY/XL**	S54	12		40000	9500	8190	2000	22	Clear, Standby Longlife, Dual Arc Tube		111
150 WATTS																			
ED23.5	Mog	O	U	150	7.75	5	**19266**	**LU150/55/SBY/XL**	S55	12		40000	16000	14000	2000	22	Clear, Standby Longlife, Dual Arc Tube		111
200 WATTS																			
ED18	Mog	O	U	200	9.75	5.75	**23431**	**LU200/SBY/XL**	S66	12		40000	21500	18150	2000	22	Clear, Standby Longlife, Dual Arc Tube		111
250 WATTS																			
ED18	Mog	O	U	250	9.75	5.75	**19270**	**LU250/SBY/XL**	S50	12		40000	27500	24750	2000	22	Clear, Standby Longlife, Dual Arc Tube		111
400 WATTS																			
ED18	Mog	O	U	400	9.75	5.75	**19272**	**LU400/SBY/XL**	S51	12		40000	50000	45000	2000	22	Clear, Standby Longlife, Dual Arc Tube	49	111
1000 WATTS																			
E25	Mog	O	U	1000	15.06	8.75	**27185**	**LU1000/SBY/XL**	S52	6		40000	127000	115000	2100	22	Clear, Standby Longlife, Dual Arc Tube	49	111
ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT)																			
70 WATTS																			
ED23.5	Mog	O	U	70	7.75	5	**14672**	**LU70/ECO/NC**	S62	12		30000	6300	5670	1900	23	Clear,Non-Cycling,TCLP Compliant		111
100 WATTS																			
ED23.5	Mog	O	U	100	7.75	5	**14673**	**LU100/ECO/NC**	S54	12		30000	10500	9450	2000	23	Clear,Non-Cycling,TCLP Compliant		111
150 WATTS																			
ED23.5	Mog	O	U	150	7.75	5	**40390**	**LU150/ECO/NC**	S55	12		30000	16000	14400	2000	23	Clear,Non-Cycling,TCLP Compliant		111
200 WATTS																			
ET18	Mog	O	U	200	9.75	5.75	**45059**	**LU200/ECO/NC**	S66	20		30000	22000	19800	2100	22	Clear,Non-Cycling,TCLP Compliant		111
250 WATTS																			
ED18	Mog	O	U	250	9.75	5.75	**14674**	**LU250/ECO/NC**	S50	12		30000	29000	26100	2000	30	Clear,Non-Cycling,TCLP Compliant		111

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Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) (CONTINUED)																			
400 WATTS																			
ED18	Mog	O	U	400	9.75	5.75	**14675**	**LU400/ECO/NC**	S51	12		30000	54000	48600	2100	30	Clear, Non-Cycling, TCLP Compliant	49	111
ECOLUX® HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT)																			
70 WATTS																			
ED23.5	Mog	O	U	70	7.75	5	**45760**	**LU70/ECO**	S62	12		24000+	6400	5450	1900	22	Clear, TCLP Compliant		111
100 WATTS																			
ED23.5	Mog	O	U	100	7.75	5	**45761**	**LU100/ECO**	S54	12		24000+	9500	8550	2000	22	Clear, TCLP Compliant		111
150 WATTS																			
ED23.5	Mog	O	U	150	7.75	5	**45762**	**LU150/55/ECO**	S55	12		24000+	16000	14400	2000	22	Clear, TCLP Compliant		111
200 WATTS																			
ED18	Mog	O	U	200	9.75	5.75	**45763**	**LU200/ECO**	S66	12		24000+	22000	19800	2100	22	Clear, TCLP Compliant		111
250 WATTS																			
ED18	Mog	O	U	250	9.75	5.75	**45764**	**LU250/ECO**	S50	12		24000+	28000	25200	2100	22	Clear, TCLP Compliant		111
400 WATTS																			
ED18	Mog	O	U	400	9.75	5.75	**45765**	**LU400/ECO**	S51	12		24000+	51000	45000	2100	22	Clear, TCLP Compliant	49	111
1000 WATTS																			
E25	Mog	O	U	1000	15.06	8.75	**44058**	**LU1000/ECO**	S52	6		24000+	140000	126000	2100	22	Clear	49	111
DELUXE LUCALOX® HIGH PRESURE SODIUM LAMPS																			
70 WATTS																			
B17	Med	O	U	70	5.5	3.5	**16611**	**LU70/DX/MED**	S62	6		10000	3800	3040	2200	65	Clear, Improved CRI		111
150 WATTS																			
B17	Med	O	U	150	5.75	3.5	**18094**	**LU150/DX/MED**	S55	6		15000	10500	9135	2200	65	Clear, Improved CRI		111
ED23.5	Mog	O	U	150	7.75	5	**18092**	**LU150/55/DX**	S55	12		15000	10500	9135	2200	65	Clear, Improved CRI		111
250 WATTS																			
ED18	Mog	O	U	250	9.75	5.75	**11785**	**LU250/DX**	S50	12		15000	22500	20700	2200	65	Clear, Improved CRI		111
400 WATTS																			
ED28	Mog	O	U	400	9	5.18	**19650**	**LU400/DX**	S51	12		15000	37400	34400	2200	70	Clear, Improved CRI	49	111
E-Z LUX® HIGH PRESURE SODIUM LAMPS (MERCURY RETROFIT)																			
150 WATTS																			
ED28	Mog	O	U	150	9	5	**49943**	**LUH150/EZ**	H39	12		13000	12500	12000	1900	22	↯ Clear, Energy-saving Retrofit for 175W Mercury	46	111
215 WATTS																			
BT28	Mog	O	U	215	8.3	5	**49939**	**LUH215/EZ**	H37 /S65	12		16000	20000	17000	2000	20	↯ Clear, Energy-saving Retrofit for 250W Mercury	47	111
360 WATTS																			
BT37	Mog	O	U	360	11.31	7.12	**18012**	**LUH360/EZ**	H33	6		24000	45000	40500	2100	25	↯ Clear, Energy-saving Retrofit for 400W Mercury	48, 49	111
SOX LOW PRESSURE SODIUM LAMPS																			
18 WATTS																			
T16	BY22d	E		18	8.5	5.37	**21294**	**SOX18**	L69	16		18000	1800	1570	1800	0	Clear, Horizontal Burn ±20° or Vertical		111
35 WATTS																			
T16	BY22d	E		35	12.25	7.25	**21296**	**SOX35**	L70	16		18000	4600	4000	1800	0	Clear, Horizontal Burn ±20° or Vertical		111
55 WATTS																			
T16	BY22d	E		55	16.75	9.5	**21297**	**SOX55**	L71	16		18000	7650	6655	1800	0	Clear, Horizontal Burn ±20° or Vertical		111

Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
SOX LOW PRESSURE SODIUM LAMPS (CONTINUED)																			
90 WATTS																			
T21	BY22d	E		90	20.75	11.5	**21298**	**SOX90**	L72	9		16000	12750	11095	1800	0	Clear, Horizontal Burn ±20°		111
135 WATTS																			
T21	BY22d	E		135	30.5	16.37	**21299**	**SOX135**	L73	9		16000	22000	19140	1800	0	Clear, Horizontal Burn ±20°		111
MERCURY LAMPS																			
40/50 WATTS																			
B17	Med	O	U	50/40	5.12	3.12	**12460**	**HR40/50DX45-46**	H45	5		6000	1575/1140	1250/910	3900	50	40W on H45 Ballast, 50W on H46 Ballast, Deluxe White		113
75 WATTS																			
B17	Med	O	U	75	5.43	3.5	**12461**	**HR75DX43**	H43	5		16000	2700	2250	3900	50	Deluxe White		113
100 WATTS																			
A23.5	Med	O	U	100	5.43	3.5	**12464**	**HR100A38/A23**	H38	5		18000	3700	2400	5700	15	Clear		113
							12467	**HR100DX38/A23**	H38	5		18000	4000	2600	3800	50	Deluxe White		113
B17	Med	O	U	100	5.43	3.5	**17113**	**HR100DX38/MED**	H38	5		18000	4000	2600	3900	50	Deluxe White		113
ED23.5	Mog	O	U	100	7.5	5	**12471**	**HR100A38**	H38	5		24000+	3850	2500	5700	15	Clear		113
							22575	**HR100DX38**	H38	12		24000+	4000	2600	3900	50	Deluxe White		113
							26437	**HR100DX38/CP**	H38	4		24000+	4000	2600	3900	50	Deluxe White, Consumer Pack		113
R40	Med	O	U	100	7		**36238**	**HR100RFL38**	H38	12		24000+	2450	2000	5700	15	Reflector Flood, 48° Beam Spread		113
							36495	**HR100RDXFL38**	H38	12		24000+	2450	2050	3900	50	Deluxe White, Reflector WFL, 140° Beam Spread		113
175 WATTS																			
ED28	Mog	O	U	175	8.25	5	**24048**	**HR175A39**	H39	12		24000+	7850	6830	5700	15	Clear		113
							26440	**HR175A39/CP**	H39	4		24000+	7850	6830	5700	15	Clear, Consumer Pack		113
							24062	**HR175DX39**	H39	12		24000+	7800	6800	3900	50	Deluxe White		113
							26439	**HR175DX39/CP**	H39	4		24000+	7800	6800	3900	50	Deluxe White, Consumer Pack		113
R40	Med	O	U	175	7		**24058**	**HR175RFL39**	H39	12		24000+	5700	4800	5700	15	Clear, Reflector Flood, 40° Beam Spread		113
							33026	**HR175RDXFL39**	H39	12		24000+	5700	4350	3900	50	Deluxe White, Reflector WFL, 120° Beam Spread		113
							36445	**HR175RFL39/M**	H39	12		24000+	5700	4800	5700	15	Clear, Reflector Flood, 40° Beam Spread		113
250 WATTS																			
ED28	Mog	O	U	250	8.25	5	**24068**	**HR250A37**	H37	12		24000	11000	8250	5700	15	Clear		113
							32127	**HR250DX37**	H37	12		24000+	11200	8400	3900	50	Deluxe White		113
400 WATTS																			
BT37	Mog	O	U	400	11.31	7	**32313**	**HR400DX33/BT**	H33	6		24000+	22600	14400	3900	50	Deluxe White	49	113
ED37	Mog	O	U	400	11.31	7	**23974**	**HR400A33**	H33	6		24000+	21000	13400	5700	15	Clear	49	113
							23998	**HR400DX33**	H33	6		24000+	22600	14400	3900	50	Deluxe White	49	113
R52	Mog	O	U	400	11.75		**33879**	**HR400RDX33**	H33	6		24000+	20800	13400	3900	50	Reflector, Deluxe White, 160° Beam Spread	49	113
R60	Mog	O	U	400	10.12		**33938**	**HR400RDXFL33**	H33	6		24000+	15500	8950	3900	50	Reflector WFL, Deluxe White, Clear Face, 110°	49	113
1000 WATTS																			
BT56	Mog	O	U	1000	15.06	9.5	**24171**	**HR1000A36**	H36	6		24000+	57000	28500	5700	15	Clear	49	113
							24191	**HR1000DX36**	H36	6		24000+	58000	29000	3900	50	Deluxe White	49	113
						9.37	**32733**	**HR1000DX34**	H34	6		16000	58300	29200	3900	50	Deluxe White	28, 49	113

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Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
SAF-T-GARD® MERCURY LAMPS																			
175 WATTS																			
ED28	Mog	O	U	175	8.25	5	**43391**	**HT175DX39**	H39	12		16000	7800	6800	3900	50	Deluxe White		114
400 WATTS																			
ED37	Mog	O	U	400	11.31	7	**43363**	**HT400DX33**	H33	6		24000	22600	14400	3900	50	Deluxe White	49	114
E-Z MERC® SELF-BALLASTED LAMPS (INCANDESCENT RETROFIT)																			
160 WATTS																			
ED24	Med	O	U	160	7	4.5	**45178**	**HSB160/M**		24		12000	2300	1600	3900	50	Deluxe White, 120V	9	115
250 WATTS																			
ED28	Med	O	U	250	8.5	5.18	**45174**	**HSB250M**		12		12000	5000	3750	3900	50	Deluxe White, 120V	9	115
							45176	**HSB250**		12		12000	5000	3750	3900	50	Deluxe White, 120V	9	115
450 WATTS																			
BT37	Mog	O	U	450		7.37	**40122**	**HSB450**		6		16000	9100	8280	3900	50	Deluxe White, 120V	9, 49	115
750 WATTS																			
R57	Mog	O	U	750	12.75	8.37	**44012**	**HSB750R/120**		6		16000	14000	11200	3900	50	Deluxe White, Reflector Flood, 120V, 130° Beam	9, 49	115
EXPORT LAMPS																			
METAL HALIDE																			
ED17	E27	O	VBU	32	5.43	3.43	**16893**	**MXR32/C/VBU/O/27**	M100	6		10000	2400	1700	3200	70	Coated, protected		119
				100	5.43	3.43	**18684**	**MXR100/C/U/27**	M90	6		15000	8500	5900	3200	70	Coated		117
ED28	E40	E	U	175	8.25	5	**47762**	**MVR175/U/40**	M57	12		6000H 10000V	13600V 11700H	8800V 7400H	4000	65	Clear		117
							47763	**MVR175/C/U/40**	M57	12		6000H 10000V	12900V 11900H	8400V 7900H	3900	70	Coated		117
							17714	**MVR175/SP30/U/40**	M57	12		6000H 10000V	12000V 10300H	7600V 6500H	3000	70	RE730 Phosphor Coating		117
				250	8.25	5	**44542**	**MVR250/U/40**	M58	12		6000H 10000V	20800V 19100H	13500V 12400H	4200	65	Clear		117
							44543	**MVR250/C/U/40**	M58	12		6000H 10000V	19800V 18200H	13000V 11600H	3900	70	Coated		117
							17715	**MVR250/SP30/U/40**	M58	12		6000H 10000V	18000V 16600H	11500V 10600H	3000	70	RE730 Phosphor Coating		117
ED37	E40	S	U	400	11.5	7	**43907**	**MVR400/U/40**	M59	6		15000H 20000V	36000V 33100H	23500V 22100H	4000	65	Clear	49	121
							43908	**MVR400/C/U/40**	M59	6		15000H 20000V	35000V 32200H	23000V 19300H	3700	70	Coated	49	121
		S	V	400	11.5	7	**49860**	**MVR400/VBU/40**	M59	6		20000	41000	26500	4000	65	Clear, Vertical Base Up ±15°	49	121
							49857	**MVR400/C/VBU/40**	M59	6		20000	41000	25000	3700	70	Coated, Vertical Base Up ±15°	49	121
		O	VBU	400	11.5	7	**27738**	**MPR400/C/VBU/O/40**	M59	6		20000	38000	26000	3200	70	Coated, Vertical Base Up, protected	49	119
		S	V	400	11.5	7	**46420**	**MVR400/VBU/STB/40**	M59	6		20000	41000	31000	4000	65	Clear, StayBright®®	49	121
							46421	**MVR400/C/VBU/STB/40**	M59	6		20000	41000	29500	3700	70	Coated, StayBright®®	49	121
			U	400	11.5	7	**17716**	**MVR400/SP30/U/40**	M59	6		15000H 20000V	31000V 28500H	18600V 17100H	3000	70	RE730 Phosphor Coating	49	121
			VBU	400	11.5	7	**21440**	**MVR400/SP30/VBU/40**	M59	6		20000	34000	20400	3200	70	RE730 Phosphor Coating, Vertical Base Up ±15&	49	121
		O	VBU	400	11.5	7	**18709**	**MPR400/VBU/O/40**	M59	6		20000	40000	26000	3400	65	Clear, Vertical Base Up ±15°, Shrouded A	49	119
BT56	E40	S	U	1000	15.37	9.5	**41828**	**MVR1000/U/40**	M47	6		11000H 15000V	108000V 100280H	86000V 79000H	4000	65	Clear	49	121
							41829	**MVR1000/C/U/40**	M47	6		11000H 15000V	105000V 96600H	80000V 73000H	3700	65	Coated	49	121

Bulb	Base	LET	OP	Watts	MOL	LCL	Order Code	Description	ANSI Ballast Type	Case Qty.	CBCP	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Additional Information	Footnotes	Warning
EXPORT LAMPS (CONTINUED)																			
LUCALOX® HIGH PRESSURE SODIUM																			
E21	E27	O	U	70	6.3	4.13	**10405**	**LU70/90/27**		12		24000+	6000	5400	1900	22	Clear		111
ED23.5	E40	O	U	150	7.75	5	**44044**	**LU150/55/40**	S55	12		24000+	16000	14400	2000	22	Clear		111
T14.5	E40	O	U	150	8.23	5.16	**27223**	**LU150/100/40**		12		24000+	15000	13500	2000	22	Clear		111
ED28	E40	O	U	150	9.13	5.24	**27228**	**LU150/100/D/40**		12		24000+	14000	12600	2000	22	Diffuse		111
ED18	E40	O	U	250	9.75	5.75	**44048**	**LU250/40**	S50	12		24000+	28000	25200	2100	22	Clear		111
ED28	E40	O	U	250	9	5	**27226**	**LU250/D/40**	S50	12		24000+	26000	23400	2100	22	Clear		111
ED18	E40	O	U	400	9.75	5.75	**44055**	**LU400/40**	S51	12		24000+	51000	45000	2100	22	Clear	49	111
ED37	E40	O	U	400	11.31	7	**27229**	**LU400/D/40**	S51	6		24000+	47500	42750	2100	22	Diffuse	49	111
E25	E40	O	U	1000	15.06	8.75	**44059**	**LU1000/40**	S52	6		24000+	140000	126000	2100	22	Clear	49	111
E-Z LUX® LUCALOX® HIGH PRESURE SODIUM (MERCURY RETROFIT)																			
ED28	E40	O	U	215	9	5	**49941**	**LUH215/D/EZ/40**		12		12000	20200	18600	1900	22	↯ Diffuse, Energy-saving Retrofit for 250W Mercury		111
MERCURY																			
ED37	E40	O	U	400	11.42	7.13	**32294**	**HR400DX33/40**	H33	6		24000+	22600	14400	3900	50	Deluxe White	49	113
HORTICULTURAL LAMPS																			
T15	E40	O	U	400	11.3	7	**41813**	**LU400/XO/T/40**		12		28500	56500	53675	2100	22	Clear	33,38,	111
	E41	O	U	600	11.3	6.7	**41814**	**LU600/XO/T/40**		12		28500	90000	85500	2100	22	Clear	33,38,	111
	E42	O	U	400	11.3	7.1	**41845**	**LU400/XOPSL/T/E40**		12		28500	56500	53675	2100	22	Clear	33,38,	111
	E43	O	U	600	11.3	6.7	**41850**	**LU600/XOPSL/T/E40**		12		28500	90000	85500	2100	22	Clear	33,38,	111
	E44	O	U	750	11.7	7.1	**41856**	**LU750/XOPSL/T/E40**		12		16000	112000	106400	2100	22	Clear	33,38,	111

FOOTNOTES

#	Footnote
9	Do not use this lamp in fixtures designed for less than rated lamp wattage.
14	Life shown is for vertical ±15° operation.
16	Approximate lumen ratings at 45° burning position: Initial - 145,000. Mean - 124,000.
17	Rated life based on 5 or more burning hours per start.
28	Use only 1000-watt H12 or H34-type ballasts. Do not use on 1000-watt H36-type ballasts.
32	Lamp will run at 400-watts when used on a linear reactor ballast.
33	Rated life based on 11 hours per start.
38	Requires a non-ANSI designated ballast with a special, add-on metal halide ignitor. Contact your local GE representative for a list of approved ballasts and ignitors.
39	UV Control is a quartz material that effectively cuts UVB and UVC radiation.
42	Approximate lumen ratings at 45° burning position: Initial - 153,000. Mean - 139,000.
43	When operated on a 120 hrs. cycle (minimum), lamp life rating may be extended by up to 50% based on engineering estimates.
44	Rated life based on 7 hours per start.
45	Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs.
46	Use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
47	Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
48	Use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.
49	Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing.
50	Not for use on Magnetic-Regulator or Electronic-Regulator ballast systems to avoid ballast overheating.
51	Use only with electronic ballast.
52	Use only with approved ballast.

GENERAL INFORMATION

FIXTURE REQUIREMENTS – LAMP ENCLOSURE TYPE

HID lamps have fixture requirements that must be followed. The following three codes identify the appropriate fixture for a particular lamp. Lamps having an "O" code can be operated in an "Open or Enclosed" fixture. Lamps with a "S" code can be used in open fixtures only if operated in a vertical ±15° burn position. Lamps in all other burn positions must be suitably enclosed.

- O = Open or Enclosed Fixtures
- E = Enclosed Fixtures Only
- S = Lamps operated in a vertical position (Base Up or Down), ±15°, can be used in an open fixture. Lamps burned in any other orientation must be used in "enclosed fixtures only".

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) per UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position ±15° that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

PROTECTION OF BULBS FROM MOISTURE

Outer bulbs of HID lamps are made of heat-resistant glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaries. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

RATED LIFE

Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value of life expectancy; that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps is expected to be still burning. Where Rated Life is 24,000+ hours, 67% of lamps are expected to be still burning at 24,000 hours.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. ↯ Reduced Wattage ✎ High Color Rendering.

GENERAL INFORMATION (CONTINUED)

For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened as follows:

5 hrs/start:	approx. life 75% of rating
2½ hrs/start:	approx. life 56% of rating
1¼ hrs/start:	approx. life 42% of rating

LUMENS– LUMENS LISTED ARE REFERENCE LUMENS

Rated average lamp lumens are obtained under controlled laboratory conditions in a prescribed burning position. **Initial Reference Lumens** refer to the lamp lumen output after 100-hours burning. **Mean Reference Lumens** refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for HPS and mercury lamps, and at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen ratings.

High Intensity Discharge lighting systems are subject to a wide range of variations which may affect final lighting levels. As a result, lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, line voltage and other reasons. Care must be taken when choosing a system to consider how these changes can affect your light levels both initially and at the mean lumen point.

BALLASTS

HID lamps (except E-Z-Merc®) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts.

All Lucalox®, Mercury, and Metal Halide lamps (except I-Line) will start at ambient temperatures of -22°F (-30°C). I-Line Multi-Vapor® will start at ambient temperatures of 5°F (-15°C) when used on approved mercury ballasts.

START CHARACTERISTICS

Full light output does not occur immediately when power is applied. Instead, there is a time delay for the lamp to reach 90% total light output. The starting delay for High Pressure Sodium is 3-4 minutes, for Metal Halide 2-5 minutes, and for Mercury 5-7 minutes.

RESTART CHARACTERISTICS

With a power interruption of a half cycle or more, the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. For HPS lamps there is a delay of 1 minute to reach 90% total light output; however, Lucalox® LU1000 requires 2 minutes and E-Z Lux® lamps require 3 minutes to reach 90% total light output. For most Metal Halide lamps, including CMH®, when the power is immediately reapplied, there will be a delay of 10 to 17 minutes before the lamps reach the 90% light output level. PulseArc® lamps restrike in <4 minutes. The restart delay for mercury lamps is 3 to 6 minutes to reach 90% total light output.

OPERATING POSITIONS AND CODES

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

- U = Universal burning position
- HBU = Horizontal -15° to Base Up
- HBD = Horizontal +15° to Base Down
- HOR = Horizontal ±15°
- H45 = Horizontal to ±45° only
- VBU = Vertical Base Up ±15°
- VBD = Vertical Base Down ±15°

If no special burn position is noted, the burn position is universal.

HID COLOR

The color temperature and CRI listed in the tabular data are for reference purposes only. All high intensity discharge lamps exhibit some degree of lamp to lamp color variation and shift over life. These characteristics can be increased based on choice of fixture, ballast, burning position, and ambient conditions. Color variation can be greater than normal during the initial 100 hours of burning. Where color consistency is important, consider using ConstantColor® CMH® for better performance (page 3-9). Contact your local GE Lighting representative for more information.

EXPORT BASE LAMPS (/27 AND /40)

Export only lamps have a non-domestic (non-U.S.) base and are not intended for use in the United States due to potential shock hazard. The lamps are identified by "/27" or "/40" at the end of the lamp description and comply with electrical characteristics defined by IEC standards.

OPERATING NOTES

CMH® CHROMAFIT™ METAL HALIDE LAMPS

Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.

E-Z LUX® LAMPS

These high pressure sodium lamps should be operated only on certain mercury ballasts, as indicated below.

LUH110/EZ: use only with the following types of 125-watt mercury ballasts: high-reactance lag-type autotransformers or 220-volt or greater reactors.

LUH150/EZ: use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH215/EZ: use only with the following types of H37 250-watt mercury ballasts: high reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH360/EZ: use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

MXR32 METAL HALIDE LAMP AND ELECTRONIC BALLAST

MXR32 lamps must be operated on GE's special, high power factor electronic ballast, HAL32/120. Outside dimensions for the ballast are 9¼" long, 3⅛" wide and 1¾" high.

SAF-T-GARD® MULTI-VAPOR® AND SAF-T-GARD® MERCURY LAMPS

Caution: If the outer glass envelope of a Saf-T-Gard® lamp is broken, the arc tube will self-extinguish, but the supporting structure will still be electrically connected. Be sure power is off and the lamp has cooled before removing the lamp to avoid possible electrical shock from contact with the arc tube support and to avoid risk of burn from the hot arc tube.

ARCSTREAM® METAL HALIDE LAMPS

Arcstream® tubular-shaped lamps must be used in suitably-enclosed fixtures with UV-absorbing cover glass. Enclosed fixtures must be capable of containing fragments of hot quartz or glass (up to 1100°C) in the unusual event of the outer bulb shattering. Also see complete Warning and Caution Notices on metal halide lamps.

WARNING NOTICES

THE FOLLOWING WARNING NOTICES MUST BE COMPLIED WITH TO HELP AVOID POSSIBLE LAMP RUPTURE. General Electric Company will not be responsible for poor lamp performance, personal injury or property damage resulting from failure to follow these instructions.

HID LAMPS - GENERAL

WARNING

Most HID lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures - as high as approximately 1100°C. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

An arc tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles (as high as 1100°C). There is a risk of personal injury, property damage, burns and fire.

Some lamps are position-sensitive and must only be operated in specified burning positions (see "Additional Information" column in this catalog) with compatible electrical equipment in the types of fixtures prescribed in "Lamp Enclosure Type" on Page 3-22 of this catalog.

In addition to the general warnings above, there are specific warnings for the HID lamp types listed below.

Metal Halide Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

In continuously-operating systems (24 hours/day, 7 days/week), turn lamps off once per week for at least 15 minutes. FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

High Pressure Sodium Lamps

This is a vacuum jacket lamp and may implode if broken. As a precaution, wear safety glasses and gloves when installing or removing lamp. High pressure sodium lamps are not position-sensitive and may be operated in any burning position.

Mercury Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Mercury lamps are not position-sensitive and may be operated in any burning position.

Low Pressure Sodium Lamps

These lamps contain sodium which will ignite when exposed to water. If lamps are not disposed of properly, there is a risk of fire in the disposal vessel. Consult GE for disposal instructions.

LAMP ENCLOSURE TYPE

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) in accordance with UL Standard #1572 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position ±15° that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

IMPORTANT NOTICE

In accordance to Federal Regulations (21 CFR 1040.30), the following notice applies to all lamps in the HID section of this catalog except High Pressure, Low Pressure Sodium Lamps, and Saf-T-Gard® Multi-Vapor Lamps.

"**R WARNING**: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available."

WARNING AND CAUTION NOTICES

101 - Arcstream®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

WARNING AND CAUTION NOTICES (CONTINUED)

102 - Arcstream® G12

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
  - Use thermally protected ballast

Lamp emits UV radiation which may cause eye/skin injury.

- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

103 - Arcstream® Rx7s

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use in wet locations
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

104 - CMH® GU6.5, G12 and Mini

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast – see instructions

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

WARNING AND CAUTION NOTICES (CONTINUED)

105 - CMH® HW HPS

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs. Does not apply to CMH 250/R.

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

106 - CMH® HW PA

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

107 - CMH® MR16 and PAR20-30

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast - see instructions

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

108 - CMH® PAR38

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not turn on lamp until fully installed

WARNING AND CAUTION NOTICES (CONTINUED)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken

109 - CMH® TD

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

110 - Arcstream®, Kolorarc®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
  - Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
  - Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

111 - Lucalox®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Contains sodium – chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

WARNING AND CAUTION NOTICES (CONTINUED)

112 - Lucalox® HO

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast - see instructions

Contains sodium – chemical burn risk
- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

113 - Mercury

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

114 - Mercury Saf-T-Gard®

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

115 - Mercury Self-Ballasted

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

WARNING AND CAUTION NOTICES (CONTINUED)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

116 - QMH E-rated Kr85 and CMH®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week. Does not apply to CMH.
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

117 - QMH HOR Enclosed

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not remove base locating pin if so equipped
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

118 - QMH LW Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

WARNING AND CAUTION NOTICES (CONTINUED)

119 - QMH Protected

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

120 - QMH Protected Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

121 - QMH S-rated

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product – see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

WARNING AND CAUTION NOTICES (CONTINUED)

122 - QMH S-rated Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product – see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

123 - QMH S-rated Saf-T-Gard®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product – see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

124 - Sport 1000W PAR64

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling Lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

WARNING AND CAUTION NOTICES (CONTINUED)

125 - Sport MBIL-CSI-CID

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury.

- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

HID LAMPS CROSS REFERENCE

GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
STANDARD AND ECOLUX® HPS LAMPS		
Lucalox®	**Lumalux®**	**Ceramalux™**
LU35/MED	LU35/MED	C35S76/M
LU35/D/MED	LU35/D/MED	C35S76/D/M
LU50/MED	LU50/MED	C50S68/M
LU50/D/MED	LU50/D/MED	C50S68/M
LU50	LU50/ECO	C50S68/ALTO
LU50/D	LU50/D	C50S68/D
LU70/MED	LU70/MED	C70S62/M
LU70/D/MED	LU70/D/MED	C70S62/D/M
LU70/ECO	LU70/ECO	C70S62/ALTO
LU70/ECO/NC	LU70/PLUS/ECO	—
LU70/D	LU70/D	C70S62/D
LU100/MED	LU100/MED	C100S54/M
LU100/D/MED	LU100/D/MED	C100S54/D/M
LU100/ECO	LU100/ECO	C100S54/ALTO
LU100/ECO/NC	LU100/PLUS/ECO	—
LU100/D	LU100/D	C100S54/D
LU150/MED	LU150/55/MED	CC150S55/M
LU150/D/MED	LU150/55/D/MED	C150S55/D/M
LU150/55/ECO	LU150/55/ECO	C150S55/ALTO
LU150/ECO/NC	LU150/55/PLUS/ECO	—
LU150/55/D	LU150/55/D	C150S55/D
LU150/100	LU150/100	C150S56/ALTO
LU200/ECO	LU200/ECO	C200S66
LU200/ECO/NC	LU200/PLUS/ECO	—
LU250/ECO	LU250/ECO	C250S50
LU250/ECO/NC	LU250/PLUS/ECO	—
LU250/D	LU250/D	C250S50/D

GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
STANDARD AND ECOLUX® HPS LAMPS (CONTINUED)		
Lucalox®	**Lumalux®**	**Ceramalux™**
LU310	LU310/ECO	C310S67
LU400/ECO	LU400/ECO	C400S51
LU400/ECO/NC	LU400/PLUS/ECO	—
LU400/D	LU400/D	C400S51/D
LU750	LU750	—
LU1000/ECO	LU1000	C1000S52
DELUXE HIGH PRESSURE SODIUM LAMPS		
Lucalox®		**Ceramalux™**
LU70/DX/MED	—	C70S62/C/M
LU150/DX/MED	—	C150S55/C/M
LU150/55/DX	—	C150S55/C
LU250/DX	—	C250S50/C
LU400/DX	—	C400S51/C
STANDBY LONGLIFE HIGH PRESSURE SODIUM LAMPS		
Lucalox®	**Lumalux®**	**Ceramalux™**
LU70/SBY/XL	LU70/SBY	C70S62/2
LU100/SBY/XL	LU100/SBY	C100S54/2
LU150/55/SBY/XL	LU150/551SBY	C150S55/2
LU200/SBY/XL	LU200/100/SBY	—
LU250/SBY/XL	LU250/SBY	C250S50/2
LU400/SBY/XL	LU400/SBY	C400S51/2
LU1000/SBY/XL	LU1000/SBY	C1000S52/2
EZ-LUX® HIGH PRESSURE SODIUM LAMPS		
E-Z LUX®	**Unalux®**	**Ceramalux™**
LUH150/EZ	ULX150	C150S63 RETROLUX
LUH215/EZ	UlX215	C215S675 RETROLUX
LUH360/EZ	ULX360	C360S64 RETROLUX

HID LAMPS CROSS REFERENCE (CONTINUED)

GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
CERAMIC METAL HALIDE LAMPS		
CMH20/MR16/830/SP	—	—
CMH20/MR16/830/FL	—	—
CMH20/MR16/830/WFL	—	—
CMH20/PAR20/SP	—	—
CMH20/PAR20/FL	—	—
CMH20/PAR30/SP10	MCP20PAR30LN/U/830/SP	—
CMH20/PAR30/SP15	—	—
CMH20/PAR30/FL25	MCP20PAR30LN/U/830/FL	—
CMH39/PAR20/830/SP10	MCP39PAR20/U/830/SP	CDM35/PAR20/M/SP
CMH39/PAR20/830/FL30	MCP39PAR20/U/830/FL	CDM35/PAR20/M/FL
CMH39/PAR30L/830/SP10	MCP39PAR30LN/U/830/SP	CDM35/PAR30L/M/SP
CMH39/PAR30L/830/SP15	—	—
CMH39/PAR30L/830/FL25	MCP39PAR30LN/U/830/FL	CDM35/PAR30L/M/FL
CMH70/PAR30L/830/SP15	MCP70PAR30LN/U/830/SP	CDM70/PAR30L/M/SP
CMH70/PAR30L/830/FL40	MCP70PAR30LN/U/830/FL	CDM70/PAR30L/M/FL
CMH70/PAR38/830/SP15	MCP70PAR38/U/830/SP	CDM70/PAR38/SP/3K
CMH70/PAR38/830/FL25	MCP70PAR38/U/830/FL	CDM70/PAR38/FL/3K
CMH70/PAR38/830/WFL	MCP70PAR38/U/830/WFL	CDM70/PAR38/WFL/3K
CMH100/PAR38/830/SP15	MCP100PAR38/U/830/SP	CDM100/PAR38/SP/3K
CMH100/PAR38/830/FL25	MCP100PAR38/U/830/FL	CDM100/PAR38/FL/3K
CMH100/PAR38/830/WFL	MCP100PAR38/U/830/WFL	CDM100/PAR38/WFL/3K
CMH70/U/830/MED	MCP70/U/MED/830	MHC70/U/M/3K
CMH70/C/U/830/MED	MCP70/C/U/MED/830	MHC70/C/U/M/3K
CMH100/U/830/MED	MCP100/U/MED/830	MHC100/U/M/3K
CMH100/C/U/830/MED	MCP100/C/U/MED/830	MHC100/C/U/M/3K
CMH70/U/830/MED/O	MCP70/U/MED/830	MHC70/U/MP/3K/ALTO
CMH70/C/U/830/MED/O	MCP70/C/U/MED/830	MHC70/C/U/MP/3K/ALTO
CMH70/U/942/MED/O	—	MHC70/U/MP/4K/ALTO
CMH70/C/U/942/MED/O	—	MHC70/C/U/MP/4K/ALTO
CMH150/U/830/MED/O	MCP150/U/MED/830	MCH150/U/MP/3K/ALTO
CMH150/C/U/830/MED/O	MCP150/C/U/MED/830	MHC150/C/U/MP/3K/ALTO
CMH150/U/942/MED/O	—	MHC150/U/MP/4K/ALTO
CMH150/C/U/942/MED/O	—	MHC150/C/U/MP/4K/ALTO
CMH20/T/U/830/G12	—	—
CMH39/T/U/830/G12	MC39T6/U/G12/830	CDM35/T6/830
CMH39/TC/U/942/G12	MC39T6/U/G12/940	—
CMH70/T/U/830/G12	MC70T6/U/G12/830	CDM70/T6/830
CMH70/T/U/942/G12	MC70T6/U/G12/940	CDM70/T6/942
CMH150/T/U/830/G12	MC150T6/U/G12/830	CDM150/T6/830
CMH150/T/U/942/G12	MC150T6/U/G12/940	CDM150/T6/942
CMH70/TD/830/Rx7s	MC70T6/DE/830	CDM70/TD/830
CMH70/TD/942/Rx7s	—	CDM70/TD/942
CMH150/TD/830/Rx7s	MC150T6/DE/830	CDM150/TD/830
CMH150/TD/942/Rx7s	—	CDM150/TD/942

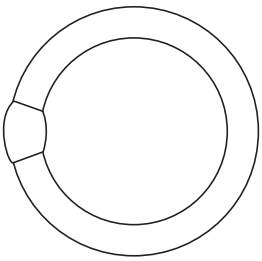
GE Description	*Osram/Sylvania Description*	*Philips Description*
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
CERAMIC METAL HALIDE LAMPS (CONTINUED)		
CMH250/PA/O-SPXX	MCP250/PS/BU-only/940	—
CMH320/PA/O-SPXX	MCP320/PS/BU/840/BT37	CDM320/V/O/PS/4K
CMH350/PA/O-SPXX	—	CDM350/V/O/PS/4K
CMH400/BU/PA/O-SPXX	—	CDM350/V/O/PS/4K
CMH20/TC/U/830/GU6.5	—	—
CMH20/TC/U/830/G8.5	MC20TC/U/G8.5/830	—
CMH39/TC/U/830/G8.5	MC39TC/U/G8.5/830	CDM35/TC/830
CMH39/TC/U/942/G8.5	MC39TC/U/G8.5/942	CDM35/TC/942
CMH70/TC/U/830/G8.5	MC70TC/U/G8.5/830	CDM70/TC/830
CMH70/TC/U/942/G8.5	MC70TC/U/G8.5/942	CDM70/TC/942
MULTI-VAPOR® PULSEARC® METAL HALIDE LAMPS		
MXR32C/VBU	—	—
MXR50/U/MED	MP50/U/MED	MH50/U/M
MXR50/C/U/MED	MP50/C/U/MED	MH50/C/U/M
MXR70/U/MED	MH70/U/MED	MHC70/U/M/3K
MXR70/C/U/MED	MH70/C/U/MED	MHC70/C/U/M/3K
MXR70/U/MED/O	MP70/U/MED	MHC70/C/U/M/3K
MXR70/C/U/MED/O	MP70/C/U/MED	MHC70/C/U/M/3K
MXR100/U/MED	M100/U/MRD	MHC100/U/M/3K
MXR100/C/U/MED	MH100/C/U/MED	MHC100/C/U/M/3K
MVR100/U/MED	MH100/U/4K/MED	MHC100/U/M/4K
MVR100/C/U/MED	—	MHC100/C/U/M/4K
MXR100/U/MED/O	MP100/U/MED	MHC100/U/M/3K
MXR100/C/U/MED/O	MP100/C/U/MED	MHC100/C/U/M/3K
MXR150/U/MED	M150/U/MED	MH150/U/M
MXR150/C/U/MED	M150/C/U/MED	MH150/C/U/M
MVR175/VBU/PA	MS175/PS/BU	MS175/BU/PS
MVR175/C/VBU/PA	MS175/C/PS/BU	—
MVR250/VBU/PA	MS250/PS/BU	MS250/BU/PS
MVR250/C/VBU/PA	MS250/C/PS/BU	—
MVR320/VBU/HO/PA	MS320/PS/BU	MS320/BU/PS
MVR320/C/VBU/HO/PA	MS320/C/PS/BU-HOR	MS320/C/BU/PS
MPR320/VBU/XHO/PA	MP320/350/PS/BU	MP320/BU/PS
MPR320/C/VBU/XHO/PA	MP320/350/C/PS/BU	MP320/C/BU/PS
MPR350/VBU/PA	MP320/350/PS/BU	MP350/BU/PS
MPR350/C/VBU/PA	MP320/350/C/PS/BU	MP350/C/BU/PS
MPR400/VBU/XHO/PA	MP350/400/PS/BU	MP400/BU/PS
MPR400/C/VBU/XHO/PA	MP350/400/C/PS/BU	MP400/C/BU/PS
MVR750/VBU/PA	MS750/PS/BU-HOR/BT37	—
MVR750/C/VBU/PA	MS750/C/PS/BU-HOR/BT37	—
MVR1000/BT37/PA	M1000/PS/U/BT37	MS1000/BU/BT37/PS

HID LAMPS CROSS REFERENCE (CONTINUED)

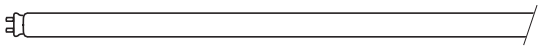
GE Description	Osram/Sylvania Description	Philips Description
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
MULTI-VAPOR® STANDARD METAL HALIDE LAMPS		
MVR175/U/MED	M175/U/MED	MH175/U/M
MVR175/C/U/MED	M175/C/U/MED	MH175/C/U/M
MVR175/U	M175/U	MH175/U
MVR175/C/U	M175/C/U	MH175/C/U
MVR175/HOR	MS175/HOR	MS175/HOR
MVR175/C/HOR	MS175/C/HOR	MS175/C/HOR
MVR250/U	M250/U	MH250/U
MVR250/C/U	M250/C/U	MH250/C/U
MVR250/SP30/U	M2503K/BU-only	MH250/3K/BU
MVR250/HOR	MS250/HOR	MS250/HOR
MVR250/C/HOR	MS250/C/HOR	MS250/C/HOR
MVR400/U	M400/U	MH400/U
MVR400/C/U	M400/C/U	MH400/C/U
MVR400/SP30/U	MS400/BU	MH400/3K/U
MVR400/VBU	MS400/BU	MS400/BU
MVR400/VBD	MS400/BD	—
MVR400/C/VBU	MS400/C/BU	MS400/C/BU&
MVR400/C/VBD	MS400/C/BD	—
MVR400/HOR	MS400/HOR	MS400/HOR
MVR400/C/HOR	MS400/C/HOR	MS400/C/HOR
MVR400/SP30/HOR	MS400/3K/HOR	—
MPR400/U	MP400/BU	MP400/U
MPR400/VBU	MP400/BU/BD	—
MVR1000/U	M1000/U	MH1000/U
MVR1000/C/U	M1000/C/U	MH1000/C/U
MVR1000/VBU	MS1000/BU	MS1000/BU
MPR1000/VBU/O	MP1000/BU	MP1000/BU
MVR1500/U/SPORTS	M1500/BU-HOR	MH1500BU
DOUBLE-ENDED LAMPS		
ARC70/TD/730/R7S	HQI-DE70/WDX	CDM70/TD/830
ARC70/TD/743/R7S	—	MHN70/TD/840
ARC150/TD/730/R7S	HQI-DE150/WDX	CDM150/TD/830
ARC150/TD/742/R7S	HQI-DE150/NDX	MHN150/TD/840
SAFETY METAL HALIDE LAMPS		
MVT400/VBU	MPT400/BU	MHT400/U
MVT400/C/VBU	MPT400/C/BU	MHT400/C/U

GE Description	Osram/Sylvania Description	Philips Description
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS	
MERCURY VAPOR LAMPS		
HR40/50DX45-46	H45/46DL-40/50/DX	H46DL-40-50/DX
HR75DX43	H43AV-75/DX	H43AV-75/DX
HR75/100PFL43-44	—	—
HR100DX38/E17	—	—
HR100A38/A23	—	—
HR100DX38/A23	H38AV-100/DX	H38MP-100/DX
HR100A38	H38HT-100	H38HT-100
HR100DX38	H38JA-100/DX	H38JA-100/DX
HT100DX38	H38JA-T100/DX	H38JA-T100/DX
HR100WDX38	H38JA-100/N	—
HR100RFL38	—	—
HR100RDXFL38	H38BP-100/DX	H38BP-100/DX
HR100PSP44	H44GS-100	H44GS-100
HR100PFL44	H44JM-100	—
HR175A39	H39KB-175	H39KB-175
HR175DX39	H39KC-175/DX	H39KC-175/DX
HT175DX39	H39KC-T175/DX	H39KC-T175
HR175WDX39	H39KC-175/N	—
HR175RFL39	—	H39BM-175
HR175RDXFL39	H39BP-175/DX	H39BP-175/DX
HR250A37	H37KB-250	H37KB-250
HR250DX37	H37KC-250/DX	H37KC-250/DX
HT250DX37	H37KC-T250/DX	H37KC-T250/DX
HR250WDX37	H37KC-250/N	—
HR400A33	H33CD-400	H33CD-400
HR400DX33	H33GL-400/DX	H33GL-400/DX
HR400DX33BT	—	—
HT400DX33	H33GL-T400/DX	H33GL-T400/DX
HR400WDX33	H33GL-400/N	—
HR400R33	—	—
HR400RDX33	—	H33DN-400/DX
HR400RDXFL33	—	H33FS-400/DX
HR400RSP33	—	—
HR400A33/T16	H33AR-400	—
HR700DX35	—	H35ND-700/DX
HR1000DX34	H34GV-1000	—
HR1000DX34	H34GW-1000/DX	H34GW-1000/DX
HR1000A36	H36GV-1000	H36GV-1000
HR1000DX36	H36GW-1000/DX	H36GW-1000/DX
HT1000DX36	H36GW-T1000/DX	H36GW-T1000/DX
SELF-BALLASTED MERCURY VAPOR LAMPS		
HSB160/M	—	—
HSB250	—	S250E28/DX
HSB250/M	—	S250E28/DX/M
HSB450	—	S450BT37/C
HSB750R/120	—	S750R57

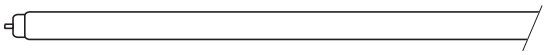
LAMP LOCATOR (NOT DRAWN TO SCALE)



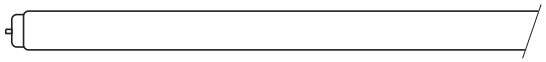
T9 Circline (1⅛" diameter) 4-Pin Base (G10q)



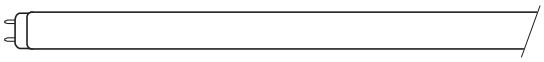
T5 (⅝" diameter) Miniature Bipin Base (G5)



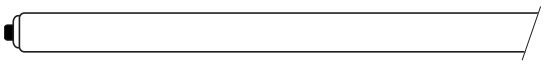
T6 (¾" diameter) Single Pin Base (Fa8)



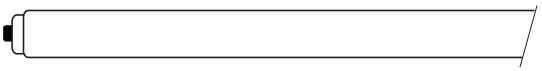
T8 (1" diameter) Single Pin Base (Fa8)



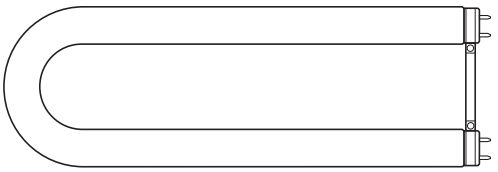
T8 (1" diameter) Medium Bipin Base (G13)



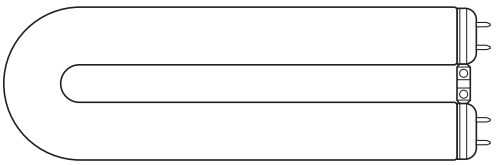
T8 (1" diameter) Recessed Double Contact Base (R17d)



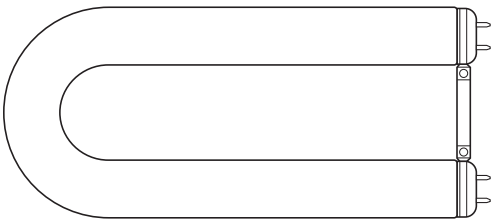
T10 (1¼" diameter) Recessed Double Contact Base (R17d)



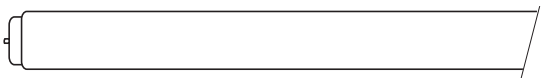
Mod-U-Line® T8/U6 (1" diameter) Medium Bipin Base (G13)



Mod-U-Line® T12/U3 (1½" diameter) Medium Bipin Base (G13)



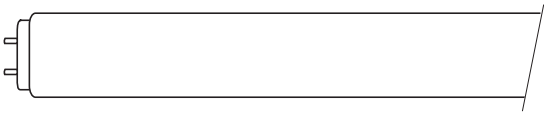
Mod-U-Line® T12/U6 (1½" diameter) Medium Bipin Base (G13)



T12 (1½" diameter) Single Pin Base (Fa8)

T12 (1½" diameter) Medium Bipin Base (G13)

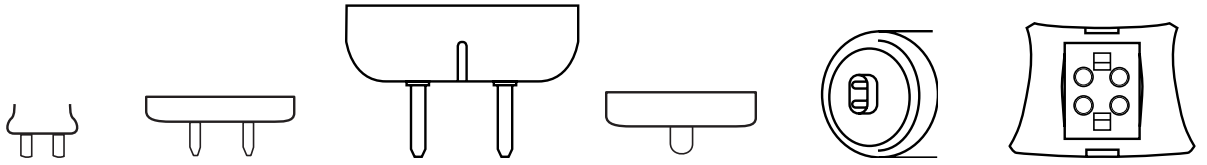
T12 (1½" diameter) Recessed Double Contact Base (R17d)



T17 (2⅛" diameter) Mogul Bipin (G20)

Power Groove® (2⅛" diameter)
Recessed Double Contact Base (R17d)

BASE IDENTIFICATION



Min Bipin G5 | *Med Bipin G13* | *Mog Bipin G20* | *Single Pin Fa8* | *Recessed Double Contact R17d* | *4-Pin G10q (Circline)*

INTRODUCTION

GE introduced the first fluorescent lamp in 1939. Today, these lamps have become almost a universal standard in office and other lighting applications. The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- **Low Operating Cost:**
  Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy saving versions often designated in this catalog by Watt-Miser® (WM).
- **Long Life:**
  Life ratings for fluorescent lamps range from 6000 to 30,000 hours based on the industry standard of 3 burning hours per start, except where noted.
- **Light Quality:**
  GE Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 95%.
- **Flexibility:**
  Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.
- **Fast Starting:**
  Rapid-Start and Instant-Start lamps typically start within 1 second of being turned on.

FLUORESCENT BRAND NAME CROSS-REFERENCE

GE	*OSRAM/SYLVANIA*	*PHILIPS*
Aquarium/Terrarium	—	—
Chroma 50	Design 50®	Colortone 50
CovRguard®	—	—
Ecolux®	Ecologic	Alto
Gro & Sho™/Plant & Aquarium	GRO-LUX®	Agro-Lite
Kitchen and Bath ULTRA™	Interior Design® (D30)	Softone Pastel FL (SPEC 30)
Mod-U-Line®	Curvalume®	U-Bent
Power Groove®	—	—
Specification Series (SP)	Designer® Series (D)	SPEC Series
Specification Series (SPX)	Designer® "800" Series	Ultralume™
Starcoat®	—	—
T5	Pentron®	Silhouette™
T8	Octron®	TL70/TL80™
T10/1500MA	VHO/LT	—
/1500	VHO	VHO
Watt-Miser®	SuperSaver®	Econ-o-Watt
Watt-Miser® Plus	SuperSaver Plus®	—
XL	XP	Advantage

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturer's performance specifications and product offerings should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

See www.gelighting.com e-Catalog for a comprehensive cross-reference tool.

PRODUCT INFORMATION

GE T5 STARCOAT® ECOLUX® LAMPS (pgs 4-7 to 4-8)

- Used in a variety of applications from indirect fixtures in commerical office buildings to warehouses and manufacturing facilities
- Many combinations of wattage and length provide flexibility of fixture design and ceiling layout
- Longer rated life at 30,000 hours
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE T8 STARCOAT® ECOLUX® LAMPS (pgs 4-8 to 4-9 and 4-27)

- More light over life – 95% lumen maintenance
- Enhanced color rendering... available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE STARCOAT® ECOLUX® XL EXTRA-LIFE LAMPS (pgs 4-8 to 4-9)

- Same great features of the T8 Starcoat® Ecolux®... with longer life... up to 20% longer than standard T8 lamps

ULTRA~T8 REPLACEMENT (ENERGY-SAVING ALTERNATIVE) GE T8 30W WATT-MISER® (pg 4-9)

- Energy-saving replacement lamp for all standard T8's on Instant Start Ballast systems
- Up to 5% savings over 32W T8 systems with maintained light levels
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart PRS Ballast
- Available in XL version – 20% longer life than standard T8 lamps
- All T8 Watt-Miser® lamps are TCLP Compliant and may reduce disposal costs
- 80+ CRI (Color Rendering Index)

ULTRA~T12 RETROFIT (ENERGY-SAVING ALTERNATIVE) GE T8 28W ULTRAMAX® (pg 4-9)

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart PRS Ballast
- 80+ CRI (Color Rendering Index) and TCLP Compliant

ULTRA~NEW CONSTRUCTION (ENERGY-SAVING ALTERNATIVE) GE T8 32W HIGH LUMEN LAMPS (HL) (pg 4-10)

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 20% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP Compliant

GE T8 MOD-U-LINE® U-SHAPED FLUORESCENT LAMPS (pg 4-11)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Lower energy cost... 36% energy cost savings vs. F40T12 U-Tubes
- Longer lamp life than T12 Mod-U-Line® – 20,000 hours
- 700 and 800 Series

GE 8' T8 LAMPS (pg 4-10)

- One of the most efficient fluorescent products available, up to 97 lumens per watt (LPW)
- Single-pin based lamps designed to operate on Instant Start Ballast
- Available in longer life (XL) versions... up to 17% longer life

GE 8' T8 WATT-MISER® (XL) EXTRA LIFE LAMPS (ENERGY-SAVINGS ALTERNATIVE) (pg 4-10)

- Extra-life... lasts 17% longer than standard F96T8 lamps for reduced lamp replacement and maintenance cost
- Maximum energy savings... up to 3.5% less energy consumed than standard F96T8 lamps
- Same light output as standard lamps
- Excellent color... color enhanced SP and SPX versions
- New Watt-Miser® Plus lamp reduces wattage to 54W per lamp

GE 8' T8 HIGH OUTPUT LAMPS (pg 4-10)

- High system efficiency delivers 38% energy cost savings
- 50% longer life than T12 high output lamps
- Wide choice of color options
- Operate at 400mA

GE 4' T12 ECOLUX® RAPID START LAMPS (pgs 4-12 to 4-13 and 4-29)

- Popular for commercial lighting
- Upgrade new and existing facilities easily... change the lamp to SP/SPX color-improved lamps, available in Watt-Miser® version
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE 4' T12 WATT-MISER® ECOLUX® ENERGY-SAVING LAMPS (WM) (pg 4-12 to 4-13 and 4-28 to 4-29)

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE T12 MOD-U-LINE® U-SHAPED LAMPS (pgs 4-14 and 4-28)

- Available in standard and Watt-Miser® versions
- Operate on standard or electronic Rapid Start Ballasts

GE T12 HIGH OUTPUT LAMPS (pgs 4-16 to 4-17 and 4-29)

- High light output and long life
- Produces about 45% more initial lumens than standard lamps of the same size
- Usually operated at 800mA

GE T12 VERY HIGH OUTPUT LAMPS (pg 4-17)

- Where high light levels are required – factories, warehouses, gymnasiums, open areas
- Rapid Start, operated at 1500mA

See www.gelighting.com e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. Reduced Wattage High Color Rendering.

PRODUCT INFORMATION (CONTINUED)

COVRGUARD® SHATTER PROTECTED FLUORESCENT LAMPS (pgs 4-19 to 4-23 and 4-30)

- Polycarbonate shield effectively contains shattered glass particles if lamp is broken, protecting people, food and other valuable items
- UV blocking properties guard against fading and UV degradation
- Available in a variety of colors for decorative and architectural applications
- The covRguard® feature is available on nearly all fluorescent lamps

GE COLD-TEMPERATURE LAMPS (pg 4-23 to 4-24)

- Specifically designed for cold temperature applications such as freezers and coolers, display cases and outdoor areas
- Available in T8, T10 and T12 versions
- Rated nominal watts and initial lumens are peak values. Actual watt and lumen values may be somewhat lower in service, depending on ambient conditions.

GE APPLIANCE LAMPS (pg 4-24 to 4-25)

- Designed for intermittent service in appliances such as oven hoods and microwaves

GE BLACKLIGHT AND REPROGRAPHIC (pgs 4-25 and 4-30)

- Blacklight (BL) lamps are commonly used in insect traps
- Blacklight Blue (BLB) lamps are often used decoratively in disco lighting and theatrical applications. These lamps are produced with a special dark blue glass that filters most visible light.
- The Diazo lamp emits a blue light, peaking at approximately 417nm which is used primarily in reprographic equipment

GE CINEMA FLUORESCENT LAMPS (See Stage and Studio Section)

- Specifically designed to be used in cinematography applications and are color corrected to match the spectral sensitivity of film
- For more information and product details, visit the Stage & Studio section of this catalog

GE GOLD LAMPS (pgs 4-25 to 4-26)

- Effectively blocks all UV emissions below 520nm
- Available in covRguard®
- Used in photo-sensitive applications such as semi-conductor assembly and darkrooms

GE GERMICIDAL LAMPS (pg 4-26)

- Clear lamps with special UV transmitting glass
- The 254nm radiation penetrates and inactivates the DNA of most micro-organisms
- Used in air, water and surface purification applications

GE BALLASTS

Energy efficiency and high performance make GE Electronic Ballasts and GE Fluorescent Lamps the perfect match for total performance.

- Energy efficient – GE offers a highly efficient system to dramatically reduce electricity costs... GE UltraMax® Ballasts
- Outstanding quality
- Technical hotline provides specification and application support
- Electromagnetic, HID, CFL, and Sign ballasts also available from GE

See **GE Ballast System Catalog** for more information.

ULTRAMAX® BALLAST (pgs 4-36 to 4-37)

- The GE UltraMax® Ballast can be used with F32T8, F32T8/WM, and F28T8/UMX lamps. The UltraMax™ Ballast is Multi-Voltage for use in 120V and 277V applications.
- The UltraMax® Ballast is available in low (.77), normal (.87), and high (1.15) ballast factors.
- The UltraMax® Ballast is equipped with ArcGuard Protection, UL Type CC Anti-Arc Rating, and Striation Control.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.

Color Temperature Kelvins (K):
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Order Code:
It is important to use this five-digit code when ording to ensure that you receive the exact product you require.

Mean Lumens:
Lamp light output at 40% of rated lamp life.

Color Rendering Index (CRI or R_a):
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Nominal Length in.:
Lamp length including base and/or pins.

Initial Lumens:
Lamp light output after the initial 100 hours of operation.

Ⓔ
Means this lamp meets Federal Minimum Efficiency Standards.

Watts:
Energy used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Rated Life - Hours:
Lamp burning hours to median life expectancy.

✎
Indicates that this is a lamp with high color rendering, which helps objects and persons illuminated to appear more true to life.

Case Quantity:
Number of product units packed in a case.

Bulb:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Description:
The lamp's idenification code.

Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Base:
The type of base.

Additional Information:
Typical application and/or other important information.

Bulb	Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Foot-notes	Warning and Cautions	Additional Information
T8 STARCOAT® LAMPS														
3' T8 ECOLUX® - TCLP COMPLIANT														
T8	Medium BiPin (G13)	25	36	**45753**	**F25T8/SPX30/ECO**	24	20000	2150	2040	3000	86	✎		

F 25 T8 / SPX30 / ECO

- *Identifies as Fluorescent lamp.*
- *Identifies either the lamp's wattage or its length in inches.*
- *Identifies the lamp shape and the bulb diameter in eighths of an inch.*
- *Identifies the lamp finish or color.*
- *Identifies TCLP compliance.*

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using table on page 4-2.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 4-3.
4. Find your lamp in the table containing the bulb shape, size and base.

GE T8 ULTRA "ENERGY SAVING PRODUCTS"

REPLACEMENT FOR T8

F32T8/SP/IS/WM/ECO
F32T8/XL/SP/WM/ECO

Replace F32T8 lamps with the F32T8/WM. Up to 5% is saved instantly. For greater savings use F28T8/UMX lamps.

RETROFIT FOR T12

F28T8/SP/UMX/ECO

Retrofit 4' T12 Systems with the 28W T8 UltraMax®. The ultimate in energy efficiency. Over 40% savings realized.

NEW CONSTRUCTION

F32T8/XL/SPX/HL/ECO

De-lamp or use **fewer fixtures** in new construction. Higher light output means fewer total lamps may be needed to achieve desired footcandle levels. 5-6% higher lumens versus standard T8.

See www.gelighting.com e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. ➵ Reduced Wattage ✎ High Color Rendering.

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life 3hr/ Start	Rated Life 12hr/ Start	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI		Foot-notes	Warning and Cautions	Additional Information
T5 STARCOAT ECOLUX® LAMPS																
HIGH EFFICIENCY																
T5	Miniature BiPin (G5)	14	21.6	**31590**	**F14W/T5/830/ECO**	40	30000	36000	1350	1240	3000	85	✎	19	101	
				46671	**F14W/T5/835/ECO**	40	30000	36000	1350	1240	3500	85	✎	19	101	
				46673	**F14W/T5/841/ECO**	40	30000	36000	1350	1240	4100	85	✎	19	101	
				46674	**F14W/T5/850/ECO**	40	30000	36000	1300	1190	5000	85	✎	19	101	
				46676	**F14W/T5/865/ECO**	40	30000	36000	1250	1150	6500	85	✎	19	101	
		21	33.4	**46677**	**F21W/T5/830/ECO**	40	30000	36000	2100	1930	3000	85	✎	19	101	
				46684	**F21W/T5/835/ECO**	40	30000	36000	2100	1930	3500	85	✎	19	101	
				46687	**F21W/T5/841/ECO**	40	30000	36000	2100	1930	4100	85	✎	19	101	
				46688	**F21W/T5/850/ECO**	40	30000	36000	2000	1840	5000	85	✎	19	101	
				46689	**F21W/T5/865/ECO**	40	30000	36000	1950	1790	6500	85	✎	19	101	
		28	45.2	**46704**	**F28W/T5/830/ECO**	40	30000	36000	2900	2660	3000	85	✎	19	101	
				46705	**F28W/T5/835/ECO**	40	30000	36000	2900	2660	3500	85	✎	19	101	
				46706	**F28W/T5/841/ECO**	40	30000	36000	2900	2660	4100	85	✎	19	101	
				46707	**F28W/T5/850/ECO**	40	30000	36000	2750	2530	5000	85	✎	19	101	
				46708	**F28W/T5/865/ECO**	40	30000	36000	2700	2480	6500	85	✎	19	101	
		35	57.1	**46724**	**F35W/T5/830/ECO**	40	30000	36000	3650	3350	3000	85	✎	19	101	
				46727	**F35W/T5/835/ECO**	40	30000	36000	3650	3350	3500	85	✎	19	101	
				46735	**F35W/T5/841/ECO**	40	30000	36000	3650	3350	4100	85	✎	19	101	
				46742	**F35W/T5/850/ECO**	40	30000	36000	3500	3220	5000	85	✎	19	101	
				46743	**F35W/T5/865/ECO**	40	30000	36000	3400	3120	6500	85	✎	19	101	
HIGH OUTPUT																
T5	Miniature BiPin (G5)	24	21.6	**46699**	**F24W/T5/830/ECO**	40	30000	36000	2000	1840	3000	85	✎	19	101	
				46700	**F24W/T5/835/ECO**	40	30000	36000	2000	1840	3500	85	✎	19	101	
				46701	**F24W/T5/841/ECO**	40	30000	36000	2000	1840	4100	85	✎	19	101	
				46702	**F24W/T5/850/ECO**	40	30000	36000	1900	1740	5000	85	✎	19	101	
				46703	**F24W/T5/865/ECO**	40	30000	36000	1900	1740	6500	85	✎	19	101	
		39	33.4	**46744**	**F39W/T5/830/ECO**	40	30000	36000	3500	3220	3000	85	✎	19	101	
				46745	**F39W/T5/835/ECO**	40	30000	36000	3500	3220	3500	85	✎	19	101	
				46746	**F39W/T5/841/ECO**	40	30000	36000	3500	3220	4100	85	✎	19	101	
				46747	**F39W/T5/850/ECO**	40	30000	36000	3350	3080	5000	85	✎	19	101	
				46748	**F39W/T5/865/ECO**	40	30000	36000	3330	3060	6500	85	✎	19	101	
		54	45.2	**46759**	**F54W/T5/830/ECO**	40	30000	36000	5000	4600	3000	85	✎	19	101	
				46760	**F54W/T5/835/ECO**	40	30000	36000	5000	4600	3500	85	✎	19	101	
				46761	**F54W/T5/841/ECO**	40	30000	36000	5000	4600	4100	85	✎	19	101	
				46762	**F54W/T5/850/ECO**	40	30000	36000	4800	4410	5000	85	✎	19	101	
				46763	**F54W/T5/865/ECO**	40	30000	36000	4750	4370	6500	85	✎	19	101	
		49	57.1	**46751**	**F49W/T5/830/ECO**	40	30000	36000	4900	4500	3000	85	✎	19	101	
				46752	**F49W/T5/835/ECO**	40	30000	36000	4900	4500	3500	85	✎	19	101	
				46753	**F49W/T5/841/ECO**	40	30000	36000	4900	4500	4100	85	✎	19	101	
				46757	**F49W/T5/850/ECO**	40	30000	36000	4700	4320	5000	85	✎	19	101	
				46758	**F49W/T5/865/ECO**	40	30000	36000	4650	4270	6500	85	✎	19	101	
		80	57.1	**46802**	**F80W/T5/830/ECO**	40	30000	36000	7000	6440	3000	85	✎	19	101	
				46803	**F80W/T5/835/ECO**	40	30000	36000	7000	6440	3500	85	✎	19	101	
				46804	**F80W/T5/841/ECO**	40	30000	36000	7000	6440	4100	85	✎	19	101	
				46805	**F80W/T5/850/ECO**	40	30000	36000	6700	6160	5000	85	✎	19	101	
				46806	**F80W/T5/865/ECO**	40	30000	36000	6650	6110	6500	85	✎	19	101	

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI	Footnotes	Warning and Cautions	Additional Information
T5 PREHEAT LAMPS														
6" T5														
T5	Miniature BiPin (G5)	4	6	**10004**	**F4T5/CW**	24	5000	135	100	4100	60		101	
				15983	**F4T5/CW CARD**	10	5000	135	100	4100	60		101	
9" T5														
T5	Miniature BiPin (G5)	6	9	**10032**	**F6T5/CW**	24	5000	295	235	4100	60		101	
				15986	**F6T5/CW CARD**	10	5000	295	235	4100	60		101	
				10028	**F6T5/D**	24	5000	230	185	6500	75 Ⓔ		101	
12" T5														
T5	Miniature BiPin (G5)	8	12	**10059**	**F8T5/CW**	24	5000	400	320	4100	60		101	
				15987	**F8T5/CW CARD**	10	5000	400	320	4100	60		101	
				10055	**F8T5/D**	24	5000	330	265	6500	75 Ⓔ		101	
				10064	**F8T5/WW**	24	5000	410	330	3000	52		101	
				25425	**F8T5/WW/CARD**	5	5000	410	330	3000	52		101	
21" T5														
T5	Miniature BiPin (G5)	13	21	**10086**	**F13T5/CW**	24	5000	850	705	4100	60		101	
				49333	**F13T5/CW/CD**	5	5000	850	705	4100	60		101	
				10089	**F13T5/WW**	24	5000	870	720	3000	52		101	
				25426	**F13T5/WW/CARD**	5	5000	870	720	3000	52		101	

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life 3hr/ Start	Rated Life 12hr/ Start	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI	Footnotes	Warning and Cautions	Additional Information
T8 STARCOAT® LAMPS															
2' T8 ECOLUX® - TCLP COMPLIANT															
T8	Medium BiPin (G13)	17	24	**45741**	**F17T8/SP30/ECO**	24	20000	24000	1325	1260	3000	78 ✎	18	101	
				45743	**F17T8/SP35/ECO**	24	20000	24000	1325	1260	3500	78 ✎	18	101	
				45748	**F17T8/SP41/ECO**	24	20000	24000	1325	1260	4100	78 ✎	18	101	
				45742	**F17T8/SPX30/ECO**	24	20000	24000	1350	1280	3000	86 ✎	18	101	
				45747	**F17T8/SPX35/ECO**	24	20000	24000	1350	1280	3500	86 ✎	18	101	
				45749	**F17T8/SPX41/ECO**	24	20000	24000	1350	1280	4100	86 ✎	18	101	
2' T8 ECOLUX® XL EXTRA-LIFE															
T8	Medium BiPin (G13)	17	24	**15476**	**F17T8/XL/SP30/ECO**	24	24000	29000	1325	1260	3000	78 ✎	18	101	
				15479	**F17T8/XL/SP35/ECO**	24	24000	29000	1325	1260	3500	78 ✎	18	101	
				15480	**F17T8/XL/SP41/ECO**	24	24000	29000	1325	1260	4100	78 ✎	18	101	
				15481	**F17T8/XL/SPX30/ECO**	24	24000	29000	1350	1280	3000	86 ✎	18	101	
				15483	**F17T8/XL/SPX35/ECO**	24	24000	29000	1350	1280	3500	86 ✎	18	101	
				15484	**F17T8/XL/SPX41/ECO**	24	24000	29000	1350	1280	4100	86 ✎	18	101	
				10415	**F17T8/XL/SPX50/ECO**	24	24000	29000	1300	1235	5000	86 ✎	18	101	
				16092	**F17T8/XL/SPX65/ECO**	24	24000	29000	1250	1125	6500	85 ✎	18	101	
3' T8 ECOLUX® - TCLP COMPLIANT															
T8	Medium BiPin (G13)	25	36	**45750**	**F25T8/SP30/ECO**	24	20000	24000	2080	1970	3000	78 ✎	18	101	
				45754	**F25T8/SP35/ECO**	24	20000	24000	2080	1970	3500	78 ✎	18	101	
				45756	**F25T8/SP41/ECO**	24	20000	24000	2080	1970	4100	78 ✎	18	101	
				45753	**F25T8/SPX30/ECO**	24	20000	24000	2150	2040	3000	86 ✎	18	101	
				45755	**F25T8/SPX35/ECO**	24	20000	24000	2150	2040	3500	86 ✎	18	101	
				45757	**F25T8/SPX41/ECO**	24	20000	24000	2150	2040	4100	86 ✎	18	101	

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All footnote references found at the end of this section. ➵ Reduced Wattage ✎ High Color Rendering.

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life 3hr/ Start	Rated Life 12hr/ Start	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI		Foot-notes	Warning and Cautions	Additional Information
T8 STARCOAT® LAMPS (CONTINUED)																
3' T8 ECOLUX® XL EXTRA-LIFE																
T8	Medium BiPin (G13)	25	36	**15486**	**F25T8/XL/SP30/ECO**	24	24000	29000	2080	1970	3000	78	✎	18	101	
				15487	**F25T8/XL/SP35/ECO**	24	24000	29000	2080	1970	3500	78	✎	18	101	
				15488	**F25T8/XL/SP41/ECO**	24	24000	29000	2080	1970	4100	78	✎	18	101	
				15489	**F25T8/XL/SPX30/ECO**	24	24000	29000	2150	2040	3000	86	✎	18	101	
				15490	**F25T8/XL/SPX35/ECO**	24	24000	29000	2150	2040	3500	86	✎	18	101	
				15491	**F25T8/XL/SPX41/ECO**	24	24000	29000	2150	2040	4100	86	✎	18	101	
				10416	**F25T8/XL/SPX50/ECO**	24	24000	29000	2050	1950	5000	86	✎	18	101	
				16314	**F25T8/XL/SPX65/ECO**	24	24000	29000	1950	1755	6500	85	✎	18	101	
4' T8 ECOLUX® - TCLP COMPLIANT																
T8	Medium BiPin (G13)	32	48	**26666**	**F32T8/SP30/ECO**	36	20000	24000	2800	2660	3000	78	✎	18	101	
				26667	**F32T8/SP35/ECO**	36	20000	24000	2800	2660	3500	78	✎	18	101	
				11873	**F32T8/SP35/ECO 12PK**	12	20000	24000	2800	2660	3500	78	✎	18	101	
				26668	**F32T8/SP41/ECO**	36	20000	24000	2800	2660	4100	78	✎	18	101	
				16090	**F32T8/SP50/ECO**	36	20000	24000	2750	2610	5000	78	✎	18	101	
				16091	**F32T8/SP65/ECO**	36	20000	24000	2700	2565	6500	78	✎	18	101	
				25611	**F32T8/SPX30/ECO**	36	20000	24000	2950	2800	3000	86	✎	18	101	
				25612	**F32T8/SPX35/ECO**	36	20000	24000	2950	2800	3500	86	✎	18	101	
				25613	**F32T8/SPX41/ECO**	36	20000	24000	2950	2800	4100	86	✎	18	101	
				42064	**F32T8/SPX50/ECO**	36	20000	24000	2800	2660	5000	86	✎	18	101	
4' T8 ECOLUX® XL EXTRA-LIFE																
T8	Medium BiPin (G13)	32	48	**27616**	**F32T8/XL/SP30ECO**	36	24000	29000	2800	2660	3000	78	✎	18	101	
				27617	**F32T8/XL/SP35ECO**	36	24000	29000	2800	2660	3500	78	✎	18	101	
				27618	**F32T8/XL/SP41ECO**	36	24000	29000	2800	2660	4100	78	✎	18	101	
				27619	**F32T8/XL/SPX30ECO**	36	24000	29000	2950	2800	3000	86	✎	18	101	
				27620	**F32T8/XL/SPX35ECO**	36	24000	29000	2950	2800	3500	86	✎	18	101	
				27621	**F32T8/XL/SPX41ECO**	36	24000	29000	2950	2800	4100	86	✎	18	101	
				16313	**F32T8/XL/SPX50/ECO**	36	24000	29000	2800	2660	5000	86	✎	18	101	
				16089	**F32T8/XL/SPX65/ECO**	36	24000	29000	2750	2475	6500	85	✎	18	101	
4' T8 ECOLUX® SUPER LONG LIFE																
T8	Medium BiPin (G13)	32	48	**49702**	**F32T8/SXL/SP30/ECO**	36	30000	36000	2850	2675	3000	84	✎	18	101	
				49778	**F32T8/SXL/SP35/ECO**	36	30000	36000	2850	2675	3500	83	✎	18	101	
				49779	**F32T8/SXL/SP41/ECO**	36	30000	36000	2850	2675	4100	81	✎	18	101	
ULTRA ENERGY SAVING T8 LAMPS																
4' T8 ECOLUX® WATT-MISER®																
T8	Medium BiPin (G13)	30	48	**48277**	**F32T8/SP30/IS/WM/ECO**	36	20000	24000	2850	2675	3000	84	Ⓔ ✎ ↘	1,18	101	
				48278	**F32T8/SP35/IS/WM/ECO**	36	20000	24000	2850	2675	3500	83	Ⓔ ✎ ↘	1,18	101	
				48279	**F32T8/SP41/IS/WM/ECO**	36	20000	24000	2850	2675	4100	81	Ⓔ ✎ ↘	1,18	101	
				11791	**F32T8/SP50/IS/WM/ECO**	36	20000	24000	2750	2585	5000	80	Ⓔ ✎ ↘	1,18	101	
4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE																
T8	Medium BiPin (G13)	30	48	**48521**	**F32T8/XL/SP30/WM/ECO**	36	24000	29000	2800	2625	3000	84	Ⓔ ✎ ↘	1,18	101	
				48522	**F32T8/XL/SP35/WM/ECO**	36	24000	29000	2800	2625	3500	83	Ⓔ ✎ ↘	1,18	101	
				48523	**F32T8/XL/SP41/WM/ECO**	36	24000	29000	2800	2625	4100	81	Ⓔ ✎ ↘	1,18	101	
				42553	**F32T8/XL/SP50/WM/ECO**	36	24000	29000	2700	2540	5000	80	Ⓔ ✎ ↘	1,18	101	
4' T8 ECOLUX® ULTRAMAX®																
T8	Medium BiPin (G13)	28	48	**00255**	**F28T8/SP30/UMX/ECO**	36	18000	24000	2750	2585	3000	85	Ⓔ ✎ ↘	1,18	101	
				00256	**F28T8/SP35/UMX/ECO**	36	18000	24000	2750	2585	3500	85	Ⓔ ✎ ↘	1,18	101	
				00257	**F28T8/SP41/UMX/ECO**	36	18000	24000	2750	2585	4100	82	Ⓔ ✎ ↘	1,18	101	
				42554	**F28T8/SP50/UMX/ECO**	36	18000	24000	2650	2490	5000	80	Ⓔ ✎ ↘	1,18	101	

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ULTRA ENERGY SAVING T8 LAMPS															
4' T8 ECOLUX® HIGH LUMEN															
T8	Medium Bipin (G13)	32	48	**10327**	**F32T8/XL/SPX30/HL/ECO**	36	24000	29000	3100	2915	3000	85 Ⓔ ✐ ↯	18	101	
				10326	**F32T8/XL/SPX35/HL/ECO**	36	24000	29000	3100	2915	3500	85 Ⓔ ✐	18	101	
				10322	**F32T8/XL/SPX41/HL/ECO**	36	24000	29000	3100	2915	4100	82 Ⓔ ✐	18	101	
				42556	**F32T8/XL/SPX50/HL/ECO**	36	24000	29000	3000	2820	5000	80 Ⓔ ✐	18	101	
F25T12 ECOLUX® FOR T8 BALLASTS															
T12	Medium BiPin (G13)	25	48	**80066**	**F25T12/SP30/ECO**	30	15000	20000	2300	2140	3000	70 Ⓔ ✐ ↯	18	101	
				80067	**F25T12/SP35/ECO**	30	15000	20000	2300	2140	3500	70 Ⓔ ✐ ↯	18	101	
				80076	**F25T12/SP41/ECO**	30	15000	20000	2300	2140	4100	70 Ⓔ ✐ ↯	18	101	
8' T8 LAMPS															
8' T8															
T8	Single Pin (Fa8)	59	96	**23407**	**F96T8/SP30**	24	15000	20000	5800	5500	3000	78 Ⓔ ✐		101	
				23411	**F96T8/SP35**	24	15000	20000	5800	5500	3500	78 Ⓔ ✐		101	
				23412	**F96T8/SP41**	24	15000	20000	5800	5500	4100	78 Ⓔ ✐		101	
				23414	**F96T8/SPX30**	24	15000	20000	5950	5650	3000	86 Ⓔ ✐		101	
				23415	**F96T8/SPX35**	24	15000	20000	5950	5650	3500	86 Ⓔ ✐		101	
				23416	**F96T8/SPX41**	24	15000	20000	5950	5650	4100	86 Ⓔ ✐		101	
				23575	**F96T8/SPX50**	24	15000	20000	5950	5650	5000	86 Ⓔ ✐		101	
8' T8 XL EXTRA-LIFE															
T8	Single Pin (Fa8)	59	96	**41889**	**F96T8/XL/SP30**	24	24000	29000	5800	5500	3000	78 Ⓔ ✐		101	
				41890	**F96T8/XL/SP35**	24	24000	29000	5800	5500	3500	78 Ⓔ ✐		101	
				41891	**F96T8/XL/SP41**	24	24000	29000	5800	5500	4100	78 Ⓔ ✐		101	
				41892	**F96T8/XL/SPX30**	24	24000	29000	5950	5650	3000	86 Ⓔ ✐		101	
				41893	**F96T8/XL/SPX35**	24	24000	29000	5950	5650	3500	86 Ⓔ ✐		101	
				41894	**F96T8/XL/SPX41**	24	24000	29000	5950	5650	4100	86 Ⓔ ✐		101	
				45497	**F96T8/XL/SPX50**	24	24000	29000	5950	5650	5000	86 Ⓔ ✐		101	
8' T8 XL EXTRA-LIFE WATT-MISER® ENERGY SAVING LAMPS															
T8	Single Pin (Fa8)	57	96	**48524**	**F96T8/XL/SP30/WM**	24	24000	29000	5800	5450	3000	84 Ⓔ ✐ ↯	1	101	
				48525	**F96T8/XL/SP35/WM**	24	24000	29000	5800	5450	3500	83 Ⓔ ✐ ↯	1	101	
				48526	**F96T8/XL/SP41/WM**	24	24000	29000	5800	5450	4100	81 Ⓔ ✐ ↯	1	101	
8' T8 XL EXTRA-LIFE WATT-MISER® PLUS ENERGY SAVING LAMPS															
T8	Single Pin (Fa8)	54	96	**47072**	**F96T8/XL/SP30/WMP**	24	24000	29000	5800	5450	3000	84 Ⓔ ✐ ↯	1	101	
				47076	**F96T8/XL/SP35/WMP**	24	24000	29000	5800	5450	3500	83 Ⓔ ✐ ↯	1	101	
				47103	**F96T8/XL/SP41/WMP**	24	24000	29000	5800	5450	4100	81 Ⓔ ✐ ↯	1	101	

Bulb	Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI	Foot-notes	Warning and Cautions	Additional Information
8' T8 HIGH OUTPUT														
8' T8 HIGH OUTPUT - RECESSED DOUBLE CONTACT														
T8	R17d	86	96	**12536**	**F96T8/SP30/HO**	24	18000	8000	7600	3000	78 Ⓔ ✐		101	
				12537	**F96T8/SP35/HO**	24	18000	8000	7600	3500	78 Ⓔ ✐		101	
				12538	**F96T8/SP41/HO**	24	18000	8000	7600	4100	78 Ⓔ ✐		101	
				12533	**F96T8/SPX35/HO**	24	18000	8200	7800	3500	86 Ⓔ ✐		101	
				12534	**F96T8/SPX41/HO**	24	18000	8200	7800	4100	86 Ⓔ ✐		101	
				12535	**F96T8/SPX50/HO**	24	18000	8200	7800	5000	86 Ⓔ ✐		101	1
8' T8 INSTANT START														
T8	Single Pin (Fa8)	50	96	**10912**	**F96T8/CW**	24	7500	4050	3730	4100	60		101	

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Bulb	Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Footnotes	Warning and Cautions	Additional Information
T8 MOD-U-LINE®														
T8 1 5/8" SPACING														
T8	Medium BiPin (G13)	31	22.5	**41776**	**F31T8/SPX30/U**	15	20000	2725	2500	3000	82	Ⓔ ✎	105	
				41777	**F31T8/SPX35/U**	15	20000	2725	2500	3500	82	Ⓔ ✎	105	
				41778	**F31T8/SPX41/U**	15	20000	2725	2500	4100	82	Ⓔ ✎	105	
T8 6" SPACING														
T8	Medium BiPin (G13)	32	22.5	**10479**	**F32T8/SP30/U/6**	12	20000	2700	2565	3000	78	Ⓔ ✎	105	
				23585	**F32T8/SP35/U/6**	12	20000	2700	2565	3500	78	Ⓔ ✎	105	
				10480	**F32T8/SP41/U/6**	12	20000	2700	2565	4100	78	Ⓔ ✎	105	
				10483	**F32T8/SPX30/U/6**	12	20000	2800	2630	3000	86	Ⓔ ✎	105	
				10485	**F32T8/SPX35/U/6**	12	20000	2800	2630	3500	86	Ⓔ ✎	105	
				10488	**F32T8/SPX41/U/6**	12	20000	2800	2630	4100	86	Ⓔ ✎	105	
				10489	**F32T8/SPX50/U/6**	12	20000	2660	2510	5000	86	Ⓔ ✎	105	
OTHER T8 LENGTHS														
18" T8 W/ STARCOAT®														
T8	Medium BiPin (G13)	15	18	**49489**	**FE15T8/XL/SPX65**	24	24000	875	785	6500	85	✎	101	Use with Electronic Ballast Only
5' T8 W/ STARCOAT®														
T8	Medium BiPin (G13)	40	60	**15950**	**F40T8/SP30**	24	20000	3600	3420	3000	75	✎	101	
				15951	**F40T8/SP35**	24	20000	3600	3420	3500	75	✎	101	
				15952	**F40T8/SP41**	24	20000	3600	3420	4100	75	✎	101	
				22660	**F40T8/SPX30**	24	20000	3725	3350	3000	84	✎	101	
				22661	**F40T8/SPX35**	24	20000	3725	3350	3500	84	✎	101	
				22662	**F40T8/SPX41**	24	20000	3725	3350	4100	84	✎	101	
6' T8 INSTANT START														
T8	Single Pin (Fa8)	35	72	**10829**	**F72T8/CW**	24	7500	3000	2730	4100	60		101	
				10835	**F72T8/WW 6PK**	6	7500	3100	2820	3000	52		101	Warm White
T8 POLYLUX®														
2' T8 POLYLUX®														
T8	Medium Bipin (G13)	18	24	**93311**	**F18T8/835PLYXLR**	25	20000	1350	1280	3500	85	✎	101	
				93317	**F18T8/841PLYXLR**	25	20000	1350	1280	4100	85	✎	101	
4' T8 POLYLUX®														
T8	Medium Bipin (G13)	36	48	**19991**	**F36T8/835PLYXLR**	25	20000	3350	3180	3500	85	✎	101	
				16856	**F36T8/841PLYXLR**	25	20000	3350	3180	4100	85	✎	101	
6' T8 POLYLUX®														
T8	Medium Bipin (G13)	58	60	**40120**	**F58T8/835PLYLXLR**	25	20000	5200	4940	3500	85	✎	101	
				40081	**F58T8/841PLYLXLR**	25	20000	5200	4940	4000	85	✎	101	
7' T8 POLYLUX®														
T8	Medium Bipin (G13)	70	72	**39451**	**F70T8/835PLYXLR**	25	20000	6300	5985	3500	85	✎	101	
				39452	**F70T8/840PLYXLR**	25	20000	6300	5985	4000	85	✎	101	
T8 PREHEAT														
12" T8														
T8	Medium BiPin (G13)	13	12	**10098**	**F13T8/CW**	24	7500	565	480	4100	60		101	
15" T8														
T8	Medium BiPin (G13)	14	15	**10104**	**F14T8/CW**	24	7500	685	580	4100	60		101	
18" T8														
T8	Medium BiPin (G13)	15	18	**17911**	**F15T8/SP35**	24	7500	940	850	3500	75	✎	101	
				19643	**F15T8/SP41**	24	7500	940	850	4100	72	✎	101	
				19644	**F15T8/SPX30**	24	7500	1000	900	3000	82	✎	101	
				19645	**F15T8/SPX35**	24	7500	1000	900	3500	82	✎	101	
				10142	**F15T8/CW**	24	7500	825	725	4100	60		101	

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI	Foot-notes	Warning and Cautions	Additional Information
T8 PREHEAT (CONTINUED)														
18" T8 (CONTINUED)														
T8	Medium BiPin (G13)	15	18	**10143**	**F15T8/CW 6PK**	24	7500	825	725	4100	60	✎	101	
				10134	**F15T8/D**	24	7500	700	615	6500	75	✎	101	Daylight
				21326	**F15T8/KB 6PK**	24	7500	940	850	3000	70	✎	101	Kitchen & Bath
				13968	**F15T8/SUN 6PK**	24	7500	620	525	5000	90	✎	101	Sunlight
				10147	**F15T8/WW**	24	7500	845	745	3000	52		101	Warm White
36" T8														
T8	Medium BiPin (G13)	30	36	**16323**	**F30T8/SPX30**	24	7500	2300	2140	3000	82	✎	101	
				10316	**F30T8/CW 6PK**	24	7500	2175	1980	4100	60		101	
				10310	**F30T8/D**	24	7500	1850	1625	6500	75	✎	101	Daylight
				22747	**F30T8/KB 6PK**	24	7500	2125	1910	3000	70	✎	101	Kitchen & Bath
				10318	**F30T8/WW**	24	7500	2150	1880	3000	52		101	Warm White
T12 LAMPS														
3' T12 ECOLUX® - RAPID START														
25W														
T12	Medium BiPin (G13)	25	36	**80080**	**F25T12/SP30/RS/WM/ECO**	24	18000	2025	1780	3000	70	✎	101	
				80081	**F25T12/SP35/RS/WM/ECO**	24	18000	2025	1780	3500	73	✎	101	
				80065	**F25T12/CW/RS/WM/ECO**	24	18000	1925	1640	4100	60		101	
				80077	**F25T12/WW/RS/WM/ECO**	24	18000	1975	1680	3000	52		101	Warm White
30W														
T12	Medium BiPin (G13)	30	36	**80087**	**F30T12/SP35/RS/ECO**	24	18000	2350	2120	3500	73	✎	101	
				80088	**F30T12/SP41/RS/ECO**	24	18000	2350	2120	4100	72	✎	101	
				80089	**F30T12/SPX30/RS/ECO**	24	18000	2375	2140	3000	82	✎	101	
				80090	**F30T12/SPX35/RS/ECO**	24	18000	2375	2140	3500	82	✎	101	
				80083	**F30T12/C50/RS/ECO**	24	18000	1650	1350	5000	90	✎	101	Chroma 50
				80084	**F30T12/CW/RS/ECO**	24	18000	2200	1910	4100	60		101	
				80085	**F30T12/CW/RS/ECO 6PK**	24	18000	2200	1910	4100	60		101	
				80086	**F30T12/D/RS/ECO**	24	18000	1900	1650	6500	75	✎	101	Daylight
				80091	**F30T12/WW/RS/ECO**	24	18000	2275	1980	3000	52		101	Warm White
4' T12 - RAPID START														
32W WATT-MISER® PLUS														
T12	Medium BiPin (G13)	32	48	**14225**	**F40/SP35/RS/WMP 30PK**	30	20000	2650	2400	3500	80	Ⓔ ✎ ⚡ 1	101	
				14224	**F40/SP41/RS/WMP 30PK**	30	20000	2650	2400	3500	80	Ⓔ ✎ ⚡ 1	101	
				14221	**F40/CW/RS/WMP 30PK**	30	20000	2500	2200	4100	60	Ⓔ ✎ ⚡ 1	101	
34W WATT-MISER® ECOLUX® - TCLP COMPLIANT														
T12	Medium BiPin (G13)	34	48	**23163**	**F34/SP30/RS/WM/ECO**	30	20000	2750	2475	3000	70	Ⓔ ✎ ⚡ 1	101	
				25401	**F34/SP30/RS/WM/ECO/UPC**	30	20000	2750	2475	3000	70	Ⓔ ✎ ⚡ 1	101	
				23165	**F34/SP35/RS/WM/ECO**	30	20000	2750	2475	3500	73	Ⓔ ✎ ⚡ 1	101	
				23486	**F34/SP35/WM/ECO/C**	10	20000	2750	2475	3500	73	Ⓔ ✎ ⚡ 1	101	
				21858	**F34/SP35/RS/WM/ECO/UPC6P**	24	20000	2750	2475	3500	73	Ⓔ ✎ ⚡ 1	101	
				23166	**F34/SP41/RS/WM/ECO**	30	20000	2750	2475	4100	72	Ⓔ ✎ ⚡ 1	101	
				25397	**F34/SP41/RS/WM/ECO/UPC**	30	20000	2750	2475	4100	72	Ⓔ ✎ ⚡ 1	101	
				41563	**F34/SP65/RS/WM/ECO**	30	20000	2650	2430	6500	75	Ⓔ ✎ ⚡ 1	101	
				23157	**F34/SPX30/RS/WM/ECO**	30	20000	2900	2610	3000	82	Ⓔ ✎ ⚡ 1	101	
				23158	**F34/SPX35/RS/WM/ECO**	30	20000	2900	2610	3500	82	Ⓔ ✎ ⚡ 1	101	
				23159	**F34/SPX41/RS/WM/ECO**	30	20000	2900	2610	4100	80	Ⓔ ✎ ⚡ 1	101	
				80095	**F34/SPX50/RS/WM/ECO**	30	20000	2700	2430	5000	80	Ⓔ ✎ ⚡ 1	101	
				80092	**F34/C50/RS/WM/ECO**	30	20000	2000	1720	5000	90	Ⓔ ✎ ⚡ 1	101	Chroma 50
				23010	**F34/CW/RS/WM/ECO**	30	20000	2650	2280	4100	60	Ⓔ ✎ ⚡ 1	101	

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T12 LAMPS (CONTINUED)														
34W WATT-MISER® ECOLUX® - TCLP COMPLIANT (CONTINUED)														
T12	Medium BiPin (G13)	34	48	**25391**	**F34/CW/RS/WM/ECO/UPC**	30	20000	2650	2280	4100	60 Ⓔ ⚡	1		101
				23485	**F34/CW/RS/WM/EC0/C 10PK**	10	20000	2650	2280	4100	60 Ⓔ ⚡	1		101
				80093	**F34/DX/RS/WM/ECO**	30	20000	1950	1620	6500	84 Ⓔ ✎ ⚡	1		101 Daylight Deluxe
				80094	**F34/LW/RS/WM/ECO**	30	20000	2825	2430	4200	49 Ⓔ ⚡	1		101 Lite White
				45065	**F34/WW/RS/WM/ECO**	30	20000	2700	2320	3000	52 Ⓔ ⚡	1		101 Warm White
				25398	**F34/WW/RS/WM/ECO/UPC**	30	20000	2700	2320	3000	52 Ⓔ ⚡	1		101 Warm White
40W ECOLUX® - TCLP COMPLIANT														
T12	Medium BiPin (G13)	40	48	**80099**	**F40/SP30/ECO**	30	20000	3250	2950	3000	70 Ⓔ ✎			101
				80186	**F40/SP35/ECO**	30	20000	3200	2910	3500	73 Ⓔ ✎			101
				80187	**F40/SP41/ECO**	30	20000	3200	2910	4100	72 Ⓔ ✎			101
				23382	**F40/SP41/ECO/C**	10	20000	3200	2910	4100	72 Ⓔ ✎			101
				80188	**F40/SP65/ECO**	30	20000	3050	2775	6500	75 Ⓔ ✎			101
				25400	**F40/SP65/ECO/UPC**	30	20000	3050	2775	6500	75 Ⓔ ✎			101
				80189	**F40/SPX30/ECO**	30	20000	3400	3090	3000	82 Ⓔ ✎			101
				80190	**F40/SPX35/ECO**	30	20000	3400	3090	3500	82 Ⓔ ✎			101
				80191	**F40/SPX41/ECO**	30	20000	3350	3050	4100	80 Ⓔ ✎			101
				80199	**F40/SPX50/ECO**	30	20000	3200	2860	5000	80 Ⓔ ✎			101
				80096	**F40/C50/ECO**	30	20000	2250	1870	5000	90 ✎			101 Chroma 50
				25399	**F40/C50/ECO/UPC**	30	20000	2250	1870	5000	90 ✎			101 Chroma 50
				13795	**F40/C75 30PK**	30	20000	1950	1680	7500	92 ✎			101 Chroma 75, non-TCLP compliant
				13969	**F40/D/ULTRA/ECO 6PK**	24	20000	3050	2775	6500	75 Ⓔ ✎			101 Daylight
				80097	**F40/DX/ECO**	30	20000	2250	1910	6500	84 Ⓔ ✎			101 Daylight Deluxe
				40333	**F40/KB/ECO 2PK**	9	20000	3400	3090	3000	70 Ⓔ ✎			101 Kitchen & Bath
				21323	**F40/KB/ECO 6PK**	24	20000	3400	3090	3000	70 Ⓔ ✎			101 Kitchen & Bath
				80098	**F40/N/ECO**	30	20000	2100	1740	3700	90 ✎			101 Natural
				12224	**F40/SUN/ECO 6PK**	24	20000	2250	1870	5000	90 ✎			101 Sunlight
				14440	**F40/RES/ECO/SLV**	30	15000	3150	2860	4100	72 Ⓔ ✎			101
				14433	**F40/RES/ECO/SLV 6PK**	24	15000	3150	2860	4100	72 Ⓔ ✎			101
				14441	**F40/RES/ECO TWN 9PK**	9	15000	3150	2860	4100	72 Ⓔ ✎			101
40W ECOLUX® XL EXTRA-LIFE														
T12	Medium BiPin (G13)	40	48	**80217**	**F40/XL/SP30/ECO**	30	24000	3300	2970	3000	75 Ⓔ ✎			101
				80224	**F40/XL/SP35/ECO**	30	24000	3300	2970	3500	75 Ⓔ ✎			101
				80227	**F40/XL/SP41/ECO**	30	24000	3300	2970	4100	73 Ⓔ ✎			101
				80230	**F40/XL/SPX30/ECO**	30	24000	3400	3060	3000	82 Ⓔ ✎			101
				80248	**F40/XL/SPX35/ECO**	30	24000	3400	3060	3500	82 Ⓔ ✎			101
				80249	**F40/XL/SPX41/ECO**	30	24000	3400	3060	4100	80 Ⓔ ✎			101
				80250	**F40/XL/SPX50/ECO**	30	24000	3350	3050	5000	80 Ⓔ ✎			101
25W ECOLUX® UTILITY SHOPLIGHT														
T12	Medium BiPin (G13)	25	48	**14450**	**F48/25W/UTECO/SL**V	30	12000	1860	1675	4100	60	10		101
				14456	**F48/25W/UTECO/TWN**	9	12000	1860	1675	4100	60	10		101
				14445	**F48/25W/UTECO/UPC**	30	12000	1860	1675	4100	60	10		101

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T12 LAMPS (CONTINUED)														
T12 MOD-U-LINE®														
T12 3 5/8" SPACING														
T12	Medium BiPin (G13)	40	22.5	**15259**	**F40/SP30/U/3**	12	14000	2925	2660	3000	70 Ⓔ ✎		105	
				14228	**F40/SP35/U/3**	12	14000	2925	2660	3500	73 Ⓔ ✎		105	
				15260	**F40/SP41/U/3**	12	14000	2925	2660	4100	72 Ⓔ ✎		105	
				14814	**F40/SPX30/U/3**	12	14000	3000	2730	3000	82 Ⓔ ✎		105	
				14813	**F40/SPX35/U/3**	12	14000	3000	2730	3500	82 Ⓔ ✎		105	
				14649	**F40/SCW/U/3**	12	14000	2725	2400	4100	75 Ⓔ ✎		105	Super Cool White
T12 6" SPACING														
T12	Medium BiPin (G13)	40	22.5	**15263**	**F40/SP30/U/6**	12	14000	3050	2780	3000	70 Ⓔ ✎		105	
				14227	**F40/SP35/U/6**	12	14000	3050	2780	3500	73 Ⓔ ✎		105	
				22050	**F40/SP35/U/6/UPC**	12	14000	3050	2780	3500	73 Ⓔ ✎		105	
				15265	**F40/SP41/U/6**	12	14000	3050	2780	4100	72 Ⓔ ✎		105	
				14816	**F40/SPX30/U/6**	12	14000	3100	2820	3000	82 Ⓔ ✎		105	
				14648	**F40/SCW/U/6**	12	14000	2800	2460	4100	75 Ⓔ ✎		105	Super Cool White
				25374	**F40/SCW/U6/UPC 6PK**	6	14000	2800	2460	4100	75 Ⓔ ✎		105	Super Cool White
				14815	**F40/SPX35/U/6**	12	14000	3100	2820	3500	82 Ⓔ ✎		105	
				14632	**F40/SWW/U/6**	12	14000	2800	2460	3000	75 Ⓔ ✎		105	Super Warm White
WATT-MISER® ENERGY SAVING LAMPS														
T12 3 5/8" SPACING WATT-MISER®														
T12	Medium BiPin (G13)	35	22.5	**12199**	**F35/CW/U/3/WM**	12	14000	2200	2050	4100	60 Ⓔ ➶	1	105	
				12200	**F35/WW/U/3/WM**	12	14000	2300	2100	3000	52 Ⓔ ➶	1	105	Warm White
T12 6" SPACING WATT-MISER®														
T12	Medium BiPin (G13)	35	22.5	**12203**	**F35/CW/U/6/WM**	12	14000	2300	2100	4100	60 Ⓔ ➶	1	105	
				14471	**F35/CW/U/6/WM/UPC**	12	14000	2300	2100	4100	60 Ⓔ ➶	1	105	
				23383	**F35/CW/U6/WM/C**	6	14000	2300	2100	4100	60 Ⓔ ➶	1	105	
				12207	**F35/WW/U/6/WM**	12	14000	2350	2150	3000	52 Ⓔ ➶	1	105	Warm White
T12 6" SPACING WATT-MISER® ECOLUX®														
T12	Medium BiPin (G13)	34	22.5	**15622**	**F34/CW/U/6/WM/ECO**	12	18000	2600	2235	4200	62 Ⓔ ➶	1	105	
T12 INSTANT START														
T12	Single Pin (Fa8)	20	24	**10691**	**F24T12/CW**	24	7500	1050	900	4100	60		101	
		30	36	**10709**	**F36T12/CW**	24	7500	2000	1800	4100	60		101	
		35	42	**10735**	**F42T12/CW**	24	7500	2400	2210	4100	60		101	
		40	48	**15262**	**F48T12/SP35**	24	9000	3000	2820	3500	73 ✎		101	
				15088	**F48T12/SPX30**	24	9000	3050	2870	3000	82 ✎		101	
				15116	**F48T12/SPX35**	24	9000	3050	2870	3500	82 ✎		101	
				10748	**F48T12/CW**	24	9000	2875	2650	4100	60		101	
				20461	**F48T12/CW/UPC 6PK**	24	9000	2875	2650	4100	60		101	
WATT-MISER® ENERGY SAVING LAMPS														
T12	Single Pin (Fa8)	30	48	**14319**	**F48T12/SP35/WM**	24	9000	2575	2420	3500	73 ✎ ➶	1	101	
				13048	**F48T12/SP41/WM**	24	9000	2575	2420	4100	72 ✎ ➶	1	101	
				44967	**F48T12/CW/WM**	24	9000	2475	2400	2210	60 ✎ ➶	1	101	
8' T12 INSTANT START														
8' INSTANT START STANDARD														
T12	Single Pin (Fa8)	75	96	**15357**	**F96T12/SP30 15PK**	15	12000	6500	6110	3000	70 Ⓔ ✎		101	
				14067	**F96T12/SP35 15PK**	15	12000	6500	6110	3500	73 Ⓔ ✎		101	
				15358	**F96T12/SP41 15PK**	15	12000	6500	6110	4100	72 Ⓔ ✎		101	
				12127	**F96T12/SP65**	15	12000	6125	5760	6500	75 Ⓔ ✎		101	
				15110	**F96T12/SPX30 15PK**	15	12000	6800	6390	3000	82 Ⓔ ✎		101	

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T12 LAMPS (CONTINUED)														
8' T12 INSTANT START (CONTINUED)														
8' INSTANT START STANDARD (CONTINUED)														
T12	Single Pin (Fa8)	75	96	**15101**	**F96T12/SPX35 15PK**	15	12000	6800	6390	3500	82 Ⓔ ✎		101	
				15335	**F96T12/SPX41 15PK**	15	12000	6800	6390	4100	80 Ⓔ ✎		101	
				23466	**F96T12/SPX50 15PK**	15	12000	6250	5880	5000	80 Ⓔ ✎		101	
				14652	**F96T12/DX**	15	12000	4500	4050	6500	84 Ⓔ ✎		101	Daylight Deluxe
				13725	**F96T12/N 15PK**	15	12000	4250	3740	3700	90 ✎		101	Natural
				13752	**F96T12/C50**	15	12000	4600	4050	5000	90 ✎		101	Chroma 50
				25387	**F96T12/C50/UPC**	15	12000	4600	4050	5000	90 ✎		101	Chroma 50
8' INSTANT START XL EXTRA-LIFE														
T12	Single Pin (Fa8)	75	96	**23576**	**F96T12/XL/SP35**	15	15000	6700	6180	3500	75 Ⓔ ✎		101	
				11661	**F96T12/XL/SP41**	15	15000	6700	6180	4100	73 Ⓔ ✎		101	
				11664	**F96T12/XL/SPX41**	15	15000	6900	6370	4100	80 Ⓔ ✎		101	
				11665	**F96T12/XL/SPX50**	15	15000	6425	5930	5000	80 Ⓔ ✎		101	
WATT-MISER® ENERGY SAVING LAMPS														
8' INSTANT START WATT-MISER®														
T12	Single Pin (Fa8)	60	96	**14201**	**F96T12/SP30/WM 15PK**	15	12000	5700	5360	3000	70 Ⓔ ✎ ➶	1	101	
				13849	**F96T12/SP35/WM 15PK**	15	12000	5700	5360	3500	73 Ⓔ ✎ ➶	1	101	
				21856	**F96T12/SP35/WM/UPC**	15	12000	5700	5360	3500	73 Ⓔ ✎ ➶	1	101	
				11217	**F96T12/SP35/WM/C 10PK**	10	12000	5700	5360	3500	73 Ⓔ ✎ ➶	1	101	
				13758	**F96T12/SP41/WM 15PK**	15	12000	5700	5360	4100	72 Ⓔ ✎ ➶	1	101	
				25395	**F96T12/SP41/WM/UPC**	15	12000	5700	5360	4100	72 Ⓔ ✎ ➶	1	101	
				25171	**F96T12/UTCW/EE/C**	10	12000	5500	5060	4100	60 Ⓔ ✎ ➶	1	101	
				12128	**F96T12/SP65/WM**	15	12000	5100	4800	6500	75 Ⓔ ✎ ➶	1	101	
				14629	**F96T12/SPX30/WM 15PK**	15	12000	6000	5640	3000	82 Ⓔ ✎ ➶	1	101	
				14630	**F96T12/SPX35/WM 15PK**	15	12000	6000	5640	3500	82 Ⓔ ✎ ➶	1	101	
				13756	**F96T12/C50/WM 15PK**	15	12000	4000	3520	5000	90 Ⓔ ✎ ➶	1	101	Chroma 50
				13729	**F96T12/CW/WM15PK**	15	12000	5500	5060	4100	60 Ⓔ ➶	1	101	
				21713	**F96T12/CW/WM/UPC 10PK**	10	12000	5500	5060	4100	60 Ⓔ ➶	1	101	
				13742	**F96T12/LW/WM 15PK**	15	12000	5800	5340	4200	49 Ⓔ ➶	1	101	Lite White
				13736	**F96T12/WW/WM 15PK**	15	12000	5700	5240	3000	52 Ⓔ ➶	1	101	Warm White
8' INSTANT START WATT-MISER® XL EXTRA-LIFE														
T12	Single Pin (Fa8)	60	96	**12406**	**F96T12/XL/SP35/WM**	15	15000	5900	5480	3500	75 Ⓔ ✎ ➶	1	101	
				12408	**F96T12/XL/SP41/WM**	15	15000	5900	5480	4100	73 Ⓔ ✎ ➶	1	101	
8' INSTANT START WATT-MISER® ECOLUX®														
T12	Single Pin (Fa8)	60	96	**27233**	**F96T12/SP35/WM/ECO**	15	12000	5700	5360	3500	73 Ⓔ ✎ ➶	1	101	
				27235	**F96T12/SP41/WM/ECO**	15	12000	5700	5360	4100	72 Ⓔ ✎ ➶	1	101	
				40373	**F96T12/SP65/WM/ECO**	15	12000	5100	4800	6500	75 Ⓔ ✎ ➶	1	101	
				27237	**F96T12/SPX30/WM/ECO**	15	12000	6000	5640	3000	82 Ⓔ ✎ ➶	1	101	
				27238	**F96T12/SPX35/WM/ECO**	15	12000	6000	5640	3500	82 Ⓔ ✎ ➶	1	101	
				27186	**F96T12/CW/WM/ECO**	15	12000	5500	5060	4100	60 Ⓔ ➶	1	101	
T12 OTHER LENGTHS														
5' T12 INSTANT START														
T12	Single Pin (Fa8)	50	60	**23073**	**F60T12/CW 15PK**	15	12000	3600	3310	4100	60		101	
				23076	**F60T12/D 15PK**	15	12000	3000	2760	6500	75 ✎		101	Daylight
64" T12 INSTANT START														
T12	Single Pin (Fa8)	50	64	**23082**	**F64T12/CW15PK**	15	10000	3850	3540	4100	60		101	
				23085	**F64T12/D 15PK**	15	10000	3300	3040	6500	75 ✎		101	Daylight

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T12 LAMPS (CONTINUED)														
T12 OTHER LENGTHS (CONTINUED)														
6' T12 INSTANT START®														
T12	Single Pin (Fa8)	55	72	**15286**	**F72T12/SP35 15PK**	15	12000	4700	4420	3500	73	✎	101	
				15097	**F72T12/SP41**	15	12000	4700	4420	4100	72	✎	101	
				15117	**F72T12SPX30 15PK**	15	12000	4800	4510	3000	82	✎	101	
				15098	**F72T12/SPX35 15PK**	15	12000	4800	4510	3500	82	✎	101	
				13743	**F72T12/CW 15PK**	15	12000	4500	4140	4100	60		101	
				23385	**F72T12/CW/C**	10	12000	4500	4140	4100	60		101	
				12525	**F72T12/CW/UPC 10PK**	10	12000	4500	4140	4100	60		101	
				13748	**F72T12/D 15PK**	15	12000	3800	3500	6500	75	✎	101	Daylight
7' T12 INSTANT START®														
T12	Single Pin (Fa8)	65	84	**13764**	**F84T12/CW 15PK**	15	12000	5300	4880	4100	60		101	
T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT														
18" HIGH OUTPUT														
T12	R17d	30	18	**10204**	**F18T12/CW/HO**	24	9000	1000	750	4100	60		101	
2' HIGH OUTPUT														
T12	R17d	35	24	**10261**	**F24T12/CW/HO**	24	9000	1620	1345	4100	60		101	
				10275	**F24T12/D/HO**	24	9000	1400	1160	6500	74	✎	101	Daylight
30" HIGH OUTPUT														
T12	R17d	40	30	**33707**	**F30T12/CW/HO**	24	9000	2250	1950	4100	60		101	
3' HIGH OUTPUT														
T12	R17d	45	36	**10374**	**F36T12/CW/HO**	24	9000	2800	2440	4100	60		101	
				10380	**F36T12/D/HO**	24	9000	2350	2040	6500	75	✎	101	
				10388	**F36T12/SGN/HO**	24	9000	2150	1830	5400	82	✎	101	
42" HIGH OUTPUT														
T12	R17d	55	42	**10559**	**F42T12/CW/HO**	24	9000	3200	2790	4100	60		101	
				10560	**F42T12/D/HO**	24	9000	2900	2520	6500	74	✎	101	Daylight
				10562	**F42T12/SGN/HO**	24	9000	2600	2215	5400	82	✎	101	Sign White
4' HIGH OUTPUT														
T12	R17d	60	48	**15359**	**F48T12/SP30/HO**	24	12000	4250	3830	3000	70	✎	101	
				15360	**F48T12/SP35/HO**	24	12000	4250	3830	3500	73	✎	101	
				15361	**F48T12/SP41/HO**	24	12000	4250	3830	4100	72	✎	101	
				15115	**F48T12/SPX35/HO**	24	12000	4350	3920	3500	82	✎	101	
				10773	**F48T12/CW/HO**	24	12000	3825	3320	4100	60		101	
				27313	**F48T12/CW/HO/UPC**	24	12000	3825	3320	4100	60	✎	101	
				10778	**F48T12/D/HO**	24	12000	3400	2960	6500	75	✎	101	Daylight
				10573	**F48T12/SGN/HO**	24	12000	3100	2640	5400	80		101	Sign White
4' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS														
T12	R17d	55	48	**15342**	**F48T12/SP35/HO/WM**	24	12000	3850	3465	3500	73	✎ ↯ 1	101	
				11179	**F48T12/LW/HO/WM**	24	12000	3900	3390	4200	49	↯ 1	101	Lite White
5' HIGH OUTPUT														
T12	R17d	75	60	**23075**	**F60T12/CW/HO 15PK**	15	12000	5150	4480	4100	60		101	
				23077	**F60T12/D/HO 15PK**	15	12000	4400	3830	6500	75	✎	101	Daylight
				23081	**F60T12/SGN/HO 15PK**	15	12000	4000	3400	5400	82	✎	101	Sign White
64" HIGH OUTPUT														
T12	R17d	80	64	**23083**	**F64T12/CW/HO 15PK**	15	12000	5600	4870	4100	60		101	
				23087	**F64T12/D/HO 15PK**	15	12000	4750	4130	6500	75	✎	101	Daylight
				23089	**F64T12/SGN/HO15PK**	15	12000	4300	3660	5400	82	✎	101	Sign White

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T12 LAMPS (CONTINUED)														
T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT (CONTINUED)														
6' HIGH OUTPUT														
T12	R17d	85	72	**15343**	**F72T12/SP30/HO 15PK**	15	12000	6650	5990	3000	70 ✎		101	
				15347	**F72T12/SP35/HO 15PK**	15	12000	6650	5990	3500	73 ✎		101	
				15348	**F72T12/SP41/HO 15PK**	15	12000	6650	5990	4100	72 ✎		101	
				15137	**F72T12/SPX30/HO 15PK**	15	12000	6800	6120	3000	82 ✎		101	
				15351	**F72T12/SPX35/HO 15PK**	15	12000	6800	6120	3500	82 ✎		101	
				13697	**F72T12/CW/HO 15PK**	15	12000	6350	5520	4100	60		101	
				13699	**F72T12/D/HO 15PK**	15	12000	5350	4650	6500	75 ✎		101	Daylight
				12527	**F72T12/N/HO**	10	12000	4300	3610	3700	90 ✎		101	Natural
				13701	**F72T12/SGN/HO 15PK**	15	12000	4900	4170	5400	82 ✎		101	Sign White
				13702	**F72T12/WW/HO 15PK**	15	12000	6550	5700	3000	52		101	Warm White
7' HIGH OUTPUT														
T12	R17d	100	84	**13766**	**F84T12/CW/HO 15PK**	15	12000	7700	6700	4100	60		101	
				13767	**F84T12/D/HO 15PK**	15	12000	6500	5660	6500	75 ✎		101	Daylight
				13768	**F84T12/SGN/HO 15PK**	15	12000	6000	5100	5400	82 ✎		101	Sign White
8' HIGH OUTPUT														
T12	R17d	110	96	**15362**	**F96T12/SP30/HO 15PK**	15	12000	9200	8280	3000	70 Ⓔ ✎		101	
				15363	**F96T12/SP35/HO 15PK**	15	12000	9200	8280	3500	73 Ⓔ ✎		101	
				15364	**F96T12/SP41/HO 15PK**	15	12000	9200	8280	4100	72 Ⓔ ✎		101	
				12130	**F96T12/SP65/HO**	15	12000	8900	8010	6500	75 Ⓔ ✎		101	
				15119	**F96T12/SPX30/HO 15PK**	15	12000	9350	8420	3000	82 Ⓔ ✎		101	
				15352	**F96T12/SPX35/HO 15PK**	15	12000	9350	8420	3500	82 Ⓔ ✎		101	
				23070	**F96T12/SPX41/HO 15PK**	15	12000	9350	8420	4100	80 Ⓔ ✎		101	
				13707	**F96T12/C50/HO 15PK**	15	12000	6750	5670	5000	90 ✎		101	Chroma 50
				14653	**F96T12/DX/HO**	15	12000	6600	5610	6500	84 ✎		101	Daylight Deluxe
				13709	**F96T12/N/HO 15PK**	15	12000	6200	5210	3700	90 ✎		101	Natural
8' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS														
T12	R17d	95	96	**14069**	**F96T12/SP35/HO/WM**	15	12000	8350	7520	3500	73 Ⓔ ✎ ↯	1	101	
				13721	**F96T12/SP41/HO/WM 15PK**	15	12000	8350	7520	4100	72 Ⓔ ✎ ↯	1	101	
				12131	**F96T12/SP65/HO/WM**	15	12000	7700	6930	6500	75 Ⓔ ✎ ↯	1	101	
				15120	**F96T12/SPX30/HO/WM**	15	12000	8500	7650	3000	82 Ⓔ ✎ ↯	1	101	
				15122	**F96T12/SPX35/HO/WM**	15	12000	8500	7650	3500	82 Ⓔ ✎ ↯	1	101	
				23069	**F96T12/SPX41/HO/WM**	15	12000	8500	7650	4100	80 Ⓔ ✎ ↯	1	101	
				13716	**F96T12/CW/HO/WM 15PK**	15	12000	8000	6960	4100	60 Ⓔ	1	101	
				21714	**F96T12/CW/HO/WM/UPC**	15	12000	8000	6960	4100	60 Ⓔ	1	101	
				13720	**F96T12/LW/HO/WM**	15	12000	8500	7900	4200	49 Ⓔ ↯	1	101	Lite White
				13719	**F96T12/WW/HO/WM 15PK**	15	12000	8200	7130	3000	52 Ⓔ ↯	1	101	Warm White
8' HIGH OUTPUT WATT-MISER ECOLUX®														
T12	R17d	95	96	**16495**	**F96T12/CW/HO/WM/ECO**	15	12000	8000	6480	4100	60 Ⓔ ✎ ↯	1	101	
T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT														
T12	R17d	110	48	**10751**	**F48T12/CW/1500**	24	10000	6200	4030	4100	60	4	101	
		165	72	**13760**	**F72T12/CW/1500 15PK**	15	10000	9000	6300	4100	60	4	101	
		185	96	**13789**	**F96T12/CW/1500/WM 15PK**	15	9000	12500	9380	4100	60 ↯	4	101	
				13790	**F96T12/LW/1500/WM 15PK**	15	9000	13250	9940	4200	49 ↯	4	101	Lite White
		215	96	**13781**	**F96T12/CW/1500 15PK**	15	10000	13500	10125	4100	60	4	101	
				13783	**F96T12/D/1500 15PK**	15	10000	11500	8630	6500	74 ✎	4	101	Daylight
				13785	**F96T12/WW/1500 15PK**	15	10000	14000	10500	3000	52	4	101	

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T12 LAMPS (CONTINUED)															
T12 PREHEAT															
15"															
T12	Medium BiPin (G13)	14	15	**10116**	**F14T12/CW**	24	9000	650	550	4100	60			101	Preheat
				10117	**F14T12/CW 6PK**	24	9000	650	550	4100	60			101	Preheat
				22979	**F14T12/KB 6PK**	24	9000	700	650	3000	70	✎		104	Preheat, Kitchen & Bath
18"															
T12	Medium BiPin (G13)	15	18	**10183**	**F15T12/CW 6PK**	24	9000	760	685	4100	60			10	Preheat
				22745	**F15T12/KB 6PK**	24	9000	785	730	3000	70	✎		104	Preheat, Kitchen & Bath
				10185	**F15T12/WW**	24	9000	780	700	3000	52			101	Preheat
24"															
T12	Medium BiPin (G13)	20	24	**14423**	**F20T12/SP35**	24	9000	1275	1200	3500	73	✎		101	Preheat
				15353	**F20T12/SP41**	24	9000	1275	1200	4100	72	✎		101	Preheat
				15354	**F20T12/SPX35**	24	9000	1300	1220	3500	82	✎		101	Preheat
				38114	**F20T12/C50**	24	9000	875	790	5000	90	✎		101	Preheat, Chroma 50
				10213	**F20T12/CW**	24	9000	1200	1150	4100	60			101	Preheat
				10214	**F20T12/CW 6PK**	24	9000	1200	1150	4100	60			101	Preheat
				10205	**F20T12/D**	24	9000	1025	945	6500	75	✎		101	Preheat, Daylight
				25575	**F20T12/D/UPC**	24	9000	1025	945	6500	75	✎		101	Preheat, Daylight
				21325	**F20T12/KB 6PK**	24	9000	1275	1200	3000	70	✎		104	Preheat, Kitchen & Bath
				14419	**F20T12/SUN 6PK**	24	9000	875	790	5000	90	✎		101	Preheat, Sunlight
				10217	**F20T12/WW**	24	9000	1250	1150	3000	52			101	Preheat, Warm White
				25577	**F20T12/WW-UPC**	24	9000	1250	1150	3000	52			101	Preheat, Warm White
OTHER DIAMETERS															
T6 INSTANT START															
T6	Single Pin (Fa8)	25	42	**12221**	**F42T6/SP35**	24	7500	1830	1700	3500	73	✎		101	
				10720	**F42T6/CW**	24	7500	1750	1580	4100	60			101	
				10721	**F42T6/WW**	24	7500	1825	1640	3000	52			101	Warm White
		40	64	**12223**	**F64T6/SP35**	24	7500	2930	2720	3500	73	✎		101	
				10805	**F64T6/CW**	24	7500	2800	2520	4100	60			101	
				10807	**F64T6/WW**	24	7500	2900	2610	3000	52			101	Warm White
T17 INSTANT START															
T17	Mogul BiPin (G20)	40	60	**10575**	**F40T17/CW/IS**	12	7500	2850	2620	4100	60		3	101	Use only w/ instant start ballasts
T17 PREHEAT															
T17	Mogul BiPin (G20)	82	60	**43443**	**F90T17/CW/WM**	12	9000	5750	5060	4100	60	↯	4	101	
		90	60	**10643**	**F90T17/CW**	12	9000	6000	5280	4100	60		4	101	
PG17 POWER GROOVE RECESSED DOUBLE CONTACT (1500mA)															
PG17	R17d	185	96	**42666**	**F96PG17/CW/WM**	8	12000	12700	9900	4100	60	↯	4	101	
		215	96	**11009**	**F96PG17/CW**	8	10000	14000	10915	4100	60		4	101	
				11018	**F96PG17/D**	8	10000	12100	9440	6500	74	✎	4	101	Daylight
T9 CIRCLINE® LAMPS															
T9	4 Pin (G10q)	20	6.5	**42732**	**FC6T9/CW**	12	12000	800	560	4100	60			101	
		22	8.25	**33774**	**FC8T9/CW**	12	12000	1100	825	4100	60			101	
				11026	**FC8T9/D**	12	12000	925	690	6500	75	✎		101	Daylight
				11084	**FC8T9/KB**	6	12000	1400	1120	3000	82	✎		104	Kitchen & Bath
		32	12	**33890**	**FC12T9/CW**	12	12000	1950	1460	4100	60			101	
				11039	**FC12T9/D**	12	12000	1675	1260	6500	75	✎		101	Daylight
				11085	**FC12T9/KB**	6	12000	2400	1920	3000	82	✎		104	Kitchen & Bath
		40	16	**33893**	**FC16T9/CW**	12	12000	2700	2030	4100	60			101	
				11052	**FC16T9/D**	12	12000	2250	1690	6500	75	✎		101	Daylight

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SPECIAL APPLICATION LAMPS															
COVRGUARD® SHATTER PROTECTED															
T5															
T5 HIGH EFFICIENCY															
T5	Miniature BiPin (G5)	28	45.2	**81546**	**F28T5/830ECO/CVG**	40	20000	2840	2670	3000	85	✎	11,13	103	
				81547	**F28T5/835ECO/CVG**	40	20000	2840	2670	3500	85	✎	11,13	103	
				81548	**F28T5/841ECO/CVG**	40	20000	2840	2670	4100	85	✎	11,13	103	
				81549	**F28T5/850ECO/CVG**	40	20000	2840	2670	5000	85	✎	11,13	103	
				81550	**F28T5/865ECO/CVG**	40	20000	2840	2670	6500	85	✎	11,13	103	
T5 HIGH OUTPUT															
T5	Miniature BiPin (G5)	54	45.2	**48433**	**F54T5/830ECO/HO/CVG**	40	30000	4850	4560	3000	85	✎	11,13	103	
				48436	**F54T5/835ECO/HO/CVG**	40	30000	4850	4560	3500	85	✎	11,13	103	
				48458	**F54T5/841ECO/HO/CVG**	40	30000	4850	4560	4100	85	✎	11,13	103	
				80311	**F54T5/850ECO/HO/CVG**	40	30000	4650	4560	5000	85	✎	11,13	103	
				48469	**F54T5/865ECO/HO/CVG**	40	30000	4600	4320	6500	85	✎	11,13	103	
T5 PREHEAT LAMPS															
T5	Miniature BiPin (G5)	4	6	**41435**	**F4T5/CW/CVG**	24	5000	130	95	4100	60		11,13	103	
		6	9	**41106**	**F6T5/CW/CVG**	24	5000	285	225	4100	60		11,13	103	
		8	12	**41107**	**F8T5/CW/CVG**	24	5000	385	310	4100	60		11,13	103	
		13	21	**41108**	**F13T5/CW/CVG**	24	5000	820	680	4100	60		11,13	103	
T6															
T6 INSTANT START LAMPS															
T6	Single Pin (Fa8)	25	42	**41140**	**F42T6/CW/CVG**	24	7500	1690	1530	4100	60		11,13	103	
				41142	**F42T6/SP35/CVG**	24	7500	1770	1640	3500	73	✎	11,13	103	
				41141	**F42T6/WW/CVG**	24	7500	1770	1590	3000	52		11,13	103	Warm White
		40	64	**46422**	**F64T6/CW/CVG**	24	7500	2710	2440	4100	60		11,13	103	
				41143	**F64T6/SP35/CVG**	24	7500	2840	2630	3500	73	✎	11,13	103	
T8 ECOLUX® W/ STARCOAT															
2' T8 ECOLUX® W/ STARCOAT															
T8	Medium BiPin (G13)	17	24	**47417**	**F17T8/SP30/ECO/CVG**	24	20000	1280	1220	3000	78	✎	11,13,18	103	
				15974	**F17T8/SP35/ECO/CVG**	24	20000	1280	1220	3500	78	✎	11,13,18	103	
				15877	**F17T8/SP41/ECO/CVG**	24	20000	1280	1220	4100	78	✎	11,13,18	103	
				15975	**F17T8/SPX35/ECO/CVG**	24	20000	1310	1242	3500	86	✎	11,13,18	103	
				15976	**F17T8/SPX41/ECO/CVG**	24	20000	1310	1242	4100	86	✎	11,13,18	103	
3' T8 ECOLUX® W/ STARCOAT															
T8	Medium BiPin (G13)	25	36	**15978**	**F25T8/SP30/ECO/CVG**	24	20000	2020	1920	3000	78	✎	11,13,18	103	
				15981	**F25T8/SP35/ECO/CVG**	24	20000	2020	1920	3500	78	✎	11,13,18	103	
				15984	**F25T8/SP41/ECO/CVG**	24	20000	2020	1920	4100	78	✎	11,13,18	103	
				15989	**F25T8/SPX30/ECOCVG**	24	20000	2080	1970	3000	86	✎	11,13,18	103	
				15990	**F25T8/SPX35/ECOCVG**	24	20000	2080	1970	3500	86	✎	11,13,18	103	
				15991	**F25T8/SPX41/ECOCVG**	24	20000	2080	1970	4100	86	✎	11,13,18	103	

Ⓔ Means this lamp meets Federal Minimum Efficiency Standards.

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI	Footnotes	Warning and Cautions	Additional Information
SPECIAL APPLICATION LAMPS (CONTINUED)														
COVRGUARD® SHATTER PROTECTED (CONTINUED)														
T8 ECOLUX® W/ STARCOAT® (CONTINUED)														
4' T8 (48") ECOLUX® W/ STARCOAT®														
T8	Medium BiPin (G13)	32	48	**40803**	**F32T8/SP30/ECO/CVG**	36	20000	2715	2580	3000	78 Ⓔ ✎	1,13,18	103	
				40804	**F32T8/SP35/ECO/CVG**	36	20000	2715	2580	3500	78 Ⓔ ✎	1,13,18	103	
				40812	**F32T8/SP41/ECO/CVG**	36	20000	2715	2580	4100	78 Ⓔ ✎	1,13,18	103	
				18366	**F32T8/SP50/ECO/CVG**	36	20000	2665	2530	5000	78 Ⓔ ✎	1,13,18	103	
				18368	**F32T8/SP65/ECO/CVG**	36	20000	2620	2490	6500	78 Ⓔ ✎	1,13,18	103	
				41125	**F32T8/SPX30/ECO/CVG**	36	20000	2860	2710	3000	86 Ⓔ ✎	1,13,18	103	
				41126	**F32T8/SPX35/ECO/CVG**	36	20000	2860	2710	3500	86 Ⓔ ✎	1,13,18	103	
				41127	**F32T8/SPX41/ECO/CVG**	36	20000	2860	2710	4100	86 Ⓔ ✎	1,13,18	103	
				15971	**F32T8/SPX50/ECO/CVG**	36	20000	2715	2580	5000	86 Ⓔ ✎	1,13,18	103	
4' T8 ECOLUX® XL EXTRA-LIFE W/ STARCOAT®														
T8	Medium BiPin (G13)	32	48	**15972**	**F32T8/XL/SPX30ECO/CVG**	36	20000	2860	2715	3000	86 Ⓔ ✎	1,13,18	103	
				15973	**F32T8/XL/SPX35ECO/CVG**	36	20000	2860	2715	3500	86 Ⓔ ✎	1,13,18	103	
				18369	**F32T8/XL/SPX41ECO/CVG**	36	20000	2860	2715	4100	86 Ⓔ ✎	1,13,18	103	
				23746	**F32T8/XL/SPX50ECO/CVG**	36	20000	2860	2715	4100	86 Ⓔ ✎	1,13,18	103	
4' T8 ECOLUX® SUPER LONG LIFE W/ STARCOAT®														
T8	Medium BiPin (G13)	32	48	**14560**	**F32T8/SXL/SP35/ECO/CVG**	36	30000	2765	2595	3500	83 Ⓔ ✎	1,13,18	103	
				14551	**F32T8/SXL/SP41/ECO/CVG**	36	30000	2765	2595	4100	81 Ⓔ ✎	1,13,18	103	
ULTRA ENERGY SAVING T8 LAMPS W/ COVRGUARD®														
4' T8 ECOLUX® WATT-MISER® W/ STARCOAT®														
T8	Medium BiPin (G13)	32	48	**40286**	**F32T8/SP30/IS/WM/ECO/CVG**	36	20000	2790	2620	3000	84 Ⓔ ✎ ➶	1,11,13,18	103	
				40299	**F32T8/SP35/IS/WM/ECO/CVG**	36	20000	2765	2595	3500	83 Ⓔ ✎ ➶	1,11,13,18	103	
				40309	**F32T8/SP41/IS/WM/ECO/CVG**	36	20000	2740	2570	4100	81 Ⓔ ✎ ➶	1,11,13,18	103	
				47422	**F32T8/SP50/IS/WM/ECO/CVG**	36	20000	2740	2570	4100	81 Ⓔ ✎ ➶	1,11,13,18	103	
4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE W/ STARCOAT®														
T8	Medium BiPin (G13)	32	48	**10023**	**F32T8/XL/SP30/WM/ECOCVG**	36	24000	2740	2570	3000	84 Ⓔ ✎ ➶	1,11,13,18	103	
				40297	**F32T8/XL/SP35/WM/ECOCVG**	36	24000	2715	2545	3500	83 Ⓔ ✎ ➶	1,11,13,18	103	
				40310	**F32T8/XL/SP41/WM/ECOCVG**	36	24000	2690	2520	4100	81 Ⓔ ✎ ➶	1,11,13,18	103	
				47423	**F32T8/XL/SP50/WM/ECOCVG**	36	24000	2690	2520	4100	81 Ⓔ ✎ ➶	1,11,13,18	103	
4' T8 ECOLUX® HIGH LUMEN XL EXTRA-LIFE W/ STARCOAT®														
T8	Medium BiPin (G13)	32	48	**00267**	**F32T8/XL/SPX30/HL/ECO/CVG**	36	24000	3005	2825	4100	82 Ⓔ ✎	1,13,18	103	
				00268	**F32T8/XL/SPX35/HL/ECO/CVG**	36	24000	3005	2825	3500	85 Ⓔ ✎	1,13,18	103	
				00269	**F32T8/XL/SPX41/HL/ECO/CVG**	36	24000	3005	2825	3000	85 Ⓔ ✎	1,13,18	103	
				80497	**F32T8/XL/SPX50/HL/ECO/CVG**	36	24000	3005	2825	4100	82 Ⓔ ✎	1,13,18	103	
T8 MOD-U-LINE® 6" SPACING														
T8	Medium BiPin (G13)	32	22.5	**23655**	**F32T8/SP30/U6/CVG**	12	20000	2640	2510	3000	78 Ⓔ ✎	11,13	103	
				23656	**F32T8/SP35/U6/CVG**	12	20000	2640	2510	3500	78 Ⓔ ✎	11,13	103	
				23657	**F32T8/SP41/U6/CVG**	12	20000	2640	2510	4100	78 Ⓔ ✎	11,13	103	
				23658	**F32T8/SPX30/U6/CVG**	12	20000	2740	2575	3000	86 Ⓔ ✎	11,13	103	
				23659	**F32T8/SPX35/U6/CVG**	12	20000	2740	2575	3500	86 Ⓔ ✎	11,13	103	
				23660	**F32T8/SPX41/U6/CVG**	12	20000	2740	2575	4100	86 Ⓔ ✎	11,13	103	
5' T8 W/ STARCOAT®														
5' T8 (60") W/ STARCOAT®														
T8	Medium BiPin (G13)	40	60	**41130**	**F40T8/SP35/CVG**	24	20000	3490	3140	3500	75 ✎	11,13	103	
				41131	**F40T8/SPX35/CVG**	24	20000	3610	3240	3500	84 ✎	11,13	103	
				47351	**F40T8/SPX41/CVG**	24	20000	3610	3250	4100	80 ✎	11,13	103	

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Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	CRI		Foot-notes	Warning and Cautions	Additional Information
SPECIAL APPLICATION LAMPS (CONTINUED)															
COVRGUARD® SHATTER PROTECTED (CONTINUED)															
T8 INSTANT START W/ STARCOAT®															
6' T8 (72") INSTANT START															
T8	Single Pin (Fa8)	35	72	**41149**	**F72T8/CW/CVG**	24	7500	2910	2640	4100	60		11,13	103	
8' T8 (96") INSTANT START W/ STARCOAT®															
T8	Single Pin (Fa8)	59	96	**40094**	**F96T8/SP30/CVG**	24	15000	5620	5330	3000	75	✎	11,13	103	
				40095	**F96T8/SP35/CVG**	24	15000	5620	5330	3500	75	✎	11,13	103	
				40096	**F96T8/SP41/CVG**	24	15000	5620	5330	4100	75	✎	11,13	103	
				40099	**F96T8/SPX30CVG**	24	15000	5770	5480	3000	84	✎	11,13	103	
				40105	**F96T8/SPX35/CVG**	24	15000	5770	5480	3500	84	✎	11,13	103	
				40106	**F96T8/SPX41/CVG**	24	15000	5770	5480	4100	80	✎	11,13	103	
8' T8 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT W/ STARCOAT®															
T8	R17d	86	96	**40107**	**F96T8/SP35/HO/CVG**	24	18000	7760	6980	3500	75	✎	11,12,13	103	
				40108	**F96T8/SP41/HO/CVG**	24	18000	7760	6980	4100	75	✎	11,12,13	103	
T8 PREHEAT LAMPS															
T8	Medium BiPin (G13)	13	12	**41109**	**F13T8/CW/CVG**	24	7500	545	465	4100	60		11,13	103	Preheat
		15	18	**41110**	**F15T8/CW/CVG**	24	7500	800	700	4100	60		11,13	103	Preheat
				46627	**F15T8/KB/CVG/UPC**	24	7500	910	825	3000	70	✎	11,13	103	Preheat, Kitchen & Bath
				46216	**F15T8/SP35/CVG**	24	7500	910	825	3500	75	✎	11,13	103	Preheat
				41111	**F15T8/SPX35/CVG**	24	7500	970	870	3500	82	✎	11,13	103	Preheat
		18	24	**41117**	**F24T8/CW/4/CVG**	6	7500	1180	1000	4100	60		11,13	103	Preheat
		19	28	**41121**	**F28T8/CW/4/CVG**	6	7500	1300	1110	4100	60		11,13	103	Preheat
		30	36	**41122**	**F30T8/CW/CVG**	24	7500	2100	1920	4100	60		11,13	103	Preheat
				46206	**F30T8/SPX30/CVG**	24	7500	2230	2070	3000	82	✎	11,13	103	Preheat
T12 RAPID START LAMPS															
3' ECOLUX® T12 (36")															
T12	Medium BiPin (G13)	30	36	**80486**	**F30T12/CW/RS/ECO/CVG**	24	18000	2130	1850	4100	60		11,13	103	
				80987	**F30T12/SPX30/RS/ECO/CVG**	24	18000	2300	2070	3000	82	✎	11,13	103	
				80487	**F30T12/SPX35/RS/ECO/CVG**	24	18000	2300	2070	3500	86	✎	11,13	103	
				80986	**F30T12/SP35/ECO/CVG**	24	18000	2280	2050	3500	73	✎	11,13	103	
4' T12 ECOLUX® RAPID START LAMPS (48")															
T12	Medium BiPin (G13)	40	48	**80495**	**F40/CW/ECO/CVG**	30	20000	2950	2600	4100	60		11,13	103	
				80992	**F40/CW/ECO/CVG 6PACK**	6	20000	2950	2600	4100	60		11,13	103	
				80995	**F40/KB/ECO/CVG/UPC**	24	20000	3290	2990	3000	82	✎	11,13	103	Kitchen & Bath
				80988	**F40T12/SP30/ECO/CVG**	30	20000	3150	2860	3000	70	✎	11,13	103	
				80989	**F40T12/SP35/ECO/CVG**	30	20000	3100	2820	3500	73	✎	11,13	103	
				80990	**F40/SP65/ECO/CVG**	30	20000	2950	2690	6500	75	✎	11,13	103	
				80493	**F40/SPX30/ECO/CV**G	30	20000	3290	2990	3000	82	✎	11,13	103	
				80494	**F40/SPX35/ECO/CVG**	30	20000	3290	2990	3500	82	✎	11,13	103	
				80991	**F40/SPX41/ECO/CVG**	30	20000	3240	2950	4100	80	✎	11,13	103	
				80993	**F40/D/ECO/CVG**	30	20000	2470	2170	6250	75	✎	11,13	103	Daylight
				80994	**F40/DX/ECO/CVG**	30	20000	2180	1850	6500	84	✎	11,13	103	Daylight Deluxe
				80996	**F40/N/ECO/CVG**	30	20000	2030	1680	3700	90	✎	11,13	103	Natural
				80496	**F40/C50/ECO/CVG**	30	20000	2180	1810	5000	90	✎	11,13	103	Chroma 50
				41133	**F40/C75/CVG**	30	20000	1890	1630	7500	92	✎	11,13	103	Chroma 75, non-TCLP Compliant

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI	Foot-notes	Warning and Cautions	Additional Information
SPECIAL APPLICATION LAMPS (CONTINUED)														
COVRGUARD® SHATTER PROTECTED (CONTINUED)														
T12 RAPID START LAMPS (CONTINUED)														
4' T12 ECOLUX® RAPID START WATT-MISER® LAMPS (48")														
T12	Medium BiPin (G13)	34	48	**80489**	**F34/SP35/RS/WM/ECO/CVG**	30	20000	2660	2400	3500	73	✎ ➶ 1,11,13	103	
				80490	**F34/SP41/RS/WM/ECO/CVG**	30	20000	2660	2400	4100	72	✎ ➶ 1,11,13	103	
				80491	**F34/SPX41/RS/WM/ECO/CVG**	30	20000	2820	2530	4100	80	✎ ➶ 1,11,13	103	
				80488	**F34/WW/RS/WM/ECO/CVG**	30	20000	2620	2250	3000	52	➶ 1,11,13	103	Warm White
				80492	**F34/LW/RS/WM/ECO/CVG**	30	20000	2730	2350	4200	49	➶ 1,11,13	103	Lite White
				40805	**F34/CW/RS/WM/ECO/CVG**	30	20000	2570	2210	4100	60	➶ 1,11,13	103	
				41138	**F34/SPX30/RS/WM/ECO/CVG**	30	20000	2810	2530	3000	82	✎ ➶ 1,11,13	103	
				41139	**F34/SPX35/RS/WM/ECO/CVG**	30	20000	2810	2530	3500	82	✎ ➶ 1,11,13	103	
4' T12 RAPID START LAMPS UTILITY SHOPLIGHT (48")														
T12	Medium BiPin (G13)	25	48		30	12000	1800	1620	4100	60		11,13	103	
T12 INSTANT START														
T12	Single Pin (Fa8)	20	24	**47342**	**F24T12/CW/CVG**	24	7500	870	785	4100	60	11,13	103	
		40	48	**40127**	**F48T12/CW/CVG**	24	9000	2780	2560	4100	60	11,13	103	
				48091	**F48T12/SP35/CVG**	24	9000	2910	2730	4100	60	11,13	103	
				41144	**F48T12/SPX35/CVG**	24	9000	2950	2780	3500	82	✎ 11,13	103	
		50	60	**41147**	**F60T12/CW/CVG**	15	12000	3490	3210	4100	60	11,13	103	
		55	72	**46213**	**F72T12/SP35/CVG**	15	12000	4550	4280	3500	73	11,13	103	
				41151	**F72T12/SPX30/CVG**	15	12000	4650	4370	3000	82	✎ 11,13	103	
				41153	**F72T12/SPX35/CVG**	15	12000	4650	4370	3500	82	✎ 11,13	103	
		75	96	**40117**	**F96T12/CW/CVG**	15	12000	5960	5480	4100	60	11,13	103	
				46215	**F96T12/SP35/CVG**	15	12000	6300	5920	3500	73	11,13	103	
				41157	**F96T12/SPX30/CVG**	15	12000	6590	6190	3000	82	✎ 11,13	103	
				41158	**F96T12/SPX35/CVG**	15	12000	6590	6190	3500	82	✎ 11,13	103	
				41159	**F96T12/SPX41/CVG**	15	12000	6590	6190	4100	80	✎ 11,13	103	
				41973	**F96T12/DX/CVG**	15	12000	4360	3920	6500	84	✎ 11,13	103	Daylight Deluxe
				46208	**F96T12/C50/CVG**	15	12000	4460	3920	5000	90	✎ 11,13	103	Chroma 50
T12 INSTANT START ~ WATT-MISER® ENERGY SAVING LAMPS														
8' T12 RAPID START WATT-MISER® LAMPS (96")														
T12	Single Pin (Fa8)	58	96	**45993**	**F96T12/SP35/WMP/CVG**	15	12000	5520	5190	3500	75	✎ ➶ 1,11,13	103	
		60	96	**40115**	**F96T12/CW/WM/CVG**	15	12000	5330	4910	4100	60	➶ 1,11,13	103	
			96	**40124**	**F96T12/SP35/WM/CVG**	15	12000	5520	5200	3500	73	✎ ➶ 1,11,13	103	
8' T12 ECOLUX® RAPID START WATT-MISER® LAMPS (96")														
T12	Single Pin (Fa8)	60	96	**40807**	**F96T12/CW/WM/ECO/CVG**	15	12000	5330	4910	4100	60	1,11,13	103	
T12 MOD-U-LINE® ~ WATT-MISER® ENERGY SAVING LAMPS														
T12	Medium BiPin (G13)	35	22.5	**47694**	**F35/CW/U6/WM/CVG**	10	14000	2230	2030	4100	60	➶ 1,11,13	103	6" Spacing Between Legs
T12 MOD-U-LINE® 6" SPACING														
T12	Medium BiPin (G13)	40	22.5	**23661**	**F40T12/SP30/U6/CVG**	10	14000	2230	2030	3000	73	✎ 11,13	103	
				23662	**F40T12/SP35/U6/CVG**	10	14000	2230	2030	3500	73	✎ 11,13	103	
				23664	**F40T12/SP41/U6/CVG**	10	14000	2230	2030	4100	73	✎ 11,13	103	

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Bulb	Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	CRI		Foot-notes	Warning and Cautions	Additional Information
SPECIAL APPLICATION LAMPS (CONTINUED)															
COVRGUARD® SHATTER PROTECTED (CONTINUED)															
T12 PREHEAT															
T12	Medium BiPin (G13)	15	18	**41114**	**F15T12/CW/CVG**	24	9000	735	660	4100	60		11,13	103	Preheat
		20	24	**46377**	**F20T12/C50/CVG**	24	9000	845	765	5000	90	✎	11,13	103	Preheat, Chroma 50
				40125	**F20T12/CW/CVG**	24	9000	1160	1110	4100	60		11,13	103	Preheat
				41000	**F20T12/CW/CVG/UPC**	24	9000	1160	1110	4100	60		11,13	103	Preheat, UPC
				46622	**F20T12/KB/CVG/UPC**	24	9000	1230	1160	3000	70	✎	11,13	103	Preheat, Kitchen and Bath, UPC
				46218	**F20T12/SP35/CVG**	24	9000	1230	1160	3500	73	✎	11,13	103	Preheat
				41116	**F20T12/SPX35/CVG**	24	9000	1260	1180	3500	82	✎	11,13	103	Preheat
		25	33	**41120**	**F25T12/WW/33/CVG**	24	7500	1850	1660	3000	52		11,13	103	Preheat, Warm White
T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT															
T12	R17d	35	24	**48090**	**F24T12/CW/HO/CVG**	24	9000	1570	1300	4100	60		11,12,13	103	
		60	48	**40129**	**F48T12/CW/HO/CVG**	24	12000	3930	3410	4100	60		11,12,13	103	
				41146	**F48T12/SPX35/HO/CVG**	24	12000	4220	3800	3500	82	✎	11,12,13	103	
				41969	**F48T12/D/HO/CVG**	24	12000	3290	2870	6500	75	✎	11,12,13	103	Daylight
		75	60	**41148**	**F60T12/CW/HO/CVG**	15	12000	4990	4340	4150	62		11,12,13	103	
		85	72	**40811**	**F72T12/CW/HO/CVG**	15	12000	6150	5350	4100	60		11,12,13	103	
				46207	**F72T12/SP35/HO/CVG**	15	12000	6450	5810	3500	73	✎	11,12,13	103	
				41152	**F72T12/SPX30/HO/CVG**	15	12000	6590	5930	3000	82	✎	11,12,13	103	
				41154	**F72T12/SPX35/HO/CVG**	15	12000	6590	5930	3500	82	✎	11,12,13	103	
				48094	**F72T12/N/HO/CVG**	10	12000	4170	3500	3700	90	✎	11,12,13	103	Natural
		100	84	**41156**	**F84T12/CW/HO/CVG**	15	12000	7460	6490	4100	60		11,12,13	103	
		110	96	**40808**	**F96T12/CW/HO/CVG**	15	12000	8630	7500	4100	60		11,12,13	103	
				46210	**F96T12/SP35/HO/CVG**	15	12000	8920	8030	3500	73	✎	11,12,13	103	
				45264	**F96T12/SP65/HO/CVG**	15	12000	8630	7760	6500	75	✎	11,12,13	103	
				41160	**F96T12/SPX30/HO/CVG**	15	12000	9070	8160	3000	82	✎	11,12,13	103	
				41161	**F96T12/SPX35/HO/CVG**	15	12000	9070	8160	3500	82	✎	11,12,13	103	
				41162	**F96T12/SPX41/HO/CVG**	15	12000	9070	8160	4100	80	✎	11,12,13	103	
				46424	**F96T12/D/HO/CVG**	15	12000	7370	6410	6500	75	✎	11,12,13	103	Daylight
				46430	**F96T12/DX/HO/CVG**	15	12000	6400	5440	6500	84	✎	11,12,13	103	Daylight Deluxe
T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT ~ WATT-MISER® ENERGY SAVING LAMPS															
T12	R17d	95	96	**40116**	**F96T12/CW/HO/WM/CVG**	15	12000	7760	6750	4100	60		1,11,12,13	103	
				40118	**F96T12/SP35/HO/WM/CVG**	15	12000	8090	7290	3500	73	✎	1,11,12,13	103	
				40123	**F96T12/SP41/HO/WM/CVG**	15	12000	8090	7290	4100	72	✎	1,11,12,13	103	
				16821	**F96T12/CW/HO/WM/ECO/CVG**	15	12000	7760	6285	4100	60		1,11,12,13	103	
COLD TEMPERATURE															
T5															
T5	Miniature BiPin (G5)	54	45.2	**81521**	**F54T5/835**	36	30000	4500	4275	3500	86	✎	11,13,17	101	Plastic jacket
				81522	**F54T5/841**	36	30000	4500	4275	4100	86	✎	11,13,17	101	Plastic jacket
T8															
T8	Medium BiPin (G13)	18	24	**31147**	**F18WT8/835**	12	20000	1215	1152	3500	86	✎	11,13,17	101	Plastic jacket
				31148	**F18WT8/841**	12	20000	1215	1152	4100	86	✎	11,13,17	101	Plastic jacket
		36	48	**25763**	**F36WT8/835**	30	20000	3015	2860	3500	86	✎	11,13,17	101	Plastic jacket
				25764	**F36WT8/841**	30	20000	3015	2860	4100	86	✎	11,13,17	101	Plastic jacket
		58	60	**16148**	**F58WT8/835**	24	20000	4680	4450	3500	86	✎	11,13,17	101	Plastic jacket
				23752	**F58WT8/841**	24	20000	4680	4450	4100	86	✎	11,13,17	101	Plastic jacket
		70	72	**16149**	**F70WT8/835**	18	20000	5670	5386	3500	86	✎	11,13,17	101	Plastic jacket
				23754	**F70WT8/841**	18	20000	5670	5386	4100	86	✎	11,13,17	101	Plastic jacket

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	CRI		Foot-notes	Warning and Cautions	Additional Information
SPECIAL APPLICATION LAMPS (CONTINUED)															
COLD TEMPERATURE (CONTINUED)															
INSTANT START															
T12	Single Pin (Fa8)	75	96	**47350**	**F96T12/CW-CT**	15	12000	5960	5490	4100	60		11,13,17	101	Plastic jacket
HIGH OUTPUT (800mA) RECESSED DOUBLE CONTACT															
T12	R17d	35	24	**48097**	**F24T12/CW/HO-CT**	12	9000	1570	1300	4100	60		11,13,17	101	Plastic jacket
		60	48	**48530**	**F48T12/SP35/HO-AT**	12	12000	4120	3710	3500	73	✎	11,13,17	101	Plastic jacket w/ vent holes
				47352	**F48T12/SPX30/HO-CT**	24	12000	4210	3800	3000	82	✎	11,13,17	101	Plastic jacket
				45976	**F48T12/CW/HO-AT**	12	12000	3710	3220	4100	60		11,13,17	101	Plastic jacket w/ vent holes
		75	60	**47353**	**F60T12/CW/HO-CT**	12	12000	4990	4340	4100	60		11,13,17	101	Plastic jacket
		85	72	**47346**	**F72T12/SP35/HO-CT**	8	12000	6450	5810	3500	73	✎	11,13,17	101	Plastic jacket
				46201	**F72T12/SP41/HO-CT**	8	12000	6450	5810	4100	72	✎	11,13,17	101	Plastic jacket
				48095	**F72T12/SPX35/HO-CT**	8	12000	6590	5930	3500	82	✎	11,13,17	101	Plastic jacket
				46199	**F72T12/CW/HO-AT**	8	12000	6150	5350	4100	60		11,13,17	101	Plastic jacket w/ vent holes
		110	96	**45979**	**F96T12/SP35/HO-CT**	8	12000	8920	8030	3500	73	✎	11,13,17	101	Plastic jacket
				48096	**F96T12/SPX35/HO-CT**	8	12000	9060	8160	3500	82	✎	11,13,17	101	Plastic jacket
				45912	**F96T12/CW/HO-AT**	8	12000	8630	7500	4100	60		11,13,17	101	Plastic jacket w/ vent holes
				11918	**F96T12/CW/HO/CT**	15	12000	8900	7740	4100	60		11,13,17	101	Plastic jacket
				11919	**F96T12/D/HO/CT**	15	12000	7600	6610	6500	75	✎	11,13,17	101	Plastic jacket
T10 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT															
T10	R17d	110	48	**10742**	**F48T10/CW**	24	9000	6200		4100	60		4	101	
				46196	**F48T10/CW/VHO-CT**	12	9000	6010		4100	60		13, 17	101	Plastic jacket
		135	60	**17135**	**F60T10/SP30**	24	6000	8500		3000	70	✎	4	101	
				39157	**F60T10/CW**	24	6000	7000		4100	60		4	101	
				13002	**F60T10/CW 6PK**	6	6000	7000		4100	60		4	101	
				46197	**F60T10/CW/VHO-CT**	12	6000	6790		4100	60		13, 17	101	Plastic jacket
		160	72	**13776**	**F72T10/CW 15PK**	15	9000	9700		4100	60		4	101	
				46198	**F72T10/CW/VHO-CT**	8	9000	9400		4100	60		13, 17	101	Plastic jacket
T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT															
T12	R17d	110	48	**34206**	**F48T12/CW/1500/0**	24	10000	7000		4100	60		4	101	
				46195	**F48T12/CW/VHO-CT**	12	10000	6790		4100	60		15, 17	101	Plastic jacket
		170	72	**13762**	**F72T12/CW/1500/0**	15	10000	10800		4100	60		4	101	
				46200	**F72T12/CW/VHO-CT**	8	10000	10470		4100	60		15, 17	101	Plastic jacket
		220	96	**13788**	**F96T12/CW/1500/0**	15	10000	14400		4100	60		4	101	
				46202	**F96T12/CW/VHO-CT**	8	10000	13960		4100	60		15, 17	101	Plastic jacket
DIAZO REPROGRAPHIC 1500mA (SUPERBLUE)															
T12															
T12	Medium BiPin (G13)	120	54	**40092**	**F54"T12/SPB**	24	2000					➶	2	101	
		125	59	**39683**	**F59"T12/SPB**	24	2000					➶	2	101	
T17															
T17	Mogul BiPin (G20)	180	54	**26390**	**F54"T17/SPB**	12	2000					➶	2	101	
APPLIANCE															
T8															
T8	Medium BiPin (G13)	18	22	**10257**	**F22"T8/D/4**	24	7500	925	790	6500	75	✎		101	Daylight
			24	**17705**	**F24"T8/CW/4 6PK**	24	7500	1225	1040	4100	60			101	
		19	26	**10702**	**F26"T8/CW/4**	24	7500	1275	1085	4100	60			101	
			26	**38199**	**F26"T8/CW/4 6PK**	24	7500	1275	1085	4100	60			101	
			28	**17704**	**F28"T8/CW/4 6PK**	24	7500	1350	1145	4100	60			101	
			30	**10349**	**F30"T8/CW/4**	24	7500	1375	1170	4100	60			101	

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Bulb	Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI	Foot-notes	Warning and Cautions	Additional Information
SPECIAL APPLICATION LAMPS (CONTINUED)														
APPLIANCE (CONTINUED)														
T12														
T12	Medium BiPin (G13)	21	30	**10355**	**F30"T12/CW**	24	7500	1350	1220	4100	60		101	
		25	28	**10282**	**F25T12CW/28 6PK**	24	7500	1550	1390	4100	60		101	
				10286	**F25T12/D/28**	24	7500	1450	1310	6500	75	✎	101	Daylight
			33	**38201**	**F25T12/CW/33 6PK**	24	7500	1860	1675	4100	60		101	
				10299	**F25T12/D/33**	24	7500	1600	1440	6500	75	✎	101	Daylight
				10293	**F25T12/WW/33**	24	7500	1910	1720	3000	52		101	Warm White
BLACKLIGHT/BLACKLIGHT BLUE														
BLACKLIGHT														
T8	Medium BiPin (G13)	15	18	**35884**	**F15T8/BL 6PK**	24	7500					8	105	Blacklight, UVA Source
T12	Medium BiPin (G13)	20	24	**10244**	**F20T12/BL 6PK**	24	9000					8	105	Blacklight, UVA Source
		40	22.5	**40537**	**F40BL/U/3**	12	14000					8	105	Blacklight, UVA Source, Mod-U-Line®; 3 5/8" Spacing Between Legs
			48	**10526**	**F40BL 6PK**	24	20000					8	105	Blacklight, UVA Source
BLACKLIGHT BLUE														
T5	Miniature BiPin (G5)	4	6	**10019**	**F4T5/BLB**	24	5000					8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		8	12	**10077**	**F8T5/BLB**	24	5000					8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T8	Medium BiPin (G13)	15	18	**35885**	**F15T8/BLB 6PK**	24	7500					8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9	4 Pin (G10q)	22	8.25	**25665**	**FC8T9/BLB**	6	12000					8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium BiPin (G13)	20	24	**34747**	**F20T12/BLB 6PK**	24	9000					8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		40	48	**10531**	**F40BLB 6PK**	24	20000					8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
COLORED LAMPS														
T8														
T8	Medium BiPin (G13)	32	48	**15992**	**F32T8/R/24/ECO/CVG**	36	20000						103	Sleeved Rosco Red 24
				15993	**F32T8/B/65/ECO/CVG**	36	20000						103	Sleeved Rosco Blue 65
				15994	**F32T8/G/89/ECO/CVG**	36	20000						103	Sleeved Rosco Green 89
T12														
T12	Medium BiPin (G13)	40	48	**10514**	**F40/B 6 PK**	24	20000	1200	720				101	Phosphor Blue
				10517	**F40/G 6 PK**	24	20000	4000	2000				101	Phosphor Green
				81003	**F40T12/R24/ECO/CVG**	30	20000						103	Sleeved Rosco Red 24
				81001	**F40T12/B65/ECO/CVG**	30	20000						103	Sleeved Rosco Blue 65
				81002	**F40T12/G89/ECO/CVG**	30	20000						103	Sleeved Rosco Green 89
PREHEAT														
T12	Medium BiPin (G13)	20	24	**48259**	**F20T12/R/24/CVG**	24	9000						103	Sleeved Rosco Red 24
				48260	**F20T12/B/65/CVG**	24	9000						103	Sleeved Rosco Blue 65
				48261	**F20T12/G/89/CVG**	24	9000						103	Sleeved Rosco Green 89
				10231	**F20T12/B 6PK**	24	9000	450	330				101	Phosphor Blue
				10233	**F20T12/G 6PK**	24	9000	1575	975				101	Phosphor Green
GOLD														
T5 LAMPS														
T5	Miniature BiPin (G5)	28	45.2	**25768**	**F28T5/GO/CVG**	40	20000	1986	1946	GoldN/A			103	

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GOLD (CONTINUED)														
T8 LAMPS														
T8	Medium BiPin (G13)	17	24	**25779**	**F17T8/GO/CVG**	24	20000	970	950	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		15	36	**25783**	**F25T8/GO/CVG**	24	20000	1590	1558	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		32	48	**25784**	**F32T8/GO/CVG**	36	20000	2280	2235	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		36	48	**81334**	**F36T8/GO/CVG**	25	20000	2600	2545	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		58	60	**80053**	**F58T8/GO/CVG**	25	20000	4080	4000	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		59	96	**25810**	**F96T8/GO/CVG**	24	20000	4492	4400	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T12 LAMPS														
T12	Medium BiPin (G13)	40	48	**25850**	**F40/GO/CVG**	30	20000	2510	2460	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
	Single Pin (Fa8)	55	72	**25854**	**F72T12/GO/CVG**	15	12000	4150	4070	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		75	96	**25852**	**F96T12/GO/CVG**	15	12000	5640	5530	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
	R17d	110	96	**25853**	**F96T12/GO/HO/CVG**	15	12000	8010	7850	Gold	N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions
GROCERY DISPLAY LAMPS														
T12	Medium BiPin (G13)	40	48	**81000**	**F40T12/FL/ECO/CVG**	30	20000	1925	1450	2750				CovRFresh®
GERMICIDAL														
T5	Miniature BiPin (G5)	4	6	**15872**	**G4T5**	24	6000					9, 16	106	Clear, UVC Source
		6	8	**15873**	**G6T5**	24	6000					9, 16	106	Clear, UVC Source
		8	12	**11077**	**G8T5**	24	6000					9, 16	106	Clear, UVC Source
		11	11.9	**29495**	**G11T5**	24	8000					9, 16	106	Clear, UVC Source
		16	8.91	**16495**	**G16T5**	24	8000					9, 16	106	Clear, UVC Source
	Single Pin (Fa8)	39	36	**15874**	**G36T5**	24	9000					9, 16	106	Clear, UVC Source
		65	64	**15864**	**G64T5**	24	9000					9, 16	106	Clear, UVC Source
GERMICIDAL (CONTINUED)														
T8	Medium BiPin (G13)	10	13.6	**29498**	**G10T8**	24	6000					9, 16	106	Clear, UVC Source
		15	18	**11078**	**G15T8**	24	8000					9, 16	106	Clear, UVC Source
		25	18	**11082**	**G25T8**	24	8000					9, 16	106	Clear, UVC Source
		30	36	**11080**	**G30T8**	24	8000					9, 16	106	Clear, UVC Source
		36	48	**29499**	**G36T5**	24	8000					9, 16	106	Clear, UVC Source
		55	36	**15875**	**G55T8/HO**	24	8000					9, 16	106	Clear, UVC Source
T10	Medium BiPin (G13)	20	24	**15876**	**G20T10**	24	8000					9, 16	106	Clear, UVC Source
		40	48	**29532**	**G40T10**	24	8000					9, 16	106	Clear, UVC Source
PLANT AND AQUARIUM/TERRARIUM														
T8 LAMPS														
15" T8 LAMPS														
T8	Medium BiPin (G13)	14	15	**41373**	**F14T8/AR/FR 6PK**	24	7500	360		4000	92 ✎		104	Aquarium Lamp Freshwater
				40903	**F14T8/AR/FS/6PK**	24	7500	550		9325	64		104	Aquarium Lamp Fresh and Saltwater
				41375	**F14T8/AR/SA 6PK**	24	7500	190		1000062			104	Aquarium Lamp Saltwater
				41377	**F14T8/SR 6PK**	24	7500	565		5000	90 ✎		104	Aquarium/Terrarium Lamp
18" T8 LAMPS														
T8	Medium BiPin (G13)	15	18	**22907**	**F15T8/AR/FR 6PK**	24	7500	425		4000	92 ✎		104	Aquarium Lamp Freshwater
				22910	**F15T8/AR/FS 6PK**	24	7500	675		9325	64		104	Aquarium Lamp Fresh and Saltwater

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PLANT AND AQUARIUM/TERRARIUM (CONTINUED)														
T8 LAMPS (CONTINUED)														
18" T8 LAMPS (CONTINUED)														
T8	Medium BiPin (G13)	15	18	**22920**	**F15T8/AR/SA 6PK**	24	7500	210	1000	62			104	Aquarium Lamp Saltwater
				49892	**F15T8/PL/AQ 6PK**	24	7500	510	3100	90	✎		104	Plant & Aquarium Wide Spectrum
				22904	**F15T8/SR 6PK**	24	7500	620	5000	90	✎		104	Aquarium/Terrarium Lamp
36" T8 LAMPS														
T8	Medium BiPin (G13)	30	36	**41374**	**F30T8/AR/FR 6PK**	24	9000	630	4000	92	✎		104	Aquarium Lamp Freshwater
				40904	**F30T8/AR/FS 6PK**	24	9000	1400	9235	64			104	Aquarium Lamp Fresh and Saltwater
				41376	**F30T8/AR/SA 6PK**	24	9000	315	1000	062			104	Aquarium Lamp Saltwater
T12 LAMPS														
24" T12 LAMPS														
T12	Medium BiPin (G13)	20	24	**22908**	**F20T12/AR/FR 6PK**	24	9000	600	4000	92	✎		104	Aquarium Lamp Freshwater
				22911	**F20T12/AR/FS 6PK**	24	9000	950	9325	64			104	Aquarium Lamp Fresh and Saltwater
				22922	**F20T12/AR/SA 6PK**	24	9000	270	1000	62			104	Aquarium Lamp Saltwater
				49891	**F20T12/PL/AQ 6PK**	24	9000	750	3100	90	✎		104	Plant & Aquarium Wide Spectrum
				22905	**F20T12/SR 6PK**	24	9000	875	5000	90	✎		104	Aquarium/Terrarium Lamp
36" T12 LAMPS														
T12	Medium BiPin (G13)	30	36	**41378**	**F30T12/SR 6PK**	24	18000	1100	5000	90	✎		104	Aquarium/Terrarium Lamp
48" T12 LAMPS														
T12	Medium BiPin (G13)	40	48	**22909**	**F40T12/AR/FR 6PK**	24	9000	1425	4000	92	✎		104	Aquarium Lamp Freshwater
				22914	**F40T12/AR/FS 6PK**	24	9000	2350	9325	64			104	Aquarium Lamp Fresh and Saltwater
				22923	**F40T12/AR/SA 6PK**	24	9000	700	1000	62			104	Aquarium Lamp Saltwater
				49893	**F40PL/AQ 6PK**	24	20000	1900	3100	90	✎		104	Plant & Aquarium Wide Spectrum
				22906	**F40T12/SR 6PK**	24	20000	2250	5000	90	✎		104	Aquarium/Terrarium Lamp
EXPORT OUTSIDE U.S. AND CANADA ONLY														
T12	Medium BiPin (G13)	40	22.5	**14496**	**F40CW/U/6/EX**	12	14000	2800	2460	4100	60		102	6" Spacing Between Legs
				14498	**F40D/U/6/EX**	12	14000	2350	2070	6500	75	✎	102	Daylight, 6" Spacing Between Legs
		40	48	**14656**	**F40CW/EX-30PK**	30	20000	3050	2680	4100	60		101	
				14488	**F40D/EX**	30	20000	2550	2240	6500	75	✎	101	Daylight
	Single Pin (Fa8)	75	96	**12541**	**F96T12CW/EX-15PK**	15	12000	6150	5660	4100	60		101	
				12543	**F96T12/D/EX-15PK**	15	12000	5250	4330	6500	75	✎	101	Daylight
	R17d	110	96	**12540**	**F96T12CW/HO/EX**	15	12000	8900	7740	4100	60		101	
				12542	**F96T12D/HO/EX-15**	15	12000	7600	6610	6500	75	✎	101	Daylight
CONSUMER PRODUCTS														
T8														
4' T8														
T8	Medium BiPin (G13)	32	48	**15900**	**F32T8/SP30/ECO/UPC**	36	20000	2800	2660	3000	78 Ⓔ ✎		101	
				15903	**F32T8/SP35/ECO/UPC**	36	20000	2800	2660	3500	78 Ⓔ ✎		101	
				11873	**F32T8/SP35/ECO 12PK**	12	20000	2800	2660	3500	78 Ⓔ ✎		101	
				15909	**F32T8/SP41/ECO/UPC**	36	20000	2800	2660	4100	78 Ⓔ ✎		101	
				15904	**F32T8/SP41/ECO/C**	12	20000	2800	2660	4100	78 Ⓔ ✎		101	
				16263	**F32T8/RESI/ECO/2PK**	6	15000	2650	2385	4100	78 Ⓔ ✎		101	
				31231	**F32T8/RES/ECO/2PK**	24	15000	2650	2385	4100	78 Ⓔ ✎		101	
				49356	**F32T8/KB/ECO/2PK**	6	20000	2800	2660	3000	78 Ⓔ ✎		104	Kitchen & Bath
				49357	**F32T8/KB/ECO/2PK-24**	24	20000	2800	2660	3000	78 Ⓔ ✎		104	Kitchen & Bath
				29566	**F32T8/D/ECO/2PK**	24	20000	2700	2565	6500	78 Ⓔ ✎		101	Daylight
				87783	**F32T8/D/ECO/TW**	6	20000	2700	2565	6500	78 Ⓔ ✎		101	Daylight

Ⓔ Means this lamp meets Federal Minimum Efficiency Standards.

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI	Foot-notes	Warning and Cautions	Additional Information
CONSUMER PRODUCTS (CONTINUED)														
T8														
8' T8														
T8	Single Pin (Fa8)	59	96	**10401**	**F96T8/SP41/UPC**	24	15000	5800	5500	4100	78 Ⓔ ✎		101	
T12														
4' F40 ECOLUX® STANDARD														
T12	Medium BiPin (G13)	40	48	**23382**	**F40SP41/ECO/C**	10	20000	3200	2910	4100	72 Ⓔ ✎		101	
				25400	**F40SP65/ECO/UPC**	30	20000	3050	2775	6500	75 Ⓔ ✎		101	
				25399	**F40/C50/ECO/UPC**	30	20000	2250	1870	5000	90 ✎		101	Chroma 50
				16083	**F40D/ULTRA/ECO/2PK**	9	20000	3050	2775	6500	75 Ⓔ ✎		101	Daylight Ultra
				13969	**F40D/ULTRA/ECO/6PK**	24	20000	3050	2775	6500	75 Ⓔ ✎		101	Daylight Ultra
				40333	**F40/KB/ECO 2PK**	9	20000	3400	3090	3000	70 Ⓔ ✎		104	Kitchen & Bath
				21323	**F40/KB/ECO 6PK**	24	20000	3400	3090	3000	70 Ⓔ ✎		104	Kitchen & Bath
				12224	**F40/SUN/ECO/6PK**	24	20000	2250	1870	5000	90 ✎		101	Sunlight
				10949	**F40/RES/ECO/LL/2PK**	9	20000	3200	2910	4100	72 Ⓔ ✎		101	
				14440	**F40/RES/ECO/SLV**	30	15000	3150	2860	4100	72 Ⓔ ✎		101	
				14433	**F40/RES/ECO/SLV 6PK**	24	15000	3150	2860	4100	72 Ⓔ ✎		101	
				14441	**F40/RES/ECO/TWIN-9PK**	9	15000	3150	2860	4100	72 Ⓔ ✎		101	
				48510	**F40/RES/ECO/TWIN-15PK**	15	15000	3150	2860	4100	72 Ⓔ ✎		101	
4' ECOLUX® UTILITY SHOPLIGHT														
T12	Medium BiPin (G13)	25	48	**14445**	**F48"/25W/UTECOUPC**	30	12000	1860	1675	4100	60	10	101	
				14450	**F48"/25W/UTECOSLV**	30	12000	1860	1675	4100	60	10	101	
				14456	**F48"/25W/UTECOTWN**	9	12000	1860	1675	4100	60	10	101	
				48511	**F48"/25W/UTECO2PK**	15	12000	1860	1675	4100	60	10	101	
4' F34 ECOLUX® WATT-MISER® ENERGY SAVING LAMPS														
T12	Medium BiPin (G13)	34	48	**25401**	**F34/SP30/RS/WM/ECO/UPC**	30	20000	2750	2475	3000	70 Ⓔ ✎ ↘	1	101	
				23486	**F34/SP35/WM/ECO/C**	10	20000	2750	2475	3500	73 Ⓔ ✎ ↘	1	101	
				21858	**F34/SP35/RS/WM/ECO/UPC**	24	20000	2750	2475	3500	73 Ⓔ ✎ ↘	1	101	
				40372	**F34/SP41/RS/WM/ECO**	24	20000	2750	2475	4100	72 Ⓔ ✎ ↘	1	101	
				25397	**F34/SP41/RS/WM/ECO/UPC**	30	20000	2750	2475	4100	72 Ⓔ ✎ ↘	1	101	
				25391	**F34/CW/RS/WM/ECO/UPC**	30	20000	2650	2280	4100	60 Ⓔ ↘	1	101	
				23485	**F34/CW/RS/WM/ECO/C 10PK**	10	20000	2650	2280	4100	60 Ⓔ ↘	1	101	
				25398	**F34/WW/RS/WM/ECO/UPC**	30	20000	2700	2320	3000	52 Ⓔ ↘	1	101	Warm White
MOD-U-LINE® WATT-MISER® U-TUBES														
T12	Medium BiPin (G13)	35	22.5	**14471**	**F35/CW/U/6/WM/UPC**	12	14000	2300	2100	4100	60 Ⓔ ↘	1	102	
				23383	**F35/CW/U6/WM/C**	6	14000	2300	2100	4100	60 Ⓔ ↘	1	102	
MOD-U-LINE® STANDARD U-TUBES														
T12	Medium BiPin (G13)	40	22.5	**22050**	**F40/SP35/U/6/UPC**	12	14000	3050	2780	3500	73 Ⓔ ✎		102	
				25374	**F40/SCW/U6/UPC 6PK**	6	14000	2800	2460	4100	75 Ⓔ ✎		102	Super Cool White
T12 INSTANT START														
4' T12														
T12	Single Pin (Fa8)	40	48	**20461**	**F48T12/CW/UPC 6PK**	24	9000	2875	2650	4100	60		101	
8' T12														
T12	Single Pin (Fa8)	75	96	**10149**	**F96T12/SP41/UPC**	15	12000	6500	6110	4100	72 Ⓔ ✎		101	

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All footnote references found at the end of this section. ↘ Reduced Wattage ✎ High Color Rendering.

Bulb	Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Footnotes	Warning and Cautions	Additional Information
CONSUMER PRODUCTS (CONTINUED)														
T12 (CONTINUED)														
8' T12 WATT-MISER® ENERGY SAVING LAMPS														
T12	Single Pin (Fa8)	60	96	**21856**	**F96T12/SP35/WM/UPC**	15	12000	5700	5360	3500	73 Ⓔ ✎ ↯	1	101	
				11217	**F96T12/SP35/WM/C 10PK**	10	12000	5700	5360	3500	73 Ⓔ ✎ ↯	1	101	
				25395	**F96T12/SP41/WM/UPC**	15	12000	5700	5360	4100	72 Ⓔ ✎ ↯	1	101	
				21713	**F96T12/CW/WM/UPC 10PK**	10	12000	5500	5060	4100	60 Ⓔ ↯	1	101	
				25171	**F96T12/UTCW/EE/C**	10	12000	5500	5060	4100	60 Ⓔ ↯	1	101	
8' T12 ECOLUX® WATT-MISER® ENERGY SAVING LAMPS														
T12	Single Pin (Fa8)	60	96	**16816**	**F96T12/CW/WM/ECO**	15	12000	5500	5060	4100	60 Ⓔ ✎ ↯	1	101	
T12 RAPID START														
T12	Medium BiPin (G13)	30	36	**39176**	**F30T12/CW/RS 6PK**	24	18000	2200	1910	4100	60		101	
				77119	**F30T12/RS/KB/PM**	24	18000	2350	2120	3000	70 ✎		104	Kitchen & Bath
T12 HIGH OUTPUT RAPID START RECESSED DOUBLE CONTACT														
T12	R17d	60	48	**27313**	**F48T12/CW/HO/UPC**	24	12000	4050	3520	4100	60		101	
		95	96	**21714**	**F96T12/CW/HO/WM/UPC**	15	12000	8000	6960	4100	60 Ⓔ ↯	1	101	
PREHEAT														
T5														
T5	Miniature BiPin (G5)	4	6	**15983**	**F4T5/CW CARD**	10	5000	135	100	4100	60		101	Preheat
		6	9	**15986**	**F6T5/CW CARD**	10	5000	295	235	4100	60		101	Preheat
		8	12	**15987**	**F8T5/CW CARD**	10	5000	400	320	4100	60		101	Preheat
				25425	**F8T5/WW/CARD**	5	5000	410	330	3000	52		101	Preheat, Warm White
		13	21	**25426**	**F13T5/WW/CARD**	5	5000	870	720	3000	52		101	Preheat, Warm White
T8														
T8	Medium BiPin (G13)	15	18	**13968**	**F15T8/SUN 6PK**	24	7500	620	525	5000	90 ✎		101	Preheat, Sunlight
		30	36	**22747**	**F30T8/KB 6PK**	24	7500	2125	1910	3000	70 ✎		104	Preheat, Kitchen & Bath
		15	18	**46982**	**F15T12/KB-TP**	24	9000	785	730	3000	70 ✎		104	Preheat, Kitchen & Bath
				46981	**F15T8/KB-TP**	24	7500	940	850	3000	70 ✎		104	Preheat, Kitchen & Bath
				21326	**F15T8/KB/6PK**	24	7500	940	850	3000	70 ✎		104	Preheat, Kitchen & Bath
				10143	**F15T8/CW/6PK**	24	7500	825	725	4100	60 ✎		101	Preheat
				46980	**F15T8/SUN-TP**	24	7500	620	525	5000	90 ✎		101	Preheat, Sunlight
T12														
T12	Medium BiPin (G13)	14	15	**10117**	**F14T12/CW 6PK**	24	9000	650	550	4100	60		101	Preheat
				22979	**F14T12/KB 6PK**	24	9000	700	650	3000	70 ✎		104	Preheat, Kitchen & Bath
		15	18	**10183**	**F15T12/CW 6PK**	24	9000	760	685	4100	60		104	Preheat, Kitchen & Bath
				22745	**F15T12/KB 6PK**	24	9000	785	730	3000	70		104	Preheat, Kitchen & Bath
		20	24	**80046**	**F20T12/CW/ECO/6PK**	24	9000	1200	1150	4100	60		101	Preheat
				25575	**F20T12/D/ECO/UPC**	24	9000	1025	945	6500	75 ✎		101	Preheat, Daylight
				21325	**F20T12/KB/ECO/6PK**	24	9000	1275	1200	3000	70 ✎		104	Preheat, Kitchen & Bath
				14419	**F20T12/SUN/ECO/6PK**	24	9000	875	790	5000	90 ✎		101	Preheat, Sunlight
				25577	**F20T12/WW/ECO/UPC**	24	9000	1250	1150	3000	52		101	Preheat, Warm White
				10231	**F20T12/B 6PK**	24	9000	450	330				101	Preheat
				10233	**F20T12/G 6PK**	24	9000	1575	957				101	Preheat
				46914	**F20T12/KB/ECO-TP**	24	9000	1275	1200	3000	70 ✎		104	Preheat, Kitchen & Bath
				46826	**F20T12/SUN/ECO-TP**	24	9000	875	790	5000	90 ✎		101	Preheat, Sunlight
		30	36	**46917**	**F30T12/KB/ECO-TP**	24	18000	2350	2120	3000	70 ✎		104	Preheat, Kitchen & Bath

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Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life	Lumens Initial	Lumens Mean	Color Temp. K	Color CRI		Foot-notes	Warning and Cautions	Additional Information
CONSUMER PRODUCTS (CONTINUED)															
BLACKLIGHT															
T8	Medium BiPin (G13)	15	18	**35884**	**F15T8/BL 6PK**	24	7500						8	105	Blacklight, UVA Source
T12		20	24	**10244**	**F20T12/BL 6PK**	24	9000						8	105	Blacklight, UVA Source
		40	48	**10526**	**F40BL 6PK**	24	20000						8	105	Blacklight, UVA Source
BLACKLIGHT BLUE															
T8	Medium BiPin (G13)	15	18	**35885**	**F15T8/BLB 6PK**	24	7500							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium BiPin (G13)	20	24	**34747**	**F20T12/BLB 6PK**	24	9000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9	4 Pin (G10q)	22	8.25	**25665**	**FC8T9/BLB**	6	12000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium BiPin (G13)	40	48	**10531**	**F40BLB 6PK**	24	20000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9 CIRCLINE®															
T9	4 Pin (G10q)	20	6.5	**42732**	**FC6T9/CW**	12	12000	800	560	4100	60			101	
		22	8.25	**33774**	**FC8T9/CW**	12	12000	1100	825	4100	60			101	
				11026	**FC8T9/D**	12	12000	925	690	6500	75	✎		101	Daylight
				11084	**FC8T9/KB**	6	12000	1400	1120	3000	82	✎		104	Kitchen & Bath
		32	12	**33890**	**FC12T9/CW**	12	12000	1950	1460	4100	60			101	
				11039	**FC12T9/D**	12	12000	1675	1260	6500	75	✎		101	Daylight
				11085	**FC12T9/KB**	6	12000	2400	1920	3000	82	✎		104	Kitchen & Bath
		40	16	**33893**	**FC16T9/CW**	12	12000	2700	2030	4100	60			101	
				11052	**FC16T9/D**	12	12000	2250	1690	6500	75	✎		101	Daylight
COVRGUARD® SHATTER RESISTANT															
T8 PREHEAT															
T8	Medium BiPin (G13)	15	18	**46627**	**F15T8/KB/CVG/UPC**	24	7500	910	825	3000	70	✎	11, 13	104	Kitchen & Bath
T12 RAPID START															
T12	Medium BiPin (G13)	25	48	**46625**	**F48"/25W/UTSL/CVG/UPC**	30	12000	1800	1620	4100	60		11, 13	103	
		40	48	**80995**	**F40/KB/ECO/CVG/UPC**	24	20000	3290	2990	3000	82	✎	11, 13	108	Kitchen & Bath
				80999	**F40/CW/ECO/CVG/UPC**	30	20000	2930	2370	4100	60		11, 13	103	
T12 RAPID START WATT-MISER®															
T12	Medium BiPin (G13)	34	48	**80997**	**F34/CW/WM/ECO/CVG/UPC**	30	20000	2570	2210	4100	60	➶	1, 11, 13	103	
T12 PREHEAT															
T12	Medium BiPin (G13)	20	24	**80984**	**F20T12/CW/ECO/CVG/UPC**	24	9000	1160	1110	4100	60		11, 13	103	
				80985	**F20T12/KB/ECO/CVG/UPC**	24	9000	1230	1160	3000	70	✎	11, 13	108	Kitchen & Bath
T12 INSTANT START															
T12	Single Pin (Fa8)	60	96	**41002**	**F96T12/CW/WM/CVG/UPC**	15	12000	5330	4910	4100	60	➶	1, 11, 13	103	Watt-Miser®
PLANT AND AQUARIUM / TERRARIUM															
T8	Medium BiPin (G13)	14	15	**41373**	**F14T8/AR/FR 6PK**	24	7500	360		4000	92	✎		104	Aquarium Lamp Freshwater
				40903	**F14T8/AR/FS/6PK**	24	7500	550		9325	64			104	Aquarium Lamp Fresh and Saltwater
				41375	**F14T8/AR/SA 6PK**	24	7500	190		1000062				104	Aquarium Lamp Saltwater
				41377	**F14T8/SR 6PK**	24	7500	565		5000	90	✎		104	Aquarium/Terrarium Lamp
		15	18	**22907**	**F15T8/AR/FR 6PK**	24	7500	425		4000	92	✎		104	Aquarium Lamp Freshwater
				22910	**F15T8/AR/FS 6PK**	24	7500	675		9325	64			104	Aquarium Lamp Fresh and Saltwater
				22920	**F15T8/AR/SA 6PK**	24	7500	210		1000062				104	Aquarium Lamp Saltwater
				49892	**F15T8/PL/AQ 6PK**	24	7500	510		3100	90	✎		104	Plant & Aquarium Wide Spectrum
				22904	**F15T8/SR 6PK**	24	7500	620		5000	90	✎		104	Aquarium/Terrarium Lamp

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All footnote references found at the end of this section. ➶ Reduced Wattage ✎ High Color Rendering.

Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life 3hr/ Start	Rated Life 12hr/ Start	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Foot-notes	Warning and Cautions	Additional Information
CONSUMER PRODUCTS (CONTINUED)															
PLANT AND AQUARIUM / TERRARIUM (CONTINUED)															
T12	Medium BiPin (G13)	20	24	**22908**	**F20T12/AR/FR 6PK**	24	9000		600		4000	92	✎	104	Aquarium Lamp Freshwater
				22911	**F20T12/AR/FS 6PK**	24	9000		950		9325	64		104	Aquarium Lamp Fresh and Saltwater
				22922	**F20T12/AR/SA 6PK**	24	9000		270		1000062			104	Aquarium Lamp Saltwater
				49891	**F20T12/PL/AQ 6PK**	24	9000		750		3100	90	✎	104	Plant & Aquarium Wide Spectrum
				22905	**F20T12/SR 6PK**	24	9000		875		5000	90	✎	104	Aquarium/Terrarium Lamp
T8	Medium BiPin (G13)	30	36	**41374**	**F30T8/AR/FR 6PK**	24	9000		630		4000	92	✎	104	Aquarium Lamp Freshwater
				40904	**F30T8/AR/FS 6PK**	24	9000		1400		9235	64		104	Aquarium Lamp Fresh and Saltwater
				41376	**F30T8/AR/SA 6PK**	24	9000		315		1000062			104	Aquarium Lamp Saltwater
T12	Medium BiPin (G13)	30	36	**41378**	**F30T12/SR 6PK**	24	18000		1100		5000	90	✎	104	Plant & Aquarium Wide Spectrum
		40	48	**22909**	**F40T12/AR/FR 6PK**	24	9000		1425		4000	92	✎	104	Aquarium Lamp Freshwater
				22914	**F40T12/AR/FS 6PK**	24	9000		2350		9325	64		104	Aquarium Lamp Fresh and Saltwater
				22923	**F40T12/AR/SA 6PK**	24	9000		700		1000062			104	Aquarium Lamp Saltwater
				49893	**F40PL/AQ 6PK**	24	20000		1900		3100	90	✎	104	Plant & Aquarium Wide Spectrum
				22906	**F40T12/SR 6PK**	24	20000		2250		5000	90	✎	104	Aquarium/Terrarium Lamp

OPERATING NOTES

GENERAL OPERATION

GE fluorescent lamps should be used only with auxiliary equipment designed to produce proper characteristics. Specifications for auxiliary equipment are covered by ANSI. Specifications for auxiliary equipment not included in ANSI Standards are available from GE Lighting.

FACTORS AFFECTING LAMP PERFORMANCE

Ballasts

The three basic types of ballasts for fluorescent lamps are Preheat (PH), Instant Start (IS), and Rapid Start (RS). In general, lamps identified as preheat, rapid start or instant start should be used only on the corresponding ballast type. Electronic ballasts are presently available in both instant start and rapid start designs. Ballasts that operate with output currents below recommended levels, either by design or poor performance, will reduce fluorescent lamp life.

Application - Choosing the appropriate ballast for an application can have an impact on lamp life. For example, T8 lamps with electronic Instant Start ballasts should not be used in applications with electronic controls (such as occupancy sensors). The frequent switching will significantly reduce lanp life. Use only programmed rapid start ballasts in these situations.

Operating Characteristics - Fluorescent lamp life is strongly affected by the ballast. ANSI has set standards for fluorescent ballasts that will ensure proper operation of fluorescent lamps. Ballast characteristics that have a significant effect on lamp life are Current Crest Factor, Starting Time, Cathode Voltage and Open Circuit Voltage.

Ballast Factor - This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. For example, a ballast having a ballast factor of 0.93 will result in the lamp emitting 93% of its rated lumen output.

High Frequency - All fluorescent lamps operate more efficiently when driven at frequencies greater than 15 kHz. Four-foot fluorescent lamps operate approximately 10% more efficiently, while eight-foot lamps improve efficiency by about 5%. This efficiency improvement is one reason for the popularity of electronic ballasts.

Temperature

Light output and watts of a fluorescent lamp are affected by the ambient temperature, and by drafts. Most fluorescent lamps reach their maximum light output at room temperatures or at "luminaire temperatures." All-Weather fluorescent lamps are designed with jackets that improve performance in low temperature environments.

Luminaire

The design of the lighting fixture (luminaire) affects the ambient temperature in which the fluorescent lamps will be operating. A fixture that operates too cool or warm will result in lower light output from the lamps and reduce illumination levels.

Starting

The life of a fluorescent lamp is affected by the number of times the lamp is started. Starting results in shorter lamp life, while continuous operation will provide the longest lamp life. All fluorescent lamps, except where noted, have life ratings based on 3 hours per start.

GENERAL INFORMATION

LUMENS

Nominal Initial Lumens refer to the nominal light output of the lamp after 100 hours of operation at 25° C. **Nominal Mean Lumens** refer to the nominal light output of the lamp at 40% of its rated life. Some values are based on engineering calculations derived from extrapolation of initial measured lumens.

A self-ballasted lamp is measured using its integral ballast. Lamps without an integral ballast are measured using reference ballasts.

Lumens produced by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. For lighting design calculations, refer to the ballast manufacturer's published data for the appropriate "Ballast Factor".

NOMINAL WATTS

Wattage is classified in accordance with American National Standards Institute standards and may not be the same as the wattage run on a reference ballast. The nominal wattage as defined by ANSI may vary from the listed wattage. Watts consumed by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. The watts shown for self ballasted lamps are nominal system watts.

RATED LIFE

The rated life (hours) is the approximate median life when lamps are operated for three hours per start under laboratory conditions using ballasts which meet industry standards or GE Lighting specifications where no industry standards exist. Rated life for self-ballasted lamps is the approximate median life when operated for three hours per start under laboratory conditions. Some lamps are rated at 12 hours per start where noted.

FOOTNOTES

#	Footnote
1	Watt-Miser®, Watt-Miser® Plus, F28T8/UMX and Energy Efficient (/EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. These lamps are not recommended for use with dimming systems. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F34 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps and F28/UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart programmed rapid start ballasts.
2	Reprographic Peak Emission 417nm. 2000 hours useful life; burning hours longer.
3	F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.
4	Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.
6	Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).
7	Performance data based on engineering estimates.
8	CAUTION: Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.
9	WARNING: Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.
10	Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
11	Lumen rating based on approximate 3% reduction in light output with CovRguard® sleeving.
12	Do not use CovRguard® HO lamps in watertight or airtight fixtures.
13	Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
14	Life rating is based on 12 hrs. per start.
15	Lumen rating based on approximate 3% reduction in light output with jacket.
16	Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
17	Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).
18	T8 lamps run on Instant Start ballasts should not be used in conjunction with electronic controls such as occupancy sensors. The frequent switching will significantly impact lamp life and void any warranties. Programmed Rapid Start ballasts such as GE's UltraStart ballast should be used in these situations.
19	T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)

Performance Notes:

T8 Lamps:

- Rated life for F32T8, F32T8/XL or SXL, and F32T8/HL/XL lamps is rated life on **rapid start *and* instant start** circuits. See product section for lamp specific ratings.
- Rated life for F32T8/WM and F32T8/WM/XL and the F28T8/UMX lamps is rated life on **instant start** circuits.
- Rated life for F17T8 and F25T8 (including XL versions), as well as, the F40T8 is rated life on **rapid start** circuits. Rated life for these linear lamps on instant start electronic circuits is reduced by 25%.

T12 Lamps: Life of 4' T12 lamps on single-lamp, rapid start ballasts may be reduced.

COLOR TEMPERATURE / CHROMATICITY

Approximate color temperature of fluorescent is measured using industry standard methods and is based on a nominal 40-watt source. Fluorescent sources operating at different lamp currents will have slightly shifted color appearances when compared to the corresponding 40-watt sources.

SCOTOPIC/PHOTOPIC RATIO

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic Vision) and cones to yellow light (Photopic Vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens, for the light source, on an ANSI reference ballast. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

SCOTOPIC/PHOTOPIC (S/P) RATIO:

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

T5	S/P Ratio
830	1.3
835	1.5
841	1.7
850	1.9
865	2.2

F28T8	S/P Ratio
SP30	1.3
SP35	1.5
SP41	1.8
SP50	2.0

F17 and F25T8	S/P Ratio
SP30	1.3
SP35	1.4
SP41	1.6

F17 and F25T8	S/P Ratio
SPX30	1.3
SPX35	1.5
SPX41	1.8
SPX50	2.0
SPX65	2.3

F32 and F32T8/WM	S/P Ratio
SP30	1.3
SP35	1.4
SP41	1.6
SP50	1.9
SP65	2.1

F32T8 and F32T8/HL	S/P Ratio
SPX30	1.3
SPX35	1.5
SPX41	1.8
SPX50	2.0
SPX65	2.3

WARNING AND CAUTION NOTICES

101

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

102

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Improper handling may cause breakage

- Do not carry lamp by bracket

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

103

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

104

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

105

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp emits UV radiation which may cause eye/skin irritation. RG-1

- Minimize exposure

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

106

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Lamp emits UV radiation which may cause eye/skin injury. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

107

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not open - there are no servicable parts inside
- Do not drill or cut into plastic parts
- Avoid direct water/liquid contact
- Fully insert plug
- Use indoors only

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Lamp is not replaceable. Do not attempt to remove lamp from fixture
- Use in permanent installation only — not for portable use

Unit will fail if not installed properly

- Follow installation instructions

108

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

FLUORESCENT LAMP CROSS REFERENCE

GE Description	Osram Sylvania Description	Philips Description
ORDER THIS GE LAMP	**IF YOU USE THESE LAMPS**	
APPLIANCE		
F24T8/CW/4	F18T8/CW/K/24	F18T8/CW/24
F26T8/CW/4 (19W)	F18T8/CW/K/26	F16T8/CW/26 (16W)
F28T8/CW/4 (19W)	F18T8/CW/K/28	F17T8/CW/28 (17W)
F30T8/CW/4	F18T8/CW/K/30	F18T8/CW/30 (18W)
F25T12/CW/33	F25T12/CW/33	—
ECOLUX® T8 SP	**OCTRON®**	**TL70**
F17T8/SP30/ECO	FO17/730/ECO	F17T8/TL730/ALTO
F17T8/SP35/ECO	FO17/735/ECO	F17T8/TL735/ALTO
F17T8/SP41/ECO	FO17/741/ECO	F17T8/TL741/ALTO
F25T8/SP30/ECO	FO25/730/ECO	F25T8/TL730/ALTO
F25T8/SP35/ECO	FO25/735/ECO	F25T8/TL735/ALTO
F25T8/SP41/ECO	FO25/741/ECO	F25T8/TL741/ALTO
F32T8/SP30/ECO	FO32/730/ECO	F32T8/TL730/ALTO
F32T8/SP35/ECO	FO32/735/ECO	F32T8/TL735/ALTO
F32T8/SP41/ECO	FO32/741/ECO	F32T8/TL741/ALTO
F32T8/SP50/ECO	FO32/750/ECO	F32T8/TL750/ALTO
F32T8/SP65/ECO	FO32/765/ECO	—
ECOLUX® T8 SPX	**OCTRON®**	**TL80**
F17T8/SPX30/ECO	FO17/830/ECO	F17T8/TL830/ALTO
F17T8/SPX35/ECO	FO17/835/ECO	F17T8/TL835/ALTO
F17T8/SPX41/ECO	FO17/841/ECO	F17T8/TL841/ALTO
F25T8/SPX30/ECO	FO25/830/ECO	F25T8/TL830/ALTO
F25T8/SPX35/ECO	FO25/835/ECO	F25T8/TL835/ALTO
F25T8/SPX41/ECO	FO25/841/ECO	F25T8/TL841/ALTO
F32T8/SPX30/ECO	FO32/830/ECO	F32T8/TL830/ALTO
F32T8/SPX35/ECO	FO32/835/ECO	F32T8/TL835/ALTO
F32T8/SPX41/ECO	FO32/841/ECO	F32T8/TL841/ALTO
F32T8/SPX50/ECO	FO32/850/ECO	F32T8/TL850/ALTO
ECO EXTRA-LIFE T8 SP		
F17T8/XL/SP30/ECO	FO17/730/XP/ECO	—
F17T8/XL/SP35/ECO	FO17/735/XP/ECO	—
F17T8/XL/SP41/ECO	FO17/741/XP/ECO	—
F25T8/XL/SP30/ECO	FO25/730/XP/ECO	—
F25T8/XL/SP35/ECO	FO25/735/XP/ECO	—
F25T8/XL/SP41/ECO	FO25/741/XP/ECO	—
F32T8/XL/SP30/ECO	FO32/730/XP/ECO	F32T8/TL730 PLUS/ALTO
F32T8/XL/SP35/ECO	FO32/735/XP/ECO	F32T8/TL735 PLUS/ALTO
F32T8/XL/SP41/ECO	FO32/741/XP/ECO	F32T8/TL741 PLUS/ALTO

GE Description	Osram Sylvania Description	Philips Description
ORDER THIS GE LAMP	**IF YOU USE THESE LAMPS**	
ECO EXTRA-LIFE T8 SPX	**XP/ECO**	**PLUS/ALTO**
F17T8/XL/SPX30/ECO	FO17/830/XP/ECO	F17T8/TL830/PLUS/ALTO
F17T8/XL/SPX35/ECO	FO17/835/XP/ECO	F17T8/TL835/PLUS/ALTO
F17T8/XL/SPX41/ECO	FO17/841/XP/ECO	F17T8/TL841/PLUS/ALTO
F17T8/XL/SPX50/ECO	FO17/850/XP/ECO	F17T8/TL850/PLUS/ALTO
F17T8/XL/SPX65/ECO	FO17/865/XP/ECO	F17T8/TL865/PLUS/ALTO
F25T8/XL/SPX30/ECO	FO25/830/XP/ECO	F25T8/TL830/PLUS/ALTO
F25T8/XL/SPX35/ECO	FO25/835/XP/ECO	F25T8/TL835/PLUS/ALTO
F25T8/XL/SPX41/ECO	FO25/841/XP/ECO	F25T8/TL841/PLUS/ALTO
F25T8/XL/SPX50/ECO	FO25/850/XP/ECO	F25T8/TL850/PLUS/ALTO
F25T8/XL/SPX65/ECO	FO25/865/XP/ECO	F25T8/TL865/PLUS/ALTO
F32T8/XL/SPX30/ECO	FO32/830/XP/ECO	F32T8/TL830 PLUS/ALTO
F32T8/XL/SPX35/ECO	FO32/841/XP/ECO	F32T8/TL835 PLUS/ALTO
F32T8/XL/SPX41/ECO	FO32/835/XP/ECO	F32T8/TL841 PLUS/ALTO
F32T8/XL/SPX50/ECO	FO32/850/XP/ECO	F32T8/TL850 PLUS/ALTO
F32T8/XL/SPX65/ECO	FO32/865/XP/ECO	F32T8/TL865 PLUS/ALTO
4' T8 HIGH LUMEN (HL)		
F32T8/XL/SPX30/HL/ECO	FO32/830/XPS/ALTO	F32T8/ADV830/ALTO
F32T8/XL/SPX35/HL/ECO	FO32/835/XPS/ALTO	F32T8/ADV835/ALTO
F32T8/XL/SPX41/HL/ECO	FO32/841/XPS/ALTO	F32T8/ADV841/ALTO
F32T8/XL/SPX50/HL/ECO	FO32/850/XPS/ALTO	F32T8/ADV850/ALTO
4' T8 WATT-MISER®		
F32T8/SP30/IS/WM/ECO	FO32/730/SS/ECO	—
F32T8/SP35/IS/WM/ECO	FO32/735/SS/ECO	—
F32T8/SP41/IS/WM/ECO	FO32/741/SS/ECO	—
F32T8/SP50/IS/WM/ECO	FO32/750/SS/ECO	—
4' T8 WATT-MISER® EXTRA-LIFE		
F32T8/XL/SP30/WM/ECO	—	F32T8/ADV830/EW/LL/ALTO
F32T8/XL/SP35/WM/ECO	—	F32T8/ADV835/EW/LL/ALTO
F32T8/XL/SP41/WM/ECO	—	F32T8/ADV841/EW/LL/ALTO
F32T8/XL/SP50/WM/ECO	—	F32T8/ADV850/EW/LL/ALTO
4' T8 ULTRAMAX™ 28W		
F28T8/SP30/UMX/ECO	FO28/830/XP/SS/ECO	—
F28T8/SP30/UMX/ECO	FO28/835/XP/SS/ECO	—
F28T8/SP30/UMX/ECO	FO28/841/XP/SS/ECO	—
4' T8 VERY LONG LIFE (SXL)		
F32T8/SXL/SP30/ECO	FO32/830/XPS/ECO	F32T8/TL830 PLUS/ALTO
F32T8/SXL/SP35/ECO	FO32/835/XPS/ECO	F32T8/TL830 PLUS/ALTO
F32T8/SXL/SP41/ECO	FO32/841/XPS/ECO	F32T8/TL830 PLUS/ALTO
4' T12 WATT-MISER® F40		
F34/CW/RS/WM/ECO	F34CW/SS/ECO	F34CW/RS/EW/ALTO
F34WW/RS/WM/ECO	F34WW/SS/ECO	F34WW/RS/EW/ALTO
F34/SP30/RS/WM/ECO	F34/D30/SS/ECO	F34/SPEC30/RS/EW/ALTO
F34/SP35/RS/WM/ECO	F34/D35/SS/ECO	F34/SPEC35/RS/EW/ALTO
F34/SP41/RS/WM/ECO	F34/D41/SS/ECO	F34/SPEC41/RS/EW/ALTO
F34/SP50/RS/WM/ECO	—	—
F34/SP65/RS/WM/ECO	—	—

See www.gelighting.com e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. Reduced Wattage High Color Rendering.

FLUORESCENT LAMP CROSS REFERENCE (CONTINUED)

GE Description	Osram Sylvania Description	Philips Description
ORDER THIS GE LAMP IF YOU USE THESE LAMPS		
4' T12 WATT-MISER® F40 SPX		
F34/SPX30/RS/WM/ECO	F34/D830/SS/ECO	F34/30U/RS/EW/ALTO
F34/SPX35/RS/WM/ECO	F34/D835/SS/ECO	F34/35U/RS/EW/ALTO
F34/SPX41/RS/WM/ECO	F34/D841/SS/ECO	F34/41U/RS/EW/ALTO
8' T12 WATT-MISER® (WM)		
F96T12/SP30/WM/ECO	F96T12/D30/SS/ECO	F96T12/SPEC30/EW/ALTO
F96T12/SP35/WM/ECO	F96T12/D35/SS/ECO	F96T12/SPEC35/EW/ALTO
F96T12/SP41/WM/ECO	F96T12/D41/SS/ECO	F96T12/SPEC41/EW/ALTO
F96T12/SP65/WM/ECO	F96T12/D65/SS (not ECO)	—
F96T12/SPX30/WM/ECO	F96T12/D830/SS/ECO	F96T12/30U/EW/ALTO
F96T12/SPX35/WM/ECO	F96T12/D835/SS/ECO	F96T12/35U/EW/ALTO
F96T12/SPX41/WM/ECO	F96T12/D841/SS/ECO	F96T12/41U/EW/ALTO
F96T12/SP30/ECO	F96T12/D30/ECO	F96T12/SPEC30/ALTO
F96T12/SP35/ECO	F96T12/D35/ECO	F96T12/SPEC35/ALTO
F96T12/SP41/ECO	F96T12/D41/ECO	F96T12/SPEC41/ALTO
F96T12/SPX30/ECO	F96T12/D830/ECO	F96T12/SPEC30U/ALTO
F96T12/SPX35/ECO	F96T12/D835/ECO	F96T12/SPEC35U/ALTO
F96T12/SPX41/ECO	F96T12/D841/ECO	F96T12/SPEC41U/ALTO
8' T12 HIGH OUTPUT /WM)		
F96T12/CW/HO/WM/ECO	F96T12/CW/HO/ SS/ECO	F96T12/CW/HO/EW/ALTO
T5 AND T5/HO		
F14W/T5/830/ECO	FP14/830/ECO	F14T5/830/ALTO
F14W/T5/835/ECO	FP14/835/ECO	F14T5/835/ALTO
F14W/T5/841/ECO	FP14/841/ECO	F14T5/841/ALTO
F14W/T5/850/ECO	—	—
F14W/T5/865/ECO	—	—
F21W/T5/830/ECO	FP21/830/ECO	F21T5/830/ALTO
F21W/T5/835/ECO	FP21/835/ECO	F21T5/835/ALTO
F21W/T5/841/ECO	FP21/841/ECO	F21T5/841/ALTO
F21W/T5/850/ECO	—	—
F21W/T5/865/ECO	—	—
F28W/T5/830/ECO	FP28/830/ECO	F28T5/830/ALTO
F28W/T5/835/ECO	FP28/835/ECO	F28T5/835/ALTO
F28W/T5/841/ECO	FP28/841/ECO	F28T5/841/ALTO
F28W/T5/850/ECO	—	—
F28W/T5/865/ECO	FP28/865/ECO	—
F35W/T5/830/ECO	FP35/830/ECO	F35T5/830
F35W/T5/835/ECO	FP35/835/ECO	F35T5/835
F35W/T5/841/ECO	FP35/841/ECO	F35T5/841
F35W/T5/850/ECO	—	—
F35W/T5/865/ECO	—	—
F24W/T5/830/ECO	FP24/830/HO/ECO	F24T5/830/HO/ALTO
F24W/T5/835/ECO	FP24/835/HO/ECO	F24T5/835/HO/ALTO
F24W/T5/841/ECO	FP24/841/HO/ECO	F24T5/841/HO/ALTO
F24W/T5/850/ECO	—	—

GE Description	Osram Sylvania Description	Philips Description
ORDER THIS GE LAMP IF YOU USE THESE LAMPS		
T5 AND T5/HO (CONTINUED)		
F24W/T5/865/ECO	—	—
F39W/T5/830/ECO	FP39/830/HO/ECO	F39T5/830/HO/ALTO
F39W/T5/835/ECO	FP39/835/HO/ECO	F39T5/835/HO/ALTO
F39W/T5/841/ECO	FP39/841/HO/ECO	F39T5/841/HO/ALTO
F39W/T5/850/ECO	—	—
F39W/T5/865/ECO	—	—
F54W/T5/830/ECO	FP54/830/HO/ECO	F54T5/830/HO/ALTO
F54W/T5/835/ECO	FP54/835/HO/ECO	F54T5/835/HO/ALTO
F54W/T5/841/ECO	FP54/841/HO/ECO	F54T5/841/HO/ALTO
F54W/T5/850/ECO	FP54/850/HO/ECO	F54T5/850/HO/ALTO
F54W/T5/865/ECO	FP54/865/HO/ECO	F54T5/865/HO/ALTO
F49W/T5/830/ECO	—	—
F49W/T5/835/ECO	—	—
F49W/T5/841/ECO	—	—
F49W/T5/850/ECO	—	—
F49W/T5/865/ECO	—	—
F80W/T5/830/ECO	FP80/830/HO	F80T5/830/HO
F80W/T5/835/ECO	FP80/835/HO	F80T5/835/HO
F80W/T5/841/ECO	FP80/841/HO	F80T5/841/HO
F80W/T5/850/ECO	—	—
F80W/T5/865/ECO	—	—
OTHER RAPID START		
F96PG17/CW/WM	—	—
F34CW/U/6/WM/ECO	FB34/CW/6/SS/ECO	FB34/CW/6/EW/ALTO
F40CW/U/3	—	—
F40CW/U/6	FB40CWX/6	—
F48T12/CW/1500	F48T12/CW/VHO	F48T12/CW/VHO
F48PG17/CW	—	—
F72T12/CW/1500	F72T12/CW/VHO	F72T12/CW/VHO
F72PG17/CW	—	—
F96T12/CW/1500	F96T12/CW/VHO	F96T12/CW/VHO
F96PG17/CW	—	—
F48T12/CW/1500/0	F48T12/CW/VHO/LT	F48T12/CW/VHO-0
F48T12/CW/VHO/O	—	—
F60T10/CW	F60T12/CW/VHO/LT	F60T12/CW/VHO-0
F72T12/CW/1500/0	F72T12/CW/VHO/LT	F72T12/CW/VHO-0
F96T12/CW/1500/0	F96T12/CW/VHO/LT	F96T12/CW/VHO-0
F48T10J/CW	FJ48T12/CW/VHO/LT	FJ48T12/CW/VHO-0
F60T10J/CW	—	FJ60T12/CW/VHO-0
F72T10J/CW	FJ72T12/CW/VHO/LT	FJ72T12/CW/VHO-0
F96T10J/CW	FJ96T12/CW/VHO/LT	FJ96T12/CW/VHO-0

GE ULTRAMAX® INSTANT START BALLASTS

GE REVOLUTIONIZES LIGHTING AGAIN WITH BREAKTHROUGH TECHNOLOGY

In the GE labs, our engineers have developed a breed of ballasts to make lighting systems that save more energy, are more adaptable, and deliver optimal lamp performance. The innovative, patented technology in our new UltraMax® electronic ballasts exceeds expectations, and is like nothing else available.

MULTI-VOLTAGE TECHNOLOGY MEANS A SINGLE ULTRAMAX® MODEL HANDLES VOLTAGE FROM 120 THROUGH 277

UltraMax® Ballasts can virtually "read" the incoming voltage and adapt automatically to any voltage from 108V to 305V.
The benefits of Multi-Voltage Control (MVC) are obvious:

- Fewer models handle more jobs, eliminating inventory hassles.
- MVC simplifies installation and eliminates guesswork at the job site.
- MVC compensates for incoming voltage fluctuations or variations from unreliable power.

THE ULTRAMAX® IS THE ONLY FULL LINE OF T8 BALLASTS WITH A UL TYPE CC ANTI-ARC RATING

UL Type CC Rating is a stringent designation of protection against arcing in electrical devices. GE's Arc-Guard design eliminates the damaging effects arcing can have on lamps, ballasts and sockets.

HIGH EFFICIENCY DELIVERS OVER 40% ENERGY SAVINGS

Ballasts are the new frontier of energy efficiency. Systems combining UltraMax® electronic ballasts and T8/WM lamps can deliver over 40% energy savings over standard electromagnetically ballasted T12 systems. Since energy costs are typically 80% of the overall cost of light, a more efficient system can pay for itself in a very short time and provide an excellent return on investment.

ULTRAMAX® IS ULTRA LAMP FRIENDLY

With an industry low lamp current crest factor (LCCF) of <1.5, UltraMax® ensures optimal lamp operation and maximum lamp life, which can save on lamp and maintenance costs.

ACTIVE CURRENT REGULATION (ACR) TECHNOLOGY IS A PATENTED ADVANTAGE

The UltraMax® ballast's patented ACR modular design means individual inverter modules regulate the output current to each lamp. So, unlike conventional ballasts, if one lamp fails, the remaining lamps are not forced to operate at a higher current. This ensures optimal lamp performance.

ANTI-STRIATION CONTROL FOR BETTER LIGHT QUALITY, WITH NO STRIATIONS

The UltraMax® is the only line of T8 ballasts with Anti-Striation Control. This advanced technology eliminates the maintenance issues caused by striating lamps, often referred to as spiraling or swirling. This provides a flicker- and worry-free environment.

COMPARE THE ENERGY USE OF A THREE LAMP FIXTURE

Technology	*Watts*
Standard T12/WM System	117
Standard Electronic T8 System	87
UltraMax™ L System With GE F28T8	65

FULLY PARALLEL INDEPENDENT LAMP OPERATION MAKES SYSTEM EASIER TO MAINTAIN

If one lamp fails, all the others in the system stay lit. That means system maintenance is easier to manage.

ULTRAMAX® IS ULTRA-COOL

The UltraMax® ballast's high efficiency design results in ultra-cool operation that can provide additional AC energy savings, especially during peak demand periods.

A BIG IDEA IN A SMALL PACKAGE

The UltraMax® ballast housing is smaller, lower-profile and lightweight. That can be a big help in retrofits. It also means future fixture designs can be more compact and streamlined.

EVERY UNIT IS TESTED AND PROVEN BEFORE IT'S SHIPPED

GE does 100% burn-in on every UltraMax™ ballast using our extreme open/short test, which simulates undesirable and harsh-use situations, so you are assured of a system you can rely on right out of the box.

GE SIX SIGMA QUALITY BACKED BY A FULL 5-YEAR LIMITED WARRANTY

The UltraMax® balast is designed by GE's expert engineers and custom-manufactured to our exacting Six Sigma specifications, all backed by a full 5-year warranty. When used with GE T8 Lamps you also get our Total Performance System Warranty which can cover lamps up to 3 years depending on your annual usage. Contact your GE Representative for more details.

A FULL FAMILY OF HIGH EFFICIENCY MULTI-VOLTAGE BALLASTS FOR ALL T8 APPLICATIONS

ULTRAMAX ELECTRONIC BALLAST **L**

The Low watt option for Max energy savings. With a ballast factor of .77, the L line is the most energy efficient choice. It provides adequate illumination for most applications. For 1, 2, 3, and 4 T8 lamps in 2', 3', and 4' lengths.

ULTRAMAX ELECTRONIC BALLAST **N**

The Normal light option balances efficiency and illumination. The most-used type of ballast, the N line saves energy without sacrificing lumens. A ballast factor of .87 meets most application needs. For 1, 2, 3, and 4 T8 lamps in 2', 3', 4', and 8' lengths.

ULTRAMAX ELECTRONIC BALLAST **H**

The choice for High light output. With a ballast factor of 1.15, UltraMax® H delivers the most lumens for maximum light or when you want more savings using fewer lamps. This is the first high-efficiency high-light output line for 2, 3 and 4 T8 lamps.

ULTRASTART® PROGRAMMED START BALLASTS

FEATURES AND BENEFITS

Longer Lamp Life in Frequently Switched Applications

- UltraStart® extends lamp life by 18% to greater than 200% versus instant start ballasts in frequently switched applications, saving you money in maintenance costs and replacement lamps.
- Program Start ballasts are required in any applications using sensors or where extended lamp life is a primary concern. Operation of instant start ballast systems in frequently-switched applications in conjunction with automated controls (such as, but not limited to, occupancy sensor) will void lamp warranties.

Same Energy Savings as High-Efficiency Instant Start Ballasts

- GE UltraStart® ballasts operate at an industry high 90%+ efficiency. Traditional PS ballasts typically operate between 79–86%.

Simplify Installation with Multi-Voltage Technology

- The UltraStart® T5 and UltraStart® T8 XL and H ballasts incorporate Multi-Voltage technology. UltraStart® can virtually "read" the incoming voltage and adapt automatically to any voltage from 108V to 305V. Fewer models handle more jobs with Multi-Voltage technology, and it eliminates guess work at the job site. Multi-Voltage BallastsControl (MVC) also compensates for incoming voltage fluctuations or variations from unreliable power.

Lower Maintenance Costs with Parallel Mode Operation

- Most PS ballasts operate in series mode, meaning if one bulb goes out, they all go out. GE UltraStart® T8 ballasts operate in parallel mode, meaning if one bulb goes out, others stay on.

Fast Starting Time

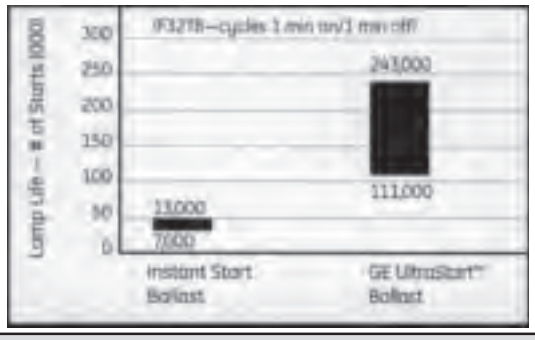
- GE UltraStart® T8 ballasts start in visually the same time as instant start ballasts (less than 0.7 seconds)—a significant improvement versus traditional PS ballasts. An important feature when using sensors and the annoying delay of waiting for the lights to turn on with traditional PS ballasts.

Complies with (RoHS) Restrictions of Hazardous Materials Standards.

GE LAMP LIFE RANGE—INSTANT START VS. PROGRAMMED START**

GE lamp life studies have shown that lamp life is up to 20 times longer in rapid cycle testing. Lamp life tests have demonstrated 111,000 to 243,000 starts on F32T8 lamps with GE UltraStart® ballasts as opposed to only 7,000 to 13,000 starts with standard instant start ballasts. UltraStart® maximizes lamp life in frequently switched applications and where lamp life is a primary concern. GE UltraStart® ballasts and lamps provide guaranteed performance with the GE Total System Limited Warranty.

**GE 2004–2005 lamp testing @ industry standard B50 rapid cycle testing.



Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
ULTRAMAX® INSTANT START MULTI-VOLTAGE HIGH EFFICIENCY							
49706	**GE132MAX-L/ULTRA**	1- F32T8 120 to 277 "L" .77BF	Instant Start	Low	Parallel	Standard	10
49771	**GE132MAX-N/ULTRA**	1- F32T8 120 to 277"N" .87 BF	Instant Start	Normal	Parallel	Standard	10
23939	**GE132MAX-N-IP**	1- F32T8 120 to 277"N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
49775	**GE232MAX-H/ULTRA**	2 or 1- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
47548	**GE232MAX-H-42T**	2 or 1- F32T8 120 to 277"H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
49707	**GE232MAX-L/ULTRA**	2 or 1- F32T8 120 to 277 "L" .77 BF	Instant Start	Low	Parallel	Standard	10
47546	**GE232MAX-L-42T**	2 or 1- F32T8 120 to 277 "L" .77 BF Pallet Pack	Instant Start	Low	Parallel	Pallet Pack	420
49772	**GE232MAX-N/ULTRA**	2 or 1- F32T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
31052	**GE232MAX-N-42T**	2 or 1- F32T8 120 to 277 "N" .87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
23940	**GE232MAX-N-IP**	2 or 1- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
49776	**GE332MAX-H/ULTRA**	3 or 2- F32T8 120 to 277	Instant Start	High	Parallel	Standard	10
47549	**GE332MAX-H-42T**	3 or 2- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
49708	**GE332MAX-L/ULTRA**	3 or 2- F32T8 120 to 277 "I" .77 BF	Instant Start	Low	Parallel	Standard	10
31055	**GE332MAX-L-42T**	3 or 2- F32T8 120 to 277 "I" .77 BF Pallet Pack	Instant Start	Low	Parallel	Pallet Pack	420
49773	**GE332MAX-N/ULTRA**	3 or 2- F32T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
31053	**GE332MAX-N-42T**	3 or 2- F32T8 120 to 277 "N" .87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
23941	**GE332MAX-N-IP**	3 or 2- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
49777	**GE432MAX-H/ULTRA**	4 or 3- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
47550	**GE432MAX-H-42T**	4 or 3- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
49709	**GE432MAX-L/ULTRA**	4 or 3- F32T8 120 to 277 "L" .77 BF	Instant Start	Low	Parallel	Standard	10
47547	**GE432MAX-L-42T**	4 or 3- F32T8 120 to 277 "L" .77 BF Pallet Pack	Instant Start	Low	Parallel	Pallet Pack	420
49774	**GE432MAX-N/ULTRA**	4 or 3- F32T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
31054	**GE432MAX-N-42T**	4 or 3- F32T8 120 to 277 "N" .87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
23942	**GE432MAX-N-IP**	4 or 3- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4

Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
ULTRAMAX™ INSTANT START MULTI-VOLTAGE HIGH EFFICIENCY (CONTINUED)							
49766	**GE159MAX-N/ULTRA**	1- F96T8 120 to 277	Instant Start	Normal	Parallel	Standard	10
49767	**GE259MAX-N/ULTRA**	2 or 1- F96T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
23954	**GE259MAX-N-IP**	2 or 1- F96T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
ULTRASTART™ T8 PROGRAM START							
29621	**GE-232-120-PS-N**	2 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29630	**GE-232-120PS-N-T**	2 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29622	**GE-232-277-PS-N**	2 F32T8 277V Normal Light .87 BF<10% THD	Programmed Start	Normal	Parallel	Standard	10
29632	**GE-232-277PS-N-T**	2 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29675	**GE-232-MVPS-H**	2 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Standard	10
29651	**GE-232-MV-PS-H-T**	2 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Pallet Pack	420
29671	**GE-232-MVPS-XL**	2 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD	Programmed Start	Ultra Low	Parallel	Standard	10
29665	**GE-232-MVPS-XL-T**	2 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD	Programmed Start	Ultra Low	Parallel	Pallet Pack	420
29623	**GE-332-120-PS-N**	3 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29633	**GE-332-120PS-N-T**	3 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29624	**GE-332-277-PS-N**	3 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29634	**GE-332-277PS-N-T**	3 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29676	**GE-332-MVPS-H**	3 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Standard	10
29656	**GE-332-MV-PS-H-T**	3 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Pallet Pack	420
29672	**GE-332-MVPS-XL**	3 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD	Programmed Start	Ultra Low	Parallel	Standard	10
29666	**GE-332-MVPS-XL-T**	3 F32T8 120V-277V Extra Low Watt .60 BF<10% THD	Programmed Start	Ultra Low	Parallel	Pallet Pack	420
29625	**GE-432-120-PS-N**	4 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29635	**GE-432-120PS-N-T**	4 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29627	**GE-432-277-PS-N**	4 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29650	**GE-432-277PS-N-T**	4 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29678	**GE-432-MVPS-H**	4 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Standard	8
29657	**GE-432-MV-PS-H-T**	4 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Pallet Pack	420
RAPID START T12 HIGH OUTPUT							
80162	**B295SR120HP**	2- F96T12HOES RS 120	Rapid Start	Normal	Series	Standard	6
80163	**B295SR277HP**	2- F96T12HOES RS 277	Rapid Start	Normal	Series	Standard	6
ULTRASTART® T5 PROGRAM START							
29726	**GE454MVPSN1**	4 or 2- F54T5HO 120 to 277 UltraStart PRS	Programmed Start	Normal	Series-Parallel	Standard	12
29717	**GE454MVPSN1-B**	4 or 2- F54T5HO 120 to 277 UltraStart PRS Pallet Pack	Programmed Start	Normal	Series-Parallel	Pallet Pack	420

Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
T5 PROGRAMMED START MULTI-VOLT 120V - 277V							
47534	**B224PUNV-C0G1C**	2- F24T5HO PRS UNV 50/60 Hz	Programmed Start	Normal	Series	Standard	10
47536	**B228PUNV-C0G1C**	2- F28T5 PRS UNV 50/60 Hz	Programmed Start	Normal	Series	Standard	10
47540	**B239PUNV-D0G1C**	2- F39T5HO PRS UNV 50/60 Hz	Programmed Start	Normal	Series	Standard	10
47542	**B254PUNV-DGE1C**	2- F54T5HO PRS UNV 50/60 Hz	Programmed Start	Normal	Series	Standard	10
PROLINE™ T8 INSTANT START							
23680	**GE-132-120-N**	1 F32T8 120V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24161	**GE-132-120-N-84T**	1 F32T8 120V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23681	**GE-132-277-N**	1 F32T8 277V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24162	**GE-132-277-N-84T**	1 F32T8 277V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23671	**GE-232-120-N**	2 or 1 - F32T8 120V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24163	**GE-232-120-N-84T**	2 or 1- F32T8 120V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23672	**GE-232-277-N**	2 or 1- F32T8 277V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24164	**GE-232-277-N-84T**	2 or 1- F32T8 277V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23673	**GE-332-120-N**	3 or 2- F32T8 120V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24165	**GE-332-120-N-84T**	3 or 2- F32T8 120V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23674	**GE-332-277-N**	3 or 2- F32T8 277V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24166	**GE-332-277-N-84T**	3 or 2- F32T8 277V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23675	**GE-432-120-N**	4 or 3- F32T8 120V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24167	**GE-432-120-N-84T**	4 or 3- F32T8 120V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23676	**GE-432-277-N**	4 or 3- F32T8 277V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24168	**GE-432-277-N-84T**	4 or 3- F32T8 277V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23677	**GE-259-120-N**	2 or 1 F96T8 120v Normal Light .87 BF<10%THD	Instant Start	Normal	Parallel	Standard	10
24169	**GE-259-120-N-84T**	2 or 1- F96T8 120v "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23678	**GE-259-277-N**	2 or 1- F96T8 277v "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24170	**GE-259-277-N-84T**	2 or 1- F96T8 277v "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
MULTI-VOLT PROLINE™ T8 INSTANT START 120-277V							
30189	**GE-132-MV-N**	1- F32T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30268	**GE-132-MV-N-42T**	1- F32T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30198	**GE-232-MV-H2 or**	1- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
30275	**GE-232-MV-H-42T**	2 or 1- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
30247	**GE-232-MV-L**	2 or 1- F32T8 120 to 277 "L".77 BF	Instant Start	Low	Parallel	Standard	10
30191	**GE-232-MV-N**	2 or 1- F32T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30269	**GE-232-MV-N-42T**	2 or 1- F32T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30199	**GE-332-MV-H**	3 or 2- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
30296	**GE-332-MV-H-42T**	3 or 2- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
30255	**GE-332-MV-L**	3 or 2- F32T8 120 to 277	Instant Start	Low	Parallel	Standard	10
30309	**GE-332-MV-L-42T**	3 or 2- F32T8 120 to 277	Instant Start	Low	Parallel	Standard	420
30192	**GE-332-MV-N**	3 or 2- F32T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30270	**GE-332-MV-N-42T**	3 or 2- F32T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30219	**GE-432-MV-H**	4 or 3- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
30303	**GE-432-MV-H-42T**	4 or 3- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
30262	**GE-432-MV-L**	4 or 3- F32T8 120 to 277	Instant Start	Low	Parallel	Standard	10
30310	**GE-432-MV-L-42T**	4 or 3- F32T8 120 to 277	Instant Start	Low	Parallel	Pallet Pack	420
30193	**GE-432-MV-N**	4 or 3- F32T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30271	**GE-432-MV-N-42T**	4 or 3- F32T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30195	**GE-159-MV-N**	1- F96T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30274	**GE-159-MV-N-42T**	1- F96T8 120 to 277 "N" .87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30194	**GE-259-MV-N**	2 or 1- F96T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30272	**GE-259-MV-N-42T**	2 or 1- F96T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420

Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
MULTI-VOLT PROLINE™ T8 INSTANT START 120-277V (CONTINUED)							
30176	**GE-286-HO-MV-N**	2 or 1- F96T8HO IS 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
30187	**GE-286-HO-MV-N-P**	2 or 1- F96T8HO IS 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Pallet Pack	420
MULTI-VOLT PROLINE™ T12 ELECTRONIC T12 120-277V							
24107	**GE-240-RS-MV-N**	2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF	Rapid Start	Normal	Parallel	Standard	10
24773	**GE-240RS-MV-N-DIY**	2 or 1- F40 or F34T12 RS 120 to 277 I-Pack 4/carton	Rapid Start	Normal	Parallel	DIY	4
24109	**GE-340-RS-MV-N**	3 or 2- F40 or F34T12 Rapid Start 120 to 277	Rapid Start	Normal	Parallel	Standard	10
24774	**GE-340RS-MV-N-DIY**	3 or 2- F40 or F34T12 RS 120 to 277 I-Pack 4/carton	Rapid Start	Normal	Parallel	DIY	4
24776	**GE-260IS-MV-N-DIY**	2 or 1- F96T12 IS 120 to 277; I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
24108	**GE-260-IS-MV-N**	2 or 1- F96T12 Instant Start 120 to 277	—	High	Parallel	Standard	6
OTHER INSTANT START							
80148	**B259I120RHH**	2 F96T8 IS 120 60 HBEX	Instant Start	High	Parallel	Standard	6
80149	**B259I277RHH**	2 F96T8 IS 277 60 HBCX	Instant Start	High	Parallel	Standard	6
80136	**B332I347HP**	3- F32T8 IS 347 60Hz <10% THD "N" BF	Instant Start	Normal	Parallel	Standard	10
80277	**B332I347HPL**	3- F32T8 IS 347 <10% THD "L" BF	Instant Start	Low	Parallel	Standard	10
T8 DIMMING							
80353	**B132R120V5**	1- F32T8 DIM 100 to 5% RS 120	Rapid Start	Normal	Series	Standard	10
80355	**B232SR120V5**	2- F32T8 DIM 100 to 5% RS 120	Rapid Start	Normal	Series	Standard	10
80362	**B232SR277S50**	2- F32T8 Switch 100 / 50% RS 277	Rapid Start	Normal	Series	Standard	10
80356	**B232SR277V5**	2- F32T8 DIM 100 to 5% RS 277	Rapid Start	Normal	Series	Standard	10
80357	**B332SR120V5**	3- F32T8 DIM 100 to 5% RS 120	Rapid Start	Normal	Series	Standard	10
80358	**B332SR277V5**	3- F32T8 DIM 100 to 5% RS 277	Rapid Start	Normal	Series	Standard	10
MAGNETIC T12, T8, CIRCLELINE® BALLASTS							
89711	**GEM120-PH-120-DIY**	1- F20T12 F15T8 F1512 120V Magnetic Ballast(200H2)	Preheat	Normal	Series	DIY	10
89712	**GEM120-TC-120-DIY**	1- F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (546BTCP)	Trigger Start	Normal	Series	DIY	4
89714	**GEM140-HRS-120-DIY**	1- F40T12 F40T12 120V Magnetic Ballast (412LSLHTCP)	Rapid Start	Normal	Series	DIY	4
89709	**GEM140-RS-120-DIY**	1- F40T12 F30T12 F48/25W 120V Magnetic Ballast (413CTCP)	Rapid Start	Normal	Series	DIY	4
86158	**GEM140-RS-277-IP**	2- F40T12, F40T10, 120V, Magnetic Ballast, (446LSLHTCP)	Rapid Start	Normal	Series	Individual Pack	10
89719	**GEM196-IS-120-DIY**	1- F96T12 120V Magnetic Ballast (822BRTCP)	Instant Start	Normal	Series	DIY	4
86372	**GEM196-IS-120-IP**	1- F96T12 IS 120 Magnetic Ballast (822BRTCP)	Instant Start	Normal	Series	Individual Pack	6
86381	**GEM196-IS-277**	1- F96T12 IS 277 Magnetic Ballast (828BRTCP)	Instant Start	Normal	Series	Individual Pack	6
86231	**GEM1F4T5-PH-120**	1- F20T12, F15T8, F15T12, F14T12, 120V, Magnetic (546BTCP)	Preheat	Normal	Series	Individual Pack	20
89720	**GEM1FC16T9-RS-120**	2- FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP)	Rapid Start	Normal	Series	DIY	4
86132	**GEM1FC16T9-RS-120-IP**	1- F96T12, IS, 277V, Magnetic Ballast (828BRTCP)	Rapid Start	Normal	Series	Individual Pack	10
89722	**GEM1FC8T9-RS-120-DIY**	1- FC8T9 RS 120V Magnetic Ballast (547RSWSTCP)	Rapid Start	Normal	Series	DIY	4
86227	**GEM1FC8T9-RS-120-IP**	1- FC8T9 RS 120V Magnetic Ballast (547RSWSTCP)	Rapid Start	Normal	Series	Individual Pack	10
89717	**GEM1FC12T9-RS-120**	2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP)	Rapid Start	Normal	Series	Standard	4
80819	**GEM220-TS-120-DIY**	2- F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (447LRVLHTCP)	Trigger Start	Normal	Series	DIY	4
80644	**GEM230-RS-120**	2- F30T12 120V Magnetic Ballast (573LTCP)	Rapid Start	Normal	Series	DIY	4
87125	**GEM232T8-RS-120**	2- F32T8 RS 120V Magnetic Ballast (M232SR120C)	Rapid Start	Normal	Series	Individual Pack	10
87130	**GEM232T8-RS-277**	2- F32T8 RS 277V Magnetic Ballast (M232SR277C)	Rapid Start	Normal	Series	Individual Pack	10
89710	**GEM240-HRS-120-DIY**	2- F40T12 F40T12 120V Magnetic Ballast (420LTCP)	Mod. Rapid Start	Normal	Series	DIY	4

Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
MAGNETIC T12, T8, CIRCLELINE® BALLASTS (CONTINUED)							
86206	**GEM240-IS-277-IP**	2- F40T12 F40T10 IS 277V Magnetic Ballast (532BRTCP)	Instant Start	Normal	Series	Individual Pack	6
89707	**GEM240-RS-120-DIY**	2- F40T12 F40T10 120V Magnetic Ballast (446LSLHTCP)	Rapid Start	Normal	Series	Pallet Pack	72
46958	**GEM240-RS-120-DIY**	2 F40T12 F40T10 120V Magnetic Ballast	Rapid Start	Normal	Series	DIY	6
86139	**GEM240-RS-120-IP**	2- F40T12 RS 120V Magnetic Ballast (446LSLHTCP)	Rapid Start	Normal	Series	Individual Pack	10
89713	**GEM240-RS-277-DIY**	2- F40T12 F40T10 277V Magnetic Ballast (443LSLHTCP)	Rapid Start	Normal	Series	DIY	4
86124	**GEM240-RS-277-IP**	2- F40T12 RS 277V Magnetic Ballast (443LSLHTCP)	Rapid Start	Normal	Series	Individual Pack	10
86341	**GEM240-RS-220**	2- F40T12 F40T10 220V Magnetic Ballast (754LTCP)	Rapid Start	Normal	Series	Standard	10
86176	**GEM272HO-RS-120**	2- F72T12HO RS 120V Magnetic Ballast (490XLHTCP)	Rapid Start	Normal	Series	Individual Pack	4
89718	**GEM296HO-RS-120-DIY**	2 -F96T12HO F72T12HO 120V Magnetic Ballast (480SLHTCP)	Rapid Start	Normal	Series	DIY	2
86164	**GEM296HO-RS-120-IP**	2- F96T12HO F72T12HO RS 120V Magnetic Ballast (480SLHTCP)	Rapid Start	Normal	Series	DIY	4
86171	**GEM296HO-RS-2772**	F96T12 HO RS 277V Magnetic Ballast (487SLHTCP)	Rapid Start	Normal	Series	Individual Pack	4
89708	**GEM296-IS-120-DIY2**	F96T12 IS 120V Magnetic Ballast (806SLHTCP)	Instant Start	Normal	Series	Pallet Pack	48
46965	**GEM296-IS-120-DIY2**	F96T12 IS 120V Magnetic Ballast 60 HBCB	Instant Start	Normal	Series	DIY	4
86360	**GEM296-IS-120-IP2**	F96T12 IS 120V Magnetic Ballast (806SLHTCP)	Instant Start	Normal	Series	Individual Pack	6
89715	**GEM296-IS-277-DIY2**	F96T12 IS 277V Magnetic Ballast (827SLHTCP)	Instant Start	Normal	Series	DIY	4
86379	**GEM296-IS-277-IP2**	F96T12 IS 277V Magnetic Ballast (827SLHTCP)	Instant Start	Normal	Series	Individual Pack	6
MAGNETIC T12 SIGN BALLASTS							
88921	**USB-0412-12-IP**	04 to 12 foot 1 to 2 lamps	Rapid Start	Normal	Series	Individual Pack	4
88931	**USB-0816-14-IP**	08 to 16 feet 1 to 4 lamps	Rapid Start	Normal	Series	Individual Pack	4
88934	**USB-1632-24-IP**	16 to 32 feet 2 to 4 lamps	Rapid Start	Normal	Series	Individual Pack	2
88936	**USB-1024-14-IP**	10 to 24 feet 1 to 4 lamps	Rapid Start	Normal	Series	Individual Pack	2
88939	**USB-2036-46-IP**	20 to 36 feet 4 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
88940	**USB-2048-46-IP**	20 to 48 feet 4 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
MAGNETIC T12 SIGN MAX-3 SERIES BALLASTS							
88918	**USB-0218-16-IP**	Max 3 02 to 18 feet 1 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
88919	**USB-1048-16-IP**	Max 3 10 to 48 feet 1 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
88920	**USB-1232-16-IP**	Max 3 12 to 32 feet 1 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
MAGNETIC BALLASTS FOR COMPACT FLUORESCENT LAMPS							
87533	**GEM1CF13-PH-120**	1- CFT/Q13W/GX23 Pre Heat 120 (4111H2P)	Preheat	Normal	Series	Standard	20
87623	**GEM2FT36-RS-120**	2- FT36W/2G11 RS 120 (4150P)	Rapid Start	Normal	Series	Standard	10
87625	**GEM2FT40-RS-120**	2- FT40W/2G11RS RS 120 (4152P)	Rapid Start	Normal	Series	Standard	10
87634	**GEM1CF579-PH-277**	1- CFT579Q9W/G23 Pre Heat 277 (4205F2P)	Preheat	Normal	Series	Standard	20
87655	**GEM2CF13-PH-277**	2- CFT/Q13W/GX23 Pre Heat 277 (4214PBES)	Preheat	Normal	Series	Standard	10
87700	**GEM2CF24-PH-277**	2- CFQ26W/G24d Pre Heat 277 (4226PBES)	Preheat	Normal	Parallel	Standard	10
ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS							
80669	**C213UNVBE-IP**	2 or 1- CFQ13W/G24q PS UNV Bottom Exit	Prog. Rapid Start	Normal	Series	Individual Pack	10
80671	**C213UNVBES-IP**	2 or 1- CFQ13W/G24q PS UNV Bottom Exit w/ Studs	Prog. Rapid Start	Normal	Series	Individual Pack	10
80673	**C213UNVSE-IP**	2 or 1- CFQ13W/G24q PS UNV Side Exit (most common)	Prog. Rapid Start	Normal	Series	Individual Pack	10
80675	**C218UNVBEIP**	2 or 1- CFQ18W/G24q PS UNV Bottom Exit	Prog. Rapid Start	Normal	Series	Individual Pack	10
80677	**C218UNVBES-IP**	2 or 1- CFQ18W/G24q PS UNV Bottom Exit w/ Studs	Prog. Rapid Start	Normal	Series	Individual Pack	10
80679	**C218UNVSE-IP**	2 or 1- CFQ18W/G24q PS UNV Side Exit (most common)	Prog. Rapid Start	Normal	Series	Individual Pack	10
80683	**C240PUNVHP-B-IP**	2 or 1- FT40W2G11 PS UNV	Prog. Rapid Start	Normal	Series	Individual Pack	10
80680	**C240SI120RH-IP**	2- FT40W/2G11 IS 120	Instant Start	Normal	Series	Individual Pack	10
80681	**C240SI277RH-IP**	2- FT40W/2G11- IS 277	Instant Start	Normal	Series	Individual Pack	10

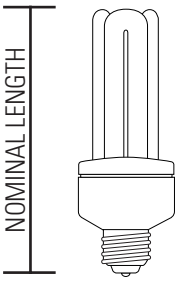
Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS (CONTINUED)							
47506	**C242UNVBES-IP**	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/ Studs	Prog. Rapid Start	Normal	Series	Individual Pack	10
47509	**C242UNVSE-IP**	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Side Exit	Prog. Rapid Start	Normal	Series	Individual Pack	10
80685	**C2642UNVBE-IP**	2 or 1- CF 26 42w PS UNV	Prog. Rapid Start	Normal	Series	Individual Pack	10
80687	**C2642UNVBES-IP**	2 or 1- CF 26 42w PS UNV	Prog. Rapid Start	Normal	Series	Individual Pack	10
80689	**C2642UNVSE-IP**	1/2 CF 26 42W PS UNV 60 HBXX	Prog. Rapid Start	Normal	Series	Individual Pack	10
80690	**C340SI120RH-IP**	3- FT40W/2G11 IS 120	Instant Start	Normal	Series	Individual Pack	10
80691	**C340SI277RH-IP**	3- FT40W/2G11 IS 277	Instant Start	Normal	Series	Individual Pack	10
ELECTRONIC HID							
29377	**GE-MH-250-400-MA**	1- 250 to 400w UltraMax HID Electronic 208-277 50-60Hz	M155, M154, M153, M131	Electronic		Standard Pack	1

Product Code	Description	Application*	ANSI Lamp/ Ballast	Circuit Type	Frame Size (H x L)	Package Type	Units Per Carton
DISTRIBUTOR REPLACEMENT BALLAST KITS - METAL HALIDE							
86824	**M50MLTLC3M500K**	1- 50w MH M110 or M148 Quad	M110	HX-HPF	3x4	Distributor Kit	6
86847	**M70MLTLC3M500K**	1- 70w MH M 98 or M143 Quad	M98	HX-HPF	3x4	Distributor Kit	6
86839	**M7048TLC3M500K**	1- 70w MH M 98 or M143 480	M98	HX-HPF	3x4	Distributor Kit	6
86675	**M100MLTLC3M500K**	1- 100w MH M 90 or M140 Quad	M90, M92, M140	HX-HPF	4.25x5.75	Distributor Kit	6
86667	**M10048TLC3M500K**	1- 100w MH M 90 or M140 480	M90, M92, M140	HX-HPF	3x4	Distributor Kit	6
86718	**M150MLTLC3M500K**	1- 150w MH M102 or M142 Quad	M102, M142	HX-HPF	3x4	Distributor Kit	6
86711	**M15048TLC3M500K**	1- 150w MH M102 or M142 480	M102, M142, M107	HX-HPF	3x4	Distributor Kit	6
86741	**M175MLTAC3M500K**	1- 175w MH M 57 or H 39 Quad	M57, H39, M107	CWA	3x4	Distributor Kit	6
87210	**M175ML5AC3M500K**	1- 175w MH M 57 or H 39 Multi-5 for all voltages	M57, H39, M109	CWA	3x4	Distributor Kit	6
86765	**M250MLTAC3M500K**	1- 250w MH M 58 or H 37 Quad	M58, H37	CWA	3x4	Distributor Kit	6
87211	**M250ML5AC3M500K**	1- 250w MH M 58 or H 37 Multi-5 small standard frame	M58, H37	CWA	3x4	Distributor Kit	6
49763	**M250ML5AC3M555K**	1- 250w MH M 58 or H 37 Multi-5 with Lamp (555K)	M58, H37	CWA	3x4	Distributor Kit	1
87212	**M250ML5AC4M500K**	1- 250w MH M 58 or H 37 Multi-5 large frame	M59, H33	CWA	4.25x4.75	Distributor Kit	3
49742	**M250ML5AC4M555K**	1- 250w MH M 58 or H 37 Multi-5 with Lamp (555K)	M59, H33	CWA	4.25x4.75	Distributor Kit	1
86814	**M400MLTAC4M500K**	1- 400w MH M 59 or H 33 Quad	M59, H33	CWA	4.25x4.75	Distributor Kit	3
86803	**M40048TAC4M500K**	1- 400w MH M 59 or H 33 480	M59, H33	CWA	4.25x4.75	Distributor Kit	3
86808	**M400ML5AC4M500K**	1- 400w MH M 59 or H 33 Multi-5 for all voltages	M58, H37	CWA	4.25x4.75	Distributor Kit	3
49745	**M400ML5AC4M555K**	1- 400w MH M 59 or H 33 Multi-5 with Lamp (555K)	M58, H37	CWA	4.25x4.75	Distributor Kit	1
86650	**M100048TAC5M500K**	1- 1000w MH M 47 or H 36 480	M47, H36	CWA	4.25x5.75	Distributor Kit	2
86655	**M1000MLTAC5M500K**	1- 1000w MH M 47 or H 36 Quad	M47, H36	CWA	4.25x5.75	Distributor Kit	2
87213	**M1000ML5AC5M500K**	1- 1000w MH M 47 or H 36 Multi-5 for all voltages	M47, H36	CWA	4.25x5.75	Distributor Kit	2
86698	**M1500MLTAC5M500K**	1- 1500w MH M 48 Quad	M48	CWA	4.25x5.75	Distributor Kit	2
86693	**M150048TAC5M500K**	1- 1500w MH M 48 480	M48	CWA	4.25x5.75	Distributor Kit	2
DISTRIBUTOR REPLACEMENT BALLAST KITS - PULSE START METAL HALIDE							
86876	**P17548TAC3M500K**	1- 175w PS M137 or M152 480	M152,M137	CWA	3x4	Distributor Kit	6
86885	**P175MLTAC3M500K**	1- 175w PS M137 or M 152 Quad	M153, M 137	CWA	3x4	Distributor Kit	6
86926	**P25048TAC4M500K**	1- 250w PS M138 or M153 480	M153, M138	CWA	4.25x4.75	Distributor Kit	3
86935	**P250MLTAC4M500K**	1- 250w PS M138 or M153 Quad	M153, M138	CWA	4.25x4.75	Distributor Kit	3
86952	**P32048TAC4M500K**	1- 320w PS M132 or M154 480	M154, M132	CWA	4.25x4.75	Distributor Kit	3
86968	**P320TRIAC4M502K**	1- 320w PS M132 or M154 TRI-Voltage 120 277 347	M154, M132	CWA	4.25x4.75	Distributor Kit	3
86959	**P320MLTAC4M500K**	1- 320w PS M132 or 154 Quad	M154, M132	CWA	4.25x4.75	Distributor Kit	3
86984	**P350MLTAC4M500K**	1- 350w PS M131 Quad	M131	CWA	4.25x4.75	Distributor Kit	3
42692	**P350277RCEM500K**	1- 350w PS M131 277 Reactor	M131	RX-NPF	3.75x4.5	Distributor Kit	3
86999	**P40048TAC4M500K**	1- 400w PS M135 now M155 480	M155,M135	CWA	4.25x4.75	Distributor Kit	3

Product Code	Description	Application*	ANSI Lamp/ Ballast	Circuit Type	Frame Size (H x L)	Package Type	Units Per Carton
DISTRIBUTOR REPLACEMENT BALLAST KITS - PULSE START METAL HALIDE (CONTINUED)							
87008	**P400MLTAC4M500K**	1- 400w PS M135 or M155 Quad	M155,M135	CWA	4.25x4.75	Distributor Kit	3
46934	**P750MLTAC5M500K**	1-750w PS M149 Quad	M149	CWA	4.25x5.75	Distributor Kit	2
46936	**P75048TAC5M500K**	1-750w PS M149 480	M149	CWA	4.25x5.75	Distributor Kit	2
DISTRIBUTOR REPLACEMENT BALLAST KITS - HIGH PRESSURE SODIUM							
87152	**S50MLTLC3M500K**	1- 50w S68 Quad	S68	HX-HPF	3x4	Distributor Kit	6
86587	**S70MLTLC3M500K**	1- 70w S62 Quad	S62	HX-HPF	3x4	Distributor Kit	6
86456	**S7048TLC3M500K**	1- 70w S62 480	S62	HX-HPF	3x4	Distributor Kit	6
87074	**S100MLTLC3M500K**	1- 100w S54 Quad	S54	HX-HPF	3x4	Distributor Kit	6
87068	**S10048TLC3M500K**	1- 100w S54 480	S54	HX-HPF	3x4	Distributor Kit	6
87094	**S150MLTLC3M500K**	1- 150w S55 Quad	S55	HX-HPF	3x4	Distributor Kit	6
87087	**S15048TLC3M500K**	1- 150w S55 480	S55	HX-HPF	3x4	Distributor Kit	6
87214	**S250ML5AC4M500K**	1- 250w S50 Multi-5 for all voltages	S50	CWA	4.25x4.75	Distributor Kit	3
49757	**S250ML5AC4M555K**	1- 250w S50 Multi-5 with Lamp (555K)	S50	CWA	4.25x4.75	Distributor Kit	1
87121	**S250MLTAC4M500K**	1- 250w S50 Quad	S50	CWA	4.25x4.75	Distributor Kit	3
87164	**S400MLTAC4M500K**	1- 400w S51 Quad smaller standard frame	S51	CWA	4.25x4.75	Distributor Kit	3
87175	**S400MLTAC5M500K**	1- 400w S51 Quad	S51	CWA	4.25x5.75	Distributor Kit	2
87217	**S400ML5AC5M500K**	1- 400w S51 Multi-5 for all voltages	S51	CWA	4.25x5.75	Distributor Kit	2
49758	**S400ML5AC4M555K**	1- 400w S51 Multi-5 with lamp (555K)	S52	CWA	4.25x4.75	Distributor Kit	1
87215	**S400ML5AC4M500K**	1- 400w S51 Multi-5 in smaller standard frame	S51	CWA	4.25x4.75	Distributor Kit	3
87198	**S40048TAC4M500K**	1- 400w S51 480 in smaller frame	S51	CWA	4.25x4.75	Distributor Kit	3
87206	**S40048TAC5M500K**	1- 400w S51 480	S51	CWA	4.25x5.75	Distributor Kit	2
87056	**S1000MLTAC5M500K**	1- 1000w S52 Quad	S52	CWA	4.25x5.75	Distributor Kit	2
87048	**S100048TAC5M500K**	1- 1000w S52 480	S52	CWA	4.25x5.75	Distributor Kit	2
87218	**S1000ML5AC5M500K**	1- 1000w S52 Multi-5 for all voltages	S52	CWA	4.25x5.75	Distributor Kit	2
DISTRIBUTOR REPLACEMENT BALLAST KITS - MERCURY							
86519	**H100MLTAC3M500K**	1- 100w H36 Quad	H38, H44	CWA	3x4	Distributor Kit	6
86527	**H175MLTAC3M500K**	1- 175w H39 Quad	H39	CWA	3x4	Distributor Kit	6
86542	**H400MLTAC4M500K**	1- 400w H39 Quad	H33	CWA	4.25x4.75	Distributor Kit	3
METAL HALIDE							
86576	**11210277CTC000C**	1- 70w M85 120/277 Enclosed & Potted	M85	HX-HPF	0	Standard	4
86578	**11210506CTC000C**	1- 70w M98 120/277 Enclosed & Potted	M98	HX-HPF	0	Standard	4
86574	**11210239CTC000I**	1- 100w M90 120/277 Enclosed & Potted	M90	HX-HPF	0	Standard	4
86563	**1110245SCTC000I**	1- 175w M57 120/277 Enclosed & Potted	M57, H39	CWA	0	Standard	2
86564	**1110246CTC000C**	1- 250w M58 120/277 Enclosed & Potted	M58, H37	CWA	0	Standard	2
42670	**1110-247SC-TC**	1- 400w M59 120/277 Enclosed & Potted F-can	M59, H33	CWA	0	Standard	2
80728	**1111-247SCTC000I**	1- 400w M59 120/277 Enclosed & Potted	M59, H33	CWA	0	Standard	4
HIGH PRESSURE SODIUM							
86605	**1233142U000I**	1- 70w S62 120 Reactor-NPF	S62	R-NPF	0	Standard	6
86596	**12210237CTC000I**	1- 70w S62 120/277 E & P F-can built-in starter	S62	HX-HPF	0	Standard	4
86606	**1233154U000I**	1- 150w S55 120 Reactor-NPF	S55	R-NPF	0	Standard	6

*Quad = 120V, 208V, 240V, 277V
Multi 5 = 120V, 208V, 240V, 277V, 480V

BULB IDENTIFICATION

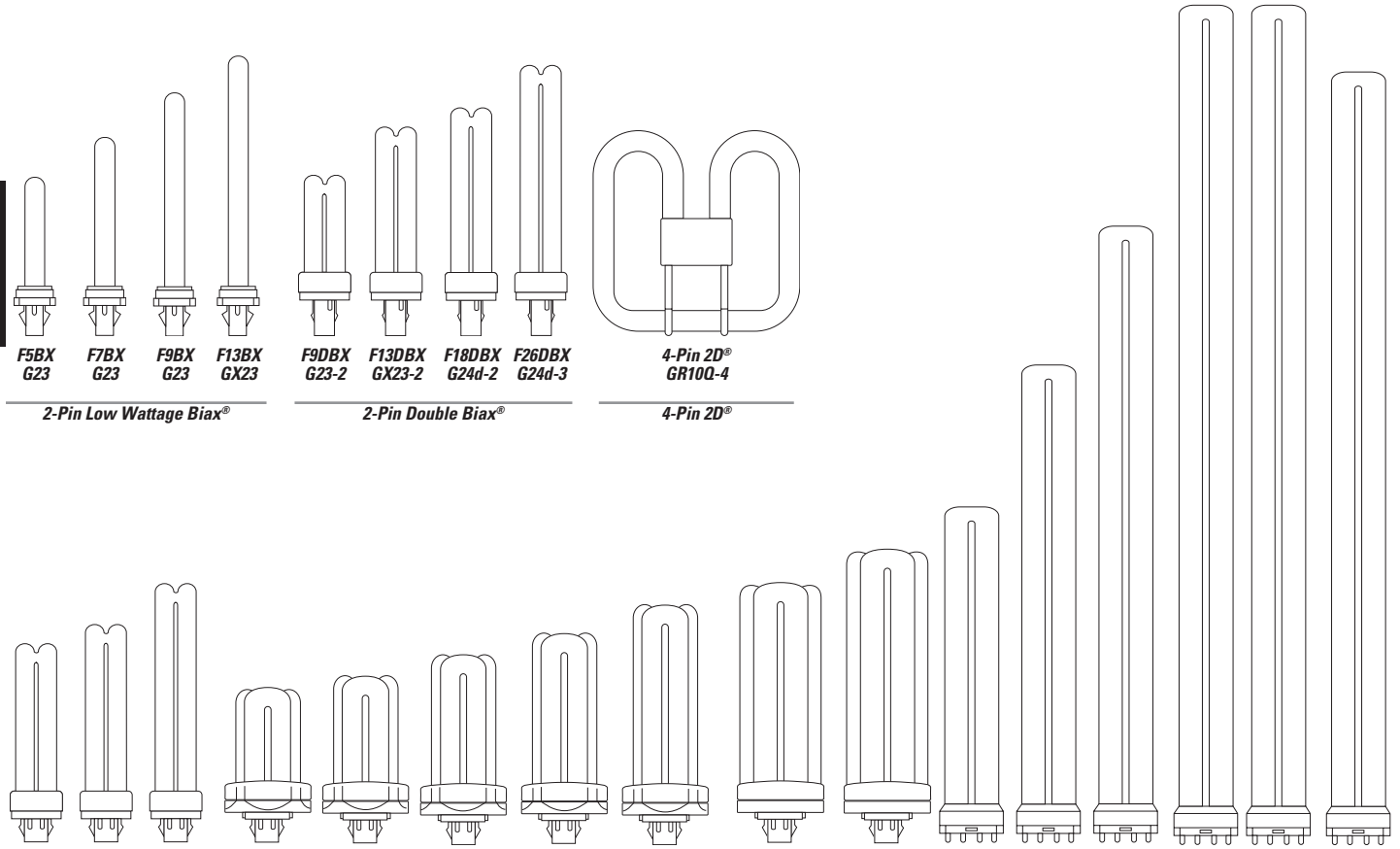


NOMINAL LENGTH:
Overall length including base or pins.

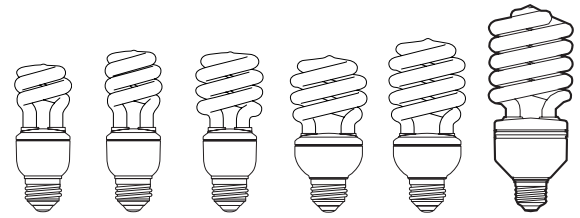
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

LAMP LOCATOR

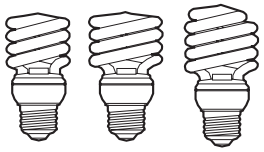


Plug-in Lamps



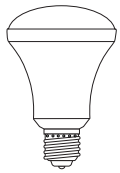
FLE10HT3 Med | FLE13HT3 Med | FLE15HT3 Med | FLE20HT3 Med | FLE26HT3 Med | FLE42HLX Med

Spiral®



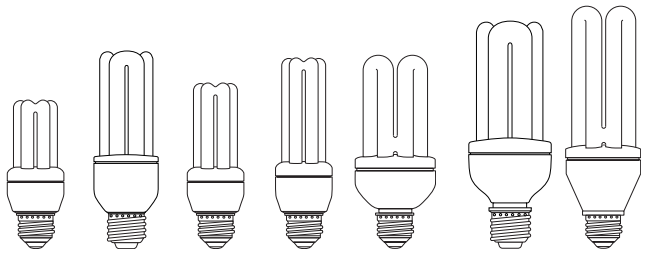
FLE10HT2 Med | FLE13HT2 Med | FLE15HT2 Med

Spiral®



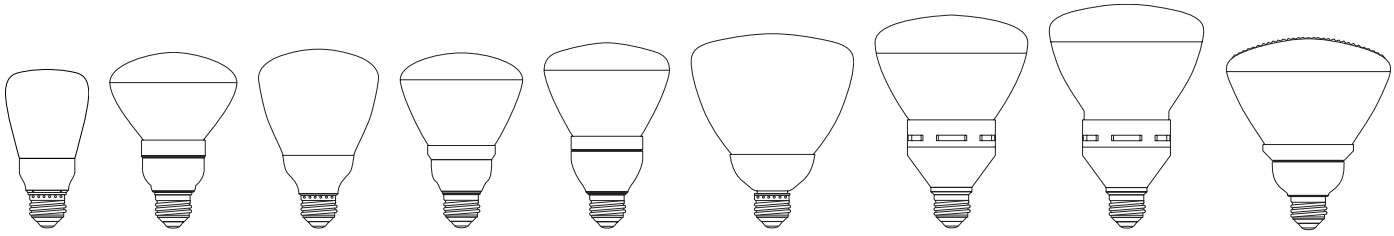
EL23 Med

Genura®



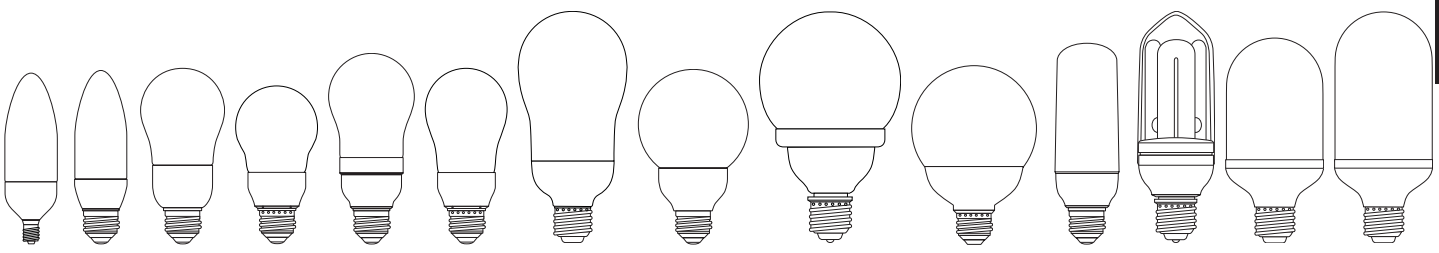
FLE12TT3 Med | FLE14TT3 Med | FLE15TT3 Med | FLE20TT3 Med | FLE24QBX Med | FLE28QBX Med | FLE29QBX Med

Biax®



FLE11/R20 Med | FLE11/R30 Med | FLE15/A2/R30 Med | FLE15/R30 Med | FLE15/R30 Dimming Med | FLE23/A4/R40 Med | FLE26/R40 Med | FLE26/R40 Dimming Med | FLE26/PAR38 Med

Reflectors



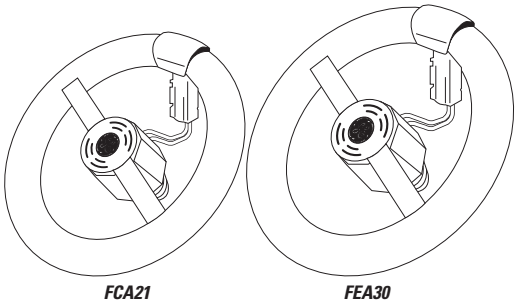
Candle E12 | Candle Med | FLE11/A-Line Med | FLE12/A-Line Med | FLE14/A-Line Med | FLE15/A-Line Med | FLE20/A-Line Med | FLE9/Globe Med | FLE15TBX/Globe Med | FLE15/A3/Globe Med | FLE11/Post Light Med | FLE15/Post Light Med | FLE15TBX/Bullet Med | FLE20TBX/Bullet Med

Decorative Shapes

Self-Ballasted Lamps

FEA 2D Med

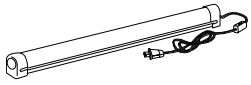
2D®-Electronic



FCA21 Med | FEA30 Med

Circlite®

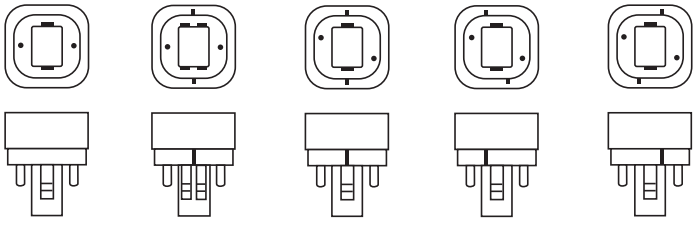
Lamps and Adapters



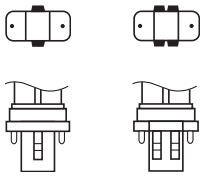
FBS25

Bright Stik®

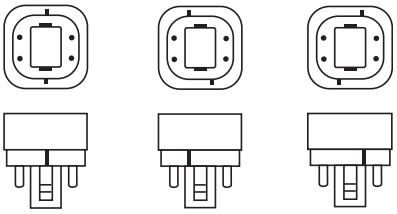
BASE IDENTIFICATION



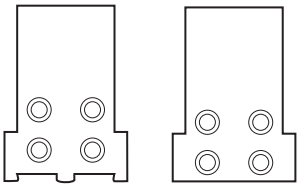
G23-2 (DBX2P) *GX23-2 (DBX2P)* *G24d-1 (DBX2P)* *G24d-2 (DBX2P)* *G24d-3 (DBX2P)*



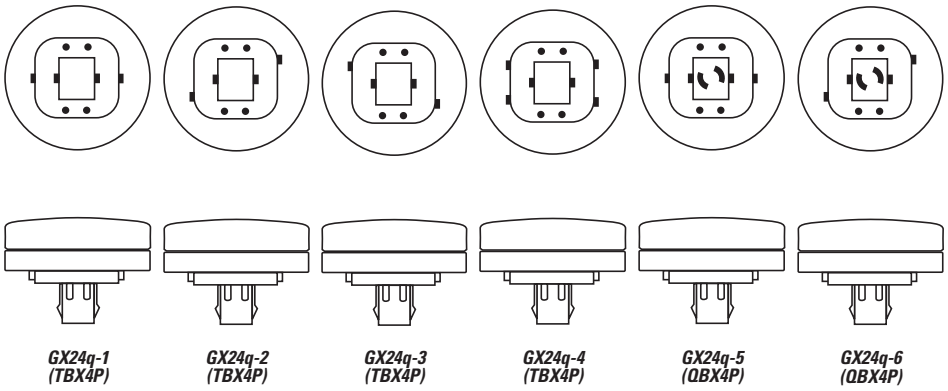
G23 (LWBX) *GX23 (LWBX)*



G24q-1 (DBX4P) *G24q-2 (DBX4P)* *G24q-3 (DBX4P)*



GRY10q-3 (2D4P) *GR10q-4 (2D4P)*



GX24q-1 (TBX4P) *GX24q-2 (TBX4P)* *GX24q-3 (TBX4P)* *GX24q-4 (TBX4P)* *GX24q-5 (QBX4P)* *GX24q-6 (QBX4P)*

2G11-4 (HLBX)

E26 Med Screw

E12 Candelabra

INTRODUCTION

GE Compact Fluorescent Lamps offer many advantages:

- Dramatic energy cost savings... up to 77% vs. incandescent lamps of comparable light output
- Extra long life... most last 8 to 10 times longer, and some last up to 20 times longer, than standard incandescent lamps
- High light output comparable, and in some cases exceeding, incandescent lamps replaced
- Excellent color rendering... rare earth tri-phosphor provides such high quality color you won't believe it's fluorescent. Most types offer a choice of color options, from warm to cool, to let you select the tone and atmosphere you need.
- A choice of wattages, shapes and sizes to meet your lighting needs. Designed to fit everything from table lamps to wall sconces and ceiling fixtures.
- Many lamps use amalgam technology which provides stable lumen performance when operated in any position, over a wider range of ambient temperatures.

COMPACT FLUORESCENT BRAND NAME CROSS-REFERENCE

GE	*OSRAM/SYLVANIA*	*PHILIPS*
2D®	-	-
Biax®	Dulux® S	PL-S
High Lumen Biax®	Dulux® L	PL-L
Double Biax®	Dulux® D, D/E	PL-C
Triple Biax®	Dulux® T/E	PL-T
Quad Biax®	-	-
High Output Biax®	-	PL-H
Spiral®	Dulux® EL Twist	EL Twist
Genura®	Dura-One	-

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturer's performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

PRODUCT INFORMATION

PLUG-IN LAMPS

2-Pin Low Wattage Biax® (pg 5-7)
- Compact size offers fixture and design flexibility
- GX23 and G23 bases are preheat lamps with internal starters
- 13 watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm and cool color temperatures
- TCLP Compliant

4-Pin High Lumen Biax® (pgs 5-7 to 5-8)
- Available in a range of sizes and wattages for innovative compact luminaires
- High efficiency and outstanding performance in fixtures make them ideal for 2X2, 1X1 and indirect fixtures
- Available in warm to cool color temperatures; excellent color rendering

2-Pin Double Biax® (pg 5-8)
- More compact than low wattage Biax® CFLs with higher lumen output - suitable for a broad range of applications
- Preheat lamps with starters; not suitable for use with dimming ballasts
- 26 watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Double Biax® (pg 5-8)
- More compact than low wattage Biax® CFLs with higher lumen output - suitable for a broad range of applications
- Dimmable and compatible with electronic ballasts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Triple Biax® (pgs 5-8 to 5-9)
- GE's shortest, most compact Biax® lamp. 17-31% shorter than similar wattage Double Biax® lamps.
- 4-Pin, dimmable and compatible with electronic ballasts
- Available in a wide range of wattages: from 13 to 42 watts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin High Output Biax® (pg 5-9)
- GE's highest light output compact fluorescent lamps
- High efficacy 72-75 LPW
- Dimmable, available in 5 colors (2,700 to 5,000K)
- Suitable for high-bay lighting
- TCLP Compliant

4-Pin 2D® (pgs 5-9)
- Unique shape suitable for broad range of applications
- Uniform light distribution
- High light output – up to 200W incandescent equivalent

SELF-BALLASTED LAMPS

Spiral® (pgs 5-10 to 5-11)
- Long life – up to 12,000 hours
- One piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T2 & T3 Spiral® CFLs provide economical solution with small overall size
- The 42-watt T4 Spiral® CFLprovides a 150W incandescent replacement in the smallest possible size (fits an 8.5" harp)

Biax® (pg 5-11)
- Super long life – from 10,000 to 15,000 hour rating
- One piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T3 Mini Biax® CFL provides longest life with smallest overall size
- Selected lamps offer 3-way or dimming functionality

Reflectors (pgs 5-11 to 5-12)
- R20, R30 and R40 glass reflectors available to meet application needs
- Medium based; fits most incandescent reflector applications
- R30 and R40 lamps available with dimming functionality

Genura® (pg 5-12)
- Extremely long life – rated life of 15,000 hours
- One piece unit screws directly into incandescent sockets
- Provides more light than 75W incandescent reflector lamps
- Electrodeless design

Decorative Shapes (pgs 5-12 to 5-13)
- Variety of shapes (A-Line, Bullet, Candle, Globe, and Post) and wattages to meet all needs
- One piece unit screws directly into incandescent sockets
- Candle-shaped CFLs available in both medium base and candelabra base

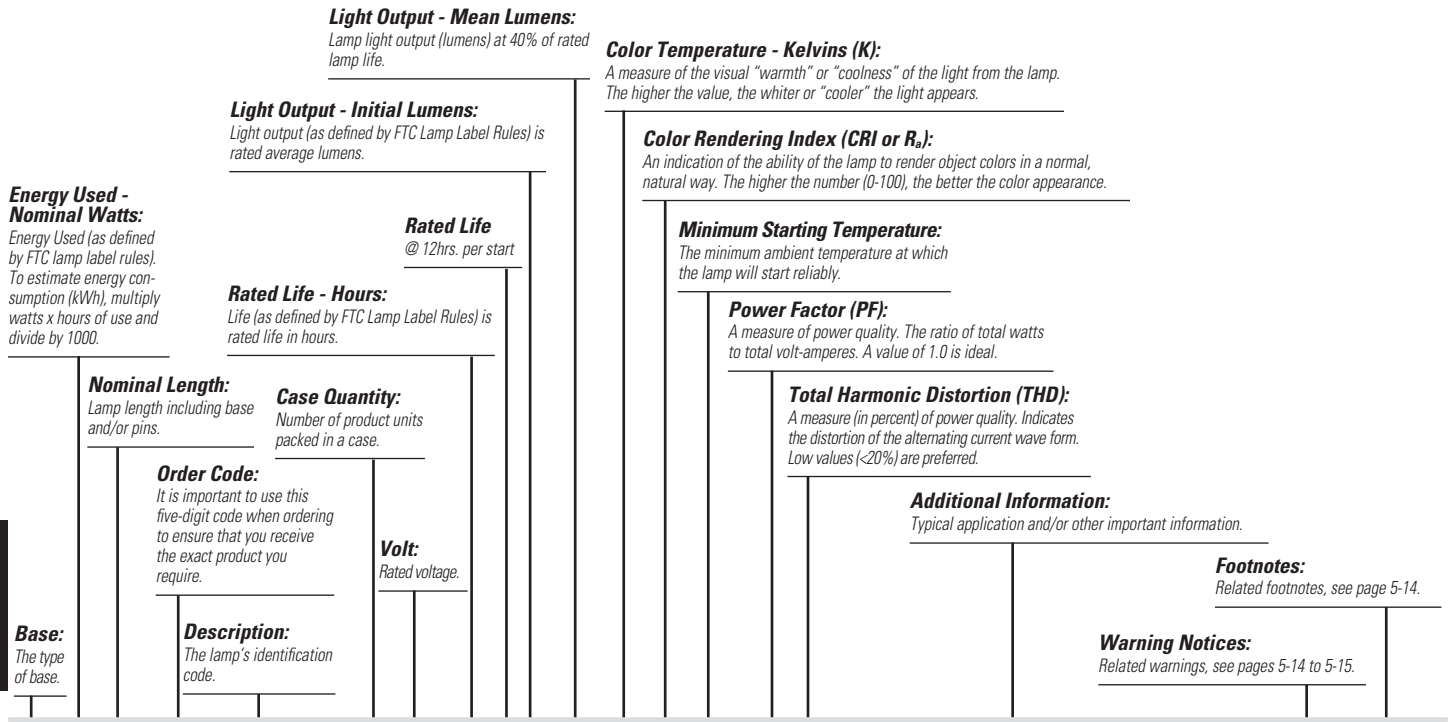
LAMPS AND ADAPTERS

Circlite® (pg 5-13)
- Lamp and adapter are separate. Replaceable lamps plug into adapters that screw into standard incandescent sockets.
- Lamps last 10,000 hours; adapters last 40,000 hours (4 lamp lives)

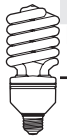
2D®-Electronic (pg 5-13)
- Lamp and adapter are separate. Replaceable lamps plug into adapters that screw into standard incandescent sockets.
- Lamps last 10,000 hours; adapters last 40,000 hours (4 lamp lives)

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Compact Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.



Base	Watts	Nominal Length in.	Order Code	Description	Case Qty	Volt	Rated Life Hours	Lumens Initial	Lumens Mean	Color Temp. K.	CRI	Min. Start Temp. (°F)	Power Factor	THD		Additional Information	Warning Notices	Footnotes
SELF-BALLASTED LAMPS																		
SPIRAL®																		
Med	42	6.4	**16107**	**FLE42HLX/VT/827**	10	120	10000	2650	2275	2700	82	14	0.6	170	✎ ⚡	BASE DOWN OPERATION ONLY, T4 Spiral®, RE 827 Phosphor, Boxed	154	1, 7, 10, 15



FL E 42 HLX / VT / 827

- FL — Identifies as Fluorescent Lamp
- E — Electronically ballasted
- 42 — Identifies wattage
- HLX — Identifies lamp shape
- VT — Identifies additional information (Vented, Table Lamp)
- 827 — Identifies lamp's finish or color

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 5-4.
4. Find your lamp in the table containing the bulb shape, size and base.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnote references found at the end of this section. ⚡ Reduced Wattage ✎ High Color Rendering ✹ TLCP Compliant Plug-Ins ▲ EOL Protection Plug-Ins ★ Energy Star Screw-Ins

Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Volt	Rated Life Hours	Rated Life 12 Hrs.	Lumens Initial	Lumens Mean	Color Temp. K.	CRI	Min. Start Temp. (°F)	Additional Information	Warning Notice	Footnotes
PLUG-IN LAMPS																
2-PIN LOW WATTAGE BIAX® ☞																
G23	5	4.2	97551	F5BX/827/ECO	100		10000		265	220	2700	82			151	1,2
			97552	F5BX/827/CDECO	6		10000		265	220	2700	82		Carded	151	1,2
			97553	F5BX/841/ECO	100		10000		265	220	4100	82			151	1,2
	7	5.3	97554	F7BX/827/ECO	100		10000		425	350	2700	82			151	1,2
			97555	F7BX/827/CDECO	6		10000		425	350	2700	82		Carded	151	1,2
			97556	F7BX/835/ECO	100		10000		425	350	3500	82			151	1,2
			97557	F7BX/841/ECO	100		10000		425	350	4100	82			151	1,2
	9	6.6	97558	F9BX/827/ECO	100		10000		600	500	2700	82			151	1,2
			97559	F9BX/827/CDECO	6		10000		600	500	2700	82		Carded	151	1,2
			97560	F9BX/835/ECO	100		10000		600	500	3500	82			151	1,2
			97561	F9BX/841/ECO	100		10000		600	500	4100	82			151	1,2
GX23	13	7.0	97573	F13BX/827/ECO	100		10000		825	710	2700	82			151	1,2
			97567	F13BX/827/CDECO	6		10000		825	710	2700	82		Carded	151	1,2
			97574	F13BX/830/ECO	100		10000		825	710	3000	82			151	1,2
			97569	F13BX/835/ECO	100		10000		825	710	3500	82			151	1,2
			97568	F13BX/835 100P	100		10000		825	710	3500	82		Bulk Pack	151	1,2
			97571	F13BX/841/ECO	100		10000		825	710	4100	82			151	1,2
			97570	F13BX/841 100P	100		10000		825	710	4100	82		Bulk Pack	151	1,2
			97572	F13BX/850/ECO	100		10000		785	675	5000	80			151	1,2
			97562	F13BX/E/827/ECO	100		10000		825	710	2700	82		Internal Electronic Starter	151	1,2
			97563	F13BX/E/830/ECO	100		10000		825	710	3000	82		Internal Electronic Starter	151	1,2
			97564	F13BX/E/835/ECO	100		10000		825	710	3500	82		Internal Electronic Starter	151	1,2
			97565	F13BX/E/841/ECO	100		10000		825	710	4100	82		Internal Electronic Starter	151	1,2
			97566	F13BX/E/850/ECO	100		10000		785	675	5000	80		Internal Electronic Starter	151	1,2
4-PIN HIGH LUMEN BIAX®																
2G11	18	9.0	16649	F18BX/SPX30 10PK	40		10000		1200	1080	3000	82	-4		151	1,2,4,6
			16053	F18BX/SPX35 10PK	40		10000		1200	1080	3500	82	-4		151	1,2,4,6
			16940	F18BX/SPX41 10PK	40		10000		1200	1080	4100	82	-4		151	1,2,4,6
		10.5	17174	F18BX/SPX30/RS	40		20000		1250	1130	3000	82	10		151	1,2,6,13
			17175	F18BX/SPX35/RS	40		20000		1250	1130	3500	82	10		151	1,2,6,13
			17176	F18BX/SPX41/RS	40		20000		1250	1130	4100	82	10		151	1,2,6,13
			12521	F18BX/SPX65/RS	40		20000		1160	1050	6500	82	10		151	1,2,6,13
	27	12.8	16944	F27BX/SPX30/RS	40		12000		1800	1620	3000	82	10		151	1,2,6,13
			16948	F27BX/SPX35/RS	40		12000		1800	1620	3500	82	10		151	1,2,6,13
			16951	F27BX/SPX41/RS	40		12000		1800	1620	4100	82	10		151	1,2,6,13
	39	16.5	16538	F39BX/SPX30/RS	40		12000		2850	2510	3000	82	10		151	1,2,6,13
			15867	F39BX/SPX35/RS	40		12000		2850	2510	3500	82	10		151	1,2,6,13
			16952	F39BX/SPX41/RS	40		12000		2850	2510	4100	82	10		151	1,2,6,13
	40	22.5	16953	F40/30BX/SPX30	40		20000		3150	2840	3000	82	10		151	1,2,6,13
			20444	F40/30BX/SPX30-36	36		20000		3150	2840	3000	82	10	Bulk Pack	151	1,2,6,13
			16648	F40/30BX/SPX35	40		20000		3150	2840	3500	82	10		151	1,2,6,13
			20446	F40/30BX/SPX35-36	36		20000		3150	2840	3500	82	10	Bulk Pack	151	1,2,6,13
			16954	F40/30BX/SPX41	40		20000		3150	2840	4100	82	10		151	1,2,6,13
			20447	F40/30BX/SPX41-36	36		20000		3150	2840	4100	82	10	Bulk Pack	151	1,2,6,13
			10490	F40/30BX/SPX50RS	36		20000		2900	2700	5000	80	10	Bulk Pack	151	1,2,6,13
	50	22.5	20898	F50BX/SPX30/RS	40		14000		4000	3400	3000	82	10		151	1,2,6,13
			20899	F50BX/SPX35/RS	40		14000		4000	3400	3500	82	10		151	1,2,6,13
			20900	F50BX/SPX41/RS	40		14000		4000	3400	4100	82	10		151	1,2,6,13
	55	20.7	31951	F55BX/830	25		10000		4800	4080	3000	82	10		151	1,2,6,13
			31952	F55BX/835	25		10000		4800	4080	3500	82	10		151	1,2,6,13
			31953	F55BX/840	25		10000		4800	4080	4100	82	10		151	1,2,6,13

Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Volt	Rated Life Hours	Rated Life 12 Hrs.	Lumens Initial	Lumens Mean	Color Temp. K.	CRI	Min. Start Temp. (°F)	Additional Information	Warning Notice	Footnotes
PLUG-IN LAMPS (CONTINUED)																
4-PIN HIGH LUMEN BIAX® (CONTINUED)																
2G11	55	20.7	**45851**	**F55BX/AR/FS 6PK**	6		10000		4800	4080	9325	67	10	Fresh and Salt Water Phosphor	151	1,2,6,13
			45859	**F55BX/AR/FS/BULK**	25		10000		4800	4080	9325	67	10	Fresh and Salt Water Phosphor	151	1,2,6,13
2-PIN DOUBLE BIAX® ☞																
G23-2	9	4.3	**97576**	**F9DBX23/827/ECO**	50		10000		550	470	2700	82			151	1,2,17
			97575	**F9DBX23/841/ECO**	50		10000		550	470	4100	82			151	1,2,17
GX23-2	13	4.7	**97586**	**F13DBX23/827/ECO**	50		10000		810	685	2700	82			151	1,2,17
			97585	**F13DBX/827/CD**	6		10000		810	685	2700	82		Carded	151	1,2,17
			97587	**F13DBX23/830/ECO**	50		10000		810	685	3000	82			151	1,2,17
			97588	**F13DBX23/835/ECO**	50		10000		810	685	3500	82			151	1,2,17
			97589	**F13DBX23/841/ECO**	50		10000		810	685	4100	82			151	1,2,17
G24d-1	13	5.3	**97590**	**F13DBX/827/ECO**	50		10000		900	755	2700	82			151	1,2,17
			97591	**F13DBX/830/ECO**	50		10000		900	755	3000	82			151	1,2,17
			97592	**F13DBX/835/ECO**	50		10000		900	755	3500	82			151	1,2,17
			97593	**F13DBX/841/ECO**	50		10000		900	755	4100	82			151	1,2,17
G24d-2	18	6.1	**97577**	**F18DBX/827/ECO**	50		10000		1200	980	2700	82			151	1,2,5,17
			97578	**F18DBX/830/ECO**	50		10000		1200	980	3000	82			151	1,2,5,17
			97579	**F18DBX/835/ECO**	50		10000		1200	980	3500	82			151	1,2,5,17
			97580	**F18DBX/841/ECO**	50		10000		1200	980	4100	82			151	1,2,5,17
G24d-3	26	6.7	**97606**	**F26DBX/827/ECO**	50		10000		1710	1460	2700	82			151	1,2,17
			97607	**F26DBX/830/ECO**	50		10000		1710	1460	3000	82			151	1,2,17
			97608	**F26DBX/835/ECO**	50		10000		1710	1460	3500	82			151	1,2,17
			97609	**F26DBX/841/ECO**	50		10000		1710	1460	4100	82			151	1,2,17
			97602	**F26DBX/E/827/ECO**	50		10000		1710	1460	2700	82		Internal Electronic Starter	151	1,2,15,17
			97603	**F26DBX/E/830/ECO**	50		10000		1710	1460	3000	82		Internal Electronic Starter	151	1,2,15,17
			97604	**F26DBX/E/835/ECO**	50		10000		1710	1460	3500	82		Internal Electronic Starter	151	1,2,15,17
			97605	**F26DBX/E/841/ECO**	50		10000		1710	1460	4100	82		Internal Electronic Starter	151	1,2,15,17
4-PIN DOUBLE BIAX® ☞																
G24q-1	13	5.0	**97594**	**F13DBX/827/ECO4P**	50		12000	20000	900	755	2700	82		▲	151	1,2,6,17
			97595	**F13DBX/830/ECO4P**	50		12000	20000	900	755	3000	82		▲	151	1,2,6,17
			97596	**F13DBX/835/ECO4P**	50		12000	20000	900	755	3500	82		▲	151	1,2,6,17
			97597	**F13DBX/841/ECO4P**	50		12000	20000	900	755	4100	82		▲	151	1,2,6,17
G24q-2	18	5.8	**97598**	**F18DBX/827/ECO4P**	50		12000	20000	1200	970	2700	82		▲	151	1,2,5,6,17
			97599	**F18DBX/830/ECO4P**	50		12000	20000	1200	970	3000	82		▲	151	1,2,5,6,17
			97600	**F18DBX/835/ECO4P**	50		12000	20000	1200	970	3500	82		▲	151	1,2,5,6,17
			97601	**F18DBX/841/ECO4P**	50		12000	20000	1200	970	4100	82		▲	151	1,2,5,6,17
G24q-3	26	6.4	**97610**	**F26DBX/827/ECO4P**	50		12000	20000	1710	1440	2700	82		▲	151	1,2,6,17
			97611	**F26DBX/830/ECO4P**	50		12000	20000	1710	1440	3000	82		▲	151	1,2,6,17
			97612	**F26DBX/835/ECO4P**	50		12000	20000	1710	1440	3500	82		▲	151	1,2,6,17
			97613	**F26DBX/841/ECO4P**	50		12000	20000	1710	1440	4100	82		▲	151	1,2,6,17
4-PIN TRIPLE BIAX® ☞																
GX24q-1	13	4.2	**97623**	**F13TBX827/4P/ECO**	10		12000	20000	900	755	2700	82		▲ Non-Amalgam	151	1,2,6,17
			97619	**F13TBX/827/A/ECO**	10		12000	20000	900	755	2700	82		▲	151	1,2,6,12,17
			97620	**F13TBX/830/A/ECO**	10		12000	20000	900	755	3000	82		▲	151	1,2,6,12,17
			97621	**F13TBX/835/A/ECO**	10		12000	20000	900	755	3500	82		▲	151	1,2,6,12,17
			97622	**F13TBX/841/A/ECO**	10		12000	20000	900	755	4100	82		▲	151	1,2,6,12,17
GX24q-2	18	4.8	**97628**	**F18TBX827/4P/ECO**	10		12000	20000	1200	1010	2700	82		▲ Non-Amalgam	151	1,2,6,12,17
			97624	**F18TBX/827/A/ECO**	10		12000	20000	1200	1010	2700	82		▲	151	1,2,6,12,17
		4.8	**97625**	**F18TBX/830/A/ECO**	10		12000	20000	1200	1010	3000	82		▲	151	1,2,6,12,17
		4.8	**97626**	**F18TBX/835/A/ECO**	10		12000	20000	1200	1010	3500	82		▲	151	1,2,6,12,17

☞ **New Product Codes. (These product codes will be available September 2006. Until that time, use order code found on page 5-18).**

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All footnote references found at the end of this section. Reduced Wattage ✎ High Color Rendering ✸ TLCP Compliant Plug-Ins ▲ EOL Protection Plug-Ins ★ Energy Star Screw-Ins

Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Volt	Rated Life Hours	Rated Life 12 Hrs.	Lumens Initial	Lumens Mean	Color Temp. K.	CRI	Min. Start Temp. (°F)	Additional Information	Warning Notice	Footnotes
PLUG-IN LAMPS (CONTINUED)																
4-PIN TRIPLE BIAX® (CONTINUED) ☞																
GX24q-2	18	4.8	**97627**	**F18TBX/841/A/ECO**	10		12000	20000	1200	1020	4100	82			151	1,2,6,12,17
GX24q-3	26	5.2	**97618**	**F26TBX827/4P/ECO**	10		12000	20000	1710	1440	2700	82		Non-Amalgam	151	1,2,6,17
			97614	**F26TBX/827/A/ECO**	10		12000	20000	1710	1440	2700	82			151	1,2,6,12,17
			97615	**F26TBX/830/A/ECO**	10		12000	20000	1710	1440	3000	82			151	1,2,6,12,17
			97616	**F26TBX/835/A/ECO**	10		12000	20000	1710	1440	3500	82			151	1,2,6,12,17
			97617	**F26TBX/841/A/ECO**	10		12000	20000	1710	1440	4100	82			151	1,2,6,12,17
GX24-q3	32	5.5	**97629**	**F32TBX/827/A/ECO**	10		12000	20000	2200	1850	2700	82			151	1,2,6,12,17
			97630	**F32TBX/830/A/ECO**	10		12000	20000	2200	1850	3000	82			151	1,2,6,12,17
			97631	**F32TBX/835/A/ECO**	10		12000	20000	2200	1850	3500	82			151	1,2,6,12,17
			97632	**F32TBX/841/A/ECO**	10		12000	20000	2200	1850	4100	82			151	1,2,6,12,17
GX24-q4	42	6.4	**97633**	**F42TBX/827/A/ECO**	10		12000	20000	3200	2690	2700	82			151	1,2,6,12,17
			97634	**F42TBX/830/A/ECO**	10		12000	20000	3200	2690	3000	82			151	1,2,6,12,17
			97635	**F42TBX/835/A/ECO**	10		12000	20000	3200	2690	3500	82			151	1,2,6,12,17
			97636	**F42TBX/841/A/ECO**	10		12000	20000	3200	2690	4100	82			151	1,2,6,12,17
4-PIN HIGH OUTPUT BIAX® ☞																
GX24q-5	57	7.1	**48861**	**F57QBX/827/A/ECO**	10		12000	20000	4300	3700	2700	82			151	1,2,6,12,17
			48862	**F57QBX/830/A/ECO**	10		12000	20000	4300	3700	3000	82			151	1,2,6,12,17
			48863	**F57QBX/835/A/ECO**	10		12000	20000	4300	3700	3500	82			151	1,2,6,12,17
			48864	**F57QBX/841/A/ECO**	10		12000	20000	4300	3700	4100	82			151	1,2,6,12,17
			93404	**F57QBX/850/A/ECO**	10		12000	20000	4300	3700	5000	82			151	1,2,6,12,17
GX24q-6	70	8.2	**48865**	**F70QBX/827/A/ECO**	10		12000	20000	5200	4470	2700	82			151	1,2,6,12,17
			48866	**F70QBX/830/A/ECO**	10		12000	20000	5200	4470	3000	82			151	1,2,6,12,17
			48867	**F70QBX/835/A/ECO**	10		12000	20000	5200	4470	3500	82			151	1,2,6,12,17
			48868	**F70QBX/841/A/ECO**	10		12000	20000	5200	4470	4100	82			151	1,2,6,12,17
			93406	**F70QBX/850/A/ECO**	10		12000	20000	5200	4470	5000	82			151	1,2,6,12,17
4-PIN 2D®																
GR10q-4	10	3.6	**21301**	**F102D/827/4P**	60		10000		650	545	2700	82			151	1,2,3,6
	16	5.5	**22169**	**F162D/827/4P**	50		10000		1050	880	2700	82			151	1,2,3,6
			22177	**F162D/835/4P**	50		10000		1050	880	3500	82			151	1,2,3,6
	21	5.5	**21303**	**F212D/827/4P**	50		10000		1350	1135	2700	82			151	1,2,3,6
			22178	**F212D/835/4P**	50		10000		1350	1135	3500	82			151	1,2,3,6
	28	8.1	**22172**	**F282D/827/4P**	20		10000		2050	1720	2700	82			151	1,2,3,6
			22180	**F282D/835/4P**	20		10000		2050	1720	3500	82			151	1,2,3,6
	38	8.1	**21305**	**F382D/827/4P**	20		10000		2850	2395	2700	82			151	1,2,3,6
			25427	**F38/2D/827/4P/CD**	5		10000		2850	2395	2700	82		Carded	151	1,2,3,6
			22181	**F382D/835/4P**	20		10000		2850	2395	3500	82			151	1,2,3,6
GRY10q-3	55	8.1	**37525**	**F552D/827/A/4P/B**	48		10000		3900	3300	2700	82		Bulk Pack	151	1,2,3,6
			36358	**F552D/830A/T4P/B**	20		10000		4000	3400	3000	82		Torchiere Replacement Lamp	151	1,2,3,6
			40184	**F552D/830/4P/CD**	5		10000		4000	3400	3000	82		Torchiere Replacement Lamp, Carded	151	1,2,3,6
			37529	**F552D/835/A/4P/B**	48		10000		3900	3300	3500	82		Bulk Pack	151	1,2,3,6

☞ **New Product Codes. (These product codes will be available September 2006. Until that time, use order code found on page 5-18).**

Base	Watts	Nominal Length in.	Order Code	Description	Case Qty	Volt	Rated Life Hours	Lumens Initial	Lumens Mean	Color Temp. K.	CRI	Min. Start Temp. (°F)	Power Factor	THD		Additional Information	Warning Notices	Footnotes
SELF-BALLASTED LAMPS																		
SPIRAL®																		
Med	10	4.4	**15829**	**FLE10HT3/2/827**	10	120	8000	520	420	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			49906	**FLE10HLX/2/SW/CD**	12	120	8000	520	420	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			49907	**FLE10HLX/2/SW/CD/2PK**	3	120	8000	520	420	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			25182	**FLE10HT3/2/841**	10	120	8000	520	420	4100	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			85393	**FLE10HT3/2/D/2PK**	3	120	8000	500	400	6500	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			80936	**FLE10HT3/2/XL**	10	120	12000	550	440	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			47430	**FLE10HT3/2/XL/CD**	12	120	12000	550	440	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			49671	**FLE10HT3/2/XL2PK**	3	120	12000	550	440	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	10		**86241**	**FLE10HT2/2/827**	10	120	12000	580	464	2700	82	5	0.6	120	✎ ⇝ ★	T2 Spiral®, Boxed	153	1,7,8,9,10
			85382	**FLE10HT2/2/SW/CD**	12	120	12000	580	464	2700	82	5	0.6	120	✎ ⇝ ★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
			85389	**FLE10HT2/2/SW2PK**	3	120	12000	580	464	2700	82	5	0.6	120	✎ ⇝ ★	T2 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	13	4.7	**16460**	**FLE13HT3/2/SW/CD**	12	120	8000	825	660	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			16459	**FLE13HT3/2/SW/CD/2PK**	3	120	8000	825	660	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			21760	**FLE13HT3/2/10PK**	10	120	8000	825	660	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Consumer 10 Pack	153	1,7,8,9,10
	13		**86256**	**FLE13HT2/2/827**	10	120	8000	870	715	2700	82	5	0.6	120	✎ ⇝ ★	T2 Spiral®, Boxed	153	1,7,8,9,10
			85383	**FLE13HT2/2/SW/CD**	12	120	8000	870	715	2700	82	5	0.6	120	✎ ⇝ ★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
			85390	**FLE13HT2/2/SW2PK**	3	120	8000	870	715	2700	82	5	0.6	120	✎ ⇝ ★	T2 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	15	4.8	**15831**	**FLE15HT3/2/827**	10	120	8000	950	765	2700	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			41520	**FLE15HT3/2/SW/CD**	12	120	8000	950	765	2700	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			41525	**FLE15HT3/2/SW/2PK**	3	120	8000	950	765	2700	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			00261	**FLE15HT3/2/SW/3PK**	3	120	8000	950	765	2700	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Carded 3 Pack	153	1,7,8,9,10
			16252	**FLE15HT3/2/6H/4PK**	3	120	6000	850	685	2700	82	5	0.6	145	✎ ⇝ ★	6000 Hr Life, T3 Spiral®, Boxed Consumer 4 Pack	153	1,7,8,9,10
			25183	**FLE15HT3/2/841**	10	120	8000	950	765	4100	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			85394	**FLE15HT3/2/D/2PK**	3	120	8000	900	738	6500	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			80937	**FLE15HT3/2/XL**	10	120	12000	950	760	2700	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			47435	**FLE15HT3/2/XL/CD**	12	120	12000	950	760	2700	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			49680	**FLE15HT3/2/XL2PK**	3	120	12000	950	760	2700	82	5	0.6	145	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	15		**86271**	**FLE15HT2/2/827**	10	120	12000	950	780	2700	82	5	0.6	145	✎ ⇝ ★	T2 Spiral®, Boxed	153	1,7,8,9,10
			85385	**FLE15HT2/2/SW/CD**	12	120	12000	950	780	2700	82	5	0.6	145	✎ ⇝ ★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
			85391	**FLE15HT2/2/SW2PK**	3	120	12000	950	780	2700	82	5	0.6	145	✎ ⇝ ★	T2 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	20	4.7	**15834**	**FLE20HT3/2/827**	10	120	8000	1200	965	2700	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			15516	**FLE20HT3/2/SW/CD**	12	120	8000	1200	965	2700	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			15518	**FLE20HT3/2/SW/2PK**	3	120	8000	1200	965	2700	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			16253	**FLE20HT3/2/6H/4PK**	3	120	6000	1150	925	2700	82	5	0.6	135	✎ ⇝ ★	6000 Hr Life, T3 Spiral®, Boxed Consumer 4 Pack	153	1,7,8,9,10
			25186	**FLE20HT3/2/841**	10	120	8000	1200	965	4100	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,103
			85396	**FLE20HT3/2/D/2PK**	3	120	8000	1150	945	6500	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			80888	**FLE20HT3/2/XL**	10	120	12000	1300	1040	2700	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			47442	**FLE20HT3/2/XL/CD**	12	120	12000	1300	1040	2700	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			49684	**FLE20HT3/2/XL2PK**	3	120	12000	1300	1040	2700	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			47466	**FLE20HT3/2/XL/D**	12	120	12000	1300	1040	6500	82	5	0.6	135	✎ ⇝ ★	T3 Spiral®, Carded Single Pack, Daylight	153	1,7,8,9,10
	23	5.1	**80889**	**FLE23HT3/2/XL**	10	120	12000	1600	1280	2700	82	5	0.6		✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			47445	**FLE23HT3/2/XL/CD**	12	120	12000	1600	1280	2700	82	5	0.6		✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			15836	**FLE26HT3/2/827**	10	120	8000	1750	1400	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			15517	**FLE26HT3/2/SW/CD**	12	120	8000	1750	1400	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			15519	**FLE26HT3/2/SW/2PK**	3	120	8000	1750	1400	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10

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Base	Watts	Nominal Length in.	Order Code	Description	Case Qty	Volt	Rated Life Hours	Lumens Initial	Lumens Mean	Color Temp. K.	CRI	Min. Start Temp. (°F)	Power Factor	THD		Additional Information	Warning Notices	Footnotes
SELF-BALLASTED LAMPS (CONTINUED)																		
SPIRAL® (CONTINUED)																		
Med	26	5.2	**00262**	**FLE26HT3/2/SW/3PK**	3	120	8000	1750	1400	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded 3 Pack	153	1,7,8,9,10
			16254	**FLE26HT3/2/6H/4PK**	3	120	6000	1750	1400	2700	82	5	0.6	120	✎ ⇝ ★	6000 Hr Life, T3 Spiral®, Boxed Consumer 4 Pack	153	1,7,8,9,10
			21845	**FLE26HT3/2/10PK**	10	120	8000	1700	1365	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Consumer 10 Pack	153	1,7,8,9,10
			25195	**FLE26HT3/2/841**	10	120	8000	1750	1400	4100	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			85397	**FLE26HT3/2/D/2PK**	3	120	8000	1600	1315	6500	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
			80890	**FLE26HT3/2/XL**	10	120	12000	1700	1360	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Boxed	153	1,7,8,9,10
			47446	**FLE26HT3/2/XL/CD**	12	120	12000	1700	1360	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
			49685	**FLE26HT3/2/XL2PK**	3	120	12000	1700	1360	2700	82	5	0.6	120	✎ ⇝ ★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	29	6.3	**81514**	**FLE29HLX/2/XL/827**	10	120	12000	2200	1760	2700	82	5	0.6		✎ ⇝ ★	T4 Spiral®, Boxed	153	1,7,8,9,10
			47459	**FLE29HLX/2/XL/CD**	12	120	12000	2200	1760	2700	82	5	0.6		✎ ⇝ ★	T4 Spiral®, Carded Single Pack	153	1,7,8,9,10
			81515	**FLE29HLX/2D3/827**	10	120	10000	600 1600 2200	480 1280 1760	2700	82	5	0.6		✎ ⇝ ★	T4 Spiral®, Boxed, 3-way	155	1,7,8,9,10
			47448	**FLE29HLX/2/D3/CD**	12	120	10000	600 1600 2200	480 1280 1760	2700	82	5	0.6		✎ ⇝ ★	T3 Spiral®, Carded Single Pack, 3-way	155	1,7,8,9,10
	42	6.4	**80891**	**FLE42HLX/2/XL**	10	120	12000	2700	2160	2700	82	5	0.6	170	✎ ⇝ ★	T4 Spiral®, Boxed	153	1,7,8,9,10
			47452	**FLE42HLX/2/XL/CD**	12	120	12000	2700	2160	2700	82	5	0.6	170	✎ ⇝ ★	T4 Spiral®, Carded Single Pack	153	1,7,8,9,10
			16107	**FLE42HLX/VT/827**	10	120	10000	2650	2275	2700	82	14	0.6	170	✎ ⇝ ★	BASE DOWN OPERATION ONLY, T4 Spiral®, Boxed	154	1,7,10,15
BIAX®																		
Med	12	4.4	**20702**	**FLE12TT3/827**	10	120	15000	600	480	2700	82	5	0.6	120	✎ ⇝ ★	T3 Triple Biax®, Boxed	153	1,7,8,9,10,12
	14	5.9	**49884**	**FLE14TBX/2/SW/CD**	12	120	8000	850	685	2700	82	5	0.6	120	✎ ⇝ ★	Triple Biax®, Carded Single Pack	153	1,7,8,9,10
	15	4.9	**12004**	**FLE15TT3/827**	10	120	15000	900	720	2700	82	5	0.6	145	✎ ⇝	T3 Triple Biax®, Boxed	153	1,7,8,9,10,12
			12005	**FLE15TT3/SW/CD**	3	120	15000	900	720	2700	82	5	0.6	145	✎ ⇝	T3 Triple Biax®, Carded Single Pack	153	1,7,8,9,10,12
	20	5.5	**12008**	**FLE20TT3/827**	10	120	15000	1200	960	2700	82	5	0.6	130	✎ ⇝ ★	T3 Triple Biax®, Boxed	153	1,7,8,9,10,12
			12009	**FLE20TT3/SW/CD**	3	120	15000	1200	960	2700	82	5	0.6	130	✎ ⇝ ★	T3 Triple Biax®, Carded Single Pack	153	1,7,8,9,10,12
		6.9	**49885**	**FLE20TBX/2/SW/CD**	12	120	8000	1200	965	2700	82	5	0.6	120	✎ ⇝ ★	Triple Biax®, Carded Single Pack	153	1,7,8,9,10
	24	5.6	**23669**	**FLE24QBX/A/827**	6	120	12000	1520	1290	2700	82	-9	0.6	170	✎ ⇝ ★	New Quad Biax® design, even shorter MOL, boxed	153	1,7,8,9,10,12
	27	6.9	**49887**	**FLE27QBX/2/SW/CD**	12	120	6000	1700	1365	2700	82	5	0.6	130	✎ ⇝ ★	Quad Biax®, Carded Single Pack	153	1,7,8,9,10
	28	5.9	**40351**	**FLE28QBX/LL/CD**	3	120	12000	1750	1485	2700	82	-9	0.6	170	✎ ⇝	Soft White, Quad Biax®, Carded, Standard Shell Ballast	153	1,7,8,9,10,12
			46270	**FLE28QBX/A/827**	6	120	12000	1750	1485	2700	82	-9	0.6	170	✎ ⇝	Shorter MOL	153	1,7,8,9,10,12
	29	6.3	**41457**	**FLE29QBX/DV/827**	6	120	10000	1750	1500	2700	82	-9	0.6	170	✎ ⇝	Dimming, Standard Shell Ballast	156	1,7,8,9,12,14
			45599	**FLE29QBX/DV/827/CD**	3	120	10000	1750	1500	2700	82	-9	0.6	170	✎ ⇝	Dimming, Carded, Standard Shell Ballast	156	1,7,8,9,12,14
REFLECTORS																		
Med	11	4.7	**20704**	**FLE11/R20**	10	120	10000	370	296	2700	82	5	0.6	120	✎ ⇝	Soft White, R20 Glass Reflector	157	1,8,9,10,12
			80892	**FLE11/2/R20XL**	10	120	10000	400	320	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, R20 Glass Reflector, Boxed	157	1,8,9,10,12
			47477	**FLE11/2/R20XL/CD**	12	120	10000	400	320	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, R20 Glass Reflector, Carded Single Pack	157	1,8,9,10,12
	15	5.5	**49917**	**FLE15/A2/R30**	6	120	10000	550	445	2700	82	-22	0.6	170	✎ ⇝	Soft White, R30 Glass Reflector	157	1,8,9,10,12
		5.4	**20708**	**FLE15/2/R30/SWCD**	3	120	8000	720	580	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, R30 Glass Reflector, Carded Single Pack	158	1,8,9,10,12
		5.5	**80893**	**FLE15/2/R30XL**	10	120	10000	750	600	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, R30 Glass Reflector, Boxed	157	1,8,9,10,12
			47478	**FLE15/2/R30XL/CD**	12	120	10000	750	600	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, R30 Glass Reflector, Carded Single Pack	157	1,8,9,10,12
		5.6	**21709**	**FLE15/2/DV/R30**	6	120	6000	720	580	2700	82	5	0.6	110	✎ ⇝ ★	Dimming, Soft White, R30 Glass Reflector, Boxed	165	1,8,9,12,14

Base	Nominal Watts	Length in.	Order Code	Description	Case Qty	Volt	Rated Life Hours	Lumens Initial	Lumens Mean	Color Temp. K.	CRI	Min. Start Temp. (°F)	Power Factor	THD		Additional Information	Warning Notices	Footnotes
SELF-BALLASTED LAMPS (CONTINUED)																		
REFLECTORS (CONTINUED)																		
Med	15	5.6	**21710**	**FLE15/2/DV/R30/SW/CD**	3	120	6000	720	580	2700	82	5	0.6	110	✎ ⇝ ★	Dimming, Soft White, R30 Glass Reflector, Carded Single Pack	165	1,8,9,12,14
Med	23	5.9	**15382**	**FLE23/A4/R40**	6	120	10000	950	760	2700	82	-13	0.6	170	✎ ⇝ ★	Soft White, R40 Glass Reflector	157	1,8,9,10,12
	26	6.5	**21738**	**FLE26/2/R40/SW/CD**	3	120	6000	1300	1040	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, R40 Glass Reflector, Carded Single Pack	158	1,8,9,10,12
			80894	**FLE26/2/R40XL**	6	120	10000	1300	1040	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, R40 Glass Reflector, Boxed	157	1,8,9,10,12
			47479	**FLE26/2/R40XL/CD**	3	120	10000	1300	1040	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, R40 Glass Reflector, Carded Single Pack	157	1,8,9,10,12
		6.9	**21716**	**FLE26/2/DV/R40**	6	120	6000	1300	1040	2700	82	5	0.6	110	✎ ⇝ ★	Dimming, Soft White, R40 Glass Reflector, Boxed	165	1,8,9,12,14
			21718	**FLE26/2/DV/R40/SW/CD**	3	120	6000	1300	1040	2700	82	5	0.6	110	✎ ⇝ ★	Dimming, Soft White, R40 Glass Reflector, Carded Single Pack	165	1,8,9,12,14
		5.5	**21739**	**FLE26/2/PAR38/SW/CD**	3	120	6000	1200	970	2700	82	5	0.6	120	✎ ⇝ ★	Soft White, Par 38 Glass Reflector, Carded Single Pack		1,8,9,12,16
		5.6	**80895**	**FLE26/2/PAR38/XL**	6	120	10000	1300	1040	2700	82	5	0.6		✎ ⇝ ★	Soft White, Par 38 Glass Reflector, Boxed, Wet rated	166	1,8,9,12,16
			47483	**FLE26/2/PAR38/XL**	3	120	10000	1300	1040	2700	82	5	0.6		✎ ⇝ ★	Soft White, Par 38 Glass Reflector, Carded Single Pack, Wet rated	166	1,8,9,12,16
GENURA®																		
Med	23	4.9	**25418**	**EL23/R25/SW**	6	120	15000	1100	880	2700	82	32	0.6	130	✎ ⇝	Genura® Electrodeless Design, Soft White	160	1,8,9,10
			12273	**EL23/R25/WW**	6	120	15000	1100	880	3000	82	32	0.6	130	✎ ⇝	Genura® Electrodeless Design, RE 830 Phosphor, Warm White	160	1,8,9,10
DECORATIVE SHAPES																		
Cand	5	4.8	**16098**	**FLE5/2/CAC/827**	10	120	6000	200	160	2700	82	5	0.6	145	✎ ⇝	Candle Shape, Candelabra Base, Boxed	157	1,8,10,12
Med	5	4.8	**16099**	**FLE5/2/CAM/827**	10	120	6000	200	160	2700	82	5	0.6	145	✎ ⇝ ★	Candle Shape, Medium Base, Boxed	157	1,8,10,12
Cand	7	5.2	**16103**	**FLE7/2/CAC/827**	10	120	6000	370	296	2700	82	5	0.6	130	✎ ⇝	Candle Shape, Candelabra Base, Boxed	157	1,8,10,12
Med	7	5.2	**16104**	**FLE7/2/CAM/827**	10	120	6000	370	296	2700	82	5	0.6	130	✎ ⇝ ★	Candle Shape, Medium Base, Boxed	157	1,8,10,12
Cand	9	5.4	**85388**	**FLE9/2/CAC/SW/CD**	12	120	6000	430	344	2700	82	5	0.6	125	✎ ⇝	Candle Shape, Candelabra Base, Carded Single Pack	157	1,8,10,12
			16105	**FLE9/2/CAC/827**	10	120	6000	430	344	2700	82	5	0.6	125	✎ ⇝	Candle Shape, Candelabra Base, Boxed	157	1,8,10,12
Med	9	5.4	**47488**	**FLE9/2/CAM/XL/CD**	12	120	10000	430	344	2700	82	5	0.6	125	✎ ⇝ ★	Candle Shape, Medium Base, Carded Single Pack	157	1,8,10,12
			16106	**FLE9/2/CAM/827**	10	120	6000	430	344	2700	82	5	0.6	125	✎ ⇝ ★	Candle Shape, Medium Base, Boxed	157	1,8,10,12
	11	4.4	**47486**	**FLE11/2/A17XL/CD**	12	120	10000	550	440	2700	82	5	0.6		✎ ⇝ ★	A-Line Shape, Carded Single Pack	157	1,8,10,12
	11	4.8	**47484**	**FLE11/2/G25XL/CD**	12	120	10000	550	440	2700	82	5	0.6		✎ ⇝ ★	Globe Shape, Carded Single Pack	157	1,8,10,12
		5.2	**49894**	**FLE11/2/TC14/SW/CD**	12	120	6000	520	420	2700	82	5	0.6	120	✎ ⇝ ★	Post Light, Carded Single Pack	157	1,8,10,12
		5.2	**49895**	**FLE11/2/TC14/BUG/CD**	12	120	6000	520	420	2700	82	5	0.6	120	✎ ⇝ ★	Bug Yellow Post Light, Carded Single Pack	157	1,8,10,12
	12	4.8	**20703**	**FLE12/A19/827**	10	120	10000	550	440	2700	82	5	0.6	120	✎ ⇝	A-Line Shape, Reduced Size, Boxed	157	1,8,10,12
	14	5	**47464**	**FLE14/2/TC16/BUG**	12	120	10000	750	600	2700	82	5	0.6		✎ ⇝ ★	Bug Yellow Post Light, Carded Single Pack	157	1,8,10,12
	15	4.8	**47487**	**FLE15/2/A21XL/CD**	12	120	10000	825	660	2700	82	5	0.6		✎ ⇝ ★	A-Line Shape, Carded Single Pack	157	1,8,10,12
			47485	**FLE15/2/G25XL/CD**	12	120	10000	800	640	2700	82	5	0.6		✎ ⇝ ★	Globe Shape, Carded Single Pack	157	1,8,10,12
		4.7	**21733**	**FLE15/2/A21/SW/CD**	12	120	8000	850	689	2700	82	5	0.6	120	✎ ⇝ ★	A-Line Shape, Carded Single Pack	158	1,8,10,12
		5.4	**12010**	**FLE15/A19/827**	6	120	10000	825	660	2700	82	5	0.6	145	✎ ⇝	A-Line Shape, Reduced Size, Boxed	157	1,8,10,12
			12011	**FLE15/A19/SW/CD**	3	120	10000	825	660	2700	82	5	0.6	145	✎ ⇝	A-Line Shape, Reduced Size, Carded Single Pack	157	1,8,10,12
	15	5.3	**41325**	**FLE15/6/T19/827**	10	120	6000	800	640	2700	84	32	0.6	170	✎ ⇝	Bullet	158	1,8,10,12
		5.8	**12501**	**FLE15TBX/L/G29**	6	120	12000	750	600	2700	82	-9	0.6	170	✎ ⇝	Soft White, G30 Globe Slimshell Ballast	157	1,8,10,12
		5.4	**41546**	**FLE15/A3/G30**	6	120	10000	730	590	2700	82	-9	0.6	170	✎ ⇝	Soft White, G30 Globe, Reduced Overall Length	157	1,8,10,12
		6	**41464**	**FLE15/L/TC16/827**	6	120	12000	850	680	2700	82	-9	0.6	170	✎ ⇝	Post Light, Slimshell Ballast	157	1,8,10,12

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.

All footnote references found at the end of this section. ⇝ Reduced Wattage ✎ High Color Rendering ✹ TLCP Compliant Plug-Ins ▲ EOL Protection Plug-Ins ★ Energy Star Screw-Ins

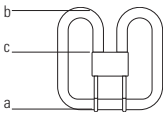
Base	Watts	Nominal Length in.	Order Code	Description	Case Qty	Volt	Rated Life Hours	Lumens Initial	Lumens Mean	Color Temp. K.	CRI	Min. Start Temp. (°F)	Power Factor	THD	Additional Information	Warning Notices	Footnotes
SELF-BALLASTED LAMPS (CONTINUED)																	
DECORATIVE SHAPES (CONTINUED)																	
Med	20	6.1	**41456**	**FLE20/A2/A24/827**	6	120	6000	1125	950	2700	82	0	0.6	170	A-Line Shape, Slimshell Ballast	157	1,8,10,12
			41441	**FLE20/A2/A24/SW/CD**	3	120	6000	1125	950	2700	82	0	0.6	170	A-Line Shape, Carded, Slimshell Ballast	157	1,8,10,12
LAMPS AND ADAPTERS																	
CIRCLITE®																	
Med	21	3.4	**11307**	**FCA21/CD**	4	120	10000	1200	1020	3000	82		0.5	20	Circlite, Carded, FC8T9/KB Replacement Lamp	163	1,7,10,11
			48222	**FCA21/D CD TRAY**	4	120	10000								Circlite, Carded Tray Pack, FC8T9/KB Replacement Lamp	163	1,7,10,11
	30	3.5	**27251**	**FEA30CIR/SW/CD**	4	120	10000	1900	1520	2700	82	32	0.6	170	Electronic Circlite, Carded, Replacement Lamp FC8T9	164	1,7,10,11
2D®-ELECTRONIC																	
Med	39	4.3	**27253**	**FEA38/2D/3WAY/CD**	4	120	10000	2780	2365	2700	82	32	0.5	2	3-Way, Carded Uses F382D/827 Replacement Lamp	164	1,3,7,10,11,12
BRIGHT STICK® LIGHTING UNITS																	
	33	25	**12257**	**FBS25/WX/PP**	6		7500	725		3450	59				Bright Stik, White Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp(1)*		1,10
			12263	**FBS25/GS/PP**	6		7500	470		3050	90				Bright Stik, Gro & Sho, Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp (1)*		1,10
			47912	**FBS25/BLB/PP**	6		7500								Bright Stik, Blacklight Blue Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp (1)*		1,10

Bulb	Base	Watts	Nominal Length in.	Order Code	Description	Case Qty	Rated Life Hours	Additional Information	Warning Notices	Footnotes
GERMICIDAL										
T4	G23	5	3.35	**16479**	**GBX5/UVC**	100	8000	Clear, Preheat, 2 Pin Internal Starter, UVC Source	106	9, 16
		9	5.71	**15877**	**GBX9/UVC**	100	8000	Clear, Preheat, 2 Pin Internal Starter, UVC Source	106	9, 16
		11	8.46	**15879**	**GBX11/UVC**	100	8000	Clear, Preheat, 2 Pin Internal Starter, UVC Source	106	9, 16
	GH23	13	6.69	**15881**	**GBX13/UVC**	100	8000	Clear, Preheat, 2 Pin Internal Starter, UVC Source	106	9, 16
T6	2G11	18	8.8	**15882**	**GBX18/UVC/2G11**	40	8000	Clear, UVC Source	106	9, 16
		36	16.33	**15883**	**GBX36/UVC/2G11**	40	8000	Clear, UVC Source	106	9, 16
		55	21.1	**15885**	**GBX55/UVC/2G11**	25	8000	Clear, UVC Source	106	9, 16
BLACKLIGHT										
T4	G23	5	3.35	**42935**	**F9BX BL G23**	10	10000	Blacklight UVA Source 2 pin Internal Starter	104	8
		11	5.71	**42936**	**F11BX BL G23**	10	10000	Blacklight UVA Source 2 pin Internal Starter	104	8
	GX23	13	8.46	**42937**	**F13BX BL GX23**	10	10000	Blacklight UVA Source 2 pin Internal Starter	104	8
T4	G24d-3	26	6.7	**42938**	**F26DBX BL G24d-3**	10	10000	Blacklight UVA Source 4 Pin Electronic	104	8
T6	2G11	24	12.8	**42939**	**F24BX BL 2G11**	10	10000	Blacklight UVA	104	8
		36	16.33	**42940**	**F36BX BL 2G11**	10	10000	Blacklight UVA	104	8
		55	21.1	**42941**	**F55BX BL 2G11**	10	10000	Blacklight UVA	104	8

FOOTNOTES

 # Footnote

1 Fluorescent lamp lumens decline during life.
2 Based on 60Hz reference circuit.
3 10-watt, 16-watt and 28-watt 2D® lamps may be operated in any position. 21-watt, 38-watt, 39-watt and 55-watt 2D® lamps must be used with the leg marked (a) in the diagram below the bend (b), in order to avoid overheating the end of the cap marked (c).
4 Life ratings for the F18BX preheat lamps are based on operating the lamp at 3hrs. per start on a preheat type circuit. Operation on rapid start and instant start ballasts is not recommended.
5 Cold cathode resistance is approximately 6.0 Ohms.
6 4-Pin lamp minimum starting temperature is a function of the ballast. Most ballasts are rated with a minimum starting temperature of 50°F (10°C). Ballasts are also available that provide reliable starting to 0°F (-18°C) and -20°F (-29°C).
7 Most one piece self ballasted lamps for incandescent sockets and plug-in lamps with screw-in adapters do not work with clip-on shades.
8 Lumens on one piece self ballasted lamp systems are measured base up.
9 Best performance if operated base up and at 77°F (25°C) ambient temperature.
10 Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers. Do not use in wet locations.
11 Adapters rated at 40,000 hours life.
12 Amalgam products experience stable brightness over a wider temperature range and in various operating positions.
13 Life ratings are based on operating the lamp at 3hrs. per start on a rapid start type ballast. Life rating on a preheat or instant start ballast is 25% lower.
14 Use only on 120V, 60Hz circuits. Do not use on with photocells or timers. Do not use in wet locations.
15 These lamps are only recommended for use with single lamp ballasts or parallel wired 2-lamp ballasts.
16 UL Listed for wet locations. Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers.
17 Max. bulb wall temperature not to exceed 180°C. Consult GE sales representative for further information.



WARNING AND CAUTION NOTICES

151

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

152

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

153

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
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154

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
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- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers

155

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers

156

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or in totally enclosed recessed fixtures.

157

⚠ CAUTION

Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

WARNING AND CAUTION NOTICES (CONTINUED)

158

⚠ CAUTION

Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

159

⚠ CAUTION

Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use in wet locations
- Use indoors only

Risk of fire

- Do not use this adapter on dimmers, electronic timers, or photocells

Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width and which are provided with lamp shades. Not intended for use with emergency exit fixtures or lights.

160

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product may cause interference to radio equipment operating in the frequency range of 2.2 - 2.8 MHz. Avoid placing this product near these devices. To reduce the possibility of radio interference to maritime safety communications, this device should not be installed:

1) On board cargo vessels of more than 300 tons
2) On board cargo vessels carrying more than 12 passengers for hire
3) At any medium frequency public coast station

Further, installation is not recommended on board vessels equipped with medium frequency, single sideband marine radios. If interference occurs, move this product away from the device or plug either into a different outlet. Such intereference complaints should be reported to: Application Solutions at General Electric Company, 1975 Noble Road, Cleveland, Ohio 44112, or call toll free (800) 435-4448 from 8:00 am to 6:00 pm EST.

Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

161

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers. Use only with portable lamps which are provided with lamp shades.

162

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

163

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width or with portable lamps which are provided with lamp shades. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers.

164

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

165

⚠ CAUTION

Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells or in totally enclosed recessed fixtures.

166

⚠ CAUTION

Risk of electric shock

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

CFL CROSS REFERENCE

GE Description	Generic Description	Osram/Sylvania Description	Philips Description
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS		
LOW WATTAGE BIAX® 2-PIN			
F5BX/SPX27	CFT5W/G23/827	CF5DS/827	PL-S 5W/827
F5BX/SPX41	CFT5W/G23/841	CFDS/841	—
F7BX/SPX27	CFT7W/G23/827	CF7DS/827	PL-S 7W/827
F7BX/SPX35	CFT7W/G23/835	CF7DS/835	PL-S 7W/835
F7BX/SPX41	CFT7W/G23/841	CF7DS/841	PL-S 7W/841
F9BX/SPX27	CFT9W/G23/827	CF9DS/827	PL-S 9W/827
F9BX/SPX35	CFT9W/G23/835	CF9DS/835	PL-S 9W/835
F9BX/SPX41	CFT9W/G23/841	CF9DS/841	PL-S 9W/841
F13BX/SPX27	CFT13W/G23/827	CF13DS/827	PL-S 13W/827
F13BX/SPX30	CFT13W/G23/830	CF13DS/830	PL-S 13W/830
F13BX/SPX35	CFT13W/G23/835	CF13DS/835	PL-S 13W/835
F13BX/SPX41	CFT13W/G23/841	CF13DS/841	PL-S 13W/841
F13BX/SPX50	CFT13W/G23/850	CF13DS/850	PL-S 13W/850
F13BX/E/827	CFT13W/G23/827	—	—
F13BX/E/830	CFT13W/G23/835	—	—
F13BX/E/835	CFT13W/G23/830	—	—
F13BX/E/841	CFT13W/G23/841	—	—
F13BX/E/850	CFT13W/G23/850	—	—
HIGH LUMEN BIAX®			
F18BX/SPX30	FT18W/2G11/830	FT18DL/830	PL-L 18W/830
F18BX/SPX35	FT18W/2G11/835	FT18DL/835	PL-L 18W/835
F18BX/SPX41	FT18W/2G11/841	FT18DL/841	PL-L 18W/841
F18BX/SPX30/RS	FT18W/2G11/RS/830	FT18DL/830/RS	PL-L 18W/830
F18BX/SPX35/RS	FT18W/2G11/RS/835	FT18DL/835/RS	PL-L 18W/835
F18BX/SPX41/RS	FT18W/2G11/RS/841	FT18DL/841/RS	PL-L 18W/841
F18BX/SPX65/RS	FT18W/2G11/RS/865	—	—
F27BX/SPX3/RS	FT24W/2G11/830	FT24DL/830	PL-L 24W/830
F27BX/SPX35/RS	FT24W/2G11/835	FT24DL/835	PL-L 24W/835
F27BX/SPX41/RS	FT24W/2G11/841	FT24DL/841	PL-L 24W/841
F39BX/SPX3/RS	FT36W/2G11/830	FT36DL/830	PL-L 36W/830
F39BX/SPX3/RS	FT36W/2G11/835	FT36DL/835	PL-L 36W/835
F39BX/SPX3/RS	FT36W/2G11/841	FT36DL/841	PL-L 36W/841
F40/30BX/SPX30	FT40W/2G11/RS/830	FT40DL/830/RS	PL-L 40W/830/RS/IS
F40/30BX/SPX35	FT40W/2G11/RS/835	FT40DL/835/RS	PL-L 40W/835/RS/IS
F40/30BX/SPX41	FT40W/2G11/RS/841	FT40DL/841/RS	PL-L 40W/841/RS/IS
F40/30BX/SPX50/RS	FT40W/2G11/RS/850	—	—
F50/30BX/SPX30/RS	FT50W/2G11/RS/830	—	PL-L 50W/830/RS
F50/30BX/SPX35/RS	FT50W/2G11/RS/835	—	PL-L 50W/835/RS
F50/30BX/SPX41/RS	FT50W/2G11/RS/841	—	PL-L 50W/841/RS
F55BX/830	FT55W/2G11/RS/830	FT55DL/830	—
F55BX/835	FT55W/2G11/RS/835	FT55DL/835	—
F55BX/841	FT55W/2G11/RS/841	FT55DL/841	—

GE Description	Generic Description	Osram/Sylvania Description	Philips Description
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS		
DOUBLE BIAX® 2-PIN			
F9DBX23T4/SPX27	CFQ9W/G23/827	CF9DD/827	—
F9DBX23T4/841	CFQ9W/G23/841	—	—
F13DBX23T4/SPX27	CFQ13W/GX23/827	CF13DD/827	PL-C 13W/827/USA
F13DBX23T4/SPX30	CFQ13W/GX23/830	CF13DD/830	PL-C 13W/830/USA
F13DBX23T4/SPX35	CFQ13W/GX23/835	CF13DD/835	PL-C 13W/835/USA
F13DBX23T4/SPX41	CFQ13W/GX23/841	CF13DD/841	PL-C 13W/841/USA
F13DBXT4/SPX27	CFQ13W/G24d/827	—	PL-C 13W/827
F13DBXT4/SPX30	CFQ13W/G24d/830	—	PL-C 13W/830
F13DBXT4/SPX35	CFQ13W/G24d/835	—	—
F13DBXT4/SPX41	CFQ13W/G24d/841	—	—
F18DBXT4/SPX27	CFQ18W/G24d/827	CF18DD/827	PL-C 18W/827
F18DBXT4/SPX30	CFQ18W/G24d/830	CF18DD/830	PL-C 18W/830
F18DBXT4/SPX35	CFQ18W/G24d/835	CF18DD/835	PL-C 18W/835
F18DBXT4/SPX41	CFQ18W/G24d/841	CF18DD/841	PL-C 18W/841
F26DBXT4/SPX27	CFQ26W/G24d/827	CF26DD/827	PL-C 26W/827
F26DBXT4/SPX30	CFQ26W/G24d/830	CF26DD/830	PL-C 26W/830
F26DBXT4/SPX35	CFQ26W/G24d/835	CF26DD/835	PL-C 26W/835
F26DBXT4/SPX41	CFQ26W/G24d/841	CF26DD/841	PL-C 26W/841
F26DBX/E/827	CFQ26W/G24d/827	—	—
F26DBX/E/830	CFQ26W/G24d/830	—	—
F26DBX/E/835	CFQ26W/G24d/835	—	—
F26DBX/E/841	CFQ26W/G24d/841	—	—
DOUBLE BIAX® 4-PIN			
F13DBX/SPX27/4P	CFQ13W/G24q/827	CF13DD/E/827	PL-C 13W/827/4P
F13DBX/SPX30/4P	CFQ13W/G24q/830	CF13DD/E/830	PL-C 13W/830/4P
F13DBX/SPX35/4P	CFQ13W/G24q/835	CF13DD/E/835	PL-C 13W/835/4P
F13DBX/SPX41/4P	CFQ13W/G24q/841	CF13DD/E/841	PL-C 13W/841/4P
F18DBX/SPX27/4P	CFQ18W/G24q/827	CF18DD/E/827	PL-C 18W/827/4P
F18DBX/SPX30/4P	CFQ18W/G24q/830	CF18DD/E/830	PL-C 18W/830/4P
F18DBX/SPX35/4P	CFQ18W/G24q/835	CF18DD/E/835	PL-C 18W/835/4P
F18DBX/SPX41/4P	CFQ18W/G24q/841	CF18DD/E/841	PL-C 18W/841/4P
F26DBX/SPX27/4P	CFQ26W/G24q/827	CF26DD/E/827	PL-C 26W/827/4P
F26DBX/SPX30/4P	CFQ26W/G24q/830	CF26DD/E/830	PL-C 26W/830/4P
F26DBX/SPX35/4P	CFQ26W/G24q/835	CF26DD/E/835	PL-C 26W/835/4P
F26DBX/SPX41/4P	CFQ26W/G24q/841	CF26DD/E/841	PL-C 26W/841/4P

CFL CROSS REFERENCE

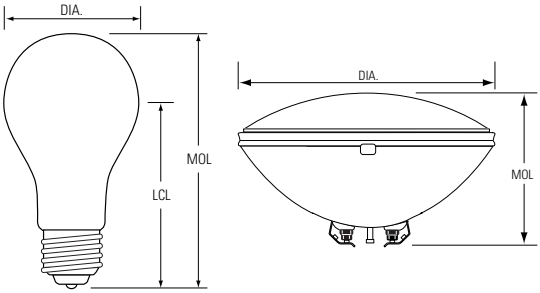
GE Description	Generic Description	Osram/Sylvania Description	Philips Description
ORDER THIS GE LAMP	IF YOU CURRENTLY USE THESE LAMPS		
TRIPLE BIAX® 4-PIN			
F13TBX/SPX27/A/4P	CFTR13W/GX24q/827	CF13DT/E/827	—
F13TBX/SPX27/A/4P	CFTR13W/GX24q/830	CF13DT/E/830	—
F13TBX/SPX27/A/4P	CFTR13W/GX24q/835	CF13DT/E/835	—
F13TBX/SPX27/A/4P	CFTR13W/GX24q/841	CF13DT/E/841	—
F18TBX/SPX27/A/4P	CFTR18W/GX24q/827	CF18DT/E/IN/827	PL-T 18W/827/4P
F18TBX/SPX30/A/4P	CFTR18W/GX24q/830	CF18DT/E/IN/830	PL-T 18W/830/4P
F18TBX/SPX35/A/4P	CFTR18W/GX24q/835	CF18DT/E/IN/835	PL-T 18W/835/4P
F18TBX/SPX41/A/4P	CFTR18W/GX24q/841	CF18DT/E/IN/841	PL-T 18W/841/4P
F26TBX/SPX27/A/4P	CFTR26W/GX24q/827	CF26DT/E/IN/827	PL-T 26W/827/4P
F26TBX/SPX30/A/4P	CFTR26W/GX24q/830	CF26DT/E/IN/830	PL-T 26W/830/4P
F26TBX/SPX35/A/4P	CFTR26W/GX24q/835	CF26DT/E/IN/835	PL-T 26W/835/4P
F26TBX/SPX41/A/4P	CFTR26W/GX24q/841	CF26DT/E/IN/841	PL-T 26W/841/4P
F32TBX/SPX27/A/4P	CFTR32W/GX24q/827	CF32DT/E/IN/827	PL-T 32W/827/4P
F32TBX/SPX30/A/4P	CFTR32W/GX24q/830	CF32DT/E/IN/830	PL-T 32W/830/4P
F32TBX/SPX35/A/4P	CFTR32W/GX24q/835	CF32DT/E/IN/835	PL-T 32W/835/4P
F32TBX/SPX41/A/4P	CFTR32W/GX24q/841	CF32DT/E/IN/841	PL-T 32W/841/4P
F42TBX/827/A/4P/EOL	CFTR42W/GX24q/827	CF42DT/E/IN/827	PL-T 42W/827/4P
F42TBX/830/A/4P/EOL	CFTR42W/GX24q/830	CF42DT/E/IN/830	PL-T 42W/830/4P
F42TBX/835/A/4P/EOL	CFTR42W/GX24q/835	CF42DT/E/IN/835	PL-T 42W/835/4P
F42TBX/841/A/4P/EOL	CFTR42W/GX24q/841	CF42DT/E/IN/841	PL-T 42W/841/4P
HIGH OUTPUT BIAX® 4-PIN			
F57QBX/827/A/4P/EOL	CFM57W/GX24q/827	CF57DT/E/IN/827	—
F57QBX/830/A/4P/EOL	CFM57W/GX24q/830	CF57DT/E/IN/830	—
F57QBX/835/A/4P/EOL	CFM57W/GX24q/835	CF57DT/E/IN/835	—
F57QBX/841/A/4P/EOL	CFM57W/GX24q/841	CF57DT/E/IN/841	—
F57QBX/850/A/4P/EOL	CFM57W/GX24q/850	CF57DT/E/IN/850	—
F70QBX/827/A/4P/EOL	CFM70W/GX24q/827	—	—
F70QBX/830/A/4P/EOL	CFM70W/GX24q/830	—	—
F70QBX/835/A/4P/EOL	CFM70W/GX24q/835	—	—
F70QBX/841/A/4P/EOL	CFM70W/GX24q/841	—	—
F70QBX/850/A/4P/EOL	CFM70W/GX24q/850	—	—

GE ENHANCED PLUG-IN PRODUCT CONVERSION

IF YOU USED TO ORDER GE PRODUCT:		NOW ORDER GE PRODUCT:	
PC	PC Description	**New PC**	**New Description**
37654	F5BX/SPX27/827	97551	F5BX/827/ECO
13575	F5BX/SPX27/CD	97552	F5BX/827/CDECO
37661	F5BX/SPX41/840	97553	F5BX/841/ECO
37846	F7BX/SPX27/827	97554	F7BX/827/ECO
13576	F7BX/SPX27/CD	97555	F7BX/827/CDECO
37659	F7BX/SPX35/835	97556	F7BX/835/ECO
37660	F7BX/SPX41/840	97557	F7BX/841/ECO
37651	F9BX/SPX27/827	97558	F9BX/827/ECO
13577	F9BX/SPX27/CD	97559	F9BX/827/CDECO
37652	F9BX/SPX35/835	97560	F9BX/835/ECO
37653	F9BX/SPX41/840	97561	F9BX/841/ECO
41645	F13BX/E/827	97562	F13BX/E/827/ECO
41646	F13BX/E/830	97563	F13BX/E/830/ECO
41649	F13BX/E/835	97564	F13BX/E/835/ECO
41651	F13BX/E/841	97565	F13BX/E/841/ECO
41652	F13BX/E850	97566	F13BX/E/850/ECO
14583	F13BX/SPX27/CD	97567	F13BX/827/CDECO
41757	F13BX/SPX35 100P	97568	F13BX/835 100P
17048	F13BX/SPX35/835	97569	F13BX/835/ECO
41758	F13BX/SPX41 100P	97570	F13BX/841 100P
20434	F13BX/SPX41/840	97571	F13BX/841/ECO
11671	F13BX/SPX50	97572	F13BX/850/ECO
14650	F13BXSPX27/827	97573	F13BX/827/ECO
17612	F13BXSPX30/830	97574	F13BX/830/ECO
42065	F9DBX23T4/841	97575	F9DBX23/841/ECO
12409	F9DBX23T4SPX27/8	97576	F9DBX23/827/ECO
13578	F13DBX/SPX27/CD	97585	F13DBX/827/CD
18844	F13DBX23T4/SPX27	97586	F13DBX23/827/ECO
10574	F13DBX23T4/SPX30	97587	F13DBX23/830/ECO
18556	F13DBX23T4/SPX35	97588	F13DBX23/835/ECO
20531	F13DBX23T4/SPX41	97589	F13DBX23/841/ECO
18557	F13DBXT4/SPX27	97590	F13DBX/827/ECO
12956	F13DBXT4/SPX30	97591	F13DBX/830/ECO
18559	F13DBXT4/SPX35	97592	F13DBX/835/ECO
20532	F13DBXT4/SPX41	97593	F13DBX/841/ECO
30035	F13DBX/SPX27/4P	97594	F13DBX/827/ECO4P
10580	F13DBX/SPX30/4P	97595	F13DBX/830/ECO4P
30037	F13DBX/SPX35/4P	97596	F13DBX/835/ECO4P
30038	F13DBX/SPX41/4P	97597	F13DBX/841/ECO4P
12860	F18DBXT4/SPX27	97577	F18DBX/827/ECO
12861	F18DBXT4/SPX30	97578	F18DBX/830/ECO
12863	F18DBXT4/SPX35	97579	F18DBX/835/ECO
12864	F18DBXT4/SPX41	97580	F18DBX/841/ECO
12865	F18DBX/SPX27/4P	97598	F18DBX/827/ECO4P
12866	F18DBX/SPX30/4P	97599	F18DBX/830/ECO4P
12869	F18DBX/SPX35/4P	97600	F18DBX/835/ECO4P

IF YOU USED TO ORDER GE PRODUCT:		NOW ORDER GE PRODUCT:	
PC	PC Description	**New PC**	**New Description**
12870	F18DBX/SPX41/4P	97601	F18DBX/841/ECO4P
46290	F26DBX/E/827	97602	F26DBX/E/827/ECO
46291	F26DBX/E/830	97603	F26DBX/E/830/ECO
46292	F26DBX/E/835	97604	F26DBX/E/835/ECO
46294	F26DBX/E/841	97605	F26DBX/E/841/ECO
35250	F26DBXT4/SPX27	97606	F26DBX/827/ECO
35237	F26DBXT4/SPX30	97607	F26DBX/830/ECO
35251	F26DBXT4/SPX35	97608	F26DBX/835/ECO
35252	F26DBXT4/SPX41	97609	F26DBX/841/ECO
35247	F26DBXT4SPX27/4P	97610	F26DBX/827/ECO4P
35235	F26DBXT4SPX30/4P	97611	F26DBX/830/ECO4P
35248	F26DBXT4SPX35/4P	97612	F26DBX/835/ECO4P
35236	F26DBXT4SPX41/4P	97613	F26DBX/841/ECO4P
34391	F13TBX/SPX27/A/4	97619	F13TBX/827/A/ECO
34395	F13TBX/SPX30/A/4	97620	F13TBX/830/A/ECO
34400	F13TBX/SPX35/A/4	97621	F13TBX/835/A/ECO
34387	F13TBX/SPX41/A/4	97622	F13TBX/841/A/ECO
47696	F13TBX827/4P/EOL	97623	F13TBX827/4P/ECO
34392	F18TBX/SPX27/A/4	97624	F18TBX/827/A/ECO
34396	F18TBX/SPX30/A/4	97625	F18TBX/830/A/ECO
34405	F18TBX/SPX35/A/4	97626	F18TBX/835/A/ECO
34385	F18TBX/SPX41/A/4	97627	F18TBX/841/A/ECO
48869	F18TBX827/4P/EOL	97628	F18TBX827/4P/ECO
34393	F26TBX/SPX27/A/4	97614	F26TBX/827/A/ECO
34397	F26TBX/SPX30/A/4	97615	F26TBX/830/A/ECO
34406	F26TBX/SPX35/A/4	97616	F26TBX/835/A/ECO
34381	F26TBX/SPX41/A/4	97617	F26TBX/841/A/ECO
48870	F26TBX827/4P/EOL	97618	F26TBX827/4P/ECO
39377	F32TBX/SPX27A/4P	97629	F32TBX/827/A/ECO
39378	F32TBX/SPX30A/4P	97630	F32TBX/830/A/ECO
39379	F32TBX/SPX35A/4P	97631	F32TBX/835/A/ECO
39380	F32TBX/SPX41A/4P	97632	F32TBX/841/A/ECO
46312	F42TBX827A4P/EOL	97633	F42TBX/827/A/ECO
46313	F42TBX830A4P/EOL	97634	F42TBX/830/A/ECO
46314	F42TBX835A4P/EOL	97635	F42TBX/835/A/ECO
46315	F42TBX841A4P/EOL	97636	F42TBX/841/A/ECO
48861	F57QBX/827/A/4P/EOL	48861	F57QBX/827/A/ECO
48862	F57QBX/830/A/4P/EOL	48862	F57QBX/830/A/ECO
48863	F57QBX/835/A/4P/EOL	48863	F57QBX/835/A/ECO
48864	F57QBX/841/A/4P/EOL	48864	F57QBX/841/A/ECO
93404	F57QBX/850/A/4P/EOL	93404	F57QBX/850/A/ECO
48865	F70QBX/827/A/4P/EOL	48865	F70QBX/827/A/ECO
48866	F70QBX/830/A/4P/EOL	48866	F70QBX/830/A/ECO
48867	F70QBX/835/A/4P/EOL	48867	F70QBX/835/A/ECO
48868	F70QBX/841/A/4P/EOL	48868	F70QBX/841/A/ECO
93406	F70QBX/850/A/4P/EOL	93406	F70QBX/850/A/ECO

BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

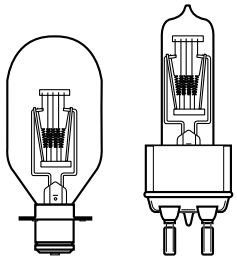
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

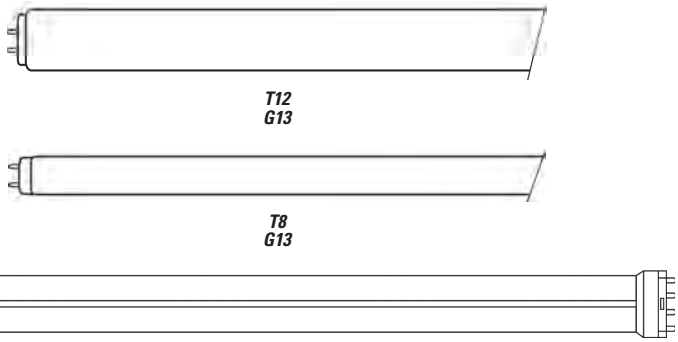
To convert inches to millimeters, multiply the dimension (in inches) by 25.4
(i.e. inches x 25.4 = millimeters).

LAMP LOCATOR



T12 Med Pf ***T14 Med 2-Pin (G9.5)***

Incandescent Lamps

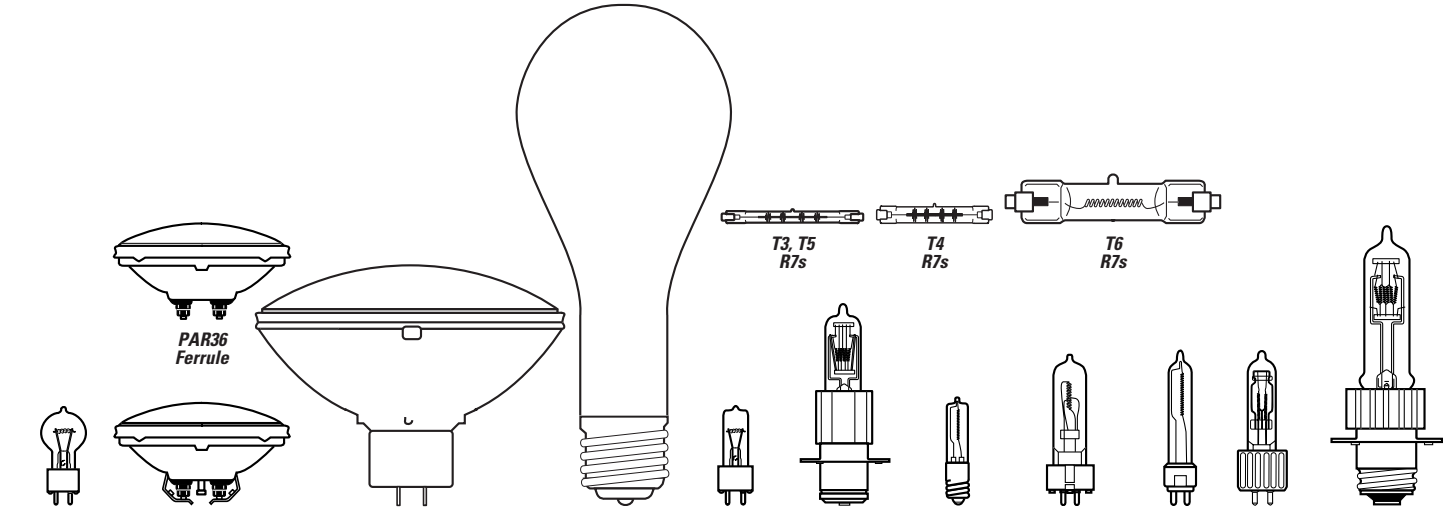


T12 G13

T8 G13

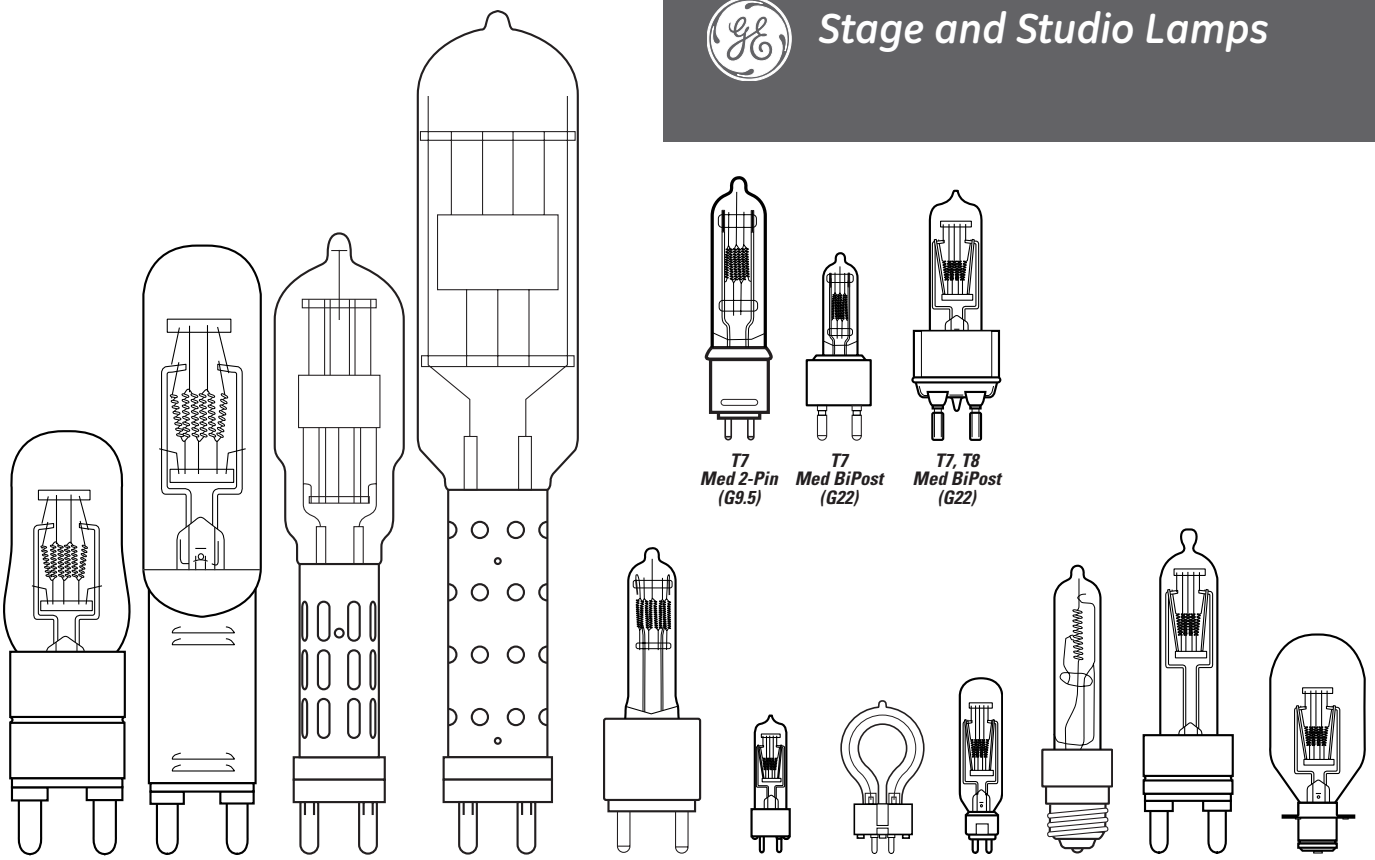
Biax® 2G11

Fluorescent Cinema Lamps

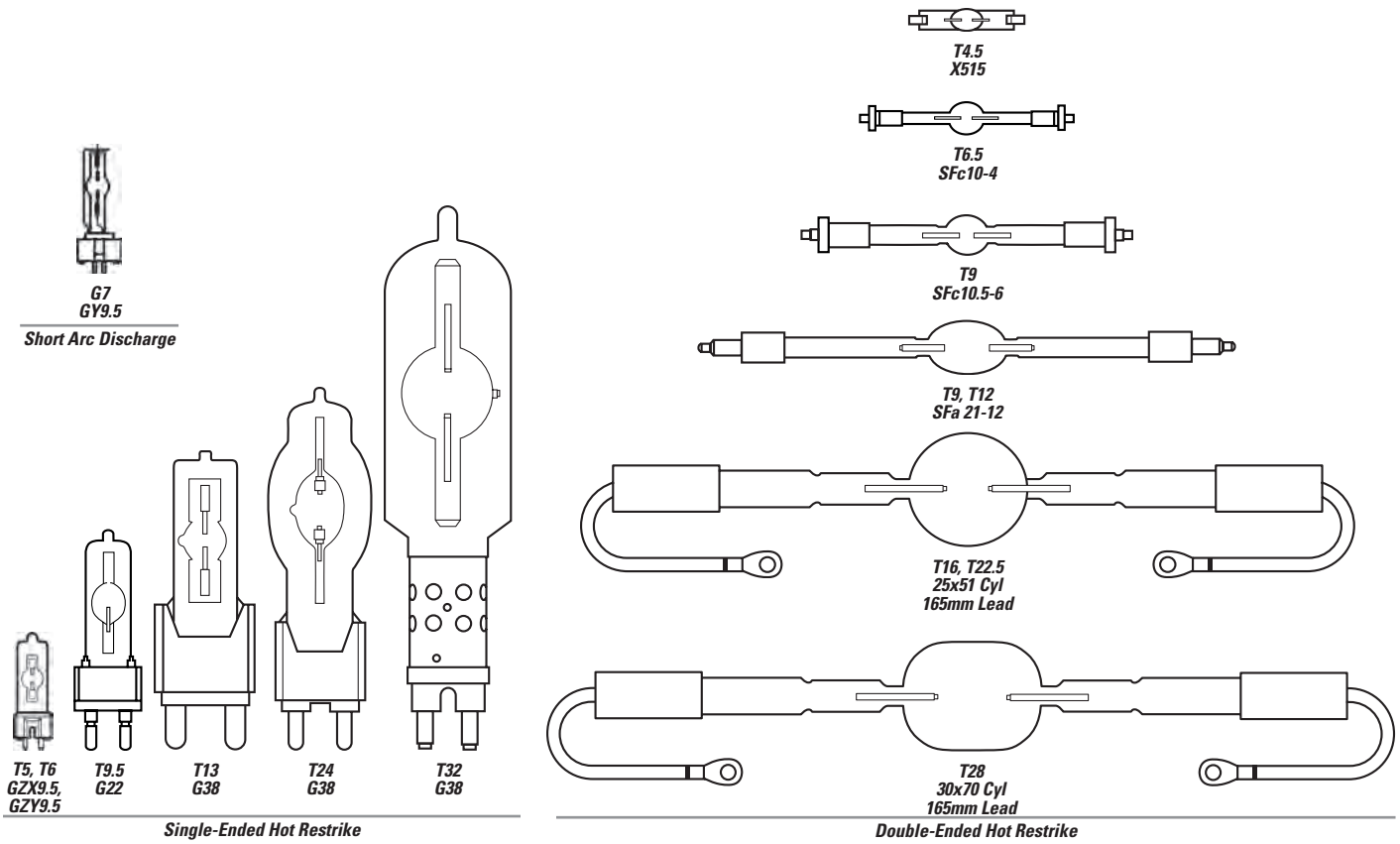


G6, G7 2-Pin Prefocus (GX9.5 / GY9.5) ***PAR36 Scrw Term*** ***PAR36 Ferrule*** ***PAR64 Extended Mog End Prefocus*** ***PS52 Mog (E39)*** ***T4, T6 Med 2-Pin (G9.5)*** ***T4, T6, T7, T8 Med Prefocus (P28s)*** ***T3, T5 R7s*** ***T4 R7s*** ***T4 Mini-Cand*** ***T6 R7s*** ***T5 2-Pin Prefocus (GX9.5 / GY9.5)*** ***T6 Med 2-Pin (G9.5)*** ***T6 Special*** ***T7, T8, T10 Mog Prefocus (P40s)***

Quartzline® Tungsten Halogen

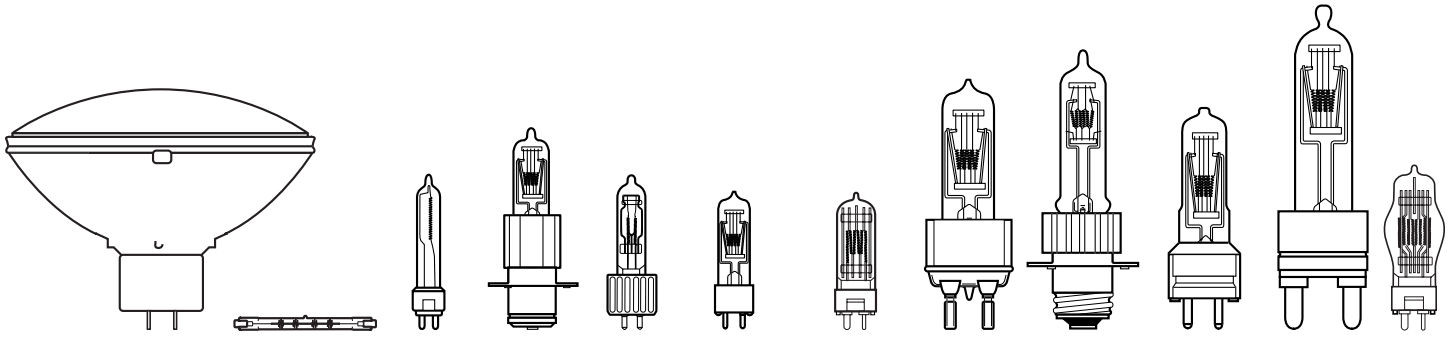


Quartzline® Tungsten Halogen (Continued)



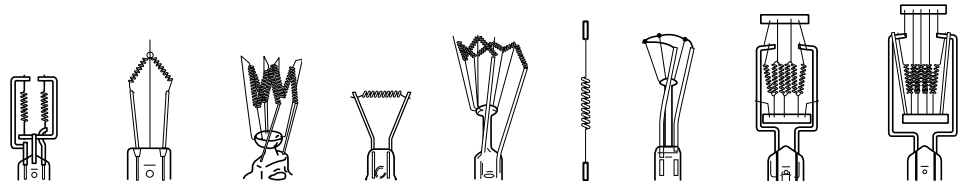
CSR Metal Halide Lamps

LAMP LOCATOR (CONTINUED)

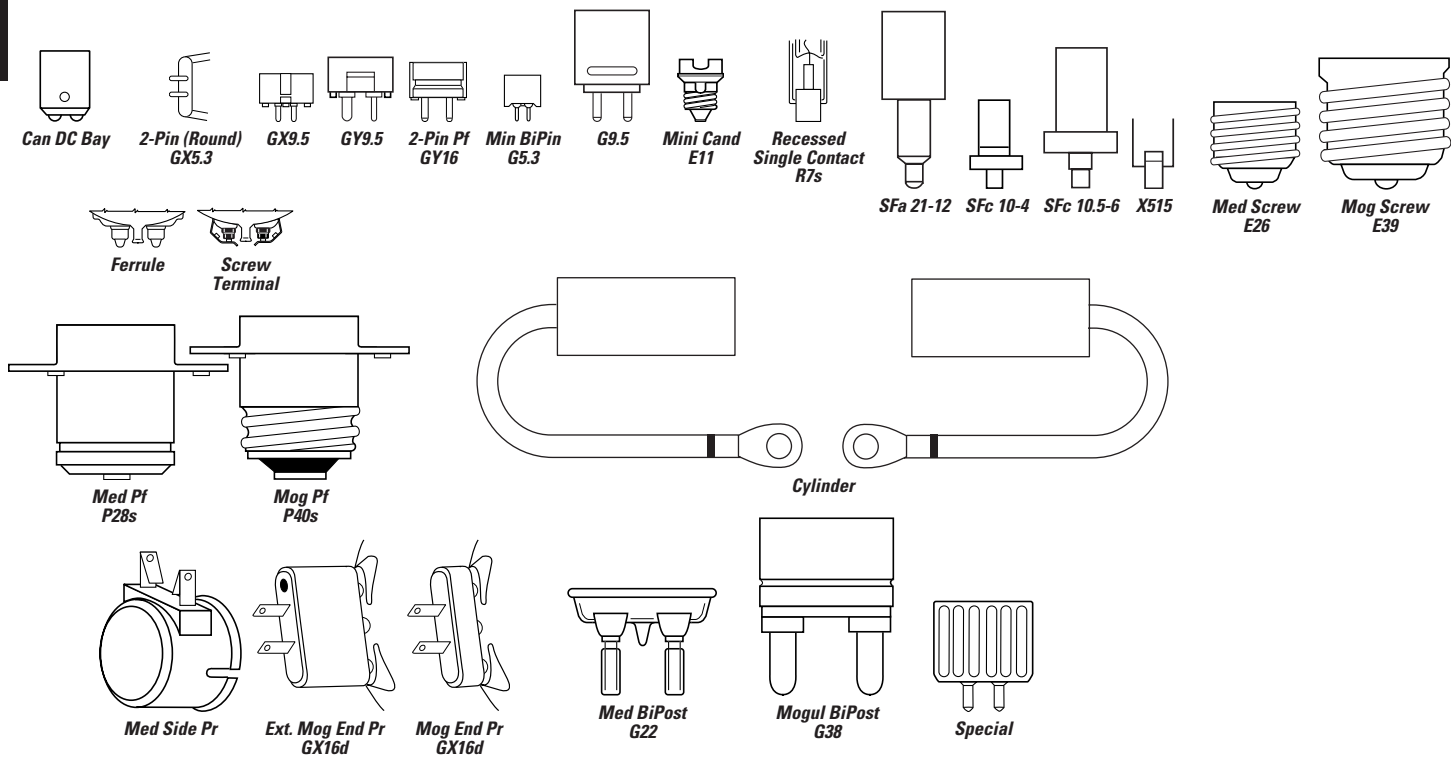


Quartzline® Tungsten Halogen High Voltage

FILAMENT IDENTIFICATION



BASE IDENTIFICATION



INTRODUCTION

GE has been a leading supplier to stage and studio users for many decades, and continues its pioneering work in the development of new and innovative light sources.

The primary change in recent years has been the migration from glass to quartz as the standard bulb material. The higher melting point of quartz enables bulb envelopes to be reduced in size and the halogen fillings to be run at higher pressures, leading to smaller, lighter, brighter, more energy-efficient and more reliable lamps.

GE 's comprehensive range of single- and double-ended lamps is complemented by a group of PAR lamps, where the light source is enclosed in a sealed reflector unit.

The beam patterns of PAR lamps range from very narrow spot to wide-angle floods. This ensures consistency from lamp to lamp, interchangeability to suit the beam pattern needs of the moment and instant replaceability without the need to refocus and re-aim fixtures.

The sealed beam design prolongs the life of the inner lamp as well as protecting it from dust, vapor and other hazards, thereby ensuring high lumen maintenance over the life of the lamp.

PAR lamps may be used with very simple, lightweight, economical fixtures.

GENERAL INFORMATION

OPERATIONAL CHARACTERISTICS

Quartz halogen lamps are designed to be operated within close voltage tolerances, and excessive voltage can lead to drastically shortened life, albeit with significantly higher light output.

A second important variable is temperature. The tungsten halogen cycle does not operate properly below about 482°F (250°C) and quartz may begin to devitrify above about 1832°F (1000°C). Bulb envelopes should therefore be held in the range 482-1472°F (250-800°C).

The contact pins are plated to ensure good electrical connection with the lampholder. However, at temperatures above 350°C, the plating may lose adhesion, leading to deterioration in contact and possibly local hot spots, arcing and consequent irreparable damage to both lamp and holder. Note that if there is evidence that this has occurred, the lampholder should be replaced before the next lamp is fitted, otherwise it is likely to fail prematurely for the same reason.

Lamps normally fail by fusing of the filament. This is often followed by arcing, leading to very high currents which can cause the envelope and seals to fail and the lamp to shatter. A quick-acting, high-breaking capacity fuse should therefore be connected to the supply line in all applications. Suitable types are given in IEC 127, 241 and 269.

CHROMISE SEAL PROTECTION

Many Quartzline® Stage/Studio lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500° C (vs traditional 350° C), which increases life and reliability.

If the package does not have this seal, lamp base temperatures for Quartzline® lamps should not exceed 350°C because, above that point, lead wires in the sealing area will deteriorate, and base cement can loosen, both causing premature lamp failure. Note overvoltaging a lamp will increase the seal heat.

LAMP CODES

GE Stage & Studio lamps are coded as such:

Lamp Description. This may be either an American National Standards Institute (ANSI) three letter code such as EJG, or a descriptive code in the general form Q750T3/4CL. ANSI codes are assigned to lamp specifications – mechanical, electrical and photometric characteristics – filed with the Institute.

They ensure interchangeability among similarly coded lamps from different manufacturers. Most of these lamps are rated for 120-volt operation. In a few cases a pair of ANSI codes are given (e.g. BFL/BFK), where the first is the official code for the lamp and the second code describes lamps the specifications of which are met or exceeded. In such cases, the lamps may be used to replace lamps with either code.

Base designations conform to IEC standards.

PRODUCT INFORMATION

GE CSR/CSD METAL HALIDE LAMPS

New GE range of metal halide lamps for use in a variety of applications including TV and film, stage, concerts, photographic and large screen presentation and color simulation.

- Excellent color rendering R_a >90
- Daylight color temperature, typically 6000K
- Universal burning position
- High efficiency up to 100 Lm/Watt
- Hot restrike and dimmable with stable color temperature
- Superior color stability
- Excellent lumen maintenance
- Use with electronic or AC magnetic ballast/ignitor control gear
- Applications include inside and outside TV and film production, stage, concerts, sporting events, photographic studios, overhead and large screen projection and color simulation.

GE CINEMA FLUORESCENT LAMPS

- High CRI (Color Rendering Index)... traditional fluorescent lamps have not been widely used in photography and film making because of relatively low CRI and the prominent green spike found in typical fluorescent phosphors. GE Lighting Cinema 32 and Cinema 55 lamps have corrected these deficiencies with products that now have a CRI of 95 (out of 100 max.) and colors that respond to the spectral sensitivity curves of film and electronic imaging media.
- Optional Shatter Resistance... GE Cinema 32 and 55 offer the option of GE's exclusive covRguard® shatter resistance that helps contain glass fragments if the lamps are broken. Reduce the possibility of glass related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missing critical deadlines because GE offers shatter resistance. GE's covRguard® process wraps the Cinema lamps in a full 15 ml thick casing of GE's exclusive Lexan™ polycarbonate that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike other shatter-resistant lamps, GE's covRguard® lamps require no assembly.

PRODUCT INFORMATION (CONTINUED)

- Superior Light Output... the GE covRguard® process offers maximum protection with minimal light loss... the lowest loss of initial light of other shielded products.
- Dependable UV Blocking... the GE covRguard® process also offers excellent UV blocking. CovRguard® blocks 98% of the UV that is normally transmitted from an unprotected fluorescent lamp — all UVC, all UVB and most of UVA. This is critical for protecting expensive sets and wardrobe from the fading effects of UV exposure.
- Chromaticity... the Cinema 32 has a chromaticity of X=.415 and Y=.377 with a CRI of 95. The Cinema 32 mixes well with both incandescent and quartz halogen light sources without color corrections. The Cinema 55 is a broad band spectrum daylight lamp with a chromaticity of X=.325 and Y=.321 and a CRI of 96. The Cinema 55 mixes well with ambient daylight and short arc discharge HID light sources without color corrections.

For more detailed information on all GE Stage and Studio lighting order "Showbiz®" 2005, PC 23766 from your GE sales representative.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Stage/Studio lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

Watts:
Energy used. To find actual energy used (kWh) multiply power (watts shown) x time divided by 1000.

Shape:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Base:
The type of base (ANSI).

Volts:
Lamp data is based on operation at rated voltage.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

LIF Code:
These are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps.

Description:
The lamp's identification code.

Case Quantity:
Number of product units packed in a case.

Lumens Initial:
Initial light output.

Approximate CBCP (Center Beam Candlepower):
For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Color Temperature - Kelvins (K):
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Filament Design:
Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.

MOL in.:
Maximum Overall Length in inches.

LCL in.:
Distance between the center of the filament and the Light Center Length reference plane, in inches.

Beam Spread:
For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated.

Rated Life - Hours:
Lamp burning hours to median life expectancy.

Footnotes:
See pg 6-12.

Watts	Shape	Base	Volts	Order Code	LIF Code	Description	Case Qty.	Lumens Initial	CBCP	Color Temp. K	Filament Design	MOL	LCL	Beam Spread 10% Horiz.	Beam Spread 10% Vert.	Beam Spread 50% Horiz.	Beam Spread 50% Vert.	Rated Life Hours	Footnotes
QUARTZLINE® TUNGSTEN HALOGEN																			
500	T6	Med Pf (P28s)	120	**11966**	T17	**BTL-Q500T6/CL/P**	12	11000		3000	C-13	5.25	2.18					500	3, 12

BTL- Q500 T6/CL/P

- *Identifies the lamp ANSI code.*
- *Identifies the lamp's wattage. Q=Quartz Halogen*
- *Identifies the lamp shape and the bulb diameter in eighths of inches.*

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using tables on pages 6-2 – 6-4.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 6-4.
4. Find your lamp in the table containing the bulb shape, size and base.

Watts	Shape	Base	Volts	Order Code	LIF Code	Description	Case Qty.	Lumens Initial	CBCP	Color Temp. K	Filament Design	MOL	LCL	Beam Spread 10% Horiz.	Beam Spread 10% Vert.	Beam Spread 50% Horiz.	Beam Spread 50% Vert.	Rated Life Hours	Footnotes
QUARTZLINE® TUNGSTEN HALOGEN																			
200	T4	Cand DC Bay BA15d	120	**14119**		**FEV-Q200/4CL/DC**	6	5500		3200	CC-2V	2.43	1.37					50	12
300	T8	2-Pin Pf (GY9.5)	120	**39781**	CP81	**FKW-Q300T8**	24	6900		3200	C-13	3.54	1.81					50	12
350	T2	R7S	120	**20881**		**FDF/HIR-Q350T2/4**	6	13250		3200	C-8	4.68						400	➶ 2, 12
375	T6	Special	115	**17608**		**HPL375/C 115V**	12	10540		3250	4-C8	4.17	2.37					300	12
				18189		**HPL375/LL/C 115V**	12	8000		3050	4-C8	4.17	2.37					1000	12
420	G7	2-Pin Pf (GY9.5)	120	**33934**		**EKB-Q420/4CL/2PP**	24	11000		3200	CC-6	2.5	1.43					75	12
500	T3	R7S	120	**23735**		**FDF-Q500T3/4CL**	12	13250		3200	C-8	4.68						400	2, 12
				23734	P2/31	**FDN-Q500T3/4**	12	12800		3200	C-8	4.68						400	2, 7, 12
	T4	Med Pf (P28s)	120	**39135**		**EGE-Q500CL/P**	12	10450		2950	CC-8	6	3.5					2000	12
		Mini-Cand (E11)	120	**47950**		**EVR-Q500CL/MC**	6	10450		2950	CC-8	3.62	2					2000	8, 12
	T6	Med Pf (P28s)	120	**11966**	T17	**BTL-Q500T6/CL/P**	12	11000		3000	C-13	5.25	2.18					500	3, 12
				16465		**BTM-Q500T64CL/2P**	12	13000		3200	C-13	5.25	2.18					150	3, 12
	T7	Med BiPost (G22)	120	**30373**		**EGN-Q500T8**	12	13000		3200	C-13	5.51	2.5					150	12
	T6	Med 2-Pin (G9.5)	120	**39768**		**EHD-Q500CL/TP**	24	10000		2900	CC-8	4.1	2.37					2000	12
				39789		**EHC-Q500/5CL**	24	12700		3150	CC-8	4.1	2.37					500	12
	T8	2-Pin Pf (GY9.5)	120	**39623**	CP82	**FRG-Q500T8**	24	13000		3200	C-13	3.54	1.81					150	3, 12
	T4	Med Pf (P28s)	120	**39134**		**EGC-Q500/5CL/P**	12	12700		3150	CC-8	6	3.5					500	12
525	T3	R7S	120	**20883**		**EJG/HIR-Q525T2 -1**	6	20600		3250	C-8	4.68						400	➶ 2, 12
550	T6	Special	115	**17607**		**HPL550/C 77 V**	12	16170		3250	4-C8	4.17	2.37					300	12
575	T6	Med 2-Pin (G9.5)	115	**39730**		**FLK/LL-Q575T6**	24	12800		2950	CC-8	4.1	2.37					1500	12
				11450		**FLK-Q575T6/4CL**	24	16500		3200	CC-8	4.1	2.37					300	12
				93428		**GLA-Q575T6/4CL**	24	13000		3050	C-13D	4.1	2.37					1500	12
				93429		**GLC-Q575T6/5CL**	24	14500		3200	C-13D	4.1	2.37					300	12
		Special	115	**92431**		**HPL575/C115V**	12	16500		3200	4C-8	4.2	2.37					300	12
				92434		**HPL575/LL/C 115V**	12	12360		3050	4C-8	4.2	2.37					1500	12
			120	**92433**		**HPL575/C 120V**	12	16520		3200	4C-8	4.2	2.37					300	12
				92435		**HPL575/LL/C 120V**	12	12360		3050	4C-8	4.2	2.37					2000	12
600	T5	2-Pin Pf (GY9.5)	120	**30475**		**FMR-Q600T5**	24	12600		3050	CC-8	3.4	2					2000	3, 12
650	G6	2-Pin Pf (GX9.5)	120	**34328**		**EKD-Q650/3CL/2PP**	24	20000		3300	CC-6	2.5	1.43					25	3, 12
	PAR36	Ferrule	120	**41668**		**FAY-Q650PAR36/3D**	12		36000	5000	C-7A	2.75				25	15	30	13
				41672		**FCW-Q650PAR36/6**	12		9000	3200	C-7A	2.75				60	55	100	13
				41673		**FCX-Q650PAR36/7**	12		24000	3200	C-7A	2.75				40	30	100	13
		Screw Term	120	**41667**		**DWE-Q650PAR36/1**	12		24000	3200		2.75				40	30	100	13
				41669		**FBE-Q650PAR36/5D**	12		36000	5000	C-7A	2.75				25	15	30	13
				41671		**FBO-Q650PAR36/5**	12		67000	3400	C-7A	2.75				25	15	30	13
	T3	R7S	120	**13895**		**FCM/HIR-Q650T3/4**	6	25200		3275	C-8	4.68						400	➶ 2, 12
	T4	R7S	120	**30325**	P2/6	**FAD-Q650T4/4CL**	24	16500		3200	CC-8	3.13						100	12
				30343	P2/6	**FBX-Q650T4/4**	24	16500		3200	CC-8	3.13						100	7, 12
	T8	2-Pin Pf (GY9.5)	120	**39637**	CP89	**FRK-Q650T8**	24	16900		3200	C-13	3.54	1.81					200	3, 12
675	T3	R7S	120	**20884**		**FFT/HIR-Q675T3/4**	6	26400		3250	C-8	6.56						400	➶ 2, 12
750	T3	R7S	120	**23756**		**EJG-Q750T3/4CL**	12	20600		3200	C-8	4.68						400	2, 12
				23755		**EMD-Q750T3/4**	12	19500		3200	C-8	4.68						400	2, 12
	T6	Med 2-Pin (G9.5)	120	**39771**		**EHF-Q750/4CL**	24	20000		3200	CC-8	4.1	2.37					300	12
				39770		**EHG-Q750CL/TP**	24	15000		3000	CC-8	4.1	2.37					2000	12
				92771		**GLD-Q750T6/4CL**	24	19000		3200	C-13D	4.1	2.37					300	12
				92773		**GLE-Q750T6/4CL**	24	17400		3050	C-13D	4.1	2.37					1500	12
		Med Pf (P28s)	120	**39136**		**EGF-Q750/4CL/P**	12	20400		3200	CC-8	6	3.5					300	12
				39137		**EGG-Q750CL/P**	12	15750		3000	CC-8	6	3.5					2000	12
		Special	115	**92432**		**HPL750/C 115V**	12	22000		3200	4-C-8	4.17	2.37					300	12
				92770		**HPL750/LL/C**	12	16400		3050	4-C-8	4.17	2.37					1500	12

Watts	Shape	Base	Volts	Order Code	LIF Code	Description	Case Qty.	Lumens Initial	CBCP	Color Temp. K	Filament Design	MOL	LCL	Beam Spread 10% Horiz.	Beam Spread 10% Vert.	Beam Spread 50% Horiz.	Beam Spread 50% Vert.	Rated Life Hours	Footnotes
QUARTZLINE® TUNGSTEN HALOGEN (CONTINUED)																			
750	T7	Med BiPost (G22)	120	**39190**		**EGR-Q750T7/4CL**	12	21000		3200	C-13D	5	2.5					200	1, 3, 12
		Med Pf (P28s)	120	**11953**		**BTN-Q750T7/CL/2P**	12	17600		3050	C-13D	4.75	2.18					500	1, 11, 12
				11954		**BTP-Q750T7/4CL2P**	12	21000		3200	C-13D	4.75	2.18					200	1, 11, 12
		Med 2-Pin (G9.5)	120	**39680**		**BWM-Q750T7/4CLTP**	6	21000		3200	C-13D	4.5	2.37					200	1, 3, 12
1000	PAR64	ExMogEndPr	120	**13233**		**FFN-Q1000PAR64/1**	6		400000	3200	C-7A	6		24	10	12	6	800	13
				13229		**FFP-Q1000PAR64/2**	6		330000	3200	C-7A	6		26	14	14	7	800	13
				13228		**FFR-Q1000PAR64/5**	6		125000	3200	C-7A	6		44	21	28	12	800	13
				13227		**FFS-Q1000PAR64/6**	6		40000	3200	C-7A	6		71	45	48	24	800	13
				13226		**FGM-Q1000PAR64/3**	6		200000	5200	C-7A	6		24	12	13	6	200	13
				13225		**FGN-Q1000PAR647D**	6		70000	5200	C-7A	6		43	20	27	11	200	13
	PS52	Mog (E39)	120	**39582**		**DKZ/DSE-Q1000PS5**	12	28000		3200	CC-8	13	9.5					750	1, 13
	ED37	Mog (E39)	120	**34377**		**DSE/Q1000**	10	28000		3200	CC-8	13	9.5					750	1, 13
	T3	R7S	120	**23797**	P2/28	**FCM-Q1000T3/4CL**	12	28000		3200	C-8	4.68						400	2, 12
				33280		**FFT-Q1000T3/1CL**	12	26400		3200	C-8	6.56						400	2, 12
				23792	P2/29	**FHM-Q1000T3/4**	12	27300		3200	C-8	4.68						400	2, 7, 12
			185	**23788**		**EJD-Q1000T3/3CL**	12	33600		3350	C-8	4.68						100	2, 12
	T5	R7S	120	**30157**		**DXW-Q1000T5/4CL**	24	28000		3200	CC-8	3.75						150	12
				30374		**FBY-Q1000T5/4**	24	26000		3200	CC-8	3.75						150	7, 12
	T6	Med 2-Pin (G9.5)	120	**39769**	CP77	**FEL-Q1000/4CL**	24	27500		3200	CC-8	4.1	2.37					300	10, 12
		Med Pf (P28s)	120	**38853**		**EGJ-Q1000/4CL/P**	12	27500		3200	CC-8	6	3.5					300	12
				38852		**EGK-Q1000/4/P**	12	26500		3200	CC-8	6	3.5					300	12
				39138		**EGM-Q1000CL/P**	12	21500		3000	CC-8	6	3.5					2000	12
		R7S	120	**33760**		**FER-Q1000T6/4CL**	6	27500		3200	CC-8	5.62						500	12
		Med 2-Pin (G9.5)	120	**35853**		**FCV-Q1000/4**	6	26500		3200	CC-8	4.1	2.37					375	10, 12
	T7	Med 2-Pin (G9.5)	120	**39792**		**BWN-Q1000T7/4CL**	24	28500		3200	C-13D	4.5	2.37					250	1, 3, 12
		Med Pf (P28s)	120	**11955**		**BTR-Q1000T74CL2P**	12	28500		3200	C-13D	4.75	2.18					250	1, 12
		Med BiPost (G22)	120	**39191**		**EGT-Q1000T7/4CL**	12	28500		3200	C-13D	5	2.5					250	1, 3, 12
		Mog BiPost (G38)	120	**42697**		**CYVQ1000T7/4CLBP**	6	28500		3200	C-13D	8	5					200	1, 3, 12
		Mog Pf (P40s)	120	**12554**		**BVT-Q1MT7/CL/MP**	6	24500		3050	C-13D	7.25	3.93					500	1, 3, 12
				12553		**BVV-Q1MT7/4CL/MP**	6	28500		3200	C-13D	7.25	3.93					200	1, 3, 12
1200	PAR64	ExMogEndPr	120	**34812**		**GFA-Q1200PAR64/5**	6		160000	3200	C-7A	6		22	36	13	24	400	13
				34810		**GFB-Q1200PAR64/2**	6		450000	3200	C-7A	6		16	18	8	10	400	13
				34808		**GFC-Q1200PAR64/1**	6		540000	3200	C-7A	6		14	16	8	10	400	13
1500	PS52	Mog (E39)	120	**40357**		**DKX/DSFQ1500PS52**	12	41000		3200	C-8	13						1000	1, 13
	ED37	Mog (E39)	120	**34378**		**DSF/Q1500**	10	41000		3200	C-8	13						1000	1, 13
	T4	R7S	120	**23841**		**FDB-Q1500T4/4CL**	12	41250		3200	C-8	6.56						400	2, 12
				41229		**FGT-Q1500T4/4**	12	40200		3200	C-8	6.56						400	2, 7, 12
	T8	Mog Pf (P40s)	120	**30522**		**DTA-Q1500T8/4CL**	6	41000		3200	C-13D	7.87	3.43					300	3, 12
	T10	Mog BiPost (G38)	120	**37564**		**CXZ-Q1500T10/4CL**	6	44500		3200	C-13	8.5	5					400	1, 3, 12
2000	T10	R7S	120	**39790**	P2/27	**FEY-Q2000T8/4CL**	12	57000		3200	CC-8	5.62						400	2, 12
	T8	Mog (E39)	120	**37086**		**BWF-Q2000/4CL**	6	54000		3200	CC-8	7.5	5.25					500	12
		Mog BiPost (G38)	120	**39587**		**BWA-Q2000/4CL/BP**	6	54000		3200	CC-8	8.25	5					500	3, 12
	T10	Mog BiPost (G38)	120	**36636**		**CYX-Q2000T10/4CL**	6	59000		3200	C-13	8.5	5					350	1, 3, 12
		Mog Pf (P40s)	120	**12555**	CP53	**BVWQ2MT10/4CL/MP**	6	59000		3200	C-13	8.46	3.93					350	3, 12
5000	T20	Mog BiPost (G38)	120	**41736**	CP29	**DPY-Q5000T20/4CL**	6	143000		3200	C-13	11	6.5					500	1, 4, 12
10000	T24	Mog BiPost (G38)	120	**24886**		**DTY-Q10M/T24/4CL**	4	290000		3200	C-13	15.75	10					300	1, 4, 12
12000	T26	GX38	120	**48770**		**Q12MT26/4CL 120V**	1	420000		3400	C-13	16.14	10					150	4, 12
QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE																			
575	T6	Special	230	**37128**		**HPL575**	12	14900		3200	6C-8	4.2	2.37					300	12
				37817		**HPL575/LL 230V**	12	11780		3050	6C-8	4.2	2.37					1500	12

For the most up-to-date product information, see www.gelighting.com. To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts. All footnote references found at the end of this section. Reduced Wattage High Color Rendering

Watts	Shape	Base	Volts	Order Code	LIF Code	Description	Case Qty.	Lumens Initial	CBCP	Color Temp. K	Filament Design	MOL	LCL	Beam Spread 10% Horiz.	Beam Spread 10% Vert.	Beam Spread 50% Horiz.	Beam Spread 50% Vert.	Rated Life Hours	Footnotes
QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE (CONTINUED)																			
600	T6	Med 2-Pin (G9.5)	230	**39739**		**GKV-Q575T6/4CL**	24	14000		3200	C-13	4.1	2.37					250	12
750	T6	Special	230	**37824**		**HPL750**	12	19750		3200	6C-8	4.2	2.37					300	12
1000	T6	Med 2-Pin (G9.5)	230	**39738**	CP77	**FEP-Q1000T6/4CL**	24	25000		3200	CC-8	4.1	2.37					300	12
	PAR64	ExMogEndPr	240	**10925**		**EXC-Q1MPAR64CP60**	6		352000	3200	C-7A	6		20	17	12	9	300	13
				10929		**EXD-Q1MPAR64CP61**	6		297000	3200	C-7A	6		22	20	14	10	300	13
				10931		**EXE-Q1MPAR64CP62**	6		138000	3200	C-7A	6		38	20	24	11	300	13
2000	T10	R7S	230	**35338**	P2/27	**FEX-Q2MT8/4CL**	12	50000		3200	CC-8	5.62						300	2, 12
12000	T26	GX38	230	**48771**		**Q12MT26/4CL 230V**	1	420000		3400	C-13	16.14	10					130	4, 12
			240	**48779**		**Q12MT264/CL 240V**	1	420000		3400	C-13	16.14	10					130	4, 12
20000	T32	GX38	208	**48772**		**BCM Q20MT32/4CL**	1	580000		3200	C-13	22.05	13.94					400	4, 12
			220	**48773**		**BCM Q20MT32/4CL**	1	580000		3200	C-13	22.05	13.94					400	4, 12
			240	**48774**		**BCM Q20MT32/4CL**	1	580000		3200	C-13	22.05	13.94					400	4, 12
24000	T32	GX38	220	**48776**		**Q24MT32/4CL 220V**	1	800000		3400	C-13	22.05	13.94					150	4, 12
			240	**48777**		**Q24MT32/4CL 240V**	1	800000		3400	C-13	22.05	13.94					150	4, 12
CINEMA LAMPS																			
FLUORESCENT LAMPS																			
15	T8	Medium BiPin (G13)		**15722**		**F15T8/CINEMA32**	24	720		3200		18						8000	
				15723		**F15T8/CINEMA55**	24	700		5500		18						8000	
17	T8	Medium BiPin (G13)		**15724**		**F17T8/CINEMA32**	24	800		3200		24						20000	
				15725		**F17T8/CINEMA55**	24	770		5500		24						20000	
20	T12	Medium BiPin (G13)		**15558**		**F20T12/CINEMA32**	24	780		3200		24						10000	
				15710		**F20T12/CINEMA55**	24	760		5500		24						10000	
30	T12	Medium BiPin (G13)		**15714**		**F30T12/CINEMA32**	24	1450		3200		36						18000	
				15715		**F30T12/CINEMA55**	24	1400		5500		36						18000	
32	T8	Medium BiPin (G13)		**47868**		**F32T8/CINEMA32**	36	1800		3200		48						20000	
				47869		**F32T8/CINEMA55**	36	1750		5500		48						20000	
35	T12	Medium BiPin (G13)		**15712**		**F20T12/CINEMA32/HO**	24	1130		3200		24						7500	
				15713		**F20T12/CINEMA55/HO**	24	1100		5500		24						7500	
40	T12	Medium BiPin (G13)		**47857**		**F40T12/CINEMA32**	30	2000		3200		48						20000	
				47864		**F40T12/CINEMA55**	30	1950		5500		48						20000	
60	T12	Medium BiPin (G13)		**15716**		**F40T12/CINEMA32/HO**	30	2900		3200		48						15000	
				15717		**F40T12/CINEMA55/HO**	30	2820		5500		48						15000	
85	T12	Medium BiPin (G13)		**15718**		**F72T12/CINEMA32/HO**	15	4150		3200		72						15000	
				15719		**F72T12/CINEMA55/HO**	15	4050		5500		72						15000	
110	T12	Medium BiPin (G13)		**15720**		**F96T12/CINEMA32/HO**	15	5800		3200		96						15000	
				15721		**F96T12/CINEMA55/HO**	15	5650		5500		96						15000	
FLUORESCENT COVRGUARD® LAMPS																			
15	T8	Medium BiPin (G13)		**15800**		**F15T8/CINEMA32/CVG**	24	720		3200		18						8000	
				15801		**F15T8/CINEMA55/CVG**	24	700		5500		18						8000	
17	T8	Medium BiPin (G13)		**15806**		**F17T8/CINEMA32/CVG**	24	800		3200		24						20000	
				15810		**F17T8/CINEMA55/CVG**	24	770		5500		24						20000	
20	T12	Medium BiPin (G13)		**15766**		**F20T12/CINEMA32/CVG**	24	780		3200		24						10000	
				15774		**F20T12/CINEMA/55CVG**	24	760		5500		24						10000	
30	T12	Medium BiPin (G13)		**15779**		**F30T12/CINEMA32/CVG**	24	1450		3200		36						18000	
				15780		**F30T12/CINEMA/55/CVG**	24	1400		5500		36						18000	
32	T8	Medium BiPin (G13)		**47881**		**F32T8/CINEMA32/CVG**	36	1800		3200		48						20000	
				47882		**F32T8/CINEMA55/CVG**	36	1750		5500		48						20000	
35	T12	Medium BiPin (G13)		**15775**		**F20T12/CINEMA32/HO/CVG**	24	1130		3200		24						7500	
				15776		**F20T12/CINEMA55/HO/CVG**	24	1100		5500		24						7500	

Watts	Shape	Base	Volts	Order Code	LIF Code	Description	Case Qty.	Lumens Initial	CBCP	Color Temp. K	Filament Design	MOL	LCL	Beam Spread 10% Horiz.	Beam Spread 10% Vert.	Beam Spread 50% Horiz.	Beam Spread 50% Vert.	Rated Life Hours	Footnotes
CINEMA LAMPS (CONTINUED)																			
FLUORESCENT COVRGUARD® LAMPS (CONTINUED)																			
40	T12	Medium BiPin (G13)		**47876**		**F40T12/CINEMA32/CVG**	30	2000		3200		48						20000	
				47877		**F40T12/CINEMA55/CVG**	30	1950		5500		48						20000	
60	T12	Medium BiPin (G13)		**15782**		**F40T12/CINEMA32/HO/CVG**	30	2900		3200		48						15000	
				15783		**F40T12/CINEMA55/HO/CVG**	30	2820		5500		48						15000	
85	T12	Medium BiPin (G13)		**15785**		**F72T12/CINEMA32/HO/CVG**	15	4150		3200		72						15000	
				15786		**F72T12/CINEMA55/HO/CVG**	15	4050		5500		72						15000	
110	T12	Medium BiPin (G13)		**15794**		**F96T12/CINEMA32/HO/CVG**	15	5800		3200		96						15000	
				15798		**F96T12/CINEMA55/HO/CVG**	15	5650		5500		96						15000	
FLUORESCENT BIAX®																			
36	T5	2G11-4 Pin		**15816**		**F36BX/CINEMA32**	10	2900		3200		21.1						8000	
				15819		**F36BX/CINEMA56**	10	2900		5600		21.1						8000	
55	T5	2G11-4 Pin		**15811**		**F55BX/CINEMA32**	10	4100		3200		21.1						8000	
				15814		**F55BX/CINEMA56**	10	4100		5600		21.1						8000	
				22084		**F55BX/CINPLUS/32**	10	2400		3200		21.1						8000	
				22085		**F55BX/CINPLUS/56**	10	2400		5600		21.1						8000	

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Stnd. Pack Qty.	Base	Volts	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	CIE Color x	CIE Color y	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn (mm)	Position
CSR METAL HALIDE LAMPS																		
DISCHARGE-CSR/CSD (DAYLIGHT) METAL HALIDE, SINGLE-ENDED COLD START																		
250	T7	**CSD250/2/SE**	14, 63	**27817**	10	GY9.5	90	18000	8500	65+	.289	.305	5	2000				Any
575	T9	**CSR575/2/T/SE**	14, 63	**49492**	10	GX9.5	97	49000	7200	80+	.302	.320	7	1000	65	12		Any
		CSR575/2/SE	14, 63	**15378**	10	GX9.5	97	49000	7200	80+	.302	.320	7	1000	65	125		Any
700	T9	**CSR700/2/SE**	14, 63	**49491**	10	G22	70	55000	7200	80+	.302	.320	8	1000	75	155		Any
1200	T12	**CSR1200/2/SE**	14, 63	**49490**	6	G22/30X53	100	110000	7200	85+	.302	.320	10	800	85	175		Any
DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED SHORT ARC																		
700	G7	**CSR700/SA**	14, 63	**15380**	6	GY9.5	70	58000	5600	75+	.330	.342	4	500	39	85		Any
1200	G9	**CSR1200/SA**	14, 18, 63	**21849**	6	GY22	100	100000	5800	80+	.326	.330	7	750	59	135		Any
1800	G9	**CSR2000/SA**	14, 18, 63	**21801**	4	GY22	100	155000	6000	80+	.320	.330	7	750	59	135		Any
DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED HOT RESTRIKE																		
125	T5	**CSR125/SE/HR**	14, 63	**48461**	10	GZX9.5	80	9400	5600	90+	.323	.328	4	200	39	75		Any
200	T6	**CSR200/SE/HR**	14, 63	**48462**	10	GZY9.5	70	15000	5600	90+	.323	.328	5	200	39	80		Any
400	T6	**CSR400/SE/HR**	14, 18, 63	**21853**	10	GZZ9.5	70	32000	6000	90+	.323	.328	6	750	60	110		Any
575	T9.5	**CSR575/SE/HR**	14, 63	**48463**	10	G22	95	48000	6000	90+	.323	.328	7	750	70	145		Any
1200	T13	**CSR1200/SE/HR**	14, 63	**48464**	6	G38	100	110000	6000	90+	.323	.328	11	750	107	200		Any
2500	T19.5	**CSR2500/SE/HR**	14, 63	**48465**	6	G38	100	220000	6000	90+	.323	.328	14	500	127	240		Any
4000	T24	**CSR4000/SE/HR**	14, 63	**48466**	6	G38	200	380000	6000	90+	.323	.328	20	500	142	260		Any
6000	T26.5	**CSR6000/SE/HR**	14, 63	**48467**	6	G38	130	540000	6000	90+	.323	.328	24	300	210	360		Any
12000	T32	**CSR12000/SE/HR**	14, 63	**48468**	4	G38	160	1100000	6000	90+	.323	.328	28	250	255	450		Any
18000	T32	**CSR18000/SE/HR**	14, 63	**22496**	1	G51	225	1650000	6000	90+	.323	.328	35	250	260	460		Any
DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, DOUBLE-ENDED HOT RESTRIKE																		
200	T4.5	**CSR200/DE**	14, 63	**48450**	10	X515	80	16000	6000	90+	.323	.325	8	300		75		H15
400	T6.5	**CSR400/S/DE**	14, 63	**22478**	10	SFc 10-4 SI/M4	49	26000	7500	80+	.323	.325	3	750		135		Any
575	T6.5	**CSR575/DE**	14, 63	**48451**	10	SFc 10-4 SI/M4	95	49000	6000	90+	.323	.325	7	750		145		Any
700	T6.5	**CSR700/S/DE**	14, 63	**22493**	10	SFc 10-4 SI/M4	70	59000	6000	85+	.323	.325	4	750		135		Any
1200	T6.5	**CSR1200/S/DE**	14, 63	**22494**	10	SFc 10-4 SI/M4	100	110000	6000	90+	.323	.325	7	500		145		H15
	T8.5	**CSR1200/DE**	14, 63	**48453**	6	SFc 15.5-6 SI/M6	100	110000	6000	90+	.323	.325	10	750		220		Any
2500	T9.5	**CSR2500/DE**	14, 63	**48454**	6	Sfa21-12	115	240000	6000	90+	.323	.325	14	500		355		Any
4000	T12	**CSR4000/DE**	14, 63	**48455**	6	Sfa21-12	200	410000	6000	90+	.323	.325	34	500		405		H15
6000	T16	**CSR6000/DE**	14, 63	**48456**	6	25x51 Cyl 165mm	125	570000	6000	90+	.323	.325	24	300		450		H15
12000	T22.5	**CSR12000/DE**	14, 63	**48457**	4	30x70 Cyl 165mm	160	1100000	6000	90+	.323	.325	32	300		470		H15
18000	T28	**CSR18000/DE**	14, 63	**48459**	4	30x70 Cyl 165mm	225	1650000	6000	90+	.323	.325	45	300		500		H15
		CSR18000/S/DE	14, 63	**48460**	4	30x70 Cyl 165mm	225	1650000	6000	90+	.323	.325	45	300		470		H15
CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED HOT RESTRIKE UV-CONTROL																		
575	T9.5	**CSR575/SE/HR/UV-C**	14, 63	**40460**	10	G22	95	48000	5800	90+	.323	.328	7	750	70	145		Any
800	T9.5	**CSR800/SE/HR/UV-C**	14, 63	**22495**	10	G22	95	64000	5800	90+	.325	.327	7	1000	70	145		Any
1200	T13	**CSR1200/SE/HR/UV-C**	14, 63	**27764**	6	G38	100	110000	5800	90+	.323	.328	11	750	107	200		Any
2500	T19.5	**CSR2500/SE/HR/UV-C**	14, 63	**40482**	6	G38	100	220000	5800	90+	.323	.328	14	500	127	240		Any
4000	T24	**CSR4000/SE/HR/UV-C**	14, 63	**27765**	6	G38	200	380000	5800	90+	.323	.328	20	500	142	260		Any
6000	T26.5	**CSR6000/SE/HR/UV-C**	14, 63	**40492**	6	G38	130	540000	5800	90+	.323	.328	24	300	210	360		Any

STAGE AND STUDIO ANSI CODES REFERENCE

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES			
BCM	48772	BCM Q20MT32/4CL	208
BCM	48773	BCM Q20MT32/4CL	220
BCM	48774	BCM Q20MT32/4CL	240
BTL	11966	BTL-Q500T6/CL/P	120
BTM	16465	BTM-Q500T64CL/2P	120
BTN	11953	BTN-Q750T7/CL/2P	120
BTP	11954	BTP-Q750T7/4CL2P	120
BTR	11955	BTR-Q1000T74CL2P	120
BVT	12554	BVT-Q1MT7/CL/MP	120
BVV	12553	BVV-Q1MT7/4CL/MP	120
BVW	12555	BVWQ2MT10/4CL/MP	120
BWA	39587	BWA-Q2000/4CL/BP	120
BWF	37086	BWF-Q2000/4CL	120
BWM	39680	BWM-Q750T7/4CLTP	120
BWN	39792	BWN-Q1000T7/4CL	120
CXZ	37564	CXZ-Q1500T10/4CL	120
CYV	42697	CYVQ1000T7/4CLBP	120
CYX	36636	CYX-Q2000T10/4CL	120
DKX	40357	DKX/DSFQ1500PS52	120
DKZ	39582	DKZ/DSE-Q1000PS5	120
DPY	41736	DPY-Q5000T20/4CL	120
DSE	34377	DSE/Q1000	120
DTA	30522	DTA-Q1500T8/4CL	120
DTY	18305	DTY-Q10M/T24/4CL	120
DWE	41667	DWE-Q650PAR36/1	120

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES			
DXW	30157	DXW-Q1000T5/4CL	120
EGC	39134	EGC-Q500/5CL/P	120
EGE	39135	EGE-Q500CL/P	120
EGF	39136	EGF-Q750/4CL/P	120
EGG	39137	EGG-Q750CL/P	120
EGJ	38853	EGJ-Q1000/4CL/P	120
EGK	38852	EGK-Q1000/4/P	120
EGM	39138	EGM-Q1000CL/P	120
EGN	30373	EGN-Q500T8	120
EGR	39190	EGR-Q750T7/4CL	120
EGT	39191	EGT-Q1000T7/4CL	120
EHC	39789	EHC-Q500/5CL	120
EHD	39768	EHD-Q500CL/TP	120
EHF	39771	EHF-Q750/4CL	120
EHG	39770	EHG-Q750CL/TP	120
EJD	23788	EJD-Q1000T3/3CL	185
EJG	20883	EJG/HIR-Q525T2 -1	120
EJG	23756	EJG-Q750T3/4CL	120
EKB	33934	EKB-Q420/4CL/2PP	120
EKD	34328	EKD-Q650/3CL/2PP	120
EMD	23755	EMD-Q750T3/4	120
EVR	47950	EVR-Q500CL/MC	120
EXC	93409	EXC-Q1MPAR64CP60	230
EXC	10925	EXC-Q1MPAR64CP60	240
EXD	10928	EXD-Q1MPAR64CP61	230

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES			
EXD	10929	EXD-Q1MPAR64CP61	240
EXE	10930	EXE-Q1MPAR64CP62	230
EXE	10931	EXE-Q1MPAR64CP62	240
FAD	30325	FAD-Q650T4/4CL	120
FAY	41668	FAY-Q650PAR36/3D	120
FBE	41669	FBE-Q650PAR36/5D	120
FBO	41671	FBO-Q650PAR36/5	120
FBX	30343	FBX-Q650T4/4	120
FBY	30374	FBY-Q1000T5/4	120
FCM	13895	FCM/HIR-Q650T3/4	120
FCM	23797	FCM-Q1000T3/4CL	120
FCV	35853	FCV-Q1000/4	120
FCW	41672	FCW-Q650PAR36/6	120
FCX	41673	FCX-Q650PAR36/7	120
FDB	23841	FDB-Q1500T4/4CL	120
FDF	20881	FDF/HIR-Q350T2/4	120
FDF	23735	FDF-Q500T3/4CL	120
FDN	23734	FDN-Q500T3/4	120
FEL	39769	FEL-Q1000/4CL	120
FEP	39738	FEP-Q1000T6/4CL	230
FER	33760	FER-Q1000T6/4CL	120
FEV	14119	FEV-Q200/4CL/DC	120
FEX	35338	FEX-Q2MT8/4CL	230
FEY	39790	FEY-Q2000T8/4CL	120
FFN	13233	FFN-Q1000PAR64/1	120

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES			
FFP	13229	FFP-Q1000PAR64/2	120
FFR	13228	FFR-Q1000PAR64/5	120
FFS	13227	FFS-Q1000PAR64/6	120
FFT	20884	FFT/HIR-Q675T3/4	120
FFT	33280	FFT-Q1000T3/1CL	120
FGM	13226	FGM-Q1000PAR64/3	120
FGN	13225	FGN-Q1000PAR647D	120
FGT	41229	FGT-Q1500T4/4	120
FHM	23792	FHM-Q1000T3/4	120
FKW	39781	FKW-Q300T8	120
FLK	39730	FLK/LL-Q575T6	115
FLK	11450	FLK-Q575T6/4CL	115
FMR	30475	FMR-Q600T5	120
FRG	39623	FRG-Q500T8	120
FRK	39637	FRK-Q650T8	120
GFA	34812	GFA-Q1200PAR64/5	120
GFB	34810	GFB-Q1200PAR64/2	120
GFC	34808	GFC-Q1200PAR64/1	120
GKV	39739	GKV-Q575T6/4CL	230
GLA	93428	GLA-Q575T6/4CL	115
GLC	93429	GLC-Q575T6/5CL	115
GLD	92771	GLD-Q750T6/4CL	120
GLE	92773	GLE-Q750T6/4CL	120

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES (SEE SECTION – HALOGEN)			
DVS	23733	Q500T3/CL-DVS	130
EHM	43703	Q300T3/CL-EHM	120
EHP	43705	Q300T4/CL-EHP	120
EHR	43708	Q400T4/CL-EHR	120
EHT	43699	Q250CL/MC-EHT	120
EHZ	43704	Q300T3-EHZ	120
ESL	44383	Q150CL/MC/2V-ESL	120
ESM	43695	Q250MC-ESM	120
ESN	44385	Q100CL/MC/2V-ESN	120
ESP	44384	Q150CL/DC/2V-ESP	120
ESR	44386	Q100CL/DC/2V-ESR	120
ESS	43697	Q250CL/DC-ESS	120
ETB	43701	Q250DC-ETB	120
ETC	43693	Q150CL/DC-ETC	120
ETD	44657	Q100DC/2V-ETD	120
ETE	44656	Q100MC/2V-ETE	120
ETF	44653	Q150DC-ETF	120
ETG	43694	Q150CL/MC-ETG	120
ETH	44654	Q150MC-ETH	120
FCL	23731	Q500T3/CL-FCL	120

FOOTNOTES

 # Footnote

1 Filament with low noise construction.
2 Burn position horizontal ±4 degrees.
3 Burn position base down to horizontal.
4 Burning position vertical base down ±45 degrees.
5 Burning position horizontal ±15 degrees.
6 Enclosed fixture only per UL standard 1572. In accordance to Federal Regulations (21CFR 1040.30) the following notice applies.
WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or puntured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamp that will automatically extinguish when the outer envelope is broken or puntured are commercially available.
7 Frosted. Apparent lighted length slightly longer than similar clear lamp.
8 Life dependent on service conditions; for use only in equipment specially designed to maintain bulb and base temperatures within safe limits.
9 Available late 2003.
10 To avoid possible overheating, this lamp is not recommended for use without force-cooling in deep-bowled fixtures.
11 Burn vertical base down ± 30 degrees.

12

Safety Notice for exposed unshielded lamps
(if shielded fixture use footnote 13)

⚠ WARNING

Risk of electrical shock

- Turn power off before inspection,installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

Lamp emits UV ratiation which may cause eye/skin irritation. RG-2.

- Limit unshielded exposure to less than 15 minutes per day

13

Safety Notice for PAR lamps and enclosed, shielded lamps

⚠ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass is broken. Remove and dispose of lamp

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

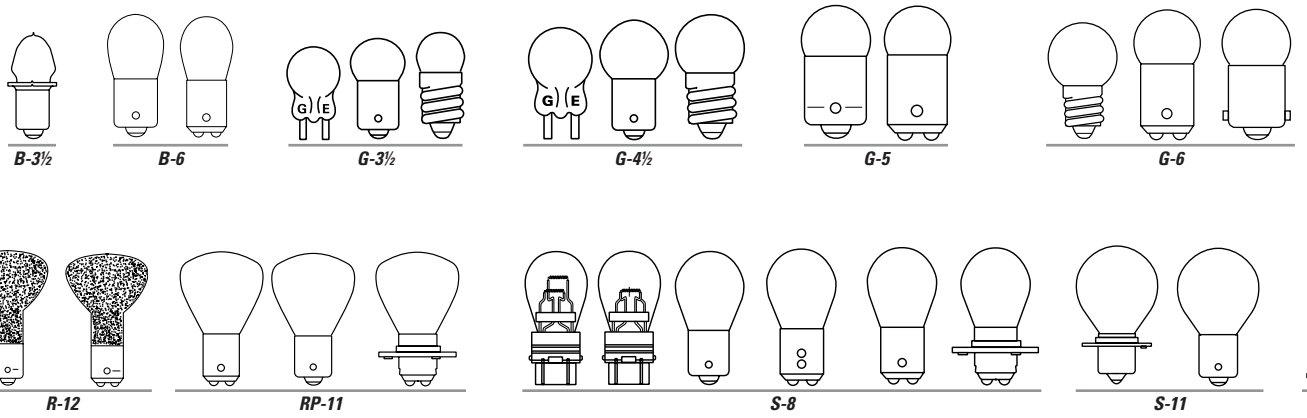
Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

NOTES

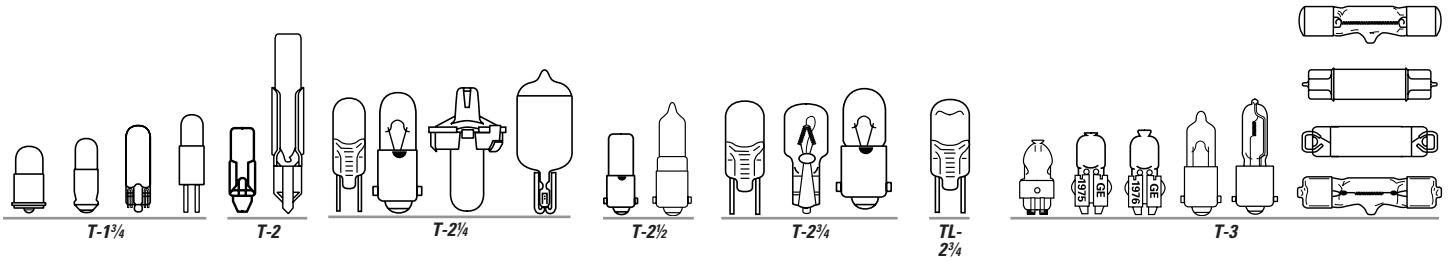
LAMP LOCATOR

The lamps listed here are not to scale. To determine the diameter of a bulb in inches, multiply the bulb number by one-eighth.
For example T-2 means approximately ⅜" or ¼" diameter.

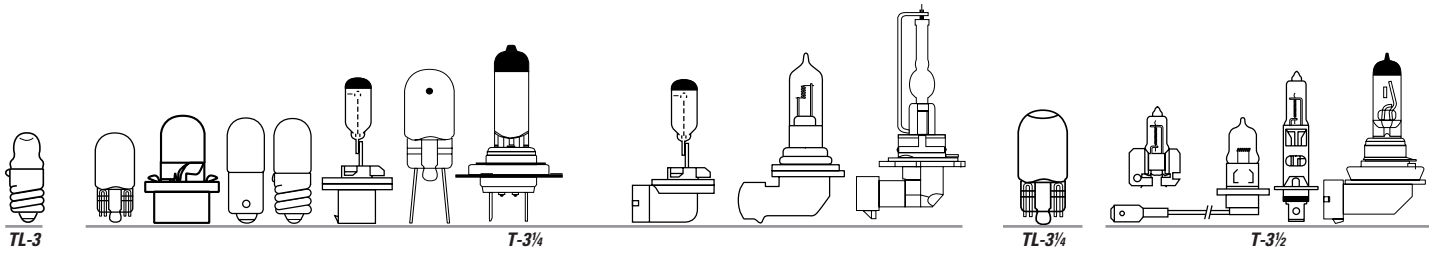


B-3½ B-6 G-3½ G-4½ G-5 G-6

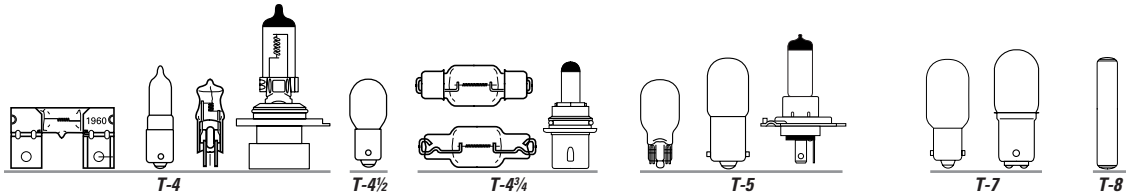
R-12 RP-11 S-8 S-11 T-1



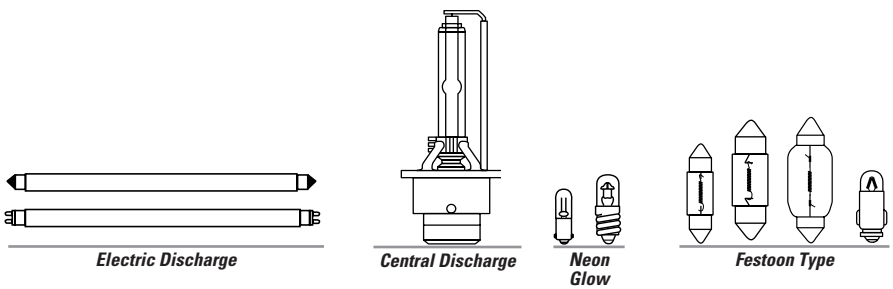
T-1¾ T-2 T-2¼ T-2½ T-2¾ TL-2¾ T-3



TL-3 T-3¼ TL-3¼ T-3½



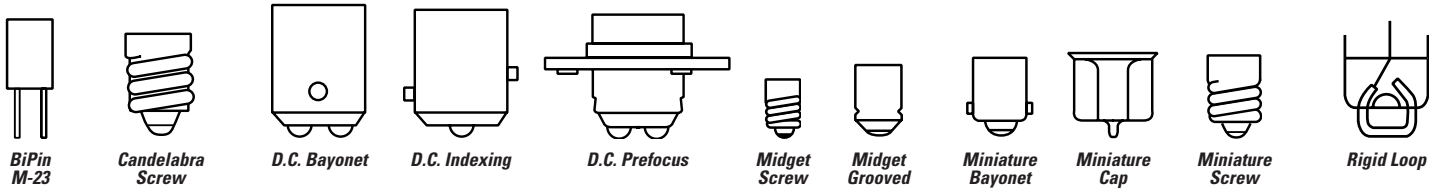
T-4 T-4½ T-4¾ T-5 T-7 T-8



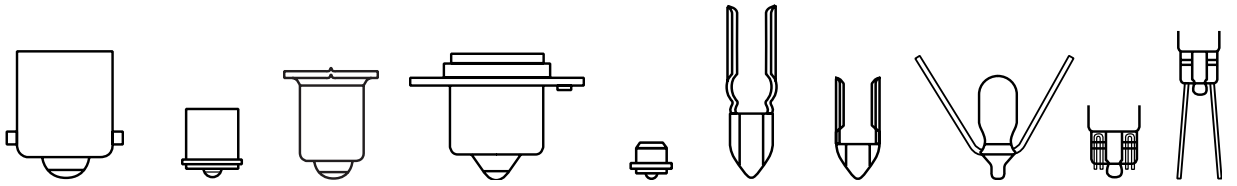
Electric Discharge Central Discharge Neon Glow Festoon Type

MINIATURE BASES

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types when vibration is present. In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.



BiPin M-23 | *Candelabra Screw* | *D.C. Bayonet* | *D.C. Indexing* | *D.C. Prefocus* | *Midget Screw* | *Midget Grooved* | *Miniature Bayonet* | *Miniature Cap* | *Miniature Screw* | *Rigid Loop*

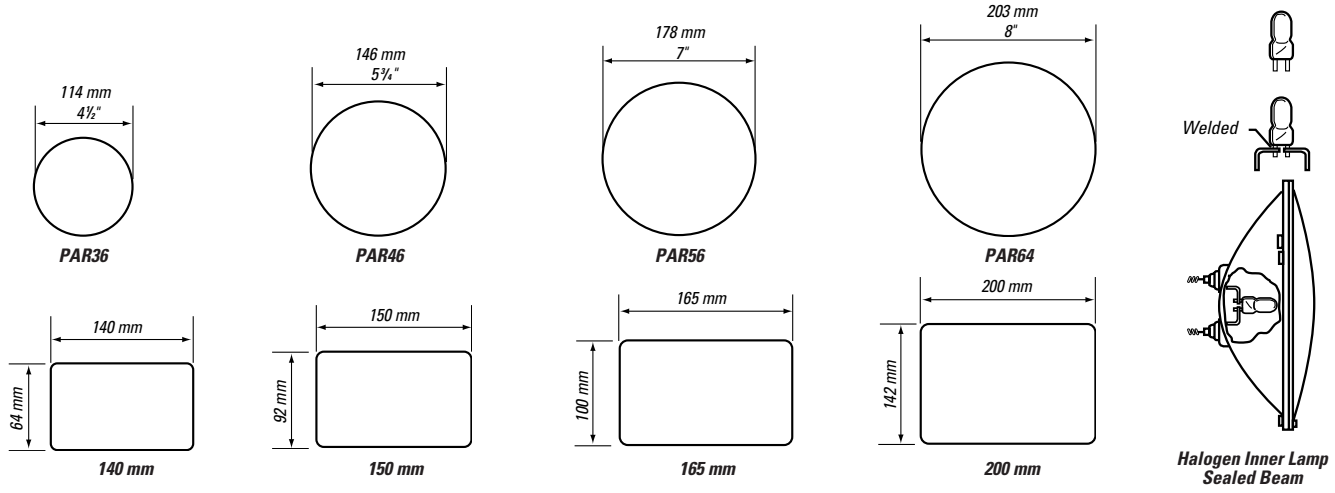


S.C. Bayonet | *S.C. Midget Flanged* | *S.C. Miniature Flanged* | *S.C. Prefocus* | *Sub-Midget Flanged* | *Tel. Slide No. 3* | *Tel. Slide No. 5* | *Wire Terminal (Up Position)* | *Wedge* | *Wedge Extended Leads*

S.C. AND D.C. PREFOCUSED BASE LAMPS

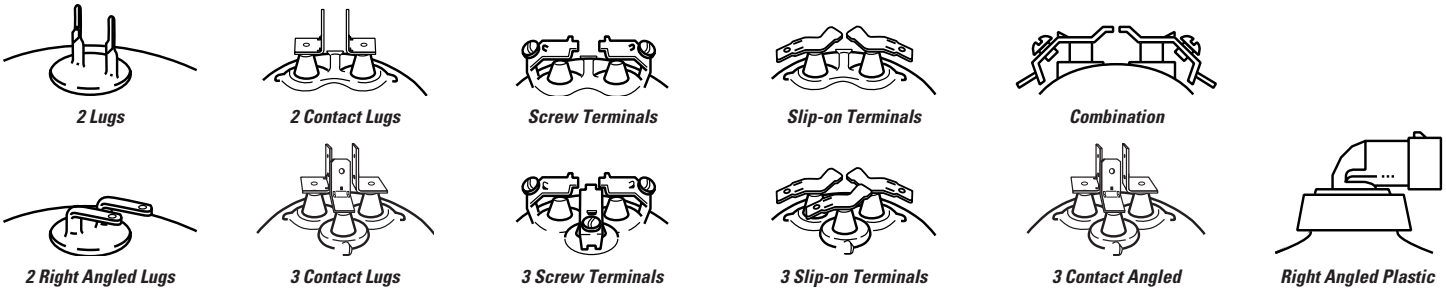
The letter "A" following the base type designates that the distance from the bottom of the collar to the bottom of the base contact is $^{13}/_{32}$". For "B" bases this distance is $^{9}/_{16}$". The few lamps identified by the letter "S" in the "Base" column are special in that the collar location and/or the orientation of the contacts differs from the above.

SEALED BEAM LAMPS



SEALED BEAM BASES

Bases provide electrical contact to the lamp. The most common bases for sealed beam lamps are the screw terminal and contact lug types. Other types are also available, as illustrated.



2 Lugs | *2 Contact Lugs* | *Screw Terminals* | *Slip-on Terminals* | *Combination*

2 Right Angled Lugs | *3 Contact Lugs* | *3 Screw Terminals* | *3 Slip-on Terminals* | *3 Contact Angled* | *Right Angled Plastic*

INTRODUCTION

GE MINIATURE AND SEALED BEAM PRODUCT ORDERING INFORMATION

GE Miniature and Sealed Beam Lamps are designed for those applications requiring specific bulb size, base, and voltage. These lamps are operated on vehicles (cars, trucks, boats, aircraft, tractors) or in special applications utilizing low voltage sources. Most lamps are designated by common ANSI (American National Standards Institute) lamp numbers and lamps in this section are arranged in numerical order. To assist you in identifying lamps, drawings (not to scale) are provided, along with descriptions of bulb and base sizes.

Specific market segments covered in this section are products used in:

Aircraft	Emergency Building Lighting	Marine
Automotive	Flashlight/Hand Lanterns	Medical/Instruments
Agriculture	Garden/Outdoor	Telephone
CIM/Tractor	Indicator	Toys/Entertainment

For additional specifications refer to **Miniature and Sealed Beam Catalog** obtained through your GE Sales Office. **Automotive Selection Guide** also available.

FINDING AND ORDERING A LAMP

Most Miniature Lamps have a number on the base or bulb. Generally it will match the lamp number in this catalog, which is sorted in numeric order (prefixes last). The catalog is divided into Miniature and Sealed Beam sections. Sealed Beam lamps start on page 7-16. Often the first prefix is another lamp manufacturer's identification and can be ignored. You can verify the lamp using the drawings provided. Order codes for Blister, Unit, and Bulk Pack for OEM's are provided.

FORMULAS

The following are commonly used formulas to assist any calculations you may need. For further information, contact your GE Lamp Representative.

- Watts = Volts x Amps
- Kelvin = Celsius + 273
- Hot Resistance (Ohms) = Volts/Amps
- Lumens = 12.57 x Mean Spherical Candlepower
- Footcandles = Candlepower/Distance squared (miniature lamps only)

ABBREVIATIONS

The abbreviations used in this catalog include:

A	Amperes	**C.I.M.**	Construction & Industrial Machinery
ANSI	American National Standards Institute	**C.P.**	Candlepower
Bay.	Bayonet	**Cand.**	Candelabra
D.C.	Double Contact	**PAR**	Parabolic Aluminized Reflector
ECE	European Common Market (European Motor Vehicle Standards)	**Pf.**	Prefocus
		SAE	Society of Automotive Engineers (US Motor Vehicle Standards)
Flg.	Flanged	**Sc.**	Screw
HID	High Intensity Discharge	**S.C.**	Single Contact
HIR	Halogen Infrared	**Spec.**	Special
LCL	Light Center Length	**Tel.**	Telephone
Min.	Miniature	**Term.**	Terminals
MOL	Maximum Overall Length	**V**	Volts
MSCP	Mean Spherical Candlepower	**W**	Watts
Nom.	Nominal		

GE MINIATURE LAMP PREFIXES

DE	Double-Ended
H	Halogen
K	Krypton Gas
PC	Printed Circuit Application
PR	Prefocus Base (E.G., "Flashlight Lamp")
Q	Quartz Halogen
SE	Single-Ended
W,T,R,C,P	European Designation

GE MINIATURE LAMP SUFFIXES

A	Amber
AF	All Frost (on outside)
AS10	Ages and Selected (for candlepower)
B	Blue
C1	Refers to a range of current on telephone lamps (A1, B1, D1, E1, etc. used also)
CW	Cool White (aircraft lighting)
D	Lead Wires Down
E	Extended Lead Wires
E-1	Different lead wire material (NI plated)
G	Green
HD	Heavy Duty
HIR	Halogen Infrared
HO	High Output
K	Unique Base
KR	Krypton Fill
L, XL, LL	Long Life
MB	Miniature Bayonet
NA	Natural Amber (automotive lighting)
PSB	Pilot Indicator/Short Base
R	Red
SB	Silver Bowl (all or some portion of bulb is silver)
TY	Letters after a quartz halogen lamp mean a deviation from the standard lamp - usually refers to the electrical terminals
U	Lead wires up or no base, e.g., unbased sealed beam lamp
WW	Warm White (aircraft lighting)
X	Indicates some arbitrary deviation from the normal product
Y	Yellow
-1	Slip on terminals
-2	Represents various deviations
-3	Represents deviations (e.g. combination terminal)
W	European Designation (Watts)

MSCP/MBCP
Approximate output expressed as initial mean spherical candlepower (see lumen conversion). For sealed beam MBCP is the maximum intensity of the beam in candelas, generally in the beam's center, and spread is beam size expressed in degrees.

Filament Design
C=coiled, CC=coiled coil, -6=horizontal, -8=vertical to base. See Miniature and Sealed Beam Catalog for all variations.

MOL:
In inches from the top of the bulb to the bottom of the base.

Primary Application:
Current uses of the lamp in general. Lamps are used in other applications than listed.

GE Lamp No.:
In nearly all cases lamps are marked with a General Electric Trade Number recorded with the ANSI. See glossary of prefixes and suffixes above.

Amps or Watts
Energy used expressed as amperes (A) or watts (W) at design voltage.

Bulb:
The prefix letter describes the shape and the number is the approximate bulb diameter.

Rated Life
Lamp burning hours to medium life expectancy.

Order Code:
Use this code when ordering to ensure that you receive the exact product you require.

Case Qty.
*Quantity of lamps per case if blister pack (BP), unit, or bulk (OEM's).**

Volts:
Voltage at which the lamp is designed to provide the amperes, candlepower, and laboratory life characteristics.

Base:
Base types are depicted on the previous pages for both Miniature and Sealed Beam.

LCL
Distance in inches between base reference plane and filament center.

Safety Footnotes
See page 7-21 for explanation.

MINIATURE LAMPS

Order Code Blister	Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
40848	**14132**		/10/540	**862**	Tractor	12.8	2.93A	60	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	1,900	306

T-2 is Tubular approximately ⅜" in diameter. Sealed Beam bulb sizes are also in eighths of an inch if round (PAR). PAR36 is 4⅝" or 4½" in diameter. If the Sealed Beam is rectangular in shape the longest side is measured in millimeters. A 165mm Sealed Beam measures 6½" (165mm) across the top.

T 3¼

Identifies the shape (S=Pear, T=Tubular, G=Globe, R=Reflector)

Identifies the approximate bulb diameter in eighths of an inch.

* Miniature Incandescent BP is 2 lamps, Miniature Halogen BP is 1 lamp, selected miniature headlamps available in 2 pack BP; PC not shown.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.

Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
MINIATURE LAMPS															
	25312		/50/	**10**	Indicator	2.50	.50A	.5	G-3½	Miniature Two Pin	C-6	.62	.94	3,000	69
	25319		/50/	**12**	Radio	6.30	.15A	.35	G-3½	Miniature Two Pin	C-6	.62	.94	5,000	44, 69
	25331		/50/	**13**	Flashlight – 3D Cells	3.70	.30A	.98	G-3½	Miniature Screw	C-2R	.72	.94	15	116
	25354		/50/	**14**	Flashlight – 2D Cells	2.47	.30A	.5	G-3½	Miniature Screw	C-2R	.72	.94	15	116
	25371		/50/	**15**	Indicator	7.0	.40A	2	G-4½	Miniature Two Pin	C-6	.69	1.07	500	69
	25377	**25379**	/50/1000	**19**	Toy Train	14.4	.10A	.9	G-3½	Miniature Two Pin	C-6	.62	.94	1,000	69
12325	**17853**		48/50/	**24**	Auto Side Marker	14.0	.24A	2	T-2¾	Wedge	C-2V	.46	.91	1,500	
12316			48/ /	**24NA**	Auto Side Marker	14.0	.24A	1.5	T-2¾	Wedge	C-2V	.46	.91	1,500	
	25388		/50/	**27**	Hand Lantern – 4F Cells	4.9	.30A	1.4	G-4½	Miniature Screw	C-2R	.72	1.07	30	116
26480	**39220**	**13689**	48/50/4000	**37**	Auto	14.0	.09A	.5	T-1¾	Wedge	C-2F	.40	.80	2,500	
	25442		/50/	**43**	Indicator	2.5	.50A	.5	T-3¼	Miniature Bayonet	C-2R	.78	1.19	3,000	
	25450		/50/	**44**	Indicator, Radio, and TV	6.3	.25A	.9	T-3¼	Miniature Bayonet	C-2R	.78	1.19	3,000	
	25485		/50/	**47**	Radio, TV, and Indicator	6.3	.15A	.52	T-3¼	Miniature Bayonet	C-2R	.78	1.19	3,000	
	25529		/50/	**51**	Indicator	7.50	.22A	1	G-3½	Miniature Bayonet	C-2R	.50	.94	1,000	
	25550	**25552**	/50/4000	**53**	Auto and Indicator	14.4	.12A	1	G-3½	Miniature Bayonet	C-2V	.50	.94	1,000	
	25576		/50/	**55**	Instrument	7.0	.41A	2	G-4½	Miniature Bayonet	C-2R	.56	1.07	500	
23218	**25591**		48/50/	**57**	Auto and Instrument	14.0	.24A	2	G-4½	Miniature Bayonet	C-2V	.56	1.07	500	
12321			48/ /	**63**	Coin Machine	7.0	.63A	3	G-6	S.C. Bayonet	C-2R	.75	1.44	1,000	
	25643		/50/	**64**	Aircraft and Marine	7.0	.63A	3	G-6	D.C. Bayonet	C-2R	.75	1.44	1,000	
12324	**25652**	**25654**	48/50/1000	**67**	Auto	13.5	.59A	4	G-6	S.C. Bayonet	C-2R	.81	1.44	5,000	4
	25692		/50/	**68**	Auto and Marine	13.5	.59A	4	G-6	D.C. Bayonet	C-2R	.81	1.44	5,000	4
	43606	**43607**	/50/4000	**70**	Auto	14.0	.15A	1.5	T-1¾	Wedge	C-2F	.40	.80	100	14
23015	**39218**	**39219**	48/50/4000	**73**	Indicator	14.0	.08A	.3	T-1¾	Wedge	C-2F	.40	.80	15,000	79
21029	**38457**	**38458**	48/50/4000	**74**	Auto	14.0	.10A	.7	T-1¾	Wedge	C-2F	.40	.80	1,000	
	25736		/50/	**81**	Auto, Aircraft	6.5	1.02A	6	G-6	S.C. Bayonet	C-2R	.75	1.44	500	
	25751		/50/	**82**	Auto and Marine	6.5	1.02A	6	G-6	D.C. Bayonet	C-2R	.75	1.44	500	
	40969		/50/	**85**	Indicator	28.0	.04A	.3	T-1¾	Wedge	C-2F	.40	.80	7,000	79
	40967	**40968**	/50/4000	**86**	Indicator	6.3	.20A	.4	T-1¾	Wedge	C-2F	.40	.80	20,000	79, 130
	25772		/10/	**88**	Indicator	6.8	1.91A	15	S-8	D.C. Bayonet	C-6	1.12	2.0	300	
12363	**25778**	**18618**	48/50/1000	**89**	Auto	13.0	.58A	6	G-6	S.C. Bayonet	C-2R	.75	1.44	750	
47797			48/ /	**89KR**	Auto. Krypton. Long Life	13.0	.58A	6	G-6	S.C. Bayonet	C-2R	.75	1.44	1,500	
12364	**25794**	**25796**	48/50/1000	**90**	Auto and Marine	13.0	.58A	6	G-6	D.C. Bayonet	C-2R	.75	1.44	750	
23217	**25811**	**25813**	48/50/500	**93**	Auto	12.8	1.04A	15	S-8	S.C. Bayonet	C-6	1.12	2.0	700	
	25829	**25831**	/50/500	**94**	Auto and Marine	12.8	1.04A	15	S-8	D.C. Bayonet	C-6	1.12	2.0	700	
12322	**25836**	**25838**	48/50/1000	**97**	Auto – Heavy Duty	13.5	.69A	4	G-6	S.C. Bayonet	C-2V	.81	1.44	5,000	4
	16287	**16286**	/50/1000	**98**	Auto, Heavy Duty	13.0	.62A	6	G-6	S.C. Bayonet	C-2V	.75	1.44	800	
	36147		/50/	**105**	Auto Interior – Heavy Duty	12.8	1.00A	12	B-6	S.C. Bayonet	C-6	1.06	1.75	500	
	25848		/50/	**112**	Flashlight – 1AA, C or D	1.2	.22A	–	TL-3	Miniature Screw	S-2	–	.93	5	116
	25916		/50/	**147**	Indicator	7.0	.43A	2	T-3¼	Wedge	C-2R	.56	1.06	1,500	
		15731	/ /1000	**149**	Emergency Lighting	6.15	.53A	3.5	T-3¼	Wedge	C-2R	.56	1.06	15	
	25927		/50/	**157**	Medical	5.8	1.10A	8.1	G-6	Miniature Screw	C-2R	1.0	1.22	50	127
	25931	**25933**	/50/4000	**158**	Auto, Instrument	14.0	.24A	2	T-3¼	Wedge	C-2V	.56	1.06	500	
23016	**25956**	**16489**	48/50/4000	**161**	Auto, Instrument	14.0	.19A	1	T-3¼	Wedge	C-2F	.56	1.06	4,000	
12327	**25962**	**16302**	48/50/4000	**168**	Auto Instrument	14.0	.35A	3	T-3¼	Wedge	C-2F	.56	1.06	1,500	
47827			48/ /	**168XL**	Auto-Long Life	14.0	.35A	3	T-3¼	Wedge	C-2F	.56	1.06	3,000	
	19553	**19852**	/50/4000	**193**	Heavy Duty Truck	14.0	.33A	2	T-3¼	Wedge	C-2F	.56	1.06	15,000	
		19921	/ /4000	**193E**	Heavy Duty Truck	14.0	.33A	2	T-3¼	Wire Terminal	C-2F	.56	1.06	15,000	122
		11807	/ /4000	**193E-1**	Truck Clearance	14.0	.33A	2	T-3¼	Wire Terminal	C-2F	–	1.06	15,000	122
12328	**25965**	**16303**	48/50/4000	**194**	Auto, Instrument	14.0	.27A	2	T-3¼	Wedge	C-2F	.56	1.06	2,500	
12356			48/ /	**194B**	Auto courtesy – Blue	14.0	.27A	2	T-3¼	Wedge	C-2F	–	1.06	2,500	132
12357			48/ /	**194G**	Auto courtesy – Green	14.0	.27A	2	T-3¼	Wedge	C-2F	–	1.06	2,500	132

MINIATURE LAMPS (CONTINUED)

Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
12319	**44859**	**27470**	48/50/4000	**194NA**	Auto Sidemarker. Amber	14.0	.27A	1.5	T-3¼	Wedge	C-2F	–	1.06	2,500	
47794			48/ /	**194NAXL**	Auto Sidemarker. Amber	14.0	.27A	1.5	T-3¼	Wedge	C-2F	–	1.06	5,000	
12355			48/ /	**194R**	Auto courtesy – Red	14.0	.27A	2	T-3¼	Wedge	C-2F	–	1.06	2,500	132
25832			48/ /	**194XL**	Auto, Long Life	14.0	.27A	2	T-3¼	Wedge	C-2F	.56	1.06	12,000	
	37983	**37984**	/50/500	**198**	Truck Stop, Signal	12.8 14.0	2.25A .59A	32 3	S-8	D.C. Index	C-6	1.25	2.0	1,200 5,000	110, 147
	37985	**37986**	/50/500	**199**	Truck Signal	12.8	2.25A	32	S-8	S.C. Bayonet	C-6	1.25	2.0	1,200	110
	25988		/50/	**210**	Instrument	6.5	1.78A	15	B-6	D.C. Bayonet	C-6	1.06	1.75	100	
12673	**39224**	**39225**	48/50/1000	**211-2**	Auto	12.8	.97A	12	T-3	Miniature Cap	C-8	–	1.72	1,000	
23220		**39223**	48/ /1000	**212-2**	Auto	13.5	.74A	6	T-3	Miniature Cap	C-8	–	1.72	2,000	4
	39356	**39357**	/50/1000	**214-2**	Auto	13.5	.52A	4	T-3	Miniature Cap	C-8	–	1.72	1,000	4
	26008		/50/	**222**	Flashlight – AA cells	2.25	.25A	–	TL-3	Miniature Screw	C-2R	–	.93	5	116
	26063		/50/	**243**	Flashlight – 2 C cells	2.33	.27A	–	TL-3	Miniature Screw	C-2R	–	.93	10	116
	26095		/50/	**258**	Toy Train, Flasher Lamp	14.0	.27A	1.6	G-4½	Miniature Screw	C-2R	.81	1.07	500	3, 70
	26099		/50/	**259**	Radio, TV, and Indicator	6.3	.25A	.65	T-3¼	Wedge	C-2R	.65	1.06	5,000	44, 147
	44719		/50/	**265**	Indicator	28.0	.08A	.75	G-3½	Miniature Bayonet	C-2F	.50	.94	5,000	
	42758		/50/	**267**	Indicator – Flasher Lamp	6.3	.15A	.33	T-3¼	Miniature Bayonet	C-2R	.62	1.19	5,000	3, 70
	32688		/50/	**293**	Auto and Radio	14.0	.33A	2	G-4½	Miniature Bayonet	C-2F	.56	1.07	7,500	
	81642		/50/	**301**	Aircraft	28.0	.17A	3	G-5	S.C. Bayonet	C-2F	.69	1.25	500	
	26120		/50/	**302**	Aircraft	28.0	.17A	3	G-5	D.C. Bayonet	C-2F	.69	1.25	500	
	81641		/50/	**303**	Aircraft	28.0	.30A	6	G-6	S.C. Bayonet	C-2F	.75	1.44	500	
	81643		/50/	**304**	Aircraft	28.0	.30A	6	G-6	D.C. Bayonet	C-2F	.75	1.44	500	
	26143		/50/	**305**	Aircraft	28.0	.51A	15	S-8	S.C. Bayonet	C-2V	1.12	2.0	300	
	26145		/50/	**305AF**	Aircraft – All frosted	28.0	.51A	–	S-8	S.C. Bayonet	C-2V	–	2.0	300	
	26152		/50/	**306**	Aircraft	28.0	.51A	15	S-8	D.C. Bayonet	C-2V	1.12	2.0	300	
	81644		/50/	**307**	Aircraft	28.0	.67A	21	S-8	S.C. Bayonet	C-2V	1.12	2.0	300	
	26161		/50/	**307AF**	Aircraft – All frosted	28.0	.67A	21	S-8	S.C. Bayonet	C-2V	–	2.0	300	
	81645		/50/	**308**	Aircraft	28.0	.67A	21	S-8	D.C. Bayonet	C-2V	1.12	2.0	300	
	81646		/50/	**308AF**	Aircraft – All frosted	28.0	.67A	–	S-8	D.C. Bayonet	C-2V	–	2.0	300	
	26175		/10/	**309**	Aircraft	28.0	.90A	32	S-11	S.C. Bayonet	C-2V	1.25	2.38	300	
	81647		/10/	**311**	Aircraft	28.0	1.29A	50	S-11	S.C. Bayonet	C-2V	1.25	2.38	300	
	81649	**81650**	/50/4000	**313**	Aircraft	28.0	.17A	3.5	T-3¼	Miniature Bayonet	C-2F	.62	1.19	500	
	81651		/50/	**315**	Aircraft	28.0	.90A	32	S-8	S.C. Bayonet	C-2V	1.12	2.0	300	
	81652		/50/	**316**	Aircraft	6.0	.70A	3.4	T-3¼	Miniature Bayonet	C-2R	.62	1.19	500	
	80862		/10/	**317**	Aircraft	12.0	3.5W	2.63	T-3	G4 2-Pin	C-2R	.78	1.16	1000	
	28519		/50/	**327**	Aircraft	28.0	.04A	.34	T-1¾	S.C. Midget Flanged	C-2F	.38	.63	4,000	79
	28546		/50/	**328**	Aircraft	6.0	.20A	.34	T-1¾	S.C. Midget Flanged	C-2R	.38	.63	1,000	10
	28567		/50/	**330**	Aircraft	14.0	.08A	.5	T-1¾	S.C. Midget Flanged	C-2F	.38	.63	1,500	
	28588		/50/	**334**	Aircraft	28.0	.04A	.34	T-1¾	Midget Grooved	C-2F	.38	.63	4,000	79
		29917	/ /1000	**338**	Aircraft	2.7	.06A	.04	T-1¾	Midget Flanged	C-2R		.63	6,000	
		29918	/ /1000	**345**	Aircraft	6	.04A	.055	T-1¾	Midget Flanged	C-2R		.63	10,000	
	26255		/50/	**356**	Aircraft	28.0	.17A	3.5	G-3½	Miniature Bayonet	C-2F	.50	.94	500	14
		87381	/ /1000	**380**	Aircraft	6.3	.04A	.03	T-1¾	Midget Flanged	C-2V		.64	50,000	
	28653		/50/	**381**	Indicator	6.3	.20A	.4	T-1¾	S.C. Midget Flanged	C-2F	.38	.63	20,000	79
	28657		/50/	**382**	Indicator	14.0	.08A	.3	T-1¾	S.C. Midget Flanged	C-2F	.38	.63	40,000	79
	28660		/50/	**385**	Indicator	28.0	.04A	.15	T-1¾	S.C. Midget Flanged	C-2F	.44	.81	10,000	78,79
		87306	/ /1000	**385AS15**	Aircraft	28.0	.04A	.2	T-1¾	Midget Flanged	C-2F		.36	25,000	
	28662		/50/	**386**	Indicator	14.0	.08A	.3	T-1¾	Midget Grooved	C-2F	.38	.63	40,000	79
	28664	**25090**	/50/1000	**387**	Indicator	28.0	.04A	.3	T-1¾	Midget Flanged	C-2F		.63	7,000	
	28672		/50/	**388**	Indicator	28.0	.04A	.3	T-1¾	Midget Grooved	C-2F	.38	.63	7,000	79
		87398	/ /1000	**394**	Aircraft	12	.04A	.12	T-1¾	Midget Flanged	C-2F		.64	10,000	
	38918		/50/	**400**	Aircraft	28.0	.10A	1.6	T-3¼	Wedge	C-2F	.56	1.06	1,000	

Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
MINIATURE LAMPS (CONTINUED)															
	26354		/50/	**425**	Hand Lantern – 4F Cells	5.0	.50A	2.3	G-4½	Miniature Screw	C-2R	.72	1.07	15	116
	26441		/50/	**456**	Instrument	28.0	.17A	2	G-4½	Miniature Bayonet	C-2F	.56	1.07	5,000	
	39645		/50/	**464**	Aircraft	28.0	.17A	3	T-3¼	Wedge	C-2F	.56	1.06	1,500	
	26460		/50/	**502**	Hand Lantern – 4F Cells	5.1	.15A	.6	G-4½	Miniature Screw	C-2R	.72	1.07	100	116
	26485		/50/	**509K**	Indicator	24.0	.18A	2.8	G-6	Candelabra Screw	C-2R	.75	1.47	1,000	303
	44773	**44774**	/50/4000	**555**	Coin, Novelty	6.3	.25A	.9	T-3¼	Wedge	C-2R	.65	1.06	3,000	
	38269		/50/	**558**	Auto Lens end	13.0	.33A	–	TL-3¼	Wedge	C-2V	–	1.06	500	68
12358	**39746**	**40023**	48/50/1000	**561**	Auto	12.8	.97A	12	T-3	Rigid Loop	C-8	–	1.72	1,000	
23019		**40024**	48/ /1000	**562**	Auto	13.5	.74A	6	T-3	Rigid Loop	C-8	–	1.72	2,000	4
26205			48/ /	**563**	Auto	13.5	.52A	4	T-3	Rigid Loop	C-8	–	1.72	1,000	4
12672			48/ /	**570**	Truck Bed Light	12.8	2.10A	32	T-4¾	Rigid Loop	C-8	–	1.72	600	
23020			48/ /	**577**	Auto	12.8	1.40A	21	T-4¾	Double End Cap	C-8	–	1.72	1,000	
	18442	**18439**	/50/4000	**590**	Strip Lighting (Xenon)	13.5	.37A	4	T-3¼	Wedge	C-2V	.5	1.06	2,000	
	25199	**25200**	/50/4000	**591**	Strip Lighting (Xenon)	14.0	.24A	2	T-3¼	Wedge	C-2V	.5	1.06	3,000	
	26549		/50/	**605**	Flashlight – 5D Cells	6.15	.50A	3.4	G-4½	Miniature Screw	C-2R	.72	1.07	15	116
	81653	**81654**	/50/1000	**623**	Instrument	28.0	.37A	6	G-6	S.C. Bayonet	2C-2V	.75	1.44	1,000	
	26567	**26568**	/50/1000	**624**	Marine	28.0	.37A	6	G-6	D.C. Bayonet	2C-2V	.75	1.44	1,000	
23023	**26570**		48/50/	**631**	Auto	14.0	.63A	6	G-6	S.C. Bayonet	2C-2R	.75	1.44	1,000	
	38866		/50/	**656**	Indicator	28.0	.06A	.62	T-3¼	Wedge	C-2F	.56	1.06	2,500	
	38196		/50/	**657**	Indicator	28.0	.08A	.62	T-3¼	Wedge	C-2F	.56	1.06	15,000	79
	81670		/50/	**658**	Indicator	14.0	.08A	0.31	T-3¼	Wedge	C-2F	0.56	1.06	15,000	
		87407	/ /1000	**680**	Aircraft	5.0	.06A	.03	T-1	Wire Terminal	C-2R		.24	100,000	
		87336	/ /1000	**683**	Aircraft	5.0	.06A	.05	T-1	Wire Terminal	C-2R		.24	100,000	
		87321	/ /1000	**683AS15**	Aircraft	5.0	.06A	.05	T-1	Wire Terminal	C-2R		.24	100,000	
		28706	/ /1000	**685**	Aircraft	5.0	.06A	.05	T-1	Sub-Midget Flanged	C-2R	.19	.38	40,000	79
		87276	/1000	**685AS15**	Aircraft	5.0	.06A	.05	T-1	Sub-Midget Flanged	C-2R		.36	100,000	
	43132		/50/	**705**	Aircraft	28.0	.51A	15	S-8	S.C. Bayonet	CC-6	1.12	2.0	900	
		87411	/ /1000	**713**	Aircraft	5.0	.75A	.09	T-1	Wire Terminal	C-2R		.24	100,000	
		29903	/ /1000	**715**	Aircraft	5.0	.115A	.15	T-1	Wire Terminal	C-2R		.25	40,000	
		29901	/ /1000	**715AS15**	Aircraft	5.0	.115A	.15	T-1	Wire Terminal	C-2R		.25	40,000	
		29916	/ /1000	**718**	Aircraft	5.0	.115A	.15	T-1	Sub-Midget Flanged	C-2R		.36	40,000	
		29905	/ /1000	**718AS15**	Aircraft	5.0	.115A	.15	T-1	Sub-Midget Flanged	C-2R		.36	40,000	
	26591		/50/	**755**	Indicator	6.3	.15A	.33	T-3¼	Miniature Bayonet	C-2R	.78	1.19	20,000	
	26593		/50/	**756**	Indicator	14.0	.08A	.31	T-3¼	Miniature Bayonet	C-2F	.62	1.19	15,000	
	81655		/50/	**757**	Indicator	28.0	.08A	.62	T-3¼	Miniature Bayonet	C-2F	.62	1.19	15,000	79
	11014		/20/	**767**	Instrument	6.0	2.00A	19	T-2¼	Miniature Bayonet	C-6	.56	1.13	50	306
	11250		/10/	**773**	Special Service	12.0	.67A	10	T-2¾	G-4 Two Pin	C-6	.77	1.05	1,000	124, 306
	12723	**12724**	/10/500	**774**	Emergency Lighting	12.0	.67A	13	T-2¼	G-4 Two Pin	C-6	.77	1.0	50	124, 306
		47618	/ /500	**777**	Flashlight, Halogen	4.0	1.20A	5.5	T-2¼	G-4 Two Pin	C-6	.77	1.0	275	124, 306
	49718		/10/	**778**	Instrument	6.0	3.33A	32	T-2¾	G-4 Two Pin	C-6	.77	1.05	100	124, 306
	18344	**18345**	/10/500	**780**	Strip Light	12.0	10W	12	T-2¾	G-4 Two Pin	C-6	.77	1.05	2,000	124, 306
	44840	**44841**	/10/500	**782**	Special Service	12.0	1.66A	25	T-2¾	G-4 Two Pin	C-6	.77	1.05	2,000	124, 306
	44500	**44501**	/10/500	**783**	Emergency Lighting	12.0	1.00A	22	T-2¼	G-4 Two Pin	C-6	.77	1.0	50	124, 306
	43760	**43761**	/10/500	**784**	Emergency Lighting	6.0	1.00A	9	T-2¼	G-4 Two Pin	C-6	.77	1.0	50	124, 306
	43762	**43763**	/10/500	**785**	Emergency Lighting	6.0	1.33A	13	T-2¼	G-4 Two Pin	C-6	.77	1.0	50	124, 306
	43764	**43765**	/10/500	**786**	Emergency Lighting	6.0	2.00A	19	T-2¼	G-4 Two Pin	C-6	.77	1.0	50	124, 306
	43115	**43116**	/10/500	**787**	Instrument	6.0	1.67A	16	T-2¼	G-4 Two Pin	C-6	.77	1.0	100	124, 306
	43117	**43118**	/10/500	**788**	Instrument	6.0	3.33A	32	T-2¼	G-4 Two Pin	C-6	.77	1.0	100	124, 306
	43119		/10/	**789**	Instrument	12.0	1.17A	22	T-2¾	G-4 Two Pin	C-6	.77	1.05	200	124, 306
	43121	**43122**	/10/500	**790**	Instrument	14.0	1.79A	42	T-2¾	G-4 Two Pin	C-6	.77	1.05	200	124, 306
	43123	**43124**	/10/500	**791**	Instrument	14.0	2.50A	61	T-2¾	G-4 Two Pin	C-6	.77	1.05	200	124, 306
	20469		/10/	**795**	Signal	12.8	50W	108	T-4	S.C. Bayonet	C-6	1.25	2.50	200	4, 306

MINIATURE LAMPS (CONTINUED)

Order Code Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
	40848	**14132**	/10/540	**862**	Tractor	12.8	2.93A	60	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	1,900	306
12320		**20904**	48/ /540	**880**	Auto Fog. H27W/1	12.8	2.10A	43	T-3¼	Axial Prefocus	C-6 C-6	1.25	2.68	300 150	17, 160, 306
		27582	/ /540	**880L**	Auto Fog. H27W/1	12.8	2.10A	43	T-3¼	Axial Prefocus	C-6	1.25	2.68	300	17, 160, 306
		14694	/ /540	**880X**	Auto Fog. H27W/1	12.8	2.10A	43	T-3¼	Axial Prefocus	C-6	1.25	2.68	1,000	17, 160, 306
12334		**20905**	48/ /540	**881**	Auto Fog. H27W/2	12.8	2.10A	43	T-3¼	Rt Angle Prefocus	C-6 C-6	1.25	2.68	300 150	17, 160, 306
		27583	/ /540	**881L**	Auto Fog. H27W/2	12.8	2.10A	43	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	1,000	17, 160, 306
		11646	/ /540	**881X**	Auto Fog. H27W/2	12.8	2.10A	43	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	300	17, 160, 306
	13158	**13161**	/10/1000	**882**	Auto Inst.	12.8	.35A	3.8	T-2¼	Socket	C-6	.37	1.18	2,000	306
	18167	**16772**	/10/500	**882X**	Auto Inst.	12.8	.35A	3.8	T-2¼	G-4 Two Pin	C-6	.77	1.0	2,000	124, 306
12335		**20907**	48/ /540	**885**	Auto Fog	12.8	3.90A	100	T-3¼	Axial Prefocus	C-6	1.25	2.68	200	4, 306
14689		**20909**	48/ /540	**886**	Auto Fog	12.8	3.90A	100	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	200	4, 306
		25639	/ /540	**887**	Tractor Work Light	12.8	3.90A	95	T-3¼	Axial Prefocus	C-6	1.25	2.68	400	4, 306
		25703	/ /540	**888**	Tractor Work Light	12.8	3.90A	95	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	400	4, 306
12336		**20910**	48/ /540	**889**	Auto – Signal	12.8	2.10A	43	T-3¼	Right Angle	C-6	1.00	2.68	300	306
12337		**20911**	48/ /540	**890**	Auto – Signal	12.8	2.10A	43	T-3¼	Axial	C-6	1.00	2.68	300	306
12308	**15246**	**15248**	48/10/500	**891**	Auto High Mounted Stop	12.8	.63A	11	T-2¼	G-4 Two Pin	C-6	.77	1.0	500	306,124
	16481		/10/	**892**	Auto, Signal	12.8	1.25A	28	T-3¼	Axial	C-6	1.00	2.68	300	306
12338		**20913**	48/ /540	**893**	Auto Fog	12.8	2.93A	75	T-3¼	Axial Prefocus	C-6	1.25	2.68	200	4, 17, 160, 306
		12727	/ /540	**893X**	Auto Fog	12.8	2.93A	75	T-3¼	Axial Prefocus	C-6	1.25	2.68	200	4, 17, 160, 306
22112	**20238**	**18455**	48/10/540	**894**	Tractor	12.8	2.93A	75	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	200	4, 306
		26345	/ /540	**894X**	Tractor	12.8	2.93A	75	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	200	4, 306
22113		**20914**	48/ /540	**896**	Auto Fog	12.8	2.93A	75	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	200	4, 17, 160, 306
		12271	/ /540	**898**	Auto Fog	12.8	2.93A	60	T-3¼	Rt Angle Prefocus	C-6	1.25	2.68	1,900	4, 17, 160, 306
22111		**12272**	48/ /540	**899**	Auto Fog	12.8	2.93A	60	T-3¼	Axial Prefocus	C-6	1.25	2.68	1,900	4, 17, 160, 306
14273		**14007**	48/ /1000	**901**	Garden & Security	12.8	.31A	2.9	T-5	Wedge	C-2R	0.81	1.49	500	
40675			30/ /	**901A**	Garden & Security. Amber	12.8	.31A	-	T-5	Wedge	C-2R	0.81	1.49	500	
23024	**40462**	**40463**	48/50/1000	**904**	Auto – Heavy Duty	13.5	.69A	4	T-5	Wedge	C-2F	.81	1.49	5,000	4
12366	**40289**	**40290**	48/50/1000	**906**	Auto – Heavy Duty	13.0	.69A	6	T-5	Wedge	C-2F	.81	1.49	1,000	
		48505	/ /1000	**906A**	Auto, Side Signal-Amber	13.0	.69A	-	T-5	Wedge	C-2F	.81	1.49	1,000	
	44754	**44755**	/50/1000	**908**	Emergency Lighting	6.0	1.50A	12	T-5	Wedge	C-2R	0.81	1.49	50	
	44756	**44757**	/50/1000	**909**	Emergency Lighting	6.0	.62A	3	T-5	Wedge	C-2R	0.81	1.49	50	
12365	**40504**	**40505**	48/50/1000	**912**	Auto – Heavy Duty	12.8	1.00A	12	T-5	Wedge	C-2R	.81	1.49	1,000	
	44769		/50/	**914**	Emergency Lighting	4.0	.90A	3.5	T-5	Wedge	C-6	0.75	1.49	50	
	44771	**44772**	/50/1000	**915**	Emergency Lighting	12.0	.75A	11	T-5	Wedge	C-2R	0.81	1.49	50	
23025		**16288**	48/ /1000	**916**	Auto, Side Marker	13.5	.54A	2	T-5	Wedge	C-2F	.81	1.49	10,000	
23026	**21860**		48/50/	**916NA**	Auto, Side Marker. Amber	13.0	.54A	1.5	T-5	Wedge	C-2F	.81	1.49	10,000	
		44801	/ /1000	**917**	Home Appliance	12.0	1.20	10	T-5	Wedge	C-2F	.81	1.49	1,200	
40179	**17837**	**14008**	30/50/2000	**918**	Garden & Security	12.8	.56A	6.5	T-5	Wedge	C-2R	.81	1.49	500	
26199			48/ /	**920**	Auto	12.8	1.20A	10	T-5	Wedge	–	.81	1.49	1,200	
12307	**43374**	**11743**	48/50/1000	**921**	Auto – Heavy Duty	12.8	1.40A	21	T-5	Wedge	C-2R	.81	1.49	500	121
85938			25/ /	**921XEBP**	Undercabinet Fixture	12.8	18W	21.17	T-5	Wedge	C-2R	.81	1.49	10,000	
23027	**13274**	**13275**	48/50/1000	**922**	Auto – Heavy Duty	12.8	.98A	15	T-5	Wedge	C-2R	.81	1.49	200	
40180			30/ /	**923**	Garden & Security	12.8	.91A	12.5	T-5	Wedge	C-2R	.81	1.49	500	
	13483		/50/	**926**	Emergency Lighting	4.0	1.80A	7.5	T-5	Wedge	C-2R	0.81	1.49	50	
	13485	**13486**	/50/1000	**927**	Emergency Lighting	6.0	1.20A	8	T-5	Wedge	C-2R	0.81	1.49	50	
	16975	**15285**	/50/1000	**939**	Emergency Lighting	6.0	.90A	5.4	T-5	Wedge	C-2R	0.81	1.49	50	

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.

Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
MINIATURE LAMPS (CONTINUED)															
		23684	/ /2000	**963**	Emergency Lighting	6.0	2.00A	15	T-5	Wedge	C-2R	0.81	1.49	50	
12367	**26709**		48/50/	**1003**	Auto Interior	12.8	.94A	15	B-6	S.C. Bayonet	C-6	1.06	1.75	200	
47800			48/ /	**1003KR**	Auto Interior. Long Life	12.8	.94A	15	B-6	S.C. Bayonet	C-6	1.06	1.75	400	
12373	**26726**	**26728**	48/50/500	**1004**	Auto Interior and Marine	12.8	.94A	15	B-6	D.C. Bayonet	C-6	1.06	1.75	200	
	26775		/50/	**1034**	Auto Stop Tail Signal	12.8 14.0	1.80A .59A	32 3	S-8	D.C. Index	C-6	1.25	2	200 5,000	
	32147		/10/	**1062**	Special Service	40.0	.92A	50	RP-11	D.C. Bayonet	C-5	1.25	2.25	100	305
40134	**26838**		48/50/	**1073**	Auto Signal	12.8	1.80A	32	S-8	S.C. Bayonet	C-6	1.25	2.0	200	
	26854		/50/	**1076**	Auto	12.8	1.80A	32	S-8	D.C. Bayonet	C-6	1.25	2.0	200	
	37169		/10/	**1096**	Instrument, Microscope	6.0	4.50A	30	S-8	D.C. Pf. (S)	C-2R	1.00	2.0	500	
	26872		/10/	**1129**	Special Service	6.4	2.63A	21	S-8	S.C. Bayonet	C-6	1.25	2.0	200	
	26885		/10/	**1133**	Instrument	6.2	3.91A	32	RP-11	S.C. Bayonet	C-2R	1.25	2.25	200	305
12346	**26903**	**26905**	48/50/500	**1141**	Auto	12.8	1.44A	21	S-8	S.C. Bayonet	C-6	1.25	2.0	1,000	
47802			48/ /	**1141KR**	Auto. Long Life	12.8	1.44A	21	S-8	S.C. Bayonet	C-6	1.25	2.0	2,000	
	26917	**26919**	/50/500	**1142**	Auto	12.8	1.44A	21	S-8	D.C. Bayonet	C-6	1.25	2.0	1,000	
	26945		/10/	**1152**	Special Service	12.8	1.34A	21	S-8	D.C. Bayonet	C-2R	1.25	2	500	
12297			48/ /	**1154**	Auto Stop, Tail, Signal	6.4 7	2.63A .75A	21 3	S-8	D.C. Index	C-6	1.25	2	200 1,000	
	26955		/50/	**1155**	Auto, Truck Marker	13.5	.59A	4	G-6	S.C. Bayonet	2C-2R	.81	1.44	5,000	4
12344	**26960**	**26962**	48/50/500	**1156**	Auto Stop	12.8	2.10A	32	S-8	S.C. Bayonet	C-6	1.25	2.0	1,200	
23334			48/ /	**1156KR**	Auto Stop. Long Life	12.8	2.10A	32	S-8	S.C. Bayonet	C-6	1.25	2.0	2,400	
21028	**20248**		48/50/	**1156NA**	Auto Stop. Amber	12.8	2.10A	24	S-8	S.C. Bayonet	C-6	1.25	2.0	1,200	
12294	**26969**	**26971**	48/50/500	**1157**	Auto Stop, Signal	12.8 14.0	2.10A .59A	32 3	S-8	D.C. Index	C-6 C-6	1.25	2.0	1,200 5,000	
23337			48/ /	**1157KR**	Auto Stop, Signal. Long Life	12.8 14.0	2.10A .59A	32 3	S-8	D.C. Index	C-6 C-6	1.25	2.0	2,400 10,000	
12310	**26975**	**26976**	48/50/500	**1157NA**	Amber Amber	12.8 14.0	2.10A .59A	24 2.2	S-8	D.C. Index	C-6 C-6	1.25	2.0	1,200 5,000	
47798			48/ /	**1157 NAKR**	Auto Stop, Amber. Long Life	12.8 14.0	2.10A .59A	24 2.2	S-8	D.C. Index	C-6 C-6	1.25	2.0	2,400 10,000	
	27004		/10/	**1176**	Auto Stop, Tail, Signal	12.8 14.0	1.34A .59A	21 6	S-8	D.C. Bayonet	C-6 C-6	1.25	2.0	300 1,500	
	27021	**27023**	/50/500	**1195**	Auto – Nickel-plated base	12.5	3.00A	50	RP-11	S.C. Bayonet	C-2R	1.25	2.25	300	305
	27026		/10/	**1196**	Auto	12.5	3.00A	50	RP-11	D.C. Bayonet	C-2R	1.25	2.25	300	305
	27032		/10/	**1203**	Special Service	28.0	.71A	21	S-8	S.C. Bayonet	C-2V	1.25	2.0	400	
	27044		/50/	**1224**	Marine	34.0	.16A	3.8	G-6	D.C. Bayonet	C-2F	.69	1.44	500	147
	39904		/10/	**1229**	Emergency Lighting	40.0	.38A	15	S-8	D.C. Bayonet	C-2V	1.12	2.0	400	
	81679		/50/	**1251**	Instrument, filaments in series	28.0	.23A	3	G-6	S.C. Bayonet	2C-2V	.75	1.44	2,000	
	27097		/50/	**1252**	Instrument, filaments in series	28.0	.23A	3	G-6	D.C. Bayonet	2C-2V	.75	1.44	2,000	
41755	**22523**		48/10/	**1295NA**	Auto Signal	12.5	3.00A	37	S-8	S.C. Bayonet	C-2R	1.25	2.0	200	
	12824		/50/	**1308**	Aircraft Reading	28.0	.56A	16	B-6	S.C. Bayonet	CC-8	1.06	1.75	2,000	
	81656		/50/	**1309**	Aircraft Interior	28.0	.52A	15	B-6	S.C. Bayonet	2C-2R	1.06	1.75	300	
	81667		/50/	**1315**	Aircraft Emergency Lighting	2.5	1.00A	1.75	G-5	S.C. Bayonet	C-6	.69	1.25	20	116
	34265		/50/	**1317**	Aircraft Emergency Lighting	6.00	.51A	3.4	B-6	S.C. Bayonet	C-6	1.12	1.75	100	116
	27150		/10/	**1383**	Auto, Reading Light	13.0	20W	–	R-12	S.C. Bayonet	C-8	–	2.63	300	
	27154		/10/	**1385**	Special Reading Light	28.0	20W	–	R-12	S.C. Bayonet	CC-8	–	2.63	300	
	27159		/10/	**1388**	Special Telephone Trouble	24.0	20W	–	R-12	D.C. Bayonet	CC-8	–	2.63	500	
	27179		/50/	**1408**	Signal	10.0	.13A	.85	T-3¼	Miniature Bayonet	C-2V	.62	1.19	250	13
	27193		/10/	**1434**	Instrument, Photocell exciter	3.7	2.75A	11	T-5	S.C. Bayonet	C-6	1.12	1.75	100	

MINIATURE LAMPS (CONTINUED)

Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
12329	**27207**	**27209**	48/50/4000	**1445**	Auto / Toy Train Ratings	14.4	.135A	.7	G-3½	Miniature Bayonet	C-2V	.50	.94	2,000	13
	27252		/50/	**1449**	Toy Train	14.0	.20A	2	G-3½	Miniature Screw	C-2V	.72	.94	250	13
	27263		/50/	**1450**	Indicator	24.0	.035A	.23	G-3½	Miniature Bayonet	C-2F	.50	.94	3,000	
	28310		/10/	**1460**	Medical	6.5	2.75A	23	S-8	D.C. Pf. (A)	C-6	1.25	2.0	100	11
	81669	**37343**	/10/500	**1460X**	Microscope Illuminator	6.5	2.75A	23	S-8	D.C. Pf. (A)	C-6	1.25	2.0	100	11
	27305		/10/	**1468**	Medical Instrument	6.0	4.50A	30	S-8	D.C. Pf. (S)	C-2R	1.25	2.0	500	
	27356		/50/	**1487**	Indicator	14.0	.20A	1.4	T-3¼	Miniature Screw	C-2F	.94	1.19	3,000	
	27382		/10/	**1493**	Instrument, Microscope	6.5	2.75A	23	S-8	D.C. Bayonet	C-6	1.12	2.0	100	11
	81657		/10/	**1495**	Aircraft	28.0	.30A	6	T-4½	Miniature Bayonet	C-2F	.62	1.38	500	14
	81678		/10/	**1495X**	Aircraft – Gas filled	28.0	.30A	6	T-4½	Miniature Bayonet	C-2F	.62	1.38	500	
	27431		/10/	**1561**	Instrument, Colorimeter	6.3	4.00A	24	S-11	S.C. Pf. (B)	C-8Z	.88	2.38	1,500	
	81672		/10/	**1591**	Auto	28.0	.61A	15	S-8	S.C. Bayonet	C-2V	1.12	2.0	1,000	13
	40945		/50/	**1591AF**	Aircraft – All frosted	28.0	.61A	–	S-8	S.C. Bayonet	C-2V	–	2.0	1,000	13
	27439		/10/	**1594**	Instrument, Microscope	6.0	5.00A	36	S-8	D.C. Bayonet	C-6	1.25	2.0	250	
	27461		/10/	**1612**	Instrument	5.4	1.90A	10	S-8	D.C. Bayonet	C-6	1.25	2.0	1,000	147
	27472		/10/	**1619**	Instrument	6.7	1.90A	15	S-8	S.C. Bayonet	C-6	1.12	2.0	500	
	27488	**27489**	/10/500	**1630**	Instrument, Microscope	6.5	2.75A	23	S-8	D.C. Pf. (A)	C-6	1.00	2.0	100	11
	27491		/10/	**1631X**	Instrument, Colorimeter	6.5	2.75A	23	S-8	D.C. Pf. (A)	C-6	1.00	2.0	100	11
	27496		/10/	**1634**	Instrument, Microscope	20.0	1.00A	24	S-8	D.C. Pf. (A)	CC-6	1.25	2.0	200	
	27504		/50/	**1638**	Marine	28.0	1.02A	32	S-8	D.C. Bayonet	2C-6	1.25	2.0	500	
	27529	**27530**	/10/500	**1662**	Aircraft	28.0 28.0	.93A .34A	32 6	S-8 S-8	D.C. Index D.C. Index	CC-6 C-2V	1.25	2.0	400 1,000	13, 15, 33
	27532		/50/	**1665**	Aircraft	28.0	.80A	21	S-8	S.C. Bayonet	C-2V	1.12	2.0	1,000	13
	81658		/50/	**1665AF**	Aircraft – All frosted	28.0	.80A	–	S-8	S.C. Bayonet	C-2V	–	2.0	1,000	13
	27548		/10/	**1680**	Aircraft	6.0	4.10A	32	S-8	S.C. Bayonet	C-6	1.25	2.0	300	
	81668		/10/	**1680X**	Aircraft	6.0	4.10A	32	S-8	S.C. Bayonet	C-6	1.25	2.0	300	
	27557		/50/	**1683**	Aircraft. Series filament	28.0	1.02A	32	S-8	S.C. Bayonet	2C-6	1.25	2.0	500	
	27566		/50/	**1691**	Aircraft. Series filament	28.0	.61A	15	S-8	S.C. Bayonet	2C-2R	1.12	2.0	1,000	
	27568		/50/	**1691AF**	Aircraft. Frosted	28.0	.61A	–	S-8	S.C. Bayonet	2C-2R	–	2.0	1,000	
	27571		/10/	**1692**	Marine	28.0	.61A	15	S-8	D.C. Bayonet	2C-2R	1.12	2.0	1,000	
		87408	/ /1000	**1764**	Aircraft	28.0	.04A	.34	T-1¾	Wire Terminal	C-2F		.4	4,000	
	27630		/10/	**1777**	Aircraft Tail Light	12.8	1.52A	26	S-8	S.C. Bayonet	C-2R	1.12	2.0	400	
	27667		/50/	**1813**	Radio	14.4	.10A	.86	T-3¼	Miniature Bayonet	C-2V	.62	1.19	1,000	13
	27677	**27679**	/50/4000	**1815**	Indicator	14.0	.20A	1.4	T-3¼	Miniature Bayonet	C-2F	.75	1.19	3,000	147
12359	**27688**		48/50/	**1816**	Aircraft and Auto	13.0	.33A	3	T-3¼	Miniature Bayonet	C-2V	.62	1.19	1,000	13
	81659		/50/	**1818**	Aircraft	24.0	.17A	3.3	T-3¼	Miniature Bayonet	C-2F	.62	1.19	250	147
	81660	**81661**	/50/1000	**1819**	Indicator	28.0	.04A	.34	T-3¼	Miniature Bayonet	C-2F	.62	1.19	2,500	
	81663		/50/	**1820**	Indicator	28.0	.10A	1.6	T-3¼	Miniature Bayonet	C-2F	.62	1.19	1,000	
	27749		/50/	**1822**	Indicator	36.0	.10A	2.1	T-3¼	Miniature Bayonet	C-2F	.62	1.19	1,000	
	27772		/50/	**1828**	Indicator	37.5	.05A	.65	T-3¼	Miniature Bayonet	C-2F	.62	1.19	3,000	
	81664		/50/	**1829**	Indicator	28.0	.07A	1	T-3¼	Miniature Bayonet	C-2F	.62	1.19	1,000	
	27804		/50/	**1835**	Indicator	55.0	.05A	1.1	T-3¼	Miniature Bayonet	C-2F	.62	1.19	5,000	
	27816		/50/	**1843**	Indicator	28.0	.022A	.2	T-3¼	Miniature Bayonet	C-2F	.62	1.19	3,000	15
	27819		/50/	**1847**	Radio, TV	6.3	.15A	.38	T-3¼	Miniature Bayonet	C-2R	.78	1.19	5,000	44
	27833		/50/	**1850**	Signal	5.0	.09A	.25	T-3¼	Miniature Bayonet	C-2R	.62	1.19	1,500	116
	81665	**81666**	/50/1000	**1864**	Aircraft	28.0	.17A	3	T-3¼	Miniature Bayonet	C-2F	.62	1.19	1,500	
	27868		/50/	**1866**	Radio	6.3	.25A	.65	T-3¼	Miniature Bayonet	C-2R	.78	1.19	5,000	44
	40383	**40384**	/50/1000	**1873**	Aircraft	28.0	.20A	3	T-3¼	Miniature Bayonet	C-2F	.62	1.19	7,000	
	27889		/10/	**1876**	Photoelectric Scanner	3.5	2.50A	6.5	T-5	S.C. Bayonet	C-6	1.12	1.75	2,000	
	27907		/50/	**1889**	Auto – Heavy Duty	14.0	.27A	2	T-3¼	Miniature Bayonet	C-2F	.56	1.19	2,000	
12331	**27917**		48/50/	**1891**	Auto, Radio and Indicator	14.0	.24A	2	T-3¼	Miniature Bayonet	C-2F	.62	1.19	500	

MINIATURE LAMPS (CONTINUED)

Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
	27927		/50/	1892	Auto and Indicator	14.4	.12A	.75	T-3¼	Miniature Bayonet	C-2F	.62	1.19	1,000	
12332	27935	27937	48/50/4000	1893	Auto – Heavy Duty	14.0	.33A	2	T-3¼	Miniature Bayonet	C-2F	.62	1.19	7,500	
12330	27945	27948	48/50/4000	1895	Auto, Truck Marker	14.0	.27A	2	G-4½	Miniature Bayonet	C-2F	.56	1.07	2,000	
	34021		/10/	1939X	Aircraft Marker	28.0	1.79A	70	T-7	S.C. Bayonet	C-2V	1.25	2.16	300	13, 14
	28008		/10/	1940	Aircraft Marker	14.0	3.57A	75	T-7	S.C. Bayonet	C-8Z	1.25	2.16	300	14
	45087		/10/	1944X	Special Service - silver contact	14.0	3.57A	75	T-7	S.C. Bayonet	C-8Z	1.25	2.25	300	14
	18617		/10/	1946	Aircraft	28.0	250W	660	T-3	Two Pin with Leads	CC-6	.87	1.46	50	304
	28011		/10/	1958	Aircraft	28.0	150W	250	T-4	Tab	CC-8	.75	2.25	300	304
	39641		/10/	1962B	Special Service	8.5	62W	110	T-3	Wire Terminal	C-6	.285	1.14	50	304
		12859	/ /100	1962BG	Aircraft	8.5	62W	110	T-3	Wire Terminals	C-6	.285	1.14	50	304
		37947	/ /100	1962DX	Special Service	8.5	62W	80	T-3	Wire Terminals	C-6	.285	1.14	150	304
	44152		/10/	1962DZ	Special Service	8.5	62W	80	T-3	Wire Terminals	C-6	.285	1.14	150	304
	13667		/10/	1962TY	Medical	8.5	62W	110	T-3	Wire Terminals	C-6	.285	1.14	50	304
	28034		/10/	1968	Aircraft Gunsight	28.0	25W	15	T-3	Double Slide	C-2V	.41	1.17	500	13, 304
	28036		/10/	1970	Aircraft	28.0	100W	150	T-3	Special Sleeve	CC-8	–	2.25	1,000	304
	41938		/10/	1970X	Aircraft	28.0	100W	140	T-3	Special Sleeve	CC-8	–	2.25	1,000	13, 304
	32780		/10/	1974	Instrument	6.0	20W	10	T-3	Wire Terminals	C-6	.285	1.14	10,000	304
	38545		/10/	1978X	Aircraft Navigation	10.0	100W	130	T-3	Special	C-8	–	2.15	2,000	304
	38627		/10/	1982	Aircraft Navigation	28.0	75W	110	T-3	S.C. Bayonet	CC-8	1.06	1.88	1,000	13, 304
	21061		/10/	1982SP	Aircraft – Quartz Bulb	28.0	75W	107	T-3	S.C. Bayonet	CC-6	1.00	1.97	2,000	304
	39718		/10/	1983	Aircraft – Navigation	10.0	100W	130	T-4	Two Pin	C-8	1.25	1.80	2,000	304
	44717		/10/	1986	Aircraft – Quartz bulb	28.0	250W	600	T-4	Wire Terminal	CC-6	1.03	2.00	100	304
	47695		/10/	1987	Aircraft – Quartz bulb	28.0	150W	240	T-4	D.C. Bayonet	CC-6	1.18	2.44	700	304
	38535		/10/	1988	Aircraft Gunsight	10.0	100W	130	T-3	Special Wire Leads	C-8	–	2.15	2,000	304
12326	19280		48/10/	2040	Auto Light Bar	12.8	.625A	10.5	T-2¼	Wedge	C-6	.40	1.25	500	306
12296	44760	18620	48/50/500	2057	Auto Stop, Signal	12.8 14.0	2.10A .48A	32 2	S-8	D.C. Index	C-6 C-6	1.25	2.0	1,200 5,000	
23339		10018	48/ /500	2057KR	Auto Stop, Signal. Long Life	12.8 14.0	2.10A .48A	32 2	S-8	D.C. Index	C-6 C-6	1.25	2.0	2,400 10,000	
12312	44763	44764	48/50/500	2057NA	Auto Stop, Signal. Amber	12.8 14.0	2.10A .48A	24 1.5	S-8	D.C. Index	C-6 C-6	1.25	2.0	1,200 5,000	
47799			48/ /	2057 NAKR	Auto Stop. Amber. Long Life	12.8 14.0	2.10A .48A	24 1.5	S-8	D.C. Index	C-6 C-6	1.25 1.25	2.0 2.0	2,400 10,000	
		12899	/ /600	2058U	Auto/Truck Stop, Signal	12.8 14.0	2.10A .48A	32 2	S-8	Wire Terminals	C-6 C-6	–	1.81	1,200 5,000	113
	26697		/10/	2059	Aircraft-Reading Lamps	12.0	.833A	9.1	T-2½	Miniature Bayonet	C-8	0.59	1.30	4,000	304
	26698		/10/	2059X	Aircraft-Reading Lamps	12.0	.833A	8	T-2½	Miniature Bayonet	C-8	0.59	1.30	4,000	304
	21494		/10/	2074	Instrument	7.0	25W	24	T-3	Wire Terminals	C-6	.285	1.14	2,700	304
		28085	/ /600	2144	Auto/Truck	12.8	2.10A	32	S-8	Wire Terminals	C-6	–	1.75	1,200	113
		32701	/ /500	2155	Truck	28.0 28.0	.93A .34A	32 6	S-8	Wire Terminals	CC-6 C-2V	–	1.75	400 1,000	13, 15
	34763		/50/	2232	Aircraft	28.0	.643A	18	S-8	S.C. Bayonet	CC-8	1.19	2.0	2,000	
	26702		/50/	2232LL	Aircraft Long Life	28.0	.643A	18	S-8	S.C. Bayonet	CC-8	1.19	2.0	4,000	
	81677		/10/	2232SB	Aircraft. Reflectorized	28.0	.643A	–	S-8	S.C. Bayonet	CC-8	1.19	2.0	2,000	
	36906		/10/	2233	Aircraft	28.0	.766A	21	S-8	S.C. Bayonet	CC-8	1.19	2.0	2,000	
		44964	/ /1000	2286D	Auto/Truck	14.0	.35A	2.7	T-3¼	Wire Term Down	C-2F	–	1.05	1,500	
	28100		/10/	2331	Instrument	5.9 6.2	4.66A 4.49A	32 32	RP-11	D.C. Pf. (S)	C-6	1.18	2.25	400 400	305
12298	16291	16290	48/50/500	2357	Auto Stop, Signal	12.8 14.0	2.20A .59A	40 3	S-8	D.C. Index	C-6 C-6	1.25	2.0	400 5,000	
12299	15698	15699	48/50/500	2357NA	Auto Stop, Signal. Amber	12.8 14.0	2.20A .59A	30 2.2	S-8	D.C. Index	C-6 C-6	1.25	2.0	400 5,000	

Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
MINIATURE LAMPS (CONTINUED)															
	18047		/10/	**2396**	Auto Stop	12.8	2.23A	40	S-8	S.C. Bayonet	C-6	1.25	2.0	400	
27560			48/ /	**2397**	Auto Stop, Signal	12.8 14.0	2.23A .48A	40 2	S-8	D.C. Index	C-6 C-6	1.25	2.0	400 5,000	
		19792	/ /100	**2556**	Aircraft	28.0	200W	525	T-3	Two Pin	CC-6	.87	1.46	50	304
		19566	/ /100	**2586**	Aircraft	28.0	250W	600	T-4	Two Pin with Leads	CC-6	1.30	1.90	100	304
	43805		/10/	**2604X**	Instrument – Lens end	5.0	2.00A		TL-2¾	G-4 Two Pin	C-6	–	1.18	5,000	124, 128, 306
	36508		/10/	**3011**	Aircraft	28.0	1.29A	44	S-11	S.C. Bayonet	C-2V	1.25	2.38	1,000	13
12305	**18389**		48/50/	**3057**	Auto Stop, Signal	12.8 14.0	2.10A .48A	2 2	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	1,200 5,000	
26378			48/ /	**3057KR**	Auto Stop, Signal. Long Life	12.8 14.0	2.10A .48A	32 2	S-8	Plastic Wedge	C-6 C-6	1.1	2.09	2,000 10,000	
12313	**18391**		48/50/	**3057NA**	Auto Stop, Signal. Amber	12.8 14.0	2.10A .48A	24 1.5	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	1,200 5,000	
	14698		/10/	**3078**	Aircraft Navigation	10.0	100W	95	T-3	Special	C-8	–	2.15	4,500	304
23028			48/ /	**3155**	Auto Signal	12.8	1.60A	21	S-8	Plastic Wedge	C-6	1.10	2.09	1,500	
12351	**21863**		48/50/	**3156**	Auto Stop	12.8	2.10A	32	S-8	Plastic Wedge	C-6	1.10	2.09	1,200	
27565			48/ /	**3156KR**	Auto Stop. Long Life	12.8	2.10A	32	S-8	Plastic Wedge	C-6	1.10	2.09	2,000	
12306	**17172**		48/50/	**3157**	Auto Stop, Signal	12.8 14.0	2.10A .59A	32 3	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	1,200 5,000	
26377			48/ /	**3157KR**	Auto Stop, Signal. Long Life	12.8 14.0	2.10A .59A	32 3	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	2,000 10,000	
12314	**17173**		48/50/	**3157NA**	Auto Stop, Signal. Amber	12.8 14.0	2.10A .59A	24 2.2	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	1,200 5,000	
26380			48/ /	**3157 NAKR**	Stop, Signal. Amber. Long Life	12.8 14.0	2.10A .59A	24 2.2	S-8	Plastic Wedge	C-6 C-6	1.10 1.10	2.09 2.09	2,000 10,000	
14387	**22525**		48/50/	**3357/3457**	Auto Stop, Signal	12.8 14.0	2.10A .59A	40 3	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	400 5,000	
26379			48/ /	**3457KR**	Auto Stop, Signal. 3357 Sub	12.8 14.0	2.10A .59A	40 3	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	800 10,000	
14388	**22526**		48/50/	**3357NA/ 3457NA**	Auto Stop, Signal. 3457NA Sub	12.8 14.0	2.10A .59A	30 2.2	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	400 5,000	
25834			48/ /	**3496**	Auto Japanese Vehicles	12.8 14.0	2.10A .59A	43 3	T-7	D.C. Index	C-6 C-6	–	2.00	600 5,000	
25835			48/ /	**3497**	Auto Japanese Vehicles	12.8	2.10A	45	T-7	S.C. Bayonet	C-6	–	2.00	600	
25837			48/ /	**3652**	Auto-Japanese Vehicles	13.5	.37A	6	T-3¼	Wedge	–	–	1.06	700	
15657			48/ /	**4157KR**	Auto Stop, Signal. Long Life	12.8 14.0	2.23A .59A	32 3	S-8	Plastic Wedge	C-6 C-6	1.10	2.09	3,600 10,000	
47458			48/ /	**4157 NAKR**	Stop, Signal. Amber. Long Life	12.8 14.0	2.23A .59A	24 2.2	S-8	Plastic Wedge	C-6 C-6	1.10 1.10	2.09 2.09	3,600 10,000	
	28154		/24/	**5004CW**	Aircraft – Cool White	A.C.	4W	11.9	T-5	Miniature Pinless			6.00	7,500	32, 162, 309
	28155		/24/	**5004WW**	Aircraft – Warm White	A.C.	4W	11.1	T-5	Miniature Pinless			6.00	7,500	32, 162, 309
	28160		/24/	**5008CW**	Aircraft – Cool White	A.C.	8W	35.4	T-5	Miniature Pinless			12.00	7,500	32, 162, 309
	28163		/24/	**5008WW**	Aircraft – Warm White	A.C.	8W	34.6	T-5	Miniature Pinless			12.00	7,500	32, 162, 309
	28168		/24/	**5013CW**	Aircraft – Cool White	A.C.	13W	65.2	T-5	Miniature Pinless			21.00	7,500	32, 162, 309
	28169		/24/	**5013WW**	Aircraft – Warm White	A.C.	13W	62.8	T-5	Miniature Pinless			21.00	7,500	32, 162, 309
	27367		/24/	**5104CW**	Aircraft – Cool White	A.C.	4W	11.9	T-5	Miniature BiPin			6.00	7,500	32, 162, 309
	28173		/24/	**5104WW**	Aircraft – Warm White	A.C.	4W	11.1	T-5	Miniature BiPin			6.00	7,500	32, 162, 309
	12774		/24/	**5106CW**	Aircraft – Cool White	A.C.	6W	24.7	T-5	Miniature BiPin			9.00	7,500	32, 162, 309
	33612		/24/	**5106WW**	Aircraft – Warm White	A.C.	6W	23.9	T-5	Miniature BiPin			9.00	7,500	32, 162, 309
	27466		/24/	**5108CW**	Aircraft – Cool White	A.C.	8W	35.4	T-5	Miniature BiPin			12.00	7,500	32, 162, 309
	28175		/24/	**5108WW**	Aircraft – Warm White	A.C.	8W	34.6	T-5	Miniature BiPin			12.00	7,500	32, 162, 309
	12775		/24/	**5113CW**	Aircraft – Cool White	A.C.	13W	65.2	T-5	Miniature BiPin			21.00	7,500	32, 162, 309
	28178		/24/	**5113WW**	Aircraft – Warm White	A.C.	13W	62.8	T-5	Miniature BiPin			21.00	7,500	32, 162,309

Order Code Blister	Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
MINIATURE LAMPS (CONTINUED)															
		29897	/ /1000	**6034BP**	Aircraft	28.0	.024A	.15	T-1¾	BiPin	C-2F		.64	5,000	
		29895	/ /1000	**6034BPGPL**	Aircraft	28.0	.024A	.15	T-1¾	BiPin	C-2F		.64	5,000	
		87360	/ /1000	**6832**	Aircraft	5.0	.06A	.05	T-1	Short Wire Terminal	C-2R		.14	100,000	
		87351	/ /1000	**6832AS15**	Aircraft	5.0	.06A	.05	T-1	Short Wire Terminal	C-2R		.14	100,000	
		87291	/ /1000	**6839**	Aircraft	28.0	.024A	.15	T-1	Sub-Midget Flanged	CC-2F		.36	16,000	
		29893	/ /1000	**6839BPE**	Aircraft	28.0	.024A	.15	T-1	BiPin	CC-2F		.35	16,000	
		29894	/ /1000	**6839BPEGPL**	Aircraft	28.0	.024A	.15	T-1	BiPin	CC-2F		.35	16,000	
		87274	/ /1000	**7132AS15**	Aircraft	5.0	.075A	.09	T-1	Short Wire Terminal	C-2R		.14	40,000	
		87402	/ /1000	**7152**	Aircraft	5.0	.115A	.15	T-1	Short Wire Terminal	C-2R		.14	40,000	
		97548	/ /1000	**7152AS15**	Aircraft	5.0	.115A	.15	T-1	Short Wire Terminal	C-2R		.14	40,000	
	28926		/50/	**7387**	Indicator	28.0	.04A	.3	T-1¾	BiPin M-23	C-2F	.50	.61	7,000	79
26200			48/ /	**7440**	Auto Japanese Vehicles	13.5	1.85A	37	T-7	Wedge / 103 x 16DQ	C-6	–	1.75	300	
26201		**10014**	48/ /1000	**7443**	Auto Japanese Vehicles	13.5 13.5	1.85A .4A	35 3	T-7	Wedge / 103 x 16DQ	C-6 C-6	– –	1.75 1.75	500 1,000	
22432	**22389**	**14542**	48/100/200	**9003/HB2**	Headlamp Type HB2/H4	12.8 12.8	67W 60W	119 72	T-4¾	P43T-38	C-8 C-8	1.12	3.62	150 800	4, 306
45470			48/ /	**9003SB**	Headlamp. White Light.	12.8 12.8	67W 60W	119 72	T-4¾	P43T-38	C-8 C-8	1.12	3.62	80 150	4, 306
18508	**13382**	**18699**	48/100/250	**9004/HB1**	Headlamp. Type HB1	12.8 12.8	65W 45W	95 55	T-4¾	Axial Prefocus	C-6 C-6	1.75	4.17	150 320	4, 161, 306
27561			48/ /	**9004HO**	Headlamp. HB1. Higher output.	12.8 12.8	65W 42W	95 56	T-4¾	Axial Prefocus	C-6 C-6	1.75	4.17	150 640	4, 161, 306
45471			48/ /	**9004SB**	Headlamp. HB1. White Light.	12.8 12.8	65W 45W	95 56	T-4¾	Axial Prefocus	C-6 C-6	1.75	4.17	40 200	4, 161, 306
13993	**11249**	**20559**	48/100/250	**9004XL**	Headlamp Long life. HB1	12.8 12.8	65W 47W	95 55	T-4¾	Axial Prefocus	C-6 C-6	1.75	4.17	150 850	4, 161, 306
18509	**13384**	**14710**	48/100/200	**9005/HB3**	Headlamp. High Beam. HB3	12.8	65W	135	T-4	Rt Angle Prefocus	C-8	1.24	3.13	800	4, 306
45472			48/ /	**9005SB**	Headlamp. High. White Light	12.8	65W	135	T-4	Rt Angle Prefocus	C-8	1.24	3.13	150	4, 75, 306
45866			48/ /	**9005XSLL**	Headlamp. High. HB3A.	12.8	65W	135	T-4	Axial Prefocus	C-8	1.24	3.13	700	4, 306
18510	**13397**	**14711**	48/100/200	**9006/HB4**	Headlamp, Low Beam. HB4	12.8	55W	80	T-4	Rt Angle Prefocus	C-8	1.24	3.13	850	4, 306
47640			48/ /	**9006HO**	Headlamp. Low. Higher Output	12.8	55W	80	T-4	Rt Angle Prefocus	C-8	1.24	3.13	1000	4, 306
45473			48/ /	**9006SB**	Headlamp. Low. HB4. White Light	12.8	55W	80	T-4	Rt Angle Prefocus	C-8	1.24	3.13	320	4, 75, 306
45868			48/ /	**9006XSLL**	Headlamp, Low. HB4A.	12.8	55W	80	T-4	Axial Prefocus	C-8	1.24	3.13	2,000	4, 306
22388	**20551**		48/100/	**9007/HB5**	Headlamp High/Low. Type HB5.	12.8 12.8	65W 55W	107 79	T-4¾	Axial Prefocus	C-8 C-8	1.75	4.17	150 1,100	4, 161, 306
47642			48/ /	**9007HO**	Headlamp High/Low. High Output.	12.8 12.8	65W 53W	107 80	T-4¾	Axial Prefocus	C-8 C-8	1.75	4.17	150 320	4, 161, 306
		10209	/ /250	**9007LL**	Headlamp High/Low. Long life	12.8 12.8	65W 55W	107 79	T-4¾	Axial Prefocus	C-8 C-8	1.75	4.17	150 1,450	4, 161, 306
45474			48/ /	**9007SB**	Headlamp High/Low. White Light	12.8 12.8	65W 58W	107 80	T-4¾	Axial Prefocus	C-8 C-8	1.75 1.75	4.17 4.17	110 250	4, 161, 306
		14776	/ /360	**9011**	Headlamp High. HIR1. Infrared.	12.8	65W	183	T-3¼	PX20D	C-8	1.25	3.50	150	4, 306
		47327	/ /900	**9011X HIR**	Headlamp High. Infrared.	12.8	65W	183	T-3¼	PX20D	C-8	1.25	3.50	150	4, 306
		41495	/ /360	**9012 (HIR2)**	Headlamp Low. HIR2. Infrared	12.8	55W	135	T-3¼	PX 22D	C-8	1.25	2.8	900	4, 306
40843		**37735**	48/ /200	**9145 (H10)**	Auto Fog ECE H10	12.8	45W	65	T-4	PY20D	C-8	1.24	3.01	1,500	4, 306
45591			48/ /	**56110**	Auto-Interior-12V 20W	13.2	1.83A	40	T-3	Miniature Bayonet	C-2R	.59	1.22	100	308
47461			48/ /	**58540**	Auto-Interior-12V 5W	13.5	.37A	63	T-3	Miniature Bayonet	C-2R	.59	1.22	240	308

Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
MINIATURE LAMPS (CONTINUED)															
	26696		/10/	**A-103**	Aircraft-Quartz Bulb-Navigation	28.0	50W	60	T-3	Special	CC-8	–	1.87	1,000	304
	12064		/10/	**B1A**	Neon Glow (NE-51)	120	1/25W		T-3¼	Miniature Bayonet			1.19	15,000	164
	12065		/10/	**B2A**	Neon Glow (NE-51H)	120	1/7W		T-3¼	Miniature Bayonet			1.19	25,000	164
	31675		/10/	**B7A**	Neon Glow (NE-45)	120	1/4W		T-4½	Candelabra Screw			1.53	7,500	164
23312			48/ /	**C5W**	Auto. ECE C5W	13.5	.37A	3.6	T-3½	SV8.5/8			1.45	450	
		16124	/ /144	**D2R**	Low Beam Reflector System	85	35W	114	T-3	P32d-3	–	1.06	3.09	1,000	1, 2, 310
		15999	/ /144	**D2S**	Low Beam Projector System	85	35W	254	T-3	P32d-2	–	1.06	3.09	1,000	1, 2, 310
25323			48/ /	**DE3021**	Dome & Courtesy	14.0	.24A	2	T-2¼	SV7MM			1.15	1,000	
12353			48/ /	**DE3022**	Dome & Courtesy	13.0	.38A	3	T-2¼	SV7MM			1.18	1,000	
12354	**12084**		48/50/	**DE3175**	Dome & Courtesy	13.0	.77A	9.55	T-3¼	SV8.5MM			1.25	400	
	12085		/10/	**DE3425**	Dome & Courtesy	13.0	.77A	9.55	T-4	SV8.5MM			1.50	400	
23324			48/ /	**DE7576**	Strip. Auto DIN 72601K	13.5	.74A	9.8	T-3½	SV8.5/8			1.65	200	
40336	**27328**	**32376**	48/10/300	**H1-55**	Auto ECE. GE50310/1	13.2	62W	123	T-3½	P14.5S	C-8	1.08	2.66	225	308
	27569		/10/	**H1-70/28V**	Auto. ECE. GE50320/1	28.0	80W	151	T-3½	P14.5S	C-8	1.08	2.46	600	308
	27329		/10/	**H1-100**	Off Road Auxiliary. GE52140	13.2	100W	219	T-3½	P14.5S	C-8	1.08	2.66	100	308
	27330		/10/	**H2-55**	Auto .GE50410	13.2	62W	143	T-3½	X511	C-8	.48	1.22	225	308
		23442	/ /400	**H3-35**	C.I.M. GE50390	13.2	40W	60	T-3½	PK22S	C-6	.71	1.65	200	308
12339	**27331**	**22132**	48/10/400	**H3-55**	Auto ECE. GE50340	13.2	62W	115	T-3½	PK22S	C-6	.71	1.65	225	308
		23445	/ /400	**H3-55HD**	C.I.M. GE50340HD	13.2	62W	111	T-3½	PK22S	C-6	.71	1.65	600	308
		35044	/ /400	**H3-55LL**	Auto ECE GE50340LL. Long Life	13.2	64W	106	T-3½	PK22S	C-6	.71	1.65	2,000	308
		23428	/ /400	**H3-65/28V**	C.I.M. GE52590HD	28.0	66W	102	T-3½	PK22S	C-6	.71	1.65	1,000	308
	27332	**23438**	/10/400	**H3-70/28V**	C.I.M. GE50350	28.0	75W	135	T-3½	PK22S	CC-6	.71	1.65	225	308
12341			48/ /	**H3-100**	Off Road Auxiliary. GE52130	13.2	92W	187	T-3½	PK22S	C-6	.71	1.65	100	308
18132	**27334**	**22133**	48/10/200	**H4-60/55**	Auto. GE50440	13.2 13.2	71W 66W	138 80	T-5	P43T-38	C-8 C-8	1.12	3.62	225 900	306
	27342	**30833**	/10/200	**H4-75/ 70/28V**	Bus GE50450	28.0 28.0	80W 73W	151 95	T-5	P43T-38	C-8 C-8	1.14	3.62	150 300	308
26374		**35755**	48/ /200	**H7-55**	Auto ECE, DOT GE58520	13.2	56.5W	115	T-3½	PX26D	C-8	.98	2.36	500	308
		15765	/ /300	**H8**	Auto ECE Fog	13.2	40W	64	T-3½	PGJ19-1	C-8	1.06	2.63	400	2, 308
		15827	/ /300	**H9**	Auto ECE High Beam	13.2	65W	167	T-3½	PGJ19-5	C-8	1.08	2.63	125	2, 308
		15828	/ /300	**H11**	Auto ECE Low Beam	13.2	55W	107	T-3½	PGJ19-2	C-8	1.07	2.63	550	2, 308
		15963	/ /300	**H11LL**	Auto ECE Low Beam	13.2	55W	107	T-3½	PGJ19-2	C-8	1.07	2.63	1,400	4, 308
22961			48/ /	**KPR102**	Flashlight – 2D Krypton	2.4	.70A	1.3	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	15	116
23151			48/ /	**KPR104**	Flashlight – 2D Krypton	2.2	.47A	.47	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	15	116
23153			48/ /	**KPR113**	Flashlight – 4D Krypton	4.8	.75A	4.1	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	20	116
23154			48/ /	**KPR118**	Flashlight – 6D Krypton	7.2	.55A	5.2	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	15	116
	12571		/48/	**ML20/ OF-28**	Aircraft. Lumiline. Frosted	28.0	20W	–	T-8	Disk	2C-8	–	5.75	500	12
23306		**11601**	48/ /1000	**P21W**	Auto Stop. (ECE). P25-1.	13.5	1.85A	36.6	S-8	S.C. Bayonet	C-6	1.25	2.0	250	
		38655	/ /1000	**P21W LL**	Auto Stop (ECE). Long Life	13.5	1.85A	36.6	S-8	S.C. Bayonet	C-6	1.25	2.0	300	
27561		**30857**	48/ /1000	**P21/4W**	Auto Stop, Signal. (ECE)	13.5 13.5	1.85A .37A	35 1.19	S-8	D.C. Index	C-6 C-6	1.25	2.0	100 100	
23303		**11604**	48/ /1000	**P21/5W**	Auto Stop, Signal. (ECE). P25-2.	13.5 13.5	1.85A .44A	35 2.78	S-8	D.C. Index	C-6 C-6	1.25	2.0	250 1,000	
		92475	/ /1000	**P21/5W LL**	Auto Stop, Signal. Long Life	13.5 13.5	1.85A .44A	35 2.78	S-8	D.C. Index	C-6 C-6	1.25 1.25	2.0 2.0	600 3,000	
	40778		/10/	**P21W 24V**	Bus Stop-European (ECE)	28.0	1.00A	36.6	S-8	S.C. Bayonet	C-6	1.25	2.0	150	

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Blister	Order Code Unit	Bulk	Case Qty. BP/Unit/Bulk	GE Lamp No.	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL (in)	MOL (in)	Rated Life (hrs)	Warning & Footnotes
MINIATURE LAMPS (CONTINUED)															
		30856	/ /1000	**P21/5W**	Bus Stop /Tail. (ECE)	28.0 28.0	1.00A .36A	35 3.18	S-8	D.C. Index	C-6 C-6	1.25	2.0	150 1,500	
		23036	/ /1000	**PC161**	Auto Instrument	14.0	.19A	1	T-3¼	Printed Circuit Socket	C-2F	.45	1.11	4,000	
	27222	**23037**	/10/1000	**PC168**	Auto Instrument	14.0	.35A	3	T-3¼	Printed Circuit Socket	C-2F	.45	1.11	1,500	
	72221	**23021**	/10/1000	**PC194**	Auto Inst. & Ind., H.D.	14.0	.27A	2	T-3¼	Printed Circuit Socket	C-2F	.45	1.11	2,500	
12675	**25181**		48/50/	**PR2**	Flashlight – 2D Cells	2.38	.50A	.8	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	15	116
12676	**25193**		48/50/	**PR3**	Flashlight – 3D Cells	3.57	.50A	1.5	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	15	116
12677			48/ /	**PR4**	Flashlight – 2C Cells	2.33	.27A	.4	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	10	116
	25222		/50/	**PR6**	Flashlight – 2D Cells	2.47	.30A	.45	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	30	116
	25235		/50/	**PR7**	Flashlight – 3D Cells	3.70	.30A	.9	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	30	116
12680	**25252**		48/50/	**PR12**	Flashlight – 5D Cells	5.95	.50A	3.1	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	15	116
12681	**25262**		48/50/	**PR13**	Lantern – 4F Cells	4.75	.50A	2.2	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	15	116
	25289		/50/	**PR18**	Flashlight – 6D Cells	7.20	.55A	5.5	B-3½	S.C. Miniature Flanged	C-2R	.25	1.25	3	14, 116
41370		**32648**	48/ /500	**PY21W**	Auto Stop. (ECE) – Amber	13.5	1.85A	22.3	S-8	S.C. Bayonet	C-6	1.25	2.0	250	
23314		**30859**	48/ /2000	**R5W LL**	Auto. ECE R5W GE 2619	13.5	5W	4.0	G-6	S.C. Bayonet	C-2R	.75	1.47	500	
23322		**35417**	48/ /2000	**R10W LL**	Auto. ECE R10W GE 2641	13.5	10W	10.0	G-6	S.C. Bayonet	C-2R	.75	1.47	400	
23318			48/ /	**T4W**	Auto. ECE T4W GE 2662	13.5	.30A	2.8	T-2¾	Miniature Bayonet	C-2R	.59	1.08	450	
	12756		/50/	**TEL/6PSB**	Indicator	6.0	.14A	550	T-2	Tel. Slide #5	C-2V		1.11	20,000	80
	12760		/50/	**TEL/12PSB**	Indicator	12.0	.17A	2,000	T-2	Tel. Slide #5	C-2F		1.11	12,000	80
	29001		/50/	**TEL/24E2**	Telephone	24.0	.035A	600	T-2	Tel. Slide #3	C-2F		1.69	7,000	80
	12071		/50/	**TEL/24PSB**	Indicator	24.0	.073A	3,000	T-2	Tel. Slide #5	C-2F		1.11	10,000	80
	12761		/50/	**TEL/28MB**	Indicator	28.0	.04A	.29	T-2½	Miniature Bayonet	C-2F	–	1.19	5,000	
	12072		/50/	**TEL/28PSB**	Indicator	28.0	.04A	1,600	T-2	Tel. Slide #5	C-2F		1.11	5,000	80
	29041		/50/	**TEL/48C2**	Telephone	48.0	.035A	750	T-2	Tel. Slide #3	C-2F		1.69	5,000	80
	12075		/50/	**TEL/48PSB**	Indicator	48.0	.05A	1,800	T-2	Tel. Slide #5	C-7A		1.11	10,000	80
	12076		/50/	**TEL/60MB**	Indicator	60.0	.05A	.73	T-2½	Miniature Bayonet	C-7A	–	1.19	7,500	
	12077		/50/	**TEL/60PSB**	Indicator	60.0	.05A	1,800	T-2	Tel. Slide #5	C-7A		1.11	7,500	80
	12078		/50/	**TEL/ 120MB**	Indicator	120.0	.025A	.36	T-2½	Miniature Bayonet	CC-7A	–	1.19	7,500	
	12080		/50/	**TEL/ 120PSB**	Indicator	120.0	.025A	1,000	T-2	Tel. Slide #5	CC-7A		1.11	7,500	80
27562		**35030**	48/ /2000	**W3W**	Auto-European ECE	13.5	3W	1.75	T-3¼	Wedge	C-2V	.5	1.06	1,000	13
27563		**37640**	48/ /2000	**W5W**	Auto-European ECE	13.5	5W	4	T-3¼	Wedge	C-2V	.5	1.06	300	13
		26353	/ /1000	**W16W**	Auto ECEW16W	13.5	1.44A	24.6	T-5	Wedge	C-2F	.81	1.49	250	121

Order Code Unit	Bulk	Case Qty. Unit/Bulk	GE Lamp No.	Bulb	Primary Application	Design Volts	Design Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP Horiz	Vert	Warning & Footnotes
SEALED BEAM														
18511		6	**4000**	PAR46	Headlamp, Low Beam Type 2C1	12.8 12.8	37.5W 60W	SAE	3 Contact Lugs	4	200 320			4
24327		12	**4013**	PAR46	Tractor, Flood	6.4	25W	800	Screw Terminals	3.75	300	80	20	
24339	**24338**	12/60	**4014**	PAR36	Emergency Bldg. Lighting	6.4	18W	1,500	Screw Terminals	2.75	200	50	25	
24369		12	**4019**	PAR46	Tractor	6.2	30W	1,200	Screw Terminals	3.75	300	Trapezoidal		23
38418		12	**4040**	PAR46	Headlamp, Low. Type 2C1	12.8 12.8	37.5W 60W	SAE	3 Contact Lugs	4	300 500			4
39585	**39586**	12/60	**4042**	PAR36	Emergency Bldg. Lighting	6.4	12W	1,100	Screw Terminals	2.75	150	45	20	
40588	**40589**	12/60	**4044**	PAR36	Emergency Bldg. Lighting	12.0	12W	1,100	Screw Terminals	2.75	150	50	25	
10540	**10541**	12/60	**4044-1**	PAR36	Emergency Bldg. Lighting	12.0	12W	1,100	Slip-on Terminals	2.75	150	50	25	
25051		12	**4313**	PAR36	Aircraft Landing	13.0	250W	140,000	Screw Terminals	2.75	25	16	7	302
39366	**39367**	12/60	**4340**	PAR36	Electric Truck Work Light	48.0	80W	2,500	Slip-on Terminals	2.75	400	Trapezoidal		15
39362	**39363**	12/60	**4350**	PAR36	Electric Truck Work Light	36.0	60W	2,100	Slip-on Terminals	2.75	400	Trapezoidal		15
12961		12	**4402A**	PAR36	CIM Signal	28.0	50W	1,000	Screw Terminals	2.75	400	50	25	
24425	**24423**	12/60	**4405**	PAR36	Spotlight	12.8	30W	50,000	Screw Terminals	2.75	100	6	5	167
24430	**24428**	12/60	**4406**	PAR36	Tractor, Flood	12.8	35W	600	Screw Terminals	2.75	300	80	30	4
24439		12	**4410**	PAR36	Backup Lamp, Tractor Flood	12.8	35W	600	Screw Terminals	2.75	300	80	30	4
24448	**24443**	12/60	**4411**	PAR36	Tractor	12.8	35W	3,000	Screw Terminals	2.75	300	Trapezoidal		4
37889	**37890**	12/60	**4411-1**	PAR36	Tractor	12.8	35W	3,000	Slip-on Terminals	2.75	300	Trapezoidal		4
	48032	60	**4411-3**	PAR36	Tractor	12.8	35W	3,000	Combination	2.75	300	Trapezoidal		4
24454	**24453**	12/24	**4412**	PAR46	Fog	12.8	35W	11,000	Screw Terminals	3.75	300	40	7	167
24460	**24459**	12/24	**4412A**	PAR46	Fog, Yellow	12.8	35W	8,800	Screw Terminals	3.75	300	40	7	167
22981	**24464**	12/24	**4413**	PAR46	Tractor, Flood	12.8	35W	1,100	Screw Terminals	3.75	300	80	20	4
24478	**24477**	12/60	**4414**	PAR36	Warning Signal, Garden	12.8	18W	1,500	Screw Terminals	2.75	300	50	25	
24487		12	**4414R**	PAR36	Warning Signal Red Lens	12.8	18W	275	Screw Terminals	2.75	300	50	25	
22982	**24490**	12/60	**4415**	PAR36	Fog	12.8	35W	9,000	Screw Terminals	2.75	300	40	5	167
24499	**24497**	12/60	**4415A**	PAR36	Fog, Yellow Lens	12.8	35W	7,000	Screw Terminals	2.75	300	40	5	167
22983	**24503**	12/60	**4416**	PAR36	Spotlamp, Signal	12.8	30W	35,000	Screw Terminals	2.75	300	11	4	
	34901	12/60	**4416-1**	PAR36	Spotlamp, Signal	12.8	30W	35,000	Slip-on Terminals	2.75	300	11	4	
24506		12	**4416A**	PAR36	Signal, Yellow Lens Cover	12.8	30W	26,000	Screw Terminals	2.75	300	11	4	
24513		12	**4416R**	PAR36	Signal, Red Lens Cover	12.8	30W	4,000	Screw Terminals	2.75	300	11	4	
24531	**24525**	12/24	**4419**	PAR46	Tractor	12.8	35W	1,600	Screw Terminals	3.75	300	Trapezoidal		4
24539	**24541**	12/24	**4421**	PAR46	Auto/Truck, Special	13.0	100W	23,000	Slip-on Terminals	3.75	300	50	7	109, 167
24542		12	**4422**	PAR36	Tractor	12.8	35W	600	Screw Terminals	2.75	300	75° Cone		4
24572		12	**4434A**	PAR46	Bus Signal, Amber Lens	12.8	40W	1,000	Screw Terminals	3.75	100	55	25	
24577	**24576**	12/24	**4435**	PAR46	Spotlamp	12.8	30W	75,000	Screw Terminals	3.75	100	5	5	167
24582		12	**4436**	PAR46	Signal	12.8	35W	60,000	Screw Terminals	3.75	300	10	4	
39932	**39933**	12/60	**4440X**	PAR36	Tractor	12.8 12.8	40W 40W	6,000 4,500	3 Contact Lugs	3	320 320	40 33	7 9	4
39748		12	**4440X-1**	PAR36	Tractor	12.8 12.8	40W 40W	6,000 4,500	3 Slip-on Terminals	2.75	320 320	40 33	7 9	4
37046	**37047**	12/60	**4446**	PAR36	Emergency Bldg. Lighting	12.8	25W	400	Screw Terminals	2.75	300	80	80	
40176		12	**4460X**	PAR36	Tractor	12.8 12.8	40W 40W	6,500 5,000	3 Screw Terminals	2.75	320 320	22 22	10 13	4
24592		12	**4461**	PAR36	Tractor	12.8	60W	6,000	Screw Terminals	2.75	300	Trapezoidal		4
24596		12	**4466**	PAR36	Tractor	12.8	60W	1,000	Screw Terminals	2.75	300	80	30	4
24613		12	**4478**	PAR46	C.I.M. Flood	13.0	60W	1,600	2 Contact Lugs	4	800	56	32	4
24627		12	**4502**	PAR36	Auto Headlamp, Military	28.0	50W	10,000	Screw Terminals	2.75	400	40	7	
24640	**24638**	12/60	**4505**	PAR36	Aircraft Navigation	28.0	50W	45,000	Screw Terminals	2.75	400	11	5	
24650	**24649**	12/60	**4509**	PAR36	Aircraft Landing Spotlamp	13.0	100W	110,000	Screw Terminals	2.75	25	12	6	167
41503		12	**4509X**	PAR36	Marine Spotlamp	13.0	100W	110,000	Screw Terminals	2.75	25	12	6	167

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Order Code Unit	Bulk	Case Qty. Unit/Bulk	GE Lamp No.	Bulb	Primary Application	Design Volts	Design Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP Horiz	Vert	Warning & Footnotes
SEALED BEAM (CONTINUED)														
11524		12	**4509Y**	PAR36	Special Service	13.0	100W	–	Screw Terminals	2.75	25	12	6	
24654	**24653**	12/60	**4510**	PAR36	Tractor Flood, Emergency	6.4	25W	800	Screw Terminals	2.75	300	80	20	
24663	**24661**	12/60	**4511**	PAR36	Tractor	6.2	30W	2,300	Screw Terminals	2.75	300	Trapezoidal		23
24673	**24671**	12/60	**4515**	PAR36	Spotlamp	6.4	30W	55,000	Screw Terminals	2.75	100	5	5	167
24678		12	**4516**	PAR36	Spotlamp	6.2	30W	45,000	Screw Terminals	2.75	300	9	4	
24690		12	**4519**	PAR36	Marine	13.0	100W	30,000	Screw Terminals	2.75	25	40	7	
24700		12	**4522**	PAR46	Aircraft Landing	13.0	250W	290,000	Screw Terminals	3.13	25	12	10	92, 138, 167
24721		12	**4530**	PAR46	Signal, Flashing	26.0	5.3A	100,000	Screw Terminals	3.75	50	11	11	
24726		12	**4531**	PAR46	Auto Headlamp, Military	12.5	40W	30,000	Screw Terminals	3.75	400	20	5	
19628		12	**4532**	PAR46	Aircraft	28.0 28.0	250W 150W	75M 14,500	Screw Terminals	3.75	100 100	12 16	19 19	
24735	**24733**	12/24	**4535**	PAR46	Spotlamp	6.4	30W	95,000	Screw Terminals	3.75	100	5½	4	167
24742		12	**4537**	PAR46	Aircraft Landing	13.0	100W	200,000	Screw Terminals	3.13	25	11	6	167
40822	**40823**	12/24	**4537-2**	PAR46	Spotlamp	13.0	100W	200,000	Screw Terminals	3.13	25	11	6	
39022		12	**4537X**	PAR46	Marine Spotlamp	13.0	100W	200,000	Screw Terminals	3.13	25	11	6	167
24756		12	**4541**	PAR56	Aircraft Landing	28.0	450W	470,000	Screw Terminals	4.5	25	15	11	167, 302
24764		12	**4543**	PAR56	Marine Spotlamp	12.5	100W	250,000	Screw Terminals	4.5	50	9	5	
24768		12	**4545**	PAR56	Marine Searchlight	12.0	100W	225,000	Screw Terminals	4.5	100	9	5	167
24780	**24783**	12/60	**4546**	PAR36	Hand Lantern	4.7	.5A	6,300	Screw Terminals	2.75	100	3	3	
24770	**24775**	12/60	**4546-1**	PAR36	Hand Lantern	4.7	.5A	6,300	Slip-on Terminals	2.75	100	3	3	
24788		12	**4547**	PAR36	Hand Lantern	4.75	1.25A	20,000	Screw Terminals	2.75	100	3	3	
24795		12	**4551**	PAR46	Aircraft Taxiing	28.0	250W	75,000	Screw Terminals	3.75	25	50	10	138
40576		12	**4552**	PAR64	Aircraft Landing	28.0	250W	500,000	Screw Terminals	3.75	25	7	8	138, 167
24799		12	**4553**	PAR46	Aircraft Landing	28.0	250W	300,000	Screw Terminals	3.13	25	11	12	138, 167
24802		12	**4554**	PAR46	Aircraft Taxiing	28.0	450W	90,000	Screw Terminals	3.13	25	50	16	302
40583		12	**4555**	PAR64	Aircraft Landing	115.0	1,000W	600,000	Screw Terminals	3.75	25	20	11	138, 302
40581		12	**4557**	PAR64	Aircraft Landing/Taxiing	28.0 28.0	1,000W 400W	540M 100M	3 Screw Terminals	3.75	25 100	11 25	15 11	138, 302
40578		12	**4559**	PAR64	Aircraft Landing	28.0	600W	600,000	Screw Terminals	3.75	25	11	12	138, 167
24828		12	**4570**	PAR46	Aircraft Taxiing	28.0	150W	32,000	Screw Terminals	3.75	300	50	9	
24830		12	**4571**	PAR46	Flood, Special Service	28.0	150W	7,000	Screw Terminals	3.75	300	80	25	
24833		12	**4572**	PAR46	Auto Flood, Military	28.0	150W	4,500	Screw Terminals	3.75	300	55	55	
25005	**25007**	12/24	**4578**	PAR46	C.I.M. Flood	28.0	60W	1,600	2 Contact Lugs	4	800	55	30	
25009	**25011**	12/24	**4579**	PAR46	C.I.M. Headlamp	28.0 28.0	80W 60W	24M 11M	3 Contact Lugs	4	400 400	25 7	25 7	
24859		12	**4580**	PAR46	Aircraft Landing	28.0	450W	400,000	Screw Terminals	3.75	10	13	14	302
24862		12	**4581**	PAR46	Aircraft Landing	28.0	450W	400,000	Screw Terminals	3.13	10	13	14	302
24853		12	**4582**	PAR46	Aircraft/Helicopter Flood	28.0	450W	20,000	Screw Terminals	3.75	10	50	55	302
24867		12	**4587**	PAR36	Aircraft Taxiing	28.0	250W	40,000	Screw Terminals	2.75	25	40	13	302
24873	**24871**	12/60	**4589**	PAR36	Aircraft Cockpit Flood, C.I.M.	28.0	50W	5,000	Screw Terminals	2.75	400	Trapezoidal		
	23509	60	**4589-1**	PAR36	Aircraft Cockpit Flood, C.I.M.	28.0	50W	5,000	Slip-on Terminals	2.75	400	Trapezoidal		
24882		12	**4591**	PAR36	Aircraft Landing	28.0	100W	90,000	Screw Terminals	2.75	25	12	6	
24887		12	**4593**	PAR36	Aircraft In-Air Refueling	28.0	50W	1,500	Screw Terminals	2.75	400	80	30	
24891		12	**4594**	PAR36	Aircraft Navigation	28.0	100W	70,000	Screw Terminals	2.75	300	13	7	
24892		12	**4595**	PAR36	Aircraft Navigation	28.0	100W	60,000	Screw Terminals	2.75	300	14	6	
24898		12	**4596**	PAR36	Aircraft Landing	28.0	250W	150,000	Screw Terminals	2.75	25	11	12	302
24964		12	**4626**	PAR36	Aircraft Taxiing	28.0	150W	25,000	Screw Terminals	2.75	300	40	9	
24966		12	**4627**	PAR36	Aircraft Flood	28.0	100W	3,000	Screw Terminals	2.75	300	80	30	
33284		12	**4635**	PAR46	Aircraft Landing	16.5	450W	325,000	Screw Terminals	3.75	25	14	15	302
19632	**16407**	12/672	**4636-3**	PAR46	Signal	14.0	80W	90,000	Combination	3.75	200	9	7½	

Order Code Unit	Order Code Bulk	Case Qty. Unit/Bulk	GE Lamp No.	Bulb	Primary Application	Design Volts	Design Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP Horiz	Spread to 10% MBCP Vert	Warning & Footnotes
SEALED BEAM (CONTINUED)														
18517	**41861**	6/576	**4651**	165mm	Headlamp, High Beam, 1A1	12.8	50W	SAE	2 Contact Lugs	4.8	200			4, 307
18518		6	**4652**	165mm	Headlamp, Low Beam, 2A1	12.8 12.8	40W 60W	SAE	3 Contact Lugs	4.8	200 320			4, 307
39906	**39907**	12/60	**4700**	PAR36	Spot/Flood	113.0 13.0	100W 100W	100M 50M	3 Screw Terminals	2.75	25 255	12 17	7 18	
45427		12	**4713**	PAR36	Aircraft Logo	28.0	150W	4,200	Screw Terminals	2.75	300	50	65	
44724		12	**4752**	PAR36	C.I.M. Flood	28.0	60W	2,000	Screw Terminals	2.75	800	50	25	
24973		12	**4800**	PAR56	Auto Headlamp, Military	28.0 28.0	50W 40W	SAE	3 Contact Lugs	5	400 400			
24980		12	**4811**	PAR36	Auto Headlamp, Military	28.0 28.0	110W 55W	SAE	3 Contact Lugs	3	400 400			
24981	**24982**	12/60	**4825R**	PAR36	C.I.M. Stop/Tail Red Lens	28.0 28.0	50W 18W	200 40	3 Screw Terminals	2.75	200 200	-	-	
24995		12	**4880**	PAR46	C.I.M. Headlamp	28.0	60W	6,000	2 Contact Lugs	4	800	-	-	
45110	**45111**	12/576	**4912-1**	165mm	Auto/Truck Fog	12.8	50W	14,000	Slip-on Terminals	4.53	300	40	7	167, 307
	45113	16	**4913-1**	165mm	Farm Tractor, Flood	12.8	50W	1,350	Slip-on Terminals	4.53	400	80	20	4, 307
45116	**16195**	12/576	**4921-1**	165mm	Auto/Truck, Special Service	13.0	100W	25,000	Slip-on Terminals	4.53	300	40	7	109, 307
11639		6	**5001**	PAR46	Headlamp, High Beam. 1C1	12.8	50W	SAE	2 Contact Lugs	4	300			4
16152		12	**5557**	PAR64	Aircraft Landing/Taxiing	28.0 28.0	1,000W 400W	540M 100M	3 Screw Terminals	3.75	50 100	11 25	15 11	138, 302
25114		12	**6006**	PAR56	Auto Headlamp	6.1 6.2	50W 40W	SAE	3 Contact Lugs	5	300 500			
18519		6	**6014**	PAR56	Auto Headlamp, Type 2D1	12.8 12.8	60W 50W	SAE	3 Contact Lugs	5	320 150			4
38416	**38607**	12/432	**6015**	PAR56	Headlamp, Type 2D1	12.8 12.8	50W 50W	SAE	3 Contact Lugs	5	300 500			4
25153		12	**6045**	PAR56	Signal	26.0	170W	230,000	Screw Terminals	4.5	100	9	8	
18521	**43867**	6/448	**6052**	200mm	Auto Headlamp, Type 2B1	12.8 12.8	65W 55W	SAE	3 Contact Lugs	5.44	150 320			4, 307
40190	**40191**	12/60	**7400**	PAR36	Signal, Rotating Beacon	12.8	35W	33,000	Slip-on Terminals	2.75	300	12	5	
	42385	60	**7400-1**	PAR36	Signal, Rotating Beacon	12.8	35W	33,000	Screw Terminals	2.75	300	12	5	
39987	**39988**	12/60	**7414Y**	PAR36	Signal, Light Yellow Lens	12.8	18W	1,000	Screw Terminals	2.75	300	50	25	
41865	**41866**	12/60	**7613**	PAR36	Emergency Bldg. Lighting	6.0	8W	400	Screw Terminals	2.75	50	30	20	
45101	**45102**	12/60	**7613-1**	PAR36	Emergency Bldg. Lighting	6.0	8W	400	Slip-on Terminals	2.75	50	30	20	
11421	**11422**	12/60	**7672-1**	PAR36	Emergency Bldg. Lighting	6.0	7.2W	350	Slip-on Terminals	2.75	50	30	20	
22386		6	**H4351**	140mm	Headlamp Low Beam Type K	12.8	55W	SAE	Right Angle	4	500			307
10211		6	**H4351LH**	140mm	Auto – Left Drive – Export only	12.8	55W	–	Right Angle	4	500			307
22387		6	**H4352**	140mm	Headlamp,Upper Beam,Type K	12.8	65W	SAE	Right Angle	4	150			307
	18350	48	**H4360**	140mm	Tractor	12.8	37.5W	2,000	2 Right Angle Lugs	3	320	Trapezoidal		307
15129		12	**H4405**	PAR36	Spotlamp, Shielded Bulb	12.8	30W	66,000	Screw Terminals	2.75	100	7	4	167, 307
	17674	60	**H4460X**	PAR36	Tractor	12.8 12.8	40W 40W	11,000 8,500	3 Screw Terminals	2.75	320 320	22 22	10 13	4, 307
15133		12	**H4515**	PAR36	Spotlamp, Shielded Bulb	6.4	30W	67,000	Screw Terminals	2.75	100	5.5	4	167, 307
18532	**45027**	6/576	**H4651**	165mm	Headlamp,High Beam,Type 1A	12.8	50W	SAE	2 Contact Lugs	4.8	200			4, 307
46375		6	**H4651SB**	165mm	Headlamp, High. 1A. White Light	12.8	50W	SAE	2 Contact Lugs	4.8	200			4, 307
18533	**49810**	6/576	**H4656**	165mm	Headlamp, Low Beam, 2A1	12.8 12.8	35W 35W	SAE	3 Contact Lugs	4.8	200 320			4, 307
14753		6	**H4656H0**	165mm	Headlamp, Low 2A1. High output	12.8 12.8	40W 55W	SAE	3 Contact Lugs	4.8	200 700			4, 307
45475		6	**H4656SB**	165mm	Headlamp, Low 2A1. White Light	12.8 12.8	40W 55W	SAE	3 Contact Lugs	4.8	75 200			4, 307

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.

Order Code Unit	Order Code Bulk	Case Qty. Unit/Bulk	GE Lamp No.	Bulb	Primary Application	Design Volts	Design Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP Horiz	Spread to 10% MBCP Vert	Warning & Footnotes
SEALED BEAM (CONTINUED)														
18535	**22879**	6/576	**H4666**	165mm	Headlamp, High/Low Beam, 2E1	12.8 12.8	65W 55W	SAE	3 Contact Lugs	4.8	150 320			4, 166, 307
18536	**48533**	6/480	**H4701**	150mm	Headlamp High Beam Type UF	12.8	65W	SAE	2 Lugs	3.4	150			307
18538	**48534**	6/480	**H4703**	150mm	Headlamp, Low Beam Type LF	12.8	55W	SAE	2 Lugs	3.4	320			307
18522		6	**H5001**	PAR46	Headlamp High Beam, Type 1C1	12.8	50W	SAE	2 Contact Lugs	4	200			4, 307
18523		6	**H5006**	PAR46	Headlamp, Low Beam Type 2C1	12.8 12.8	35W 35W	SAE	3 Contact Lugs	4	200 320			4, 307
19428	**19559**	6/432	**H5024**	PAR56	Headlamp. High/Low. 2D1.	12.8 12.8	65W 42W	SAE	3 Contact Lugs	5	400 2000			4, 307
19411	**19556**	6/576	**H5051**	165mm	Headlamp, High. 1A. Long Life	12.8	50W	SAE	2 Contact Lugs	4.8	500			4, 307
19429	**19558**	6/448	**H5054**	200mm	Headlamp. High/Low. 2B1.	12.8 12.8	65W 42W	SAE	3 Contact Lugs	5.44	400 2000			4, 307
19412	**19557**	6/576	**H5062**	165mm	Headlamp, High/Low. 2A1.	12.8 12.8	40W 55W	SAE	3 Contact Lugs	4.8	400 2000			4, 307
	41453	48	**H5360**	140mm	Halogen Tractor Work Light	12.8	37.5W	2,000	2 Right Angle Lugs	3	900	Trapezoidal		307
18525		6	**H6024**	PAR56	Headlamp, High/Low Beam, 2D1	12.8 12.8	65W 35W	SAE	3 Contact Lugs	5	150 320			4, 307
18534	**11545**	6/448	**H6054**	200mm	Headlamp, High/Low Beam, 2B1	12.8 12.8	65W 35W	SAE	3 Contact Lugs	5.44	150 320			4, 307
14752		6	**H6054HO**	200mm	Headlamp, 2B1. High Output.	12.8 12.8	65W 55W	SAE	3 Contact Lugs	5.44	150 700			4, 307
45477		6	**H6054SB**	200mm	Headlamp, 2B1. White Light	12.8 12.8	65W 55W	SAE	3 Contact Lugs	5.44	75 200			4, 307
43561	**43562**	12/60	**H7550**	PAR36	Hand Lantern	6.0	8W	25,000	Screw Terminals	2.75	50	3	3	307
	23541	60	**H7550-1**	PAR36	Hand Lantern	6.0	8W	25,000	Slip-on Terminals	2.75	50	3	3	307
43564	**43565**	12/60	**H7551**	PAR36	Emergency Bldg. Lighting	6.0	8W	550	Screw Terminals	2.75	50	30	20	307
43567		12	**H7552**	PAR36	Emergency Bldg. Lighting	6.0	10W	650	Screw Terminals	2.75	50	30	20	307
43570	**43571**	12/60	**H7553**	PAR36	Emergency Bldg. Lighting	6.0	12W	850	Screw Terminals	2.75	50	30	20	307
	43574	60	**H7554**	PAR36	Emergency Bldg. Lighting	6.0	20W	1,400	Screw Terminals	2.75	50	30	20	307
44642	**44643**	12/60	**H7555**	PAR36	Emergency Bldg. Lighting	12.0	8W	550	Screw Terminals	2.75	50	30	20	307
44924	**44925**	12/60	**H7556**	PAR36	Emergency Bldg. Lighting	6.0	6W	400	Screw Terminals	2.75	50	30	20	307
12720	**12721**	12/60	**H7557**	PAR36	Emergency Bldg. Lighting	12.0	12W	850	Screw Terminals	2.75	50	30	20	307
42841	**42842**	12/60	**H7600**	PAR36	Signal, Rotating Beacon	12.8	37.5W	60,000	Screw Terminals	2.75	300	9	4½	307
43576	**43577**	12/60	**H7604**	PAR36	Halogen Spotlamp	12.8	50W	100,000	Screw Terminals	2.75	100	7	5	307
14616	**43580**	6/60	**H7606**	PAR36	Tractor, Flood	12.8	50W	1,000	Screw Terminals	2.75	400	80	30	4, 307
	17672	60	**H7607**	PAR36	Tractor Flood	12.8	65W	1,500	Screw Terminals	2.75	600	Non-Symmetrical		4, 307
14617	**43583**	6/24	**H7609**	PAR46	Tractor Flood	12.8	50W	2,200	Screw Terminals	3.75	400	80	20	4, 307
14618	**43586**	6/60	**H7610**	PAR36	Halogen Tractor	12.8	50W	5,200	Screw Terminals	2.75	400	Trapezoidal		4, 307
49695		12	**H7612**	PAR46	Halogen Fog	12.8	37.5W	15,000	Screw Terminals	3.75	450	40	7	307
49731	**49732**	12/60	**H7614**	PAR36	Halogen Flood	12.8	50W	2,000	Screw Terminals	2.75	100	70	30	307
42838	**42839**	12/60	**H7616**	PAR36	Halogen Spotlamp	12.8	37.5W	70,000	Screw Terminals	2.75	300	7	4	307
14619	**43589**	6/24	**H7619**	PAR46	Halogen Tractor	12.8	50W	6,000	Screw Terminals	3.75	400	Trapezoidal		4, 307
	45058	24	**H7621-1**	PAR46	Auto/Truck Special Service	12.8	50W	20,000	Slip-on Terminals	3.75	200	50	7	4, 109, 307
43591	**43592**	12/24	**H7635**	PAR46	Halogen Spotlamp	12.8	50W	160,000	Screw Terminals	3.75	100	6½	4	307
	18022	24	**H7635X**	PAR46	Halogen Spotlamp	12.8	50W	160,000	Screw Terminals	3.75	100	6½	4	167, 307
17894	**17890**	12/24	**H7680 HIR**	PAR46	Infrared Spotlamp	13.0	80W	275,000	Screw Terminals	3.75	100	6½	6½	301
26694	**26695**	12/24	**H7680X HIR**	PAR46	Infrared-Spotlamp Long Life	13.0	80W	230,000	Screw Terminals	3.75	300	6½	6½	301

Order Code Unit	Order Code Bulk	Case Qty. Unit/Bulk	GE Lamp No.	Bulb	Primary Application	Design Volts	Design Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP Horiz	Spread to 10% MBCP Vert	Warning & Footnotes
SEALED BEAM (CONTINUED)														
	23250	16	**H7913 HIR**	165mm	Farm Tractor, Flood Infrared	12.8	65W	4,000	2 Contact Lugs	4.8	800	70	20	301
	13426	16	**H7921-1**	165mm	Auto/Truck Special Service	12.8	50W	23,900	Slip-on Terminals	4.53	200	35	5	4, 109, 307
47460	**14892**	6/16	**H7935-1**	165mm	Halogen Spotlamp	12.8	50W	175,000	Slip-on Terminals	4.53	100	6½	3½	307
15767	**15763**	12/48	**H9405**	150mm	Spotlamp, Halogen	12.8	50W	100,000	2 Right Angle Lugs	3	100	7	4	307
15769	**15768**	12/48	**H9406**	150mm	Tractor, Flood, Halogen	12.8	50W	1,350	2 Right Angle Lugs	3	400	70	30	4, 307
15771	**15770**	12/48	**H9411**	150mm	Tractor, Trapezoidal	12.8	50W	5,400	2 Right Angle Lugs	3	400	Trapezoidal		4, 307
	15772	48	**H9414**	150mm	Tractor Medium Flood	12.8	50W	2,700	2 Right Angle Lugs	3	400	45	20	4, 307
16484	**16483**	12/48	**H9415**	150mm	Auto, Fog	12.8	37.5W	12,000	2 Right Angle Lugs	3	200	45	5	4, 307
17988		12	**H9415A**	150mm	Auto Fog Amber	12.8	37.5W	–	2 Right Angle Lugs	3	200	45	5	4, 307
16976	**16978**	12/48	**H9420**	150mm	Auto, Driving	12.8	50W	47,000	2 Right Angle Lugs	3	200	15	5	4, 307
16482	**16204**	12/48	**H9421**	150mm	Auto, Truck, Special Service	12.8	50W	4,000	2 Right Angle Lugs	3	200	45	8	4, 109, 307
22109		12	**Q4509**	PAR36	Aircraft Landing	13.0	100W	140,000	Screw Terminal	2.75	100	7	7	301
37706		12	**Q4554**	PAR46	Aircraft Taxiing	28.0	450W	65,000	Screw Terminals	2.63	100	50	11	301
40579		12	**Q4559**	PAR64	Aircraft Landing	28.0	600W	600,000	Screw Terminals	3.75	100	12	8	138, 301
42552		12	**Q4559X**	PAR64	Aircraft Landing	28.0	600W	765,000	Screw Terminals	3.75	100	11	7½	139, 301
41097		12	**Q4566**	PAR46	Aircraft Logo Light	28.0	450W	150,000	Screw Terminals	3.32	1,000	16	12	301
37372		12	**Q4597**	PAR46	Aircraft Flood	28.0	450W	16,000	Screw Terminals	3.32	1,000	60	35	301
40577		12	**Q4629**	PAR64	Aircraft Logo Light	28.0	600W	20,000	Screw Terminals	4.81	1000	55	35	301
34537		12	**Q4631**	PAR36	Aircraft Landing, Wing Inspection	13.0	250W	80,000	Screw Terminals	2.75	500	13	12	301
39112		12	**Q4632**	PAR36	Aircraft Logo	13.0	250W	75,000	Screw Terminals	2.75	500	14	12	301
36271		12	**Q4681**	PAR46	Aircraft Landing	28.0	450W	310,000	Screw Terminals	2.63	50	15	9	301
41452		12	**Q5551**	PAR46	Aircraft Taxiing	28.0	250W	60,000	Screw Terminals	3.32	100	48	12	301
16784		12	**Q5559**	PAR64	Aircraft Landing	28.0	600W	650,000	Screw Terminals	3.75	200	11	7½	138, 301
29130	**22227**	12/60	**Q7558**	PAR36	Landscaping	12.0	20W	365	Screw Terminals	2.75	5000	55	45	301
28113		12	**Q7559**	PAR36	Landscaping	12.0	20W	120	Screw Terminals	2.75	5000	70	70	301
28111		12	**Q7560**	PAR36	Landscaping	12.0	20W	1,900	Screw Terminals	2.75	5000	24	23	301
28874		12	**Q7561**	PAR36	Landscaping	12.0	20W	11,000	Screw Terminals	2.75	5000	9	8	301

FOOTNOTES

 # Footnote

1 Special ballast required per ECE R99.
2 B3 life, not average life.
3 Useful life hours.
4 Life at 14 volts.
10 Life at 5 volts.
11 Filament vertical.
12 Average overall length.
13 Filament supported.
14 This lamp may not be suitable for some uses because of its excessive wattage requirements for the bulb size.
15 This lamp may not be suitable for some uses because of its limited mechanical strength.
17 Filament shielded.
23 Life at 7 volts.
32 Designed and rated for operation in supplementary cathode preheat circuits.
33 Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.
44 Life at 6.6 volts.
68 Uses lens-end TL3¼ bulb. Provides 7,000 to 11,000 foot-candles in a ¼" diameter spot at ⅛" from end of bulb.
69 Not recommended for new OEM applications - suggested for new design are wedge base.
70 These lamps produce a random flashing indication only. The majority should flash between 40-160 flashes per minute at normal room temperature, some will be outside this range. As ambient temperature and/or input voltage changes, the flash rate may vary considerably. At rated voltage and room temperature most lamps will flash within 60 seconds.
75 Life estimated. Based on limited test information.
78 ANSI specifies .38" LCL and .63" MOL.
79 Life shown is AC voltage only. DC life will be approx. 50% of AC.
80 Light output is approx. end foot candles, not spherical MSCP.
92 Filament segments parallel.
109 Special fixture required for highway use.
110 To be used with variable load flasher in applications where bulb outage indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
113 This is a flange seal wire terminal lamp. When unbased lamps such as these are handled and wired into a device, damage can be kept to a minimum by allowing sufficient clearance so that no physical strain or excessive heat is placed on the exhaust tube, exhaust tube tip, or glass seal; by taking care in mounting lamp in equipment so that any material touching the glass is compatible in thermal expansion; and by avoiding excessive tensile strain on the lead wires.
116 Life tests are performed on DC voltage only.
121 To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
122 This is a wire terminal lamp. The glass-to-metal seal (and tip where applicable) are susceptible to damage by thermal shock, and soldering or welding within ⅛" of the glass should be avoided as glass cracks and air leaks may develop. Solderability may be adversely affected by storage for an extended period in excess of six months or by storage in a high humidity environment. Lamps with tinned leads would be subject to these storage restrictions. Nickel-plated leads are not recommended for soldering; however, their ability to be welded is not affected by these storage restrictions.
124 .028" metal pins spaced 44mm (.157") apart. GE's two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.
127 LCL measured to top of filament.
128 Output is minimum ¼" spot at .100" from bulb top.
130 Subminiature wedge base lamps under 12 volts have copper-clad outer lead wires to decrease contact resistance at the expense of corrosion resistance in severe environments.
132 Paint may peel, craze or discolor when subjected to excessive moisture, heat, and freezing in housings with plugged drain holes or which otherwise leak or trap moisture.
138 Life Test Conditions: Cycled 5 minutes on, 5 off.
139 Life Test Conditions: Cycled 20 minutes on, 20 off.
147 Differs from ANSI.
160 Filament will generate specified MSCP in a non shielded bulb.
161 MSCP measured with black top.
162 Life based on three hours of burning per start. MSCP at 100 Hrs. Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary equipment specially designed to produce proper electrical values according to established specification. For total load, add auxiliary watts to lamp watts.
164 Life to approximately 50% of initial output. Values shown apply to use on AC unless otherwise shown. Life on DC is approximately 60% of AC values when DC current is equal to R.M.S. (Root Mean Square) AC value. When equal DC and R.M.S. AC voltages and equal resistances are utilized, life will be approximately the same.
166 Contact Lugs are angled.
167 Filament shielded.

WARNINGS AND CAUTION NOTICES

301

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Pressurized lamp–unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

302

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid contact with glass during operation
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product

303

⚠ WARNING

Lamp may shatter if used in wrong circuit

- Do not use in 110-120 Volt household circuit

304

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Pressurized lamp–unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

FOR BEST PERFORMANCE

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

WARNINGS AND CAUTION NOTICES (CONTINUED)

305

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp

306

⚠ WARNING

Pressurized lamp–unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

307

⚠ WARNING

Pressurized lamp–unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

308

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Pressurized lamp–unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

FOR BEST PERFORMANCE

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

309

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

310

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Risk of fire

- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed
- Turn power off before installing lamp

Lamp may rupture if used on wrong ballast

- Use only properly rated ballast

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Remove and install by grasping only plastic portion of the lamp
- Do not use excessive force when installing lamp

INSTRUCTIONS

FDA Warning

WARNING - This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30.

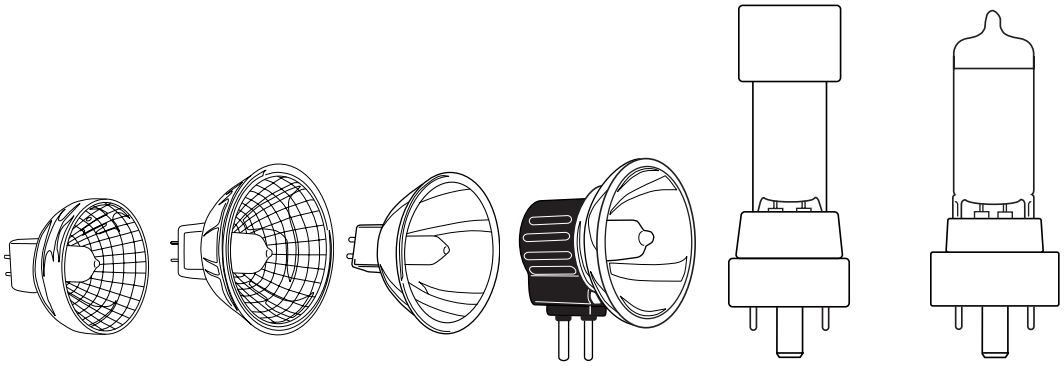
Hg - LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: www.lamprecycle.org or 1-800-435-4448

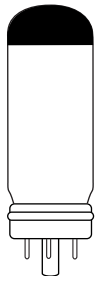
Lamp should be installed by an automotive service specialist.

LAMP LOCATOR



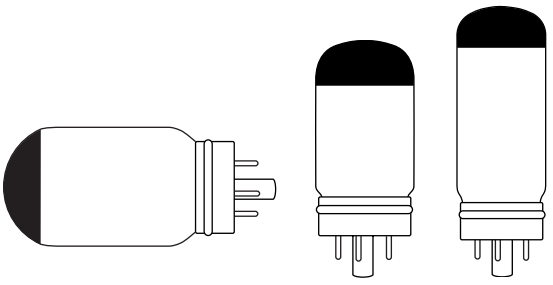
Mini Multi-Mirror® | Multi-Mirror® | Reflector | 2-Pin-Vented Base Reflector | 4-Pin Base CBA | 4-Pin Base BCK

Quartzline® Projection Lamps



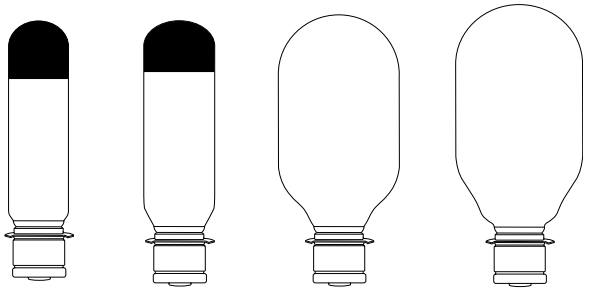
DAT / DAK
DAY / DAK

Incandescent Projection Lamps / 4-Pin Base



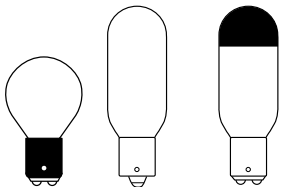
DEK / DFW / DHN | CAR | CZA / CZB

Incandescent Projection Lamps / 4-Pin Base – Proximity Reflector



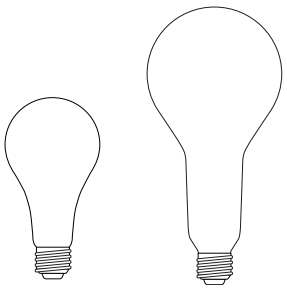
CZX / DAB | DDB | DRB DRC | DRS

Incandescent Projection Lamps / Medium Prefocus Base



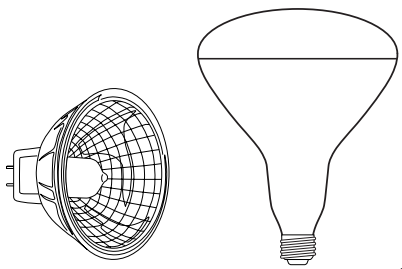
BLX
BLC
BNF | CDD | CBX/CBS

Incandescent Projection Lamps / Single or Double Contact Bayonet Base



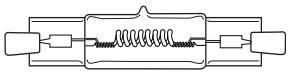
BAH
BBA
BCA
ECA | EBW
ECT

Standard Photofloods



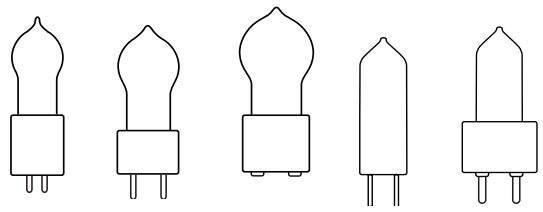
EXV
EXX
EZK | DXC
EAL

Reflector Photofloods



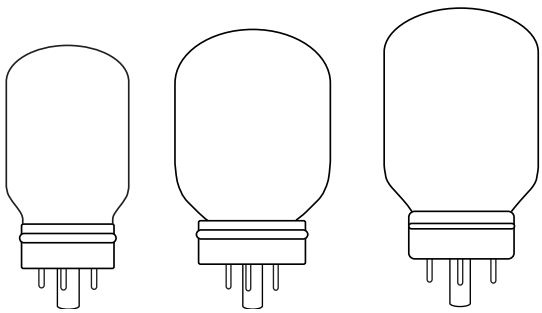
Double-Ended

Quartzline® Projection Lamps



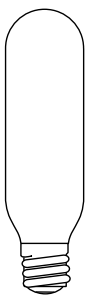
G-6
G5.3 | G-7
GZ9.5 | G-7
2 Button | T-4
GY6.35 | T-4
GZ9.5

Quartzline® Projection Lamps – Single-Ended



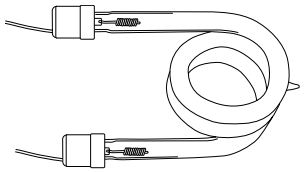
DFN / DFC/ DCH / DJA / DFP | DLD / DFZ
GX17q | DJL
G17q

Incandescent Projection Lamps / 4-Pin Base – Focusing Reflector



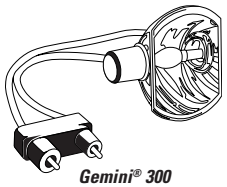
DPT
Mog Base

Incandescent Projection Lamps / Misc.



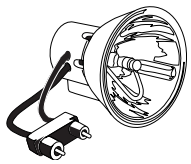
PXA-50
PXA-80

Pulsed Xenon Arc Lamps



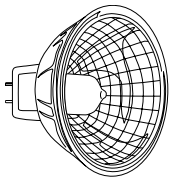
Gemini® 300
EZG

High-Intensity Gemini® Arc Lamps

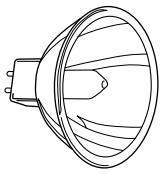


MARC 350 / 16T
EZT

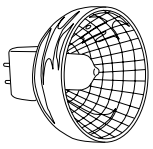
High-Intensity MARC™ Arc Lamps



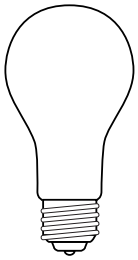
DDF ENH
EJL ESD
ELC ESJ
ELH EVW
EYA



EJV

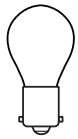


EZF/EZJ



PH/211
PH/212
PH/213
BBA

PH/140



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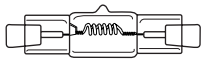
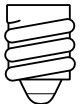


FAL
FFJ

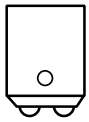
Enlarger & Printer Lamps

BASE IDENTIFICATION

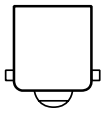
Typical bases used on Projection lamps in this catalog are shown below along with their names and common abbreviations. Where the base is an ANSI standard type, the ANSI reference code (which is the same as the IEC base code) is also shown. ANSI reference codes conform to American National Standard C81.10. C81.30. C81.50 specifications for electric lamp bases and lampholders. Illustrations are not to scale.



Candelabra
(Cand.)
E12/15

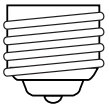


Double Contact Bayonet
(D.C. Bay.)
BA15d

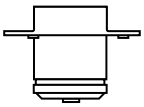


Single Contact Bayonet
(S.C. Bay.)
BA15s

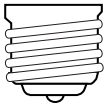
Candelabra Prefocus
(S.C. Pref.)
P30s
(D.C. Pref.)
P30d



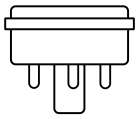
Medium
E26s



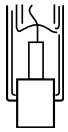
Medium Prefocus
P28/25



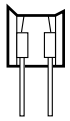
Mogul
E39



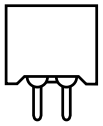
4-Pin
G17q (Std. Volts)
GX17q (Low Volts)



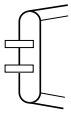
Recessed Single Contact
R7



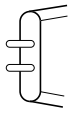
Glass 2-Pin
G6.35 (.040" diam. Pins)
GY6.35 (.050" diam. Pins)
GZ6.35 (Reflector Quartz-line® lamps)



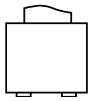
Miniature 2-Pin
G5.3



GY5.3 2-Pin
(Flat Pins)



GX5.3 2-Pin
(Round Pins)



2-Button

2-Pin Prefocus
GY & GZ9.5

2-Pin Vented
G7.9 (Std. Volts)
GX7.9 (Low Volts)

LIGHT CENTER LENGTH (LCL)

Light center length is the distance from the center of the light source to the point indicated below for the lamp base used. It is a measurement to which the lamp is designed and is subject to the manufacturer's tolerances.

Base Type	*LCL Reference*
All Screw Bases	Bottom base contact
Medium Prefocus	Top of base fins
S.C. or D.C. Bayonet	Top of base pins
2-Pin Prefocus	Bottom of base ceramic
Miniature 2-Pin	Bottom of base pins
Glass 2-Pin	Bottom of base pins

Base Type	*LCL Reference*
2-Button	Top of ceramic base to top of filament coil
2-Pin Vented	Bottom of base ceramic to lamp optical axis
4-Pin	Bottom edge of base cup
Locking 4-Pin	Bottom edge of base cup
S.C. , or D.C. Candelabra Prefocus	Plane of locating bosses on prefocus collar

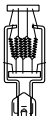
FILAMENT IDENTIFICATION

The configuration of the filament in all tungsten filament lamps (including Quartzline®) is identified by a prefix letter and a suffix number. The prefix letter indicates whether the filament wire is a single coil (C) or a coiled coil (CC). The suffix number indicates the form or arrangement of the filament coil or coils on its support structure. Illustrations are not to scale.


C-2V
CC2-V


C-9


2C-8
2CC-8


C-13


C-13D


C-6 Oval


C-6
CC-6


C-8
CC-8

INTRODUCTION

General Electric Projection Lamps are designed for a wide variety of applications... and now extending well beyond the original picture-taking and audio-visual projection uses into such fields as: fiber optical systems, graphic arts, video camera lights, airport runway markers, micrographics, photo printers and enlargers, medical/scientific instruments, and many others.

The information contained in this section is designed to provide end-users, equipment manufacturers, and lamp distributors and dealers with:

- Essential technical data on GE Projection Lamps (Quartzline®, Incandescent, MARC™ and Photoflood)
- Suggested substitutes for improved performance or discontinued lamps

The majority of Projection Lamps described herein are characterized by:

- Precisely manufactured, tailored filaments... maximizing source brightness, optimum performance in precision optical devices
- High light-generating efficacy (lumens per watt)... to help minimize power requirements and heat generation
- Prefocus type bases, or rim-reference mounting for Multi-Mirror® lamps... to position the filament accurately in relation to the associated optics
- Design life Rated Life (per ANSI Standard)
- Lamps with internal or external reflectors (as in Multi-Mirror® and some 4-pin projection lamps)... permitting high-efficiency illumination system designs with a minimum of additional optical control elements

Manufacturers and designers of equipment requiring lamps should select lamps of established design whenever possible for maximum economy, as well as for ease of replacement by their customers through regular trade channels. General Electric offers application engineering assistance to all customers for applying lamps in product design. Contact your local GE Lamp Representative for additional information or assistance.

CAUTION NOTICE

As with any product, certain precautions should be observed in the handling and use of GE Projection Lamps to provide optimum performance and safety. These are given in the Caution Notices that are printed on page 8-13.

Important Notice

This catalog contains accumulated data to March 2006. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular application or use in any particular equipment, nor are our representatives authorized to make any such representations or give any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such charges will improve its products.

GENERAL INFORMATION

General Electric Projection Lamps are briefly described in the alphabetical lamp index (pages 8-6 – 8-7). More extensive descriptive and performance data are found in the lamp tables, which are organized as "families" of lamps with one or more features in common – such as Multi-Mirror® Quartzline®, Single-Ended Quartzline®, 4-Pin Based Incandescent, Photoflood, etc. Within each table, lamps are listed alphabetically by GE Lamp Code.

GE MULTI-MIRROR® QUARTZLINE® PROJECTION LAMPS

Invented By GE For Optimized Projection System Performance.

The Multi-Mirror® and its new companion, the Mini Multi-Mirror®, are reflector halogen Quartzline® lamps with innovative GE features that result in better system efficiency, screen uniformity, lamp-to-lamp consistency and relamping convenience.

Feature	Benefit	Applications
• Dichroic reflector	• Cool light beam • Efficient light reflection	• Slide Projection • Front/Rear Screen Projection • Microfilm • Overhead Projection • 16mm Movie • 8mm Movie • Film Strip • Enlargers/Printers • Fiber Optics • Medical/Scientific Instruments • Video Camera Lights • Airport Runways • Display
• Precise rim reference • Accurate snap-in alignment	• Quick lamp installation	
• Faceted reflector	• Efficient beam for brighter image • Uniform screen image • Precision beam control	
• Halogen Quartzline® lamp	• Whiter and brighter light • No bulb blackening/blistering • Constant light output through life • Stable color temperature	

Each GE Multi-Mirror® lamp type is optically tailored to its application. First, the appropriate type of multi-faceted reflector is determined. Then a filament tube developed, using advanced Quartzline® technology. Finally, the two are combined, using sophisticated, computerized precision-assembly techniques. The result – consistently high performance... lamp after lamp after lamp.

INDEX-ANSI CODED GE PROJECTION LAMPS

Order Code	Description	Watts	Volts	Bulb Shape	Base	Table No.	Page No.
	BAB USE Q20MR16CG40BAB						
10933	BAB/PH	20	12	MR16	GX5.3 2-Pin	3	9
40886	BAH	300	115	A21	Medium	18	12
40563	BBA	250	118	A21	Medium	18	12
40564	BCA	250	118	A21	Medium	18	12
36178	BCK	500	120	T6	G17q 4-Pin	6	10
40658	BHB	250	120	MR14	G7.9 2-Pin	5	10
	BHC USE DYS/DYV/BHC						
29140	BLC	30	118	S11	D. C. Bay.	15	12
30232	BLK	30	125	S11	Cand.	18	12
29156	BLX	50	118	S11	D. C. Bay.	15	12
32137	BNF	75	120	S11	D. C. Bay.	15	12
29604	BRH	1000	120	T5	R7s	9	11
18234	BRL	50	12	T3.5	G6.35 2-Pin	7	10
30421	BXB	34	8.5	T8	S. C. Pref.	16	12
29525	CAL	300	120	T10	G17q 4-Pin	11	11
29380	CAR	150	120	T10	G17q 4-Pin	11	11
29171	CAX	50	118	T8	D. C. Bay.	15	12
29169	CAX	50	130	T8	D. C. Bay.	15	12
	CBS USE CBX/CBS						
29208	CBX/CBS	75	118	T8	D. C. Bay.	15	12
29257	CDD	100	120	T8	S. C. Bay.	14	12
29266	CDJ	100	118	T8	D. C. Bay.	15	12
29244	CEB	100	118	T8	D. C. Bay.	15	12
43330	CEM	120	120	T8	S. C. Bay.	14	12
29664	CZA/CZB	500	120	T10	G17q 4-Pin	11	11
	CZB USE CZA/CZB						
29677	CZX/DAB	500	120	T10	Med. Pref.	13	12
	DAB USE CZX/DAB						
	DAK USE DAT/DAK						
40214	DAT/DAK	400	120	T10	G17q 4-Pin	10	11
29695	DAY/DAK	500	120	T10	G17q 4-Pin	10	11
29360	DCA	150	21	T12	GX17q 4-Pin	12	11
29364	DCH/DJA/DFP	150	120	T12	G17q 4-Pin	12	11
43537	DDL	150	20	MR16	GX5.3 2-Pin	3	9
43206	DDM	80	19	MR16	GX5.3 2-Pin	3	9
43988	DDS	80	21	MR16	GX5.3 2-Pin	3	9
43950	DED	85	13.8	MR16	GX5.3 2-Pin	3	9
29737	DEK/DFW/DHN	500	120	T12	G17q 4-Pin	11	11
	DFC USE DFN/DFC						
36122	DFE	80	30	T12	GX17q 4-Pin	12	11
29386	DFN/DFC	150	125	T12	G17q 4-Pin	12	11
	DFP USE DHC/DJA/DFP						
	DFW USE DEK/DFW/DHN						
	DFZ USE DLD/DFZ						

INDEX-ANSI CODED GE PROJECTION LAMPS (CONTINUED)

Order Code	Description	Watts	Volts	Bulb Shape	Base	Table No.	Page No.
	DHN USE DEK/DFW/DHN						
	DHX USE DLS/DLG/DHX						
	DJA USE DHC/DJA/DFP						
29338	DJL	150	120	T14	G17q 4-Pin	12	12
44854	DJT	50	13.8	MR16	GX5.3 2-Pin	3	9
40216	DLD/DFZ	80	30	T14	GX17q 4-Pin	12	12
	DLG USE DLS/DLG/DHX						
29366	DLS/DLG/DHX	150	22	T14	GX17q 4-Pin	12	12
40161	DNE	150	120	MR16	G7.9 2-Pin	5	10
39742	DNF	150	21	MR16	GX7.9 2-Pin	5	10
29959	DPT	1000	120	T20	Mogul	17	12
29968	DRB	1000	118	T20	Med. Pref.	13	12
29947	DRS	1000	120	T20	Med. Pref.	13	12
30304	DVY	650	120	G6	G5.3 2-Pin	7	10
30151	DXB	500	120	R40	Medium	19	13
30145	DXC	500	120	R40	Medium	19	13
36952	DXX	800	230	T4	R7s	9	11
36953	DXX	800	240	T4	R7s	9	11
30364	DYH	600	120	G7	G5.3 2-Pin	7	10
32071	DYP	600	120	G7	2-Button	7	10
33248	DYR	650	220	G7	GZ9.5 2-Pin Pf	7	10
33250	DYR	650	240	G7	GZ9.5 2-Pin Pf	7	10
32955	DYS/DYV/BHC	600	120	G7	GZ9.5 2-Pin Pf	7	10
	DYV USE DYS/DYV/BHC						
19479	DYS-5	600	120	G7	GZ9.5 2-Pin Pf	7	10
37346	DZA	30	10.8	T3.5	G5.3 2-Pin	7	10
37695	DZE/FDS	150	24	T4	GZ9.5 2-Pin Pf	7	10
30202	EAJ	35/25	12	T6.4	D.C. Bay.	15	12
30281	EAL	500	120	R40	Medium	19	13
40566	EBV	500	118	PS25	Medium	18	12
40567	EBW PH/B2	500	118	PS25	Medium	18	12
40565	ECA	250	120	A23	Medium	18	12
40568	ECT	500	120	PS25	Medium	18	12
21276	EFM	50	8	MR16	GZ6.35 2-Pin	3	9
21277	EFN	75	12	MR16	GZ6.35 2-Pin	3	9
21278	EFP	100	12	MR16	GZ6.35 2-Pin	3	9
21279	EFR	150	15	MR16	GZ6.35 2-Pin	3	9
37527	EHA	500	120	T6	GZ9.5 2-Pin Pf	7	10
14874	EHJ	250	24	T4	G6.35 2-Pin	7	10
32882	EJA	150	21	MR16	GX5.3 2-Pin	4	10
29150	EJL	200	24	MR16	GX5.3 2-Pin	3	9
29151	EJM	150	21	MR16	GX5.3 2-Pin	3	9
	EJN USE ELD/EJN						
32831	EJV	150	21	MR16	GX5.3 2-Pin	4	10
32886	EJY	80	19	MR16	GX5.3 2-Pin	4	10
35200	EKE	150	21	MR16	GX5.3 2-Pin	3	9

Order Code	Description	Watts	Volts	Bulb Shape	Base	Table No.	Page No.
INDEX-ANSI CODED GE PROJECTION LAMPS (CONTINUED)							
35800	**EKP/ENA**	80	30	MR16	GX5.3 2-Pin	3	9
	EKS USE EMM/EKS						
36899	**EKX**	200	24	MR16	GX5.3 2-Pin	3	9
36902	**EKZ**	30	10.8	MR16	GX5.3 2-Pin	3	9
37462	**ELC**	250	24	MR16	GX5.3 2-Pin	3	9
15377	**ELC/500**	250	24	MR16	GX5.3 2-Pin	3	9
22023	**ELC/C**	250	24	MR16	GX5.3 2-Pin	3	9
38306	**ELD/EJN**	150	21	MR16	GX5.3 2-Pin	3	9
38476	**ELH**	300	120	MR16	GY5.3 2-Pin	3	9
	ELR USE ELS/ELR						
41885	**ELS/ELR**	50	18	MR14	GX7.9 2-Pin	5	10
42612	**EML**	175	24	T4	G5.3 2-Pin	7	10
40017	**EMM/EKS**	250	24	MR14	GX7.9 2-Pin	5	10
	ENA USE EKP/ENA ENC USE ENW/ENC						
38686	**ENH**	250	120	MR16	GY5.3 2-Pin	3	9
25475	**ENL**	50	12	MR16	GX5.3 2-Pin	3	9
40248	**ENW/ENC**	80	19	MR16	GX5.3 2-Pin	3	9
41705	**ENX**	360	82	MR16	GY5.3 2-Pin	3	9
19475	**ENX-5**	360	86	MR16	GY5.3 2-Pin	3	9
40598	**ENZ**	50	30	MR16	GX5.3 2-Pin	4	10
41430	**EPN**	35	12	MR16	GX5.3 2-Pin	3	9
41729	**EPT**	42	10.8	MR16	GX5.3 2-Pin	3	9
41882	**EPV**	90	14.5	MR16	GX5.3 2-Pin	3	9
42614	**EPX**	90	14.5	MR16	GX5.3 2-Pin	3	9
41874	**ERV**	340	36	MR16	GX5.3 2-Pin	3	9
43756	**ESD**	150	120	MR16	GY5.3 2-Pin	3	9
11698	**ESJ**	85	82	MR16	GY5.3 2-Pin	3	9
11322	**ETJ**	250	120	MR16	GY5.3 2-Pin	3	9
38311	**ETT**	1000	120	T5	R7s	9	11
41164	**EVD**	400	36	T6	GY6.35 2-Pin	7	10
10099	**EVV**	120	6.6A	T4	GZ9.5 2-Pin	8	11
11110	**EVW**	250	82	MR16	GY5.3 2-Pin	3	9
11427	**EWR**	150	6.6A	T4	GZ9.5 2-Pin	8	11
11478	**EXL**	30	6.6A	T3.5	GZ9.5 2-Pin	8	11
11482	**EXM**	45	6.6A	T3.5	GZ9.5 2-Pin	8	11
12092	**EXR**	300	82	MR13	GX5.3 2-Pin	2	9
12003	**EXV**	100	12	MR16	GX5.3 2-Pin	3	10
12095	**EXW**	300	82	MR13	GX5.3 2-Pin	2	9
11750	**EXX**	250	120	MR16	GY5.3 2-Pin	3	10
12097	**EXY**	250	82	MR13	GX5.3 2-Pin	2	9
12696	**EYB**	360	82	T3.5	G5.3 2-Pin	7	11
19322	**EYB-5**	360	86	T3.5	G5.3 2-Pin	7	11
13617	**EYH/FKT**	250	120	G6	G5.3 2-Pin	7	11
41783	**EZA/4**	32	6.6A	MR16	Wire Term.	3	10
23071	**EZC**	45	6.6A	MR16	GX5.3 2-Pin	3	10
15832	**EZF/EZJ**	225	68	MR13	GX5.3 2-Pin	2	9
	EZJ USE EZF/EZJ						
15477	**EZK**	150	120	MR16	GY5.3 2-Pin	3	10
15243	**EZL**	200	6.6A	T4	GZ9.5 2-Pin	8	11
29581	**FAL**	420	120	T4	R7s	9	11
	FBD USE FBG/FBD						
33663	**FBG/FBD**	500	120	G6	G5.3 2-Pin	7	11
29598	**FCB**	600	120	T4	R7s	9	11
14876	**FCR**	100	12	T3	GY6.35 2-Pin	7	11
13598	**FCS**	150	24	T4	G6.35 2-Pin	7	11
	FDS USE DZE/FDS						
35321	**FDT**	100	12	T3	GZ9.5 2-Pin Pf	7	11
36878	**FDV**	150	24	T4	G6.35 2-Pin	7	11
29592	**FFJ**	600	120	T4	R7s	9	11
30276	**FFM**	420	120	T4	R7s	9	11
47614	**FHS**	300	82	MR13	GX5.3 2-Pin	2	9
47914	**FHX**	25	13.8	MR16	GX5.3 2-Pin	3	10
	FKT USE EYH/FKT						
30894	**FLS**	28	12	MR11	GZ4 2-Pin	1	9
25261	**FLT**	28	13.8	MR11	GZ4 2-Pin	1	9
19886	**FLW**	300	24	T4	GY6.35 Ceramic	7	11
14887	**FML**	50	13.8	MR16	GX5.3 2-Pin	3	10
18241	**FNT/100**	275	24	T4	G6.35 2-Pin	7	11
21613	**FXL**	410	82	MR16	GY5.3 2-Pin	3	10
80853	**GCA**	250	120	T3.5	G5.3	7	11
11134	**GEMINI 300(EZG)**	300	35	PAR20	Special 2-Pin Plug	21	13
39936	**MARC 350-16T EZT**	350	45	PAR24	Special 2-Pin Plug	21	13
30162	**PH/111A**	75	125	S11	S.C. Bay.	20	13
43220	**PH/140**	75	120	S14	Medium	20	13
40569	**PH/211**	75	120	A21	Medium	20	13
40570	**PH/212**	150	120	A21	Medium	20	13
40571	**PH/213**	250	120	A21	Medium	20	13
30124	**PXA 50**	4000		T3	WireTerm/Ceramic	21	13
30129	**PXA/80**	8000		T3	WireTerm/Ceramic	21	13

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Projection lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by ANSI code.

ANSI Codes
These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps.

Multiple-ANSI-Coded Projection Lamps
Some GE Projection Lamps have an ordering code comprising two or more 3-letter ANSI codes – such as EM/EKS and DYS/DYV/BHC. The first code is the ANSI code, the secondary codes identify which the multiple-coded lamp can directly replace. Only the first code appears on the lamp itself. Multiple-coded lamps are so-designated by General Electric for the convenience of the customer.

Maximum Overall Length (MOL)
This dimension include the lamp bulb and all rigid parts of the base. Since the listed lengths include maximum tolerances, actual lamps are generally slightly shorter.

Bulb
Projection Lamp bulb designations use a combination of letters and numerals to indicate bulb shape and maximum diameter in eighths of an inch. For example: a "T12" bulb is Tubular-shaped and 12-eighths of an inch, or 1 1/2" in diameter. Illustrations of typical Projector Lamps and their respective bulb designations are shown in the tables of lamp families, pages 8-9 – 8-13.

Base
Projection Lamp base illustrations appear on page 8-3, along with their common trade names and abbreviations, plus their letter-number ANSI/IEC designations where applicable.

Watts (or Amps)
This column shows the rated power consumption (watts) of the lamp at its design voltage. A few lamps, in Table 8, are rated in terms of current (amperes) drawn initially at their rated voltage. The watts shown for the lamps in Table 8 are the approximate initial values for operation at rated amperes.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description
This is a 3-letter or letter-number code uniquely identifying the lamp for ordering purposes. In some instances, lamps with 3-letter (ANSI) codes are offered in more than one design voltage, in which case the voltage required should also be specified when ordering.

Volts
The voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps are available only in the design voltage(s) shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required. (Supply voltage variation can significantly affect lamp life.)

Case Quantity:
Number of product units packed in a case.

Filament
Typical filament configurations for Projection Lamps are shown on page 8-4, along with an explanation of the filament designation system.

Light Center Length (LCL)
This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 8-3 for the various styles of lamp bases.

Rated Life
Life ratings of Projection Lamps are based on closely controlled laboratory tests of lamps, at their rated voltage, over a long period of production time. Rated Life is not necessarily the same as service life; mechanical shock and vibration, voltage fluctuation, temperature and other environmental factors may result in shorter service life. As with any median value, some individual lamps will operate longer, and some will operate shorter, than their Rated Life. (Supply voltage variation can significantly affect lamp life.)

Initial Lumens
The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or minimum of 2 hours) or more of their rated average life.

Color Temperature
The radiation within the visible spectrum from tungsten filament lamps is similar in spectral distribution to that from a "blackbody" at specific color temperatures. The Color Temperatures shown are approximate initial values in degrees kelvin (K) for lamps operated at rated voltage.

CBCP (Center Beam Candlepower):
For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Operating Position
For good performance, lamps must be used within specified limitations on operating position. The following abbreviations are used in the lamp tables to indicate these limits:
BD = Base Down. Operate only vertical, base down.
HD = Base Down to Horizontal. Do not operate base above horizontal.
H22 = Operate base down to 22° base up.
U = Operate in any position.

Additional Information
Typical application and/or other important information.

Source Size
This is defined as the dimensions of the rectangular area, centered on the lamp axis, within which all luminous parts of the filament lie, when viewed perpendicular to the axis of the filament coil or to the plane of C-13 and C-13D filaments.

Typical Working Distance
For Multi-Mirror® and other reflector Quartzline® lamps and MARC™ lamps, the Working Distance shown is the distance from the front surface of the reflector rim to the film plane, in the optical system for which the lamp was first designed. In most cases, it provides a uniform plane of light for the intended aperture.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Burn Position	Additional Information	Footnote	Typical Working Distance	Source Size (WxH)
QUARTZLINE® MULTI-MIRROR® REFLECTORS																		
MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3.																		
MR16	GX5.3 2-Pin	150	**43537**	**DDL**	20	20	C-6	1.75		500		3150		HD	Microfilm	A	7.75	

DDL

ANSI Code.

For the most up-to-date product information, see www.gelighting.com.
All footnote references found at the end of this section (page 8-13). To convert inches to millimeters, multiply by 25.4.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Burn Position	Additional Information	Footnote	Typical Working Distance	Source Size (WxH)
QUARTZLINE® MULTI-MIRROR® REFLECTORS																		
MR-11 FACETED DICHROIC REFLECTOR. 1⅜" DIAMETER (35MM). TABLE 1.																		
MR11	GZ4 2-Pin	28	**30894**	**FLS**	12	10	CC-6	1.38		1000		3000		HD	Microfilm	A		
			25261	**FLT**	13.8	10	CC-6	1.38		500		3050		HD	Microfilm	A		
MR-13 FACETED DICHROIC REFLECTOR. 1⅔" DIAMETER(42MM). TABLE 2.																		
MR13	GX5.3 2-Pin	300	**12092**	**EXR**	82	20	CC-8	1.75		35		3350		HD	Slide projection	A	6.00	
			12095	**EXW**	82	20	CC-8	1.75		15		3450		HD	Slide projection	A	6.00	
		250	**12097**	**EXY**	82	20	CC-8	1.75		200		3200		HD	Slide projection	A	6.00	
		225	**15832**	**EZF/EZJ**	68	20	CC-8	1.75		350				HD	Color printer.	A, R		
		300	**47614**	**FHS**	82	20	CC-8	1.75		70		3300		HD	Slide projection	A	6.00	
MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3.																		
MR16	GX5.3 2-Pin	20	**10933**	**BAB/PH**	12	20	C-6	1.88		2000		2900		HD	Flood	A	5.00	
		150	**43537**	**DDL**	20	20	C-6	1.75		500		3150		HD	Microfilm	A	7.75	
		80	**43206**	**DDM**	19	20	CC-6	1.75		50		3350		HD	Slide projection	A	6.00	
		80	**43988**	**DDS**	21	20	CC-6	1.75		1000		3125		HD	Microfilm	A	6.50	
		85	**43950**	**DED**	13.8	20	C-6	1.75		1000		3150		HD	Microfilm	A	6.50	
		50	**44854**	**DJT**	13.8	20	CC-6	1.75		1000		3150		HD	Microfilm	A	6.00	
	GZ6.35 2-Pin	50	**21276**	**EFM**	8	20	C-6	1.75		50		3300		HD	8mm projection	A	1.25	
		75	**21277**	**EFN**	12	20	CC-6	1.75		50		3350		HD	8mm projection	A	1.25	
		100	**21278**	**EFP**	12	20	CC-6	1.75		50		3350		HD	8mm projection	A	1.25	
		150	**21279**	**EFR**	15	20	CC-6	1.75		50		3350		HD	8mm projection	A	1.25	
	GX5.3 2-Pin	200	**29150**	**EJL**	24	20	CC-6	1.75		50		3400		HD	16mm, Color printer	A	1.25	
		150	**29151**	**EJM**	21	20	CC-6	1.75		40		3350		HD	8mm projection	A	1.50	
		150	**35200**	**EKE**	21	20	CC-6	1.75		250		3250		HD	8mm projection, fiber optics	A	1.75	
		80	**35800**	**EKP/ENA**	30	20	CC-6	1.75		25		3350		HD	8mm projection	A	1.75	
		200	**36899**	**EKX**	24	20	CC-6	1.75		25		3400		HD	Microfilm	A	5.50	
		30	**36902**	**EKZ**	10.8	20	C-6	1.75		200		3100		HD	16mm projection	A	1.50	
		250	**37462**	**ELC**	24	20	CC-6	1.75		50		3400		HD	Fiber optics, color printer	A	1.25	
		250	**22023**	**ELC/C**	24	20	CC-6	1.75		50		3400		HD	Fiber optics, color printer	A	1.25	
		250	**15377**	**ELC/500**	24	20	CC-6	1.75		500		3350		HD	Fiber optics, disco	A	1.25	
		150	**38306**	**ELD/EJN**	21	20	CC-6	1.75		40		3350		HD	Microfilm	A	6.50	
	GY5.3 2-Pin	300	**38476**	**ELH**	120	20	CC-8	1.75		35		3350		HD	Slide projection	A	6.00	
		250	**38686**	**ENH**	120	20	CC-8	1.75		175		3250	11700	HD	Slide projection	A	6.00	
	GX5.3 2-Pin	50	**25475**	**ENL**	12	20	C-6	1.75		4000		3050		HD	Fiber optics, display lighting	A	1.50	
		80	**40248**	**ENW/ENC**	19	20	CC-6	1.75		200		3200		HD	8mm projection	A	1.75	
	GY5.3 2-Pin	360	**41705**	**ENX**	82	20	CC-8	1.75		75		3300		HD	Overhead projection	A	11.75	
			19475	**ENX-5**	86	20	CC-8	1.75		75		3300		HD	Overhead projection	A		
	GX5.3 2-Pin	35	**41430**	**EPN**	12	20	C-6	1.75		50		3300		HD	8mm projection	A	1.13	
		42	**41729**	**EPT**	10.8	20	C-6	1.75		10000		2900		HD	Fiber optics	A	1.50	
		90	**41882**	**EPV**	14.5	20	CC-6	1.75		500		3150		HD	Microfilm	A	6.13	
			42614	**EPX**	14.5	20	CC-6	1.75		500		3150		HD	Microfilm	A	6.50	
		340	**41874**	**ERV**	36	20	CC-8	1.75		75		3300		HD	Overhead projection	A	11.75	
	GY5.3 2-Pin	150	**43756**	**ESD**	120	20	CC-8	1.75		12		3350		HD	Enlarger, projection	A	1.75	
		85	**11698**	**ESJ**	82	20	CC-8	1.75		40		3350		HD	Enlarger, projection	A	1.75	
		250	**11322**	**ETJ**	120	20	CC-8	1.75		175		3300		HD	Fiber Optics	A	1.50	
		250	**11110**	**EVW**	82	20	CC-8	1.75		50		3300		H22	Overhead projection	A	11.75	

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Burn Position	Additional Information	Footnote	Typical Working Distance	Source Size (WxH)
QUARTZLINE® MULTI-MIRROR® REFLECTORS (CONTINUED)																		
MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3. (CONTINUED)																		
MR16	GX5.3 2-Pin	100	**12003**	**EXV**	12	20	CC-6	1.75		50	3100	3350	3100	U	Camera Light	A		
		250	**11750**	**EXX**	120	20	CC-8	1.75		25	6750	3300	6750	U	Camera Light	A		
	Wire Term.	32	**41783**	**EZA/4**	6.6A	20	C-8	1.75		1000		2900	4500	HD	Airport	A		
	GX5.3 2-Pin	45	**23071**	**EZC**	6.6A	20	C-8	1.75		1000		2950		HD	Airport	A		
	GY5.3 2-Pin	150	**15477**	**EZK**	120	20	CC-8	1.75		200		3200	3600	U	Camera Light	A		
	GX5.3 2-Pin	25	**47914**	**FHX**	13.8	20	CC-6	1.75		250		3200		HD	Microfilm	A	4.13	
		50	**14887**	**FML**	13.8	20	CC-6	1.75		1000		3150		HD	Microfilm	A	8.44	
	GY5.3 2-Pin	410	**21613**	**FXL**	82	20	CC-8	1.75		38		3300		HD	Overhead projection	A	11.75	
	2-Pin w/LEADS	150	**25137**	**Q150MR 16-15/LEADS**	15	20	C-8	1.88		150		3400		HD		A	1.75	
QUARTZLINE® REFLECTOR LAMPS																		
MR-16 SMOOTH DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 4.																		
MR16	GX5.3 2-Pin	150	**32882**	**EJA**	21	20	CC-6	1.75		40		3350		HD	Fiber Optics	A	1.10	
		150	**32831**	**EJV**	21	20	CC-6	1.75		40		3350		HD	8mm proj., printer	A	1.75	
		80	**32886**	**EJY**	19	20	CC-6	1.75		25		3400		HD	Fiber Optics	A	1.50	
		50	**40598**	**ENZ**	30	20	CC-6	1.75		25		3450		HD	8mm projection	A	1.25	
MR-14 (1¾" DIAMETER) OR MR-16 (2" DIAMETER) DICHROIC REFLECTOR. 2-PIN VENTED BASE. TABLE 5.																		
MR14	G7.9 2-Pin	250	**40658**	**BHB**	120	24	CC-8	1.67		25		3350		HD	16mm projection	A	2.63	
MR16	G7.9 2-Pin	150	**40161**	**DNE**	120	24	CC-8	1.77		12		3350		HD	8mm projection	A	2.75	
	GX7.9 2-Pin	150	**39742**	**DNF**	21	24	CC-8	1.77		25		3400		HD	8mm projection	A	2.75	
MR14	GX7.9 2-Pin	50	**41885**	**ELS/ELR**	18	24	CC-8	1.41		650		3100		HD	Microfilm	A	4.75	
		250	**40017**	**EMM/EKS**	24	24	CC-8	1.66		50		3400		HD	16mm projection	A	2.63	
QUARTZLINE® SINGLE-ENDED																		
4-PIN SLIDE PROJECTION. TABLE 6.																		
T6	G17q 4-Pin	500	**36178**	**BCK**	120	24	C-13D	3.25	1.56	50		3200		HD	Slide Projection.	A, D		
APPLICATIONS: PROJECTION, MICROFILM, STUDIO, ETC. TABLE 7.																		
T3.5	G6.35 2-Pin	50	**18234**	**BRL**	12	100	C-6	1.72	1.17	50	1400	3400		U		A		
G6	G5.3 2-Pin	650	**30304**	**DVY**	120	24	CC-6	2.48	1.44	25	20000	3300		HD		A, E		.50 x .20
G7	G5.3 2-Pin	600	**30364**	**DYH**	120	24	CC-6	2.50	1.44	75	17000	3200		U		A		.50 x .25
	2-Button	600	**32071**	**DYP**	120	24	CC-6	2.25	1.00	75	17000	3200		HD		A		.50 x .25
	GZ9.5 2-Pin Pf	650	**33248**	**DYR**	220	24	2CC-8	2.50	1.44	50	16500	3200		U		A		.45 x .45
			33250	**DYR**	240	24	2CC-8	2.50	1.44	50	16500	3200		U		A		.45 x .45
		600	**19479**	**DYS-5**	120	24	CC-6	2.50	1.44	150	15500	3200		HD		A		.45 x .45
			32955	**DYS/DYV/ BHC**	120	24	CC-6	2.50	1.44	75	17000	3200		HD		A		.50 x .25
T3.5	G5.3 2-Pin	30	**37346**	**DZA**	10.8	24	C-6	2.00	1.06	400	530	3100		HD		A		.15 x .05
T4	GZ9.5 2-Pin Pf	150	**37695**	**DZE/FDS**	24	24	C-6 Oval	2.68	1.31	100	4000	3250		HD		A		.25 x .15
T6	GZ9.5 2-Pin Pf	500	**37527**	**EHA**	120	24	C-13D	3.00	1.44	50		3300		HD		A, D		.35 x .35
T4	G6.35 2-Pin	250	**14874**	**EHJ**	24	100	C-6 Oval	2.25	1.31	50	8000	3400		HD		A		.30 x .15
	G5.3 2-Pin	175	**42612**	**EML**	24	24	C-6	2.12	1.06	125	5000	3200		HD		A		.21 x .19
T6	GY6.35 2-Pin	400	**41164**	**EVD**	36	24	C-6	2.34	1.40	50	14500	3200		HD	Overhead projector	A		

For the most up-to-date product information, see www.gelighting.com.

All footnote references found at the end of this section (page 8-13). To convert inches to millimeters, multiply by 25.4.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Burn Position	Additional Information	Footnote	Typical Working Distance	Source Size (WxH)
QUARTZLINE® SINGLE-ENDED (CONTINUED)																		
APPLICATIONS: PROJECTION, MICROFILM, STUDIO, ETC. TABLE 7. (CONTINUED)																		
T3.5	G5.3 2-Pin	360	**12696**	**EYB**	82	24	CC-8	2.25	1.25	75	10000	3300		HD		A		.30 x .20
			19322	**EYB-5**	86	24	CC-8	2.25	1.25	75		3200		HD		A		.30 x .20
G6	G5.3 2-Pin	250	**13617**	**EYH/FKT**	120	24	CC-6	2.50	1.44	200	6000	3000		HD		A		.55 x .17
		500	**33663**	**FBG/FBD**	120	24	CC-6	3.00	1.75	50	13200	3200		U		A		.50 x .20
T3	GY6.35 2-Pin	100	**14876**	**FCR**	12	100	C-6 Oval	1.75	1.18	50	2800	3300		HD		A		.20 x .15
T4	G6.35 2-Pin	150	**13598**	**FCS**	24	100	C-6 Oval	2.00	1.18	50	4500	3300		HD		A		.25 x .15
T3	GZ9.5 2-Pin Pf	100	**35321**	**FDT**	12	24	C-6 Oval	2.12	1.06	50	2900	3300		HD		A		.23 x .15
T4	G6.35 2-Pin	150	**36878**	**FDV**	24	24	C-6 Oval	2.00	1.19	100	4300	3050		U		A		.25 x .15
	GY6.35 Ceramic	300	**19886**	**FLW**	24	48	C-6 Oval	2.15	1.21	50	10200	3500		HD		A		.34 x .23
	G6.35 2-Pin	275	**18241**	**FNT/100**	24	100	C-6 Oval	2.25	1.31	50	10000	3400		HD		A		.14 x .28
T3.5	G5.3	250	**80853**	**GCA**	120	12	CC-8	2.24	1.26	200	5700	3200		U		A		
QUARTZLINE® SINGLE-ENDED – AMP RATED. TABLE 8.																		
T4	GZ9.5 2-Pin	120	**10099**	**EVV**	6.6A	24	C-6 Oval	2.50	1.54	500	3150	3200		BD	Airport	A		.25 x .12
		150	**11427**	**EWR**	6.6A	24	C-6 Oval	2.50	1.54	500	4100	3200		BD	Airport	A		.25 x .16
T3.5	GZ9.5 2-Pin	30	**11478**	**EXL**	6.6A	24	C-8	1.75	1.00	1000	375	2900		HD	Airport	A		.05 x .13
		45	**11482**	**EXM**	6.6A	24	C-8	1.75	1.00	1000	750	2950		HD	Airport	A		.06 x .19
T4	GZ9.5 2-Pin	200	**15243**	**EZL**	6.6A	24	C-6 Oval	2.50	1.54	500	5000	3100		BD	Airport	A		.28 x .19
QUARTZLINE® DOUBLE-ENDED PROJECTION. TABLE 9.																		
T5	R7s	1000	**29604**	**BRH**	120	24	CC-8	3.75		60	30000	3350		U	Overhead Projection	A		.70 x .21
T4	R7s	800	**36952**	**DXX**	230	24	CC-8	3.13		75	21400	3200		U	Copyboard, Studio	A		.90 x .17
			36953	**DXX**	240	24	CC-8	3.13		75	21400	3200		U	Copyboard, Studio	A		.90 x .17
T5	R7s	1000	**38311**	**ETT**	120	24	CC-8	3.75		70		3350		U	Spec. (PH1000H)	A		
T4	R7s	420	**29581**	**FAL**	120	24	CC-8	2.63		90	11000	3200		U	Printer	A		.35 x .17
		600	**29598**	**FCB**	120	24	CC-8	3.75		120	17000	3250		U	Overhead Projection	A		.45 x .18
			29592	**FFJ**	120	24	CC-8	2.63		85	17000	3250		U	Printer	A		.60 x .17
		420	**30276**	**FFM**	120	24	CC-8	3.13	0.50	90	11000	3200		U	Copyboard	A		.50 x .25
INCANDESCENT PROJECTION																		
4-PIN BASE. TABLE 10.																		
T10	G17q 4-Pin	400	**40214**	**DAT/DAK**	120	24	C-13D	4.00	1.56	25	9800	3200		BD	Slide Projection	A		
		500	**29695**	**DAY/DAK**	120	24	C-13D	4.00	1.56	30	12500	3200		BD	Slide Projection.	A, J		
4-PIN BASE – PROXIMITY REFLECTOR. TABLE 11.																		
T10	G17q 4-Pin	300	**29525**	**CAL**	120	24	C-13	4.00	1.56	25		3200		BD	Slide, Film Strip.	A, I		
		150	**29380**	**CAR**	120	24	2CC-8	3.13	1.31	15		3100		BD	Slide, Film Strip.	A, J		
		500	**29664**	**CZA/CZB**	120	24	C-13D	4.00	1.56	25		3300		BD	Slide Projection Gold Top (opaque)	A, I		
T12	G17q 4-Pin	500	**29737**	**DEK/DFW/ DHN**	120	24	C-13D	3.62	1.75	25		3250		HD	Slide Projection.	A, H, I		
4-PIN BASE – FOCUSING REFLECTOR. TABLE 12.																		
T12	GX17q 4-Pin	150	**29360**	**DCA**	21	24	CC-6	3.56	1.56	15		3250		HD	8mm Projection.	A, I	1.75	
	G17q 4-Pin	150	**29364**	**DCH/DJA/ DFP**	120	24	CC-6	3.38	1.56	15		3150		BD	8mm Projection	A	2.25	
	GX17q 4-Pin	80	**36122**	**DFE**	30	24	CC-8	3.19	1.56	15		3400		HD	8mm Projection	A	2.25	
	G17q 4-Pin	150	**29386**	**DFN/DFC**	125	24	CC-8	3.19	1.56	15		3150		HD	8mm Projection	A	2.25	

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Burn Position	Additional Information	Footnote	Typical Working Distance	Source Size (WxH)
INCANDESCENT PROJECTION (CONTINUED)																		
4-PIN BASE – FOCUSING REFLECTOR. TABLE 12. (CONTINUED)																		
T14	G17q 4-Pin	150	**29338**	**DJL**	120	24	CC-8	3.50	1.56	15		3150		HD	8mm Projection	A	1.75	
	GX17q 4-Pin	80	**40216**	**DLD/DFZ**	30	24	CC-6	3.50	1.56	15		3400		HD	8mm Projection.	A, K	1.75	
		150	**29366**	**DLS/DLG/ DHX**	22	24	CC-6	3.44	1.56	15		3250		HD	8mm Projection.	A, K	1.75	
MEDIUM PREFOCUS BASE. ANSI BASE DESIGNATION: P28/25. TABLE 13.																		
T10	Med. Pref.	500	**29677**	**CZX/DAB**	120	24	C-13D	5.75	2.19	25	12500	3200		BD	8mm Projection.	A, J		
T20	Med. Pref.	1000	**29968**	**DRB**	118	24	C-13	5.75	2.19	25	32000	3350		BD	Overhead projection	A		
			29947	**DRS**	120	24	C-13D	5.75	2.19	25	28500	3325		BD	Overhead projection	A		
SINGLE CONTACT BAYONET BASE. ANSI BASE DESIGNATION: BA15S. TABLE 14.																		
T8	S. C. Bay.	100	**29257**	**CDD**	120	24	CC-2V	3.13	1.38	50	2000	2975		BD	Slide Projection	A		
		120	**43330**	**CEM**	120	24	2CC-8	3.13	1.38	200	1950	3000		BD	Wheel Align Projection.	A, J		
DOUBLE CONTACT BAYONET BASE. ANSI BASE DESIGNATION: BA15D. TABLE 15.																		
S11	D. C. Bay.	30	**29140**	**BLC**	118	120	CC-2V	2.38	1.38	50	400	2775		U	Editor Projection			
		50	**29156**	**BLX**	118	120	CC-2V	2.38	1.38	50	780	2850		HD	Toy Projection			
		75	**32137**	**BNF**	120	120	CC-2V	2.38	1.38	25	1300	2900		HD	Toy Projection			
T8	D. C. Bay.	50	**29171**	**CAX**	118	24	CC-2V	3.13	1.38	50	775	2875		BD	Optical Projection			
		50	**29169**	**CAX**	130	24	CC-2V	3.13	1.38	50	775	2875		BD	Optical Projection			
		75	**29208**	**CBX/CBS**	118	24	CC-13	3.13	1.38	50	1200	2925		BD	Slide Projection.	A, J		
		100	**29266**	**CDJ**	118	24	CC-2V	3.13	1.38	50	2000	2975		BD	Slide Projection	A		
			29244	**CEB**	118	24	CC-13	3.13	1.38	50	1850	2975		BD	Slide Projection	A		
T6.4	D.C. Bay.	35 25	**30202**	**EAJ**	12	24	C6 C6	4.00	1.77	300 300	620 420			U	Flashtube Modeling.	A, L		
SINGLE CONTACT PREFOCUS BASE. ANSI BASE DESIGNATION: P30S. TABLE 16.																		
T8	S. C. Pref.	34	**30421**	**BXB**	8.5	24	C-8	3.13	1.63	100	690			HD	Sound Reproduction. Filament offset $\frac{3}{16}$" from base axis.			
MISCELLANEOUS. TABLE 17.																		
T20	Mogul	1000	**29959**	**DPT**	120	12	C-13	9.06	4.75	50	28000	3200		BD	Opaque Projection	A		
PHOTOFLOOD																		
STANDARD. TABLE 18.																		
A21	Medium	300	**40886**	**BAH**	115	24	C-9	4.94		20	9000	3200		U	Photocopy, Inside Frost	A		
		250	**40563**	**BBA**	118	24	C-9	4.94		3	8000	3400		U	No. 1 Photoflood, Frost	A		
			40564	**BCA**	118	24	C-9	4.94		3	5000	4800		U	No B1 Blue, Inside Frost	A		
S11	Cand.	30	**30232**	**BLK**	125	120	CC-2V	2.25		50	400	2700		U	Photocopy, Inside Frost	A		
PS25	Medium	500	**40566**	**EBV**	118	24	C-9	6.94		6	17000	3400		U	No 2, Inside Frost	A		
			40567	**EBW PH/B2**	118	24	C-9	6.94		6	10500	4800		U	No. B2, Blue, Inside Frost	A		
A23	Medium	250	**40565**	**ECA**	120	24	C-9	6.00		20	6500	3200		U	Inside Frost	A		
PS25	Medium	500	**40568**	**ECT**	120	24	C-9	6.94		60	13650	3200		U	Inside Frost	A		

For the most up-to-date product information, see www.gelighting.com.

All footnote references found at the end of this section (page 8-13). To convert inches to millimeters, multiply by 25.4.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty.	Filament Design	MOL	LCL	Rated Life Hours	Lumens Initial	Color Temp. K	CBCP	Burn Position	Additional Information	Footnote	Typical Working Distance	Source Size (WxH)
PHOTOFLOOD (CONTINUED)																		
REFLECTOR. TABLE 19.																		
R40	Medium	500	**30151**	**DXB**	120	24	CC-2V	6.63		6		3300	45000		Spot Beam, 15 degrees.	A, Q		
			30145	**DXC**	120	24	C-9	6.63		6		3300	5500		Flood Beam, 90 degrees.	A, Q		
			30281	**EAL**	120	24	CC-2V	6.63		15		3200	6800		Medium Beam, 60 degrees.	A, Q		
ENLARGER & PRINTER. TABLE 20.																		
S11	S.C. Bay.	75	**30162**	**PH/111A**	125	120		2.38		15	1120	2900		HD	Enlarger, White	A		
S14	Medium	75	**43220**	**PH/140**	120	120		3.38		35	1150	2900		U	Enlarger, White	A		
A21	Medium	75	**40569**	**PH/211**	120	24		4.94		65	1000	3000		U	Enlarger, White	A		
		150	**40570**	**PH/212**	120	24		4.94		100	2300	3050		U	Enlarger, White	A		
		250	**40571**	**PH/213**	120	24		4.94		3	7000	3400		U	Enlarger, White	A		
PULSED XENON ARC, GEMINI®, AND MARC™. TABLE 21.																		
T3	WireTerm/ Ceramic	4000	**30124**	**PXA 50**		6		4.63			125000	6000		U	Graphic Arts	A, B		
		8000	**30129**	**PXA/80**		6		4.63			240000	6000		U	Graphic Arts	A, B		
T11	Special	175	**29376**	**CXE175/BF**	12	4		1.67		1000	2200	5600	350000	BDTH	Light Engine, Medical	A, S		
		300	**46909**	**CXE300/BF/SB**	14	4		1.67		1000	6000	5600	500000	BDTH	Light Engine, Medical	A, S		
		300	**10115**	**CXE300/BF**	14	4		1.67		1000	5000	5600	500000	BDTH	Light Engine, Medical	A, S		
PAR20	Special 2-Pin Plug	300	**11134**	**GEMINI 300(EZG)**	35	4				75		6000		H	Replaces MARC 300/16A.	A, O	1.46	
PAR24	Special 2-Pin Plug	350	**39936**	**MARC 350-16T EZT**	45	4				50	50	5000		H		A, O	2.05	

POWER SUPPLY TO OPERATE GEMINI® AND MARC™ LAMPS

For information on the special power supply used to operate these lamps, contact:

Scientecular Lab Company
98 McKinney Avenue
Central Islip, NY 11722-4120
(516) 232-3345

NAPS/Fortron Source
328 Ley Road, Suite 300
Ft. Wayne, IN 46808
(219) 471-1368
Fax: (219) 471-1368

WARNING AND CAUTION NOTICES

A

⚠ WARNING

Risk of electrical shock

- Turn power off before inspection,installation or removal

Risk of fire

- Keep combustible material away from lamp
- Use in enclosed fixtures rated for this product

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn off power before installing lamp
  Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in enclosed container

S

⚠ WARNING

Lamp emits UV radiation which may cause eye/skin irritation. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

⚠ CAUTION

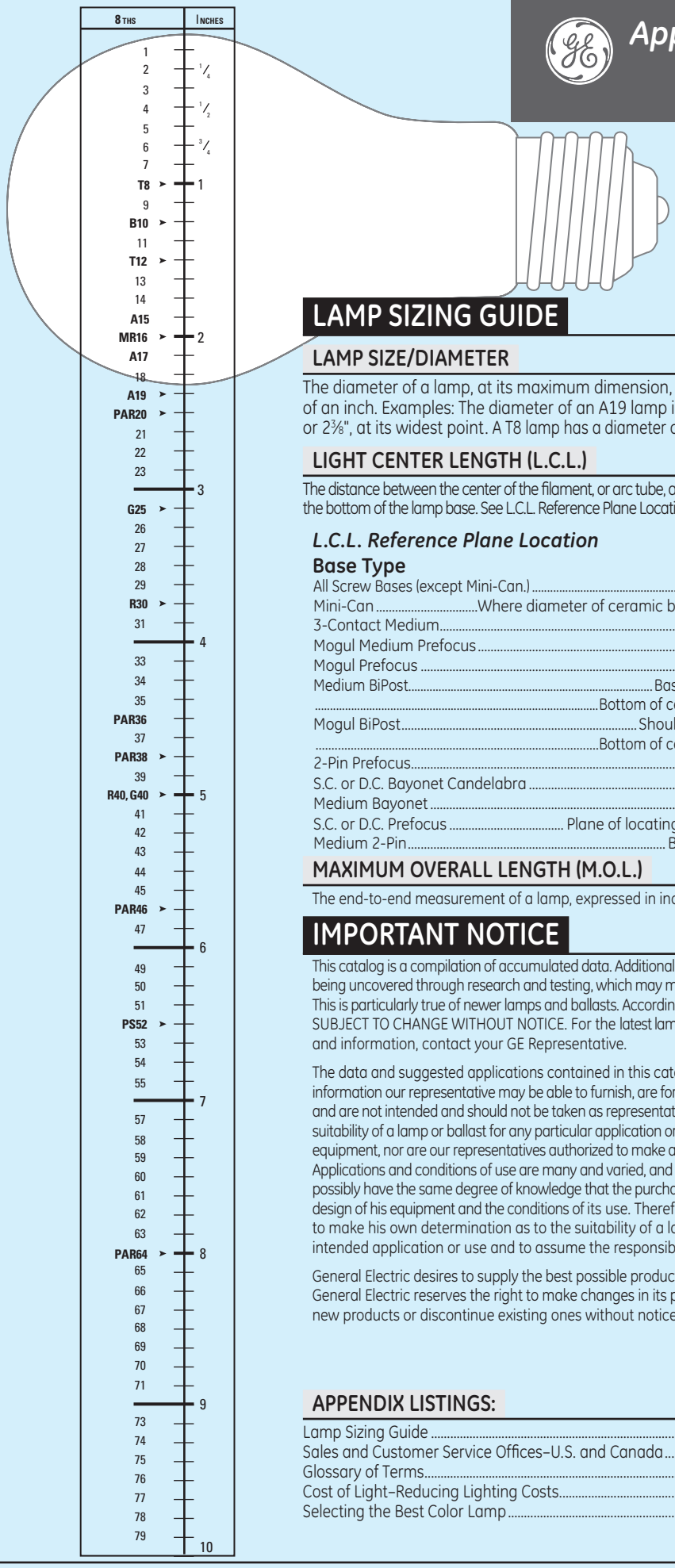
Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

FOOTNOTES

#	Footnote
B	Pulsed Xenon lamps emit high levels of ultraviolet (UV) radiation and must be completely enclosed in an inter-locked system with all walls made of UV absorbing material. The lamp must be made inoperative before the system is opened. The operator or user should never be exposed to the high level of UV radiation emitted by PXA lamps.
C	Opaque Ceramic top on bulb.
D	Proximity Reflector.
E	Ultraviolet absorbing bulb.
G	Heat resistant glass bulb.
H	Collector grid.
I	Gold Top (opaque).
J	Black Top (opaque).
K	Dichroic reflector.
L	Two-filament lamp.
M	Filament offset 3 3⁄16" from base axis.
O	Should not be operated for periods of less than three minutes.
Q	Approximate beam spread to ½ center-beam intensity.
R	Red-enhanced dichroic filter.

NOTES



LAMP SIZING GUIDE

LAMP SIZE/DIAMETER

The diameter of a lamp, at its maximum dimension, is expressed in eighths of an inch. Examples: The diameter of an A19 lamp is 19-eighths of an inch, or 2⅜", at its widest point. A T8 lamp has a diameter of 8-eighths, or one inch.

LIGHT CENTER LENGTH (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart below.

L.C.L. Reference Plane Location

Base Type	Location
All Screw Bases (except Mini-Can.)	Bottom of base contact
Mini-Can	Where diameter of ceramic base insulator is .531 inches
3-Contact Medium	Bottom of base contact
Mogul Medium Prefocus	Top of base fins
Mogul Prefocus	Top of base fins
Medium BiPost	Base end of bulb (Glass lamps)
	Bottom of ceramic base (Quartz lamps)
Mogul BiPost	Shoulder of posts (Glass lamps)
	Bottom of ceramic base (Quartz lamps)
2-Pin Prefocus	Bottom of ceramic base.
S.C. or D.C. Bayonet Candelabra	Top of base pins
Medium Bayonet	Top of base pins
S.C. or D.C. Prefocus	Plane of locating bosses on prefocus collar
Medium 2-Pin	Bottom of metal base shell

MAXIMUM OVERALL LENGTH (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

IMPORTANT NOTICE

This catalog is a compilation of accumulated data. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps and ballasts. Accordingly, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For the latest lamp and ballast design data and information, contact your GE Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp or ballast for any particular application or use in any particular equipment, nor are our representatives authorized to make any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp or ballast for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products, and to introduce new products or discontinue existing ones without notice.

APPENDIX LISTINGS:

GE LIGHTING U.S. AND CANADIAN SALES OFFICES AND CUSTOMER SERVICE CENTERS

US Sales Offices

Region/States	Location	Address	Phone/Fax No.
GE Lighting Headquarters		Nela Park, 1975 Noble Rd. Cleveland, OH 44112	p. 216 266-2121
Eastern	**Plainville**	41 Woodford Ave. Plainville, CT 06062	p. 860 747-7094 f. 860 747-7849
NY, NJ	**New York**	34 West Rt. 22 Branchburg, NJ 08876	p. 908 203-6527 f. 908 231-6391
NJ, East PA	**Cherry Hill**	535 Rt. 38 East Cherry Hill, NJ 08002	p. 856 317-5228 f. 856 317-5236
NJ,, NY, DE	**Wayne**	155 Rt. 46 West Wayne, NJ 07470	p. 973 256-8956 f. 973 256-4350
MA, RI, VT, NH, ME, CT	**Boston**	980 Washington St., Ste. 332N Dedham, MA 02026	p. 781 320-4256 f. 781 320-4245
Southeast	**Atlanta**	20 Technology Pkwy. Norcross, GA 30092	p. 770 662-4979 f. 770 447-7218
NC, SC	**Charlotte**	4601 Park Rd., Ste. 400 Charlotte, NC 28209	p. 803 462-2016 f. 803 462-2017
AL, GA	**Birmingham**	31 Inverness Center Pkwy., Ste. 500 Birmingham, AL 35242	p. 205 408-9902 f. 205 408-9903
FL	**Tampa**	4300 West Cypress Ste. 700 Tampa, FL 33607	p. 813 910-0086 f. 813 972-9382
Central	**Cleveland**	1975 Noble Rd., Bldg. 335F Cleveland, OH 44112	p. 216 266-8358 f. 216 266-5580
DC, MD, VA	**Washington**	7272 Park Circle Dr., Ste. 300 Hanover, MD 21076	p. 410 737-7212 f. 410 737-7216
TN, KY	**Memphis**	1760 Moriah Woods Blvd., Ste. 9 Memphis, TN 38117	p. 901 762-4332 f. 901 762-4336
Cent OH	**Columbus**	4079 Executive Pkwy., Ste. 310 Westerville, OH 43081	p. 614 899-8931 f. 614 899-8908
So OH, KY	**Cincinnati**	10101 Alliance Rd., Ste. 135 Cincinnati, OH 45242	p. 513 936-6591 f. 513 936-6599
IN	**Indianapolis**	12722 Hamilton Cross Blvd. Carmel, IN 46032	p. 317 574-1577 f. 317 574-1970
Midwest	**Chicago**	701 E 22nd St., Ste. 300 Lombard, IL 60148	p. 630 652-4400 f. 630 652-4486
WI, IA	**Milwaukee**	400 N Executive Dr., Ste. 300 Brookfield, WI 53005	p. 262 797-4946 f. 262 797-4917
MI, NW OH	**Detriot**	Two Towne Square Southfield, MI 48076	p. 248 262-2762 f. 248 262-2856
Southwest	**Dallas**	PO Box 610847 1717 West Airfield Dr. Dallas, TX 75261-0847	p. 972 574-0548 f. 972 574-0561
CO, WY	**Denver**	2000 S. Colorado Blvd., Ste. 100 Denver, CO 80222	p. 303 464-2823 f. 303 464-2879
KS, MO, OK	**Kansas City**	10550 Barkley St., Ste. 200 Overland Park, KS 66212	p. 913 967-6373 f. 913 967-6378
LA, MS, AR	**New Orleans**	201 Evans Rd., Ste. 200 Harahan, LA 70123	p. 504 731-5540 f. 504 731-5535
South TX	**Houston**	3530 W. 12th St., Ste. 100 Houston, TX 77008	p. 713 880-7496 f. 713 880-7493
West	**Los Angeles**	3191 Temple Ave., Ste. 200 Pomona, CA 91768	p. 909 444-5230 f. 909 444-5227

CANADIAN OFFICES

Calgary, Alberta	2728 Hopewell Place NE, Calgary, Alberta T1Y 7J7	p. 403 214-4435 f. 403 214-4772
Montreal, Quebec	555 Dr.Frederick-Philips Blvd. 3rd FL. St. Laurent, Quebec H4M 2X4	p. 514 215-2740 f. 514 215-2795
Oakville, Ontario	468 South Service Rd. East Oakville, Ontario L6J 2X6	p. 877 259-0941 f. 905 849-2911
Vancover, BC	#100-8525 Baxter Place Burnaby, BC V5A 4V7	p. 604 451-3216 f. 604 451-3241

In addition to the Sales Offices in the cities listed above, GE Lamp Sales Representatives are resident in other cities. Consult your local telephone directory under GE Lighting.

OEM and Specialty Lighting Area Sales Offices

Eastern	251 Avenue of Americas 7th Floor, New York, NY 10020	p. 212 575-6067 f. 212 575-6605
Southeast Specialty	625 S. Preston Ct. Alpharetta, GA 30022	p. 678 762-0808 f. 678 393-0919
Southeast OEM	1760 Moriah Woods Blvd., Ste. 9 Memphis, TN 38117-7128	p. 901 762-4323 f. 901 762-4336
Midwest	701 East 22nd St., Ste. 300 Lombard, IL 60148	p. 630 652-4427 f. 630 652-4486
Southwest Central	1717 West Airfield Dr. Dallas, TX 75261-4014	p. 817 427-3969 f. 817 485-7396
Southwest Specialty	741 Spring Valley Dr. Hurst, TX 76054	p. 972 444-2021 f. 817 485-7396
Rocky Mt & West Coast	15334 Golden Eagle Blvd. Fountain, AZ 85268	p. 480 836-2469 f. 480 836-2322
West Specialty	571 Rider Ct. Claremont, CA 91711	p. 714 501-5905 f. 909 305-4662
Canada OEM	468 South Service Rd. East Oakville, Ontario L6J 2X6	p. 905 849-2903 f. 905 849-2911
Canada Specialty	468 South Service Rd. East Oakville, Ontario L6J 2X6	p. 905 469-6070 f. 905 469-6637
Automotive	Two Towne Square Southfield, MI 48076	p. 248 262-2754

To Order Product

US/Canada Current Customer Ordering and Tracking - www.geelitenet.com

Customer Service Center	Telephone	Facsimile
OEM	1-800-544-4680	1-800-544-4830
Automotive OEM	1-800-327-7155	1-800-327-0588
Commercial & Industrial Distributors	1-800-327-0097	1-800-544-4830
Consumer & Retail	1-800-327-2080	1-800-544-4850
Canada (French/English)	1-800-443-4925	1-800-443-4930

Telesales	Telephone	Facsimile
OEM	1-800-544-4780	1-800-327-0663
C&I Midwest	1-800-624-0601	1-800-327-0663
C&I Central	1-866-355-6210	1-800-327-0663
C&I Northeast	1-800-327-7085	1-800-327-0663
C&I West	1-800-443-6272	1-800-327-0663
C&I Southeast	1-800-544-4610	1-800-327-0663
C&I Southwest	1-800-624-0601	1-800-327-0663
Canada	1-800-443-5081	1-800-327-0663

Distribution Centers

Atlanta	1700 Westgate Pkwy., Atlanta, GA 30336
Chicago	7770 West 71st St., Bridgeview, IL 60455
Dallas	1717 West Airfield Dr., PO Box 610847, DFW Airport, TX 75261
Hagerstown	18212 Shawley Dr., Hagerstown, MD 21740
Los Angeles	11600 Philadelphia Ave., Mira Loma, CA 91752
Oakville	1290 South Service Rd. West, Oakville, Ontario, Canada L6L 5T7
Ravenna	150 Loomis Pkwy., Ravenna, OH 44266

Lighting Technical Information

Consumer Inquiries	1-800-GE LIGHT (435-4448)
Commercial, Trade Magazines	1-800-GE LAMPS (435-2677)

International Customer Service and Sales (USA Exporters Only)

	Phone Number	Fax Number
Franchise Exporters	1-800-327-6886	1-800-443-5130
International Customers	1-804-965-1015	1-804-965-1018

For Lamp or Technical Support Call or Click

1-800-GE LAMPS
www.GELighting.com

GLOSSARY OF TERMS

Ambient Temperature
Light output of fluorescent lamps depends on ambient temperature which refers to the temperature INSIDE the fixture in the air surrounding the fluorescent lamp.

Amperes
("Amps.") A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Current (Amps) = Power (Watts) / Voltage (Volts).

American National Standards Institute (ANSI)
A consensus-based organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.

ANSI Ballast Type
A reference to the ANSI document describing the lamp which also lists the characteristics of the ballast required to operate the lamp. The following naming system is used: H - mercury lamps; M - metal halide lamps; S - high pressure sodium lamps; L - low pressure sodium lamps.

Ballast
An auxiliary piece of equipment required to start and to properly control the flow of current to gas discharge light sources such as fluorescent and high intensity discharge (HID) lamps.

Ballast Factor (BF)
This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. For example, a ballast with a ballast factor of 0.93 will result in the lamp's emitting 93% of its rated lumen output. A ballast with a lower BF results in less light output and also generally consumes less power.

Ballast Losses
Power or energy dissipated in the ballast as heat and not converted to lamp energy.

Beam Angle
The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 50% of maximum. The beam angle sometimes called "beam spread" is often part of the ordering code for reflectorized lamps. Example: The 50PAR30/HIR/NFL25 is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees. See also Field Angle.

Beam Lumens
The total lumens present within the portion of the beam contained in the beam angle.

Biax®
GE trademark for its biaxial family of high-efficiency and long-life compact fluorescent lamps. DBX (Double Biax) TBX (Triple Biax) and QBX (Quad Biax) refer to the number of U-shaped legs present in the lamp.

Canadian Standards Association (CSA)
An organization that writes standards and tests lighting equipment for performance as well as electrical and fire safety. Canadian provincial laws generally require that all products sold for consumer use in Canada must have CSA or equivalent approval.

Candela (cd)
The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamps and for luminaires with a lamp operating in them.

Candlepower
An obsolete term for luminous intensity; current practice is to refer to this simply as candelas. See Candela.

Candlepower Distribution Curve
A graphical presentation of the distribution of light intensity of a light source, usually a reflector lamp or luminaire.

Cathode see electrode

Center Beam Candlepower (CBCP)
Refers to the luminous intensity at the center of the beam of a blown or pressed reflector lamp (such as a PAR lamp). Measured in candelas. See also Candela.

Ceramic Metal Halide (CMH®)
A type of metal halide lamp that uses a ceramic material for the arc tube instead of glass quartz, resulting in better color rendering (>80 CRI) and improved lumen maintenance. GE ConstantColor® CMH® lamps feature a 3-piece arc tube design that delivers terrific color consistency and lamp reliability.

ChromaFit®
A GE brand name for metal halide lamps designed to operate on HPS ballasts, allowing a user to switch from the yellowish color of HPS to the white color of metal halide without retrofitting ballasts. These products are available in both quartz metal halide and ceramic metal halide (CMH) versions.

Coefficient of Utilization (CU)
In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. CU is a function of luminaire efficiency, room surface reflectances and room shape.

Color Rendering Index (CRI)
An international system used to rate a lamp's ability to render object colors. The higher the CRI (based upon a 0-100 scale) the richer colors generally appear. CRI ratings of various lamps may be compared, but a numerical comparison is only valid if the lamps are close in color temperature. CRI differences among lamps are not usually significant (visible to the eye) unless the difference is more than 3 -5 points.

Color Temperature (Correlated Color Temperature - CCT)
A number indicating the degree of "yellowness" or "blueness" of a white light source. Measured in kelvins, CCT represents the temperature an incandescent object (like a filament) must reach to mimic the color of the lamp. Yellowish-white ("warm") sources, like incandescent lamps, have lower color temperatures in the 2700K - 3000K range; white and bluish-white ("cool") sources, such as cool white (4100K) and natural daylight (6000K), have higher color temperatures. The higher the color temperature the whiter, or bluer, the light will be.

Compact Fluorescent Lamp (CFL)
The general term applied to fluorescent lamps that are single-ended and that have smaller diameter tubes that are bent to form a compact shape. Some CFLs have integral ballasts and medium or candelabra screw bases for easy replacement of incandescent lamps.

ConstantColor®
A GE registered name for lamp families that show very little color shift over life, such as GE's Precise® MR16 lamps and GEs ceramic metal halide (CMH®) lamps.

Cost of Light
Usually refers to the cost of operating and maintaining a lighting system on an ongoing basis. The 88-8-4 rule states that (typically) 88% is the cost of electricity, 8% is labor and only 4% is the cost of lamps.

GLOSSARY OF TERMS

CovRGuard®
A lamp encased by a sleeve made of the highest quality GE Lexan® plastic and sealed using a patented process. The Lexan covering helps contain glass fragments if the lamp breaks.

Diamond Precise®
Diamond Precise® is the GE trade name for its line-voltage MR16 ConstantColor® halogen lamp. An integral ballast and a medium screw base enable Diamond Precise® lamps to operate on standard (120 volt) circuits. The MR16 technology of Diamond Precise® allows a tighter, more intense beam than can be attained by the 50-watt PAR20 and R20 types it's designed to replace, even though the lumen output is significantly less by comparison.

Discharge Lamp
A lamp where light is emitted from an electrical discharge between two electrodes as opposed to a filament lamp. Examples are: Fluorescent lamps and HID (High Intensity Discharge) lamps like Metal Halide, Mercury and High Pressure Sodium. All discharge lamps require some kind of current-limiting device, e.g. a ballast to operate them.

Ecolux®
A term for GE lamps that pass the TCLP test. See TCLP.

Edison
GE's trademark for a wide range of lighting products.

Efficacy
See Luminous Efficacy.

e-HID ballast see Electronic HID Ballast

Electrode
In a discharge lamp the arc is struck between two protruding metal terminals in the chamber. These are called electrodes. The negative electrode which emits electrons to fuel the electrical discharge is called the cathode.

Electrodeless Lamp
See Induction Lighting and GENURA®.

Electromagentic Ballast
See Magnetic Ballast.

Electromagnetic Spectrum
A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electro-magnetic spectrum in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.

Electromagnetic Interference (EMI)
High frequency electronic ballasts and other electronic devices can produce a small amount of radio waves that can interfere with radio and TV. Federally-mandated requirements must be met for EMI levels before an electronic device is considered FCC compliant. (FCC is the Federal Communications Commission)

Electronic Ballast
A short name for a fluorescent or HID high frequency electronic ballast. Electronic ballasts use solid state electronic components and typically operate fluorescent lamps at frequencies in the range of 25-35 kHz. The benefits are: increased lamp efficacy, reduced ballast losses and lighter, smaller ballasts compared to electro-magnetic ballasts. Electronic ballasts may also be used with HID lamps.

Electronic HID Ballast
An electronic ballast capable of operating an HID lamp. GE's Ultramax® (electronic HID ballast operates Pulse Arc® (metal halide) and CMH® (ceramic metal halide) lamps between 250W and 400W and provides higher efficiency and significantly improved lumen maintenance over magnetic ballasts.

Elliptical Reflector (ER) Lamp
An incandescent lamp with a built-in elliptically-shaped reflecting surface. This shape produces a focal point directly in front of the lamp which reduces light absorption in some types of luminaires. It is particularly effective at increasing the efficiency of baffled downlights.

Enclosed Fixtures

Energy Policy Act (EPACT)
Comprehensive energy legislation passed by the U.S. Congress in 2005. The lighting portion includes minimum energy efficacy requirements for many lamp and ballast components, bans ballasts for mercury lamps from 2008 on and provides significant tax incentives in 2006 and 2007 for buildings retrofitted or constructed with low lighting power densities (watts per square foot).

Energy Star®
US Department of Energy (DOE) designation for products meeting certain energy efficiency and performance standards. Among manufacturers of Compact Fluorescent Lamps, GE has the largest number of Energy Star® products as listed on the Federal Government's website.

EOL (End-of-Life Protection)
A circuit that senses that a lamp has reached end of life (compact fluorescent lamps and small diameter linear fluorescent lamps) and turns off power to the lamp. Continuing to power the lamp beyond end of life can result in overheating of the lamp ends.

Federal Communications Commission (FCC)
The U.S. Federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices operating at frequencies greater than 9 kilohertz (kHz.). Typical electronically-ballasted compact fluorescent lamps operate in the 24 – 100 kHz frequency range.

Field Angle
The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum. See Beam Angle.

Fluorescent HO
And VHO lamps require special ballasts that generate higher currents than standard ballasts and operate the lamps at higher wattage than standard lamps. These lamps are generally less efficient than the standard product. Metal Halide HO and XHO lamps operate on the same ballasts as standard lamps and at the same wattage but are more efficient and produce higher light output than standard lamps.

Fluorescent Lamp
A high efficiency lamp utilizing an electric discharge through low pressure mercury vapor to produce ultra-violet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to visible light.

Footcandle (fc)
A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot. See also Lux.

Full Spectrum Lighting
A marketing term, typically associated with light sources that are similar to some forms of natural daylight (5000K and above, 90+ CRI), but sometimes more broadly used for lamps that have a smooth and continuous color spectrum.

Genura®
GE's electrodeless compact fluorescent lamp, Genura®, uses induction to power the discharge. The chamber generates UV (just like a discharge in a regular fluorescent lamp) that is converted by phosphors to visible light. Because Genura® uses no electrodes, the life of this unique reflector lamp is longer than typical compact fluorescent products. See Induction Lighting.

Glare
Visual discomfort caused by excessive brightness is called discomfort glare. If task performance is affected it is called disability glare. Glare can be direct glare or indirect (reflected) glare.

Halogen Lamp
A halogen lamp is an incandescent lamp with a filament that is surrounded by halogen gases, such as iodine or bromine. Halogen gases allow the filaments to be operated at higher temperatures and higher efficacies. The halogen participates in a tungsten transport cycle, returning tungsten to the filament and prolonging lamp life. All halogen lamps have a tungsten filament and, often, a quartz envelope.

Halogen-IR® (HIR) Lamp
GE designation for high-efficiency tungsten halogen lamps. HIR lamps utilize shaped filament tubes coated with numerous layers of materials that transmit light but reflect the heat (infrared) back onto the filament. This reduces the power needed to keep the filament hot.

Harmonic Distortion see Total Harmonic Distortion (THD)

Hertz
Unit of frequency of vibration, denoting cycles per second.

Highbay Lighting
Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

High-Intensity Discharge (HID) Lamp
A general term for mercury, metal halide (GE ConstantColor® CMH®, Multi-Vapor®, MXR or Arcstream®) and high-pressure sodium (GE Lucalox®) lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

High Output/Very High Output (HO, VHO) Lamps
Designation for lamps generating more light than standard lamps.

High-Pressure Sodium (HPS) Lamp
HPS lamps are high intensity discharge light sources that produce light by an electrical discharge through sodium vapor operating at relatively high pressures and temperatures. GE markets these lamps under the trade name of Lucalox®.

Hot Restart Time
If there is a momentary power interruption and the HID lamp goes out, there will be a delay of 10 to 15 minutes before the lamp has cooled down sufficiently to start again. This is called the Hot Restart time. PulseArc® lamps have a significantly shorter Hot Restart time (typically 3-5 minutes) than standard metal halide lamps. Lucalox® Standby lamps will start up immediately while standard Lucalox® lamps require a few minutes.

Ignitor
An electronic device providing a high voltage pulse to initiate an electrical discharge. Typically, the ignitor is paired with or is a part of the ballast.

Illuminance
The "density" of light (lumens/area) incident on a surface; i.e. the light level on a surface. Illuminance is measured in footcandles or lux.

Incandescent Lamp
A light source that generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it.

Indirect Lighting
The method of lighting a space by directing the light from luminaires upwards towards the ceiling. The light scattered off the ceiling produces a soft, diffuse illumination for the entire area.

Induction Lighting
Gases can be excited directly by radio-frequency or microwaves from a coil that creates induced electromagnetic fields. This is called induction lighting and it differs from a conventional discharge, which uses electrodes to carry current into the arc. Induction lamps have no electrodes inside the chamber and generally, therefore, have longer life than standard lamps. Genura® is an example of an induction lamp.

Infrared Radiation
Electromagnetic energy radiated in the wavelength range of about 770 to 1,000,000 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

Input Watts, Input Volts
These refer to the ballast: the input watts represents the total power consumption of the ballast. It includes the power to the lamps and the power dissipated in the ballast. The input volts of the ballast is the line voltage the ballast is designed for, e.g. 120 volts or 277 volts.

Instant Start
A type of ballast designed to start fluorescent lamps as soon as the power is applied. Most T8 fluorescent lamps are being operated on electronic instant-start ballasts. Slimline fluorescent lamps operate only on instant start circuits.

Kelvins see Color Temperature

Kilowatt (kW)
A measure of electrical power equal to 1000 watts.

Kilowatt Hour (kWh)
The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity use. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges $.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x $.10).

Lamp
The term used to refer to the complete light source package, including the inner parts as well as the outer bulb or tube. "Lamp", of course, is also commonly used to refer to a type of small light fixture such as a table lamp.

Life
See Rated Lamp Life.

GLOSSARY OF TERMS (CONTINUED)

Light
Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

Light Center Length (L.C.L.)
The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart on page A-1.

Light Emitting Diode (LED)
A solid that directly converts electrical impulses into light. Some LED's today incorporate fluorescent materials to change the color characteristics of the emitted light.

Light Loss Factor (LLF)
The product of all factors that contribute to lowering the illumination level including reflector degradation, dirt, lamp depreciation over time, voltage fluctuations, temperature effects, burn-out factor, etc.

Lucalox®
The GE brand name for high-pressure sodium lamps.

Lumen
A measure of luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides 840 lumens.

Lumen Depreciation, Lumen Maintenance
A measure of how well a lamp maintains its light output over time. It may be expressed numerically or as a graph of light output vs. time.

Lumens Per Watt (lpW)
A ratio expressing the luminous efficacy of a light source.

Typical lamp efficacies:

Edison's first lamp	1.4 lpW
Incandescent lamps	10-40
Halogen incandescent lamps	20-45
Fluorescent lamps	35-105
Mercury lamps	50-60
Metal halide lamps	60-120
High-pressure sodium lamps	60-140

Note: The values above for discharge lamps do not include the effect of the ballasts, which must be used with those lamps. Taking ballast losses into account reduces "system" or lamp ballast efficacies typically by 10-20% depending upon the type of ballast used.

Luminaire
A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamps and connect them to the power supply. A luminaire is often referred to as a fixture.

Luminaire Efficiency
The ratio of total lumens emitted by a luminaire to those emitted by the lamp or lamps used in that luminaire.

Luminance
A photometric measure of "brightness" of a surface as seen by the observer, measured in candelas per square meter.

Luminous Efficacy
The light output (lumens) of a light source divided by the total power input (watts) to that source. It is expressed in lumens per watt. See Lumens per Watt.

Lux (lx)
A unit of illuminance or light falling onto a surface. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle. See also Footcandle.

Magnetic Ballast
A ballast used with discharge lamps that consists primarily of transformer-like copper windings on a steel or iron core. See also Electronic Ballasts.

Maximum Overall Length (M.O.L.)
The end-to-end measurement of a lamp, expressed in inches or millimeters.

Mean Lumens
The average light output of a lamp over its rated life. Based on the shape of the lumen depreciation curve, for fluorescent and metal halide lamps, mean lumens are measured at 40% of rated lamp life. For mercury, high pressure sodium and incandescent lamps, mean lumen ratings refer to lumens at 50% of rated lamp life. See Lumen Maintenance.

Mercury Lamp
A high-intensity discharge light source operating at a relatively high pressure (about 1 atmosphere) and temperature in which most of the light is produced by radiation from excited mercury vapor. Phosphor coatings on some lamp types add additional light and improve color rendering.

Metal Halide Lamp
A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types may also utilize phosphor coatings. GE trade names include: Multi-Vapor®, ConstantColor® CMH®, PulseArc®, Staybright®, Watt-Miser®, ChromaFit® and Arcstream®.

Mortality Curve
Lamps have a rated or expected life but individual failures occur earlier and some lamps will last longer. The mortality curve depicts the expected percent surviving in a group of lamps at various points between zero hours and rated life or beyond. The curve starts with 100% at zero hours and goes to 50% surviving at the rated life (e.g. 3000 hours or 20,000 hours, etc.) However, the shape of the curve between these two end points can vary depending on the lamp type.

Multi-Vapor®

Multi-Vapor® A GE brand name for metal halide lamps.

Nanometer
A unit of wavelength equal to one billionth of a meter.

National Electric Code (NEC)
A nationally accepted electrical installation code to reduce the risk of fire, developed by the National Fire Protection Association.

PAR Lamp
PAR is an acronym for parabolic aluminized reflector. A PAR lamp, which may utilize either an incandescent filament, a halogen filament tube or a HID arc tube, is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for the control of the light beam.

Parallel Lamp Operation/Parallel Wiring
Refers to ballasts that employ multiple output current paths from a single ballast to allow lamps to operate independent of one another, allowing other lamps operated by the ballast to remain lit should companion lamp(s) fail. (See Series Lamp Operation).

Phosphor
An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short wavelength ultraviolet radiation and to transform and emit it as visible light.

Photometry
The measurement of light and related quantities.

Photopic see Scotopic/Photopic

Power Factor (PF)
A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0 with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. Power companies may penalize users for using low power factor devices.

Precise®
The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic cool beam reflectorized spot and flood lamps.

Preheat Circuit
A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes to a glow state. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts.

Programmed Rapid Start see UltraStart

PulseArc®
GE description for a type of metal halide lamp that provides improved lumen maintenance for longer useful life and extended relamp cycles. These products are designed to operate on ballasts that have ignitors to help with lamp starting.

Quartz-Halogen Lamp see Halogen Lamp

Quartzline®
A GE registered trademark term for some types of halogen lamps.

Rapid Start Circuit
A fluorescent lamp-ballast circuit that utilizes continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems.

Rated Lamp Life
For most lamp types, rated lamp life is the length of time of a statistically large sample between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation and color shift.

Reflector Lamp (R)
A light source with a built-in reflecting surface. Sometimes, the term is used to refer specifically to blown bulbs like the "R" and "ER" lamps; at other times, it includes all reflectorized lamps like PAR and MR.

Reveal®
GE's product family of incandescent lamps with the element Neodymium added to the glass bulb. Neodymium filters out much of the yellow light produced by ordinary lamps. Less yellow means whites look whiter and colors appear more vibrant in spaces lighted with Reveal lamps.

Scotopic/Photopic (S/P) Ratio
This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens for the light source on an ANSI reference ballast. Cooler sources (higher color temperatures lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Series Lamp Operation
Refers to ballasts that employ a single current path passing through all lamps operated by the ballast. If one lamp should fail, companion lamps operated by the same ballasts will also extinguish or dim.

Specification Series (SP) Colors
Energy-efficient, all-purpose tri-phosphor fluorescent lamp colors that provide good color rendering. The CRI for SP colors is 70 or above and varies by specific lamp type. See Lamp Color Chart on page A-10.

Specification Series Deluxe (SPX) Colors
Energy-efficient tri-phosphor fluorescent lamp colors that provide better color rendering than Specification Series (SP) colors. The CRI for SPX colors is 80 or higher and varies by specific lamp type. All GE CFL products use SPX phosphors. See Lamp Color Chart on page A-10.

Spectral Power Distribution (SPD)
A graph of the radiant power emitted by a light source as a function of wavelength. SPD's provide a visual profile or "finger print" of the color characteristics of the source throughout the visible part of the spectrum.

Spiral® Lamp
GE trademark for its helical family of high-efficiency, long-life compact fluorescent lamps.

Starcoat®
GE's special barrier coating applied on the inside of all GE T8 fluorescent lamps, as well as some other lamp types, to enhance lamp life and deliver superior lumen maintenance.

Starting Temperature (Minimum)
The minimum ambient temperature at which the lamp will start reliably on the ballast.

TCLP Test
The Toxicity Characteristic Leaching Procedure (TCLP) test, specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous or nonhazardous waste. The TCLP test measures the ability of the mercury and/or lead in a lamp to leach from a landfill into ground water.

GLOSSARY OF TERMS (CONTINUED)

Total Harmonic Distortion (THD)
A measure of the distortion of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as a ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THD's on some systems. Excessive THD's on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

Troffer
A long, recessed lighting unit, usually installed in an opening in the ceiling.

Tungsten Halogen Lamp see Halogen Lamp

Ultra
GE designation for lamps and ballasts belonging to the new generation of energy-saving fluorescent systems.

UltraMax®
The designation for GE's electronic ballasts for both linear fluorescent systems and for HID systems (see "Electronic HID Ballast"). The family of high-efficiency GE instant-start electronic linear fluorescent ballasts are designed to optimize GEs T8 Ultra lamps for enhanced system energy savings. UltraMax ballasts have a low lamp current crest factor and virtually read and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling.

UltraStart
GE's line of Programmed Rapid Start ballasts, for both T8 and T5 lamps, made specifically for applications where lamps are switched on and off frequently. The "ultra soft" starting associated with these ballasts ensures long lamp life even in frequently switched applications. Additional features include high efficiency and start times comparable to Instant Start ballasts, and series operation of lamps.

Ultraviolet (UV) Radiation
For practical purposes, any radiant energy within the range of 100-380 nanometers. It is beyond the blue or violet region of the spectrum, and is invisible to the eye just like the silent "ultrasound" dog whistle is inaudible to the ear.

UV is divided into 3 regions:

UVA	100 to 280 nm
UVB	280 to 315 nm
UVC	315 to 400 nm

Some wavelengths (180-220) produce ozone, some (220-300) are bactericidal, some (280-320) erythemal (redden human skin); others (320-400) cause secondary luminance (black light).

Ultra Watt-Miser®
GE's family of energy-saving T8 fluorescent lamps.

Underwriter's Lab (UL)
A private organization which tests and lists electrical and other equipment for electrical and fire safety standards. Generally luminaires are UL listed, not lamps (except for CFL lamps with built-in ballasts.)

Voltage
A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

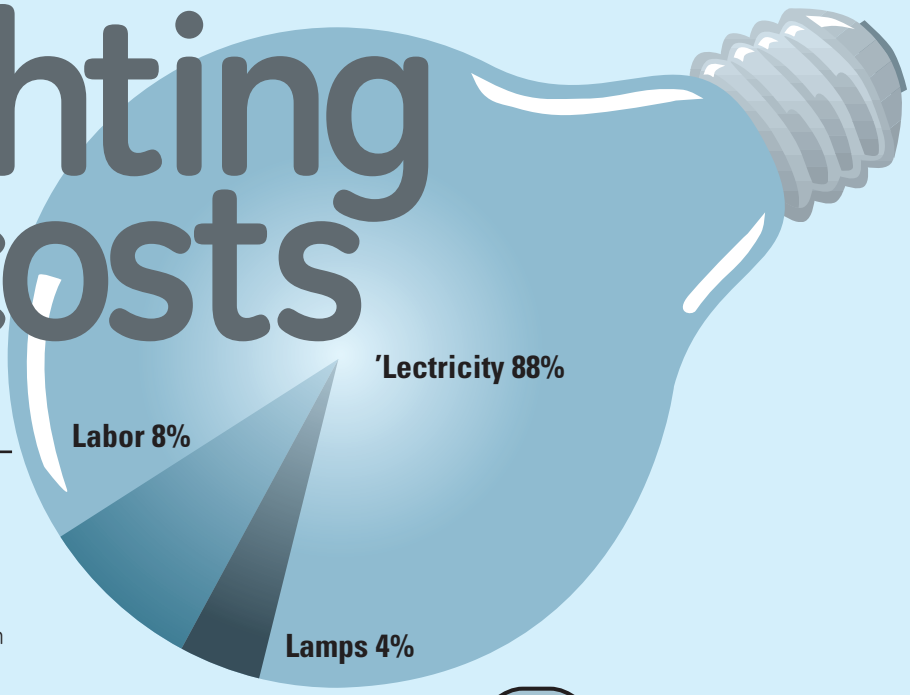
Voltage Surge
Transient spikes in line voltage that can be harmful to electronic equipment like computers and electronic ballasts. Surge suppressors are often used to protect against such transients.

Warm-up Time
HID lamps typically take a few minutes to warm-up to full brightness after starting.

Watt
A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy. See Kilowatt Hour.

Watt-Miser®
A Watt-Miser® lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser® lamps are available in a wide range of incandescent, fluorescent and HID lamp types.

the three 'Ls of Lighting costs

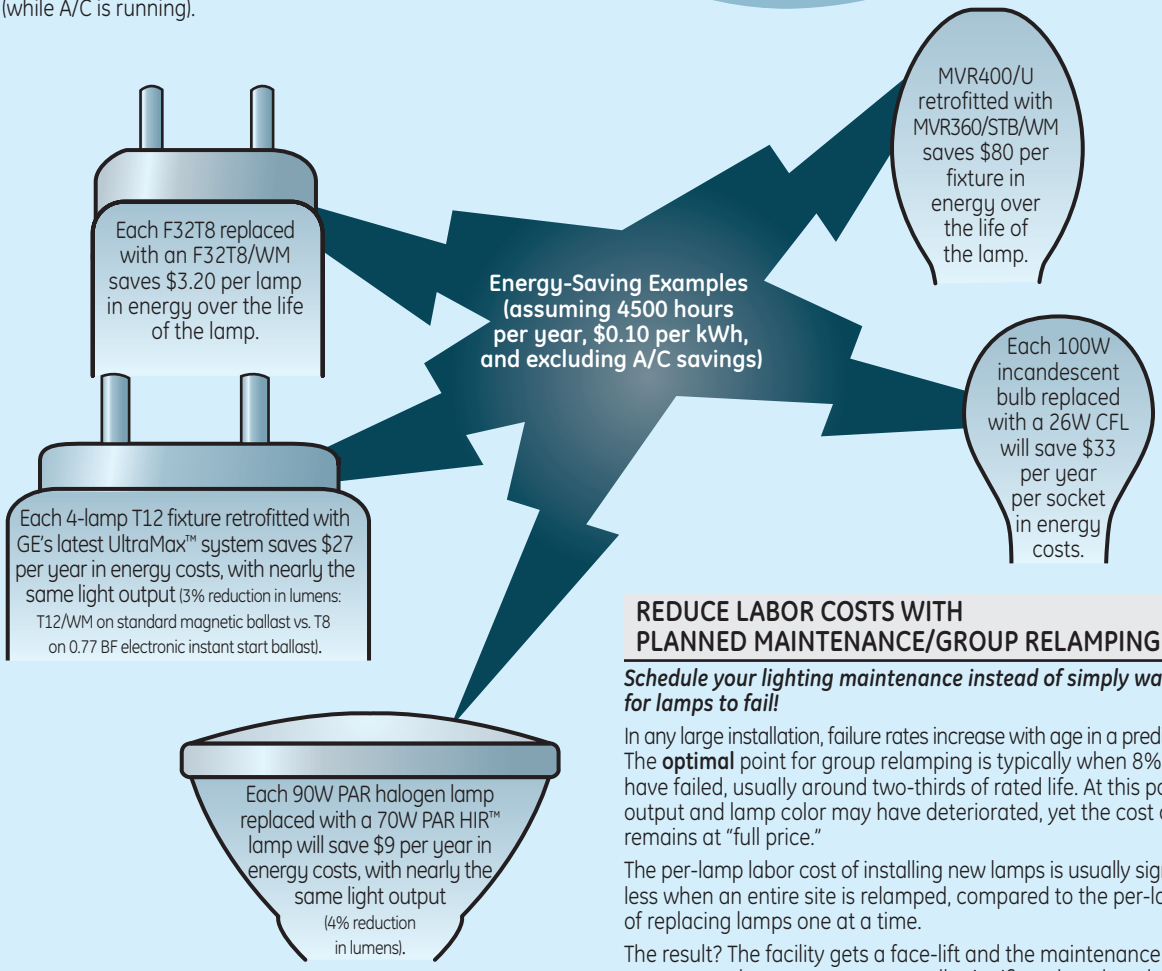


ELECTRICITY IS THE BIGGEST CHUNK OF YOUR LIGHTING COSTS

Averaging across different lamp types and systems, we estimate that only $1 of every $25 goes toward lamps, $2 toward labor, and ***$22 toward electricity!***

The simplest way to save energy is to retrofit with energy-efficient products and systems from GE Lighting: your #1 energy-saving choice!

And remember... every watt reduced in your lighting system results in a one-third watt reduction in your A/C load (while A/C is running).



REDUCE LABOR COSTS WITH PLANNED MAINTENANCE/GROUP RELAMPING

Schedule your lighting maintenance instead of simply waiting for lamps to fail!

In any large installation, failure rates increase with age in a predictable way. The **optimal** point for group relamping is typically when 8% to 12% of lamps have failed, usually around two-thirds of rated life. At this point, both lumen output and lamp color may have deteriorated, yet the cost of electricity remains at "full price."

The per-lamp labor cost of installing new lamps is usually significantly less when an entire site is relamped, compared to the per-lamp labor cost of replacing lamps one at a time.

The result? The facility gets a face-lift and the maintenance costs over the next two or three years are generally significantly reduced. **Contact your GE Account Manager or GE Distributor to understand the full benefits of planned maintenance and to get set up on a money-saving group relamping schedule.**

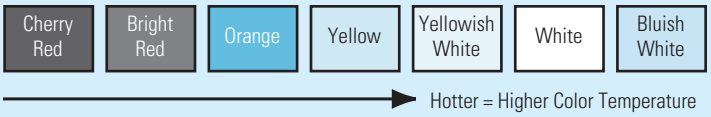
selecting the best color lamp

DESCRIPTIONS: "WARM" OR "COOL"

When talking about white light sources (or about white paint) we use the descriptions "warm" and "cool." White light with a yellowish tinge, reminiscent of candlelight and fireplaces, is called "warm white." Incandescent lamps produce a warm white color. Bluish white, reminiscent of moonlight on cold snow, is considered "cool white." Fluorescent lamps can produce warm white or cool white, or anywhere in-between, depending on the mix of phosphors used.

CORRELATED COLOR TEMPERATURE (CCT)

Correlated Color Temperature is a way of describing the degree of "yellowness" or "blueness" of a white light source. We relate the light source to the color of a hypothetical piece of hot metal. A piece of steel or tungsten as it is heated, will progressively change color in the sequence shown below:



When we say a lamp has a color temperature of 2700K—typical of incandescent lighting—it simply means that a piece of metal heated to a temperature of 2700 kelvins (which is about 3000°C or 5400°F) would mimic the color of the lamp. Such a source would be yellowish-white. In contrast, the color of a lamp at 6000K—typical of daylight entering through a window on a sunny day—can be mimicked by doubling the temperature of the hot metal piece to 6000 kelvins. This is significantly bluer or "cooler" than the light of incandescent lamps. Note that higher CCT refers to sources described as "cooler."

Generally, 4000K and above is considered "cool white", 3200K and below is "warm white", and 3500K is "neutral white."

BETTER COLOR RENDERING FOR BETTER APPEARANCE

There is no such thing as the "true" color of any material; the perceived color is a function of the light under which the material is viewed and the reflectance characteristics of the material itself. However, we can make a general statement: the higher the Color Rendering Index (CRI) of a light source (also denoted by R_a) the better—and more natural—colors typically appear under the light source.

In measuring CRI, scientists compare how eight specific colors appear under the source to how these same colors appear under a reference source. However, there are two reference sources: incandescent lighting is the reference for warm color lamps and daylight is the reference for cool color lamps. In this system, both incandescent lamps and daylight are considered to have "perfect" CRI's of nearly 100 even though, as we know, materials appear quite different when viewed under these light sources. These two sources are very different in color temperature (see below) although both have CRI's close to 100. CRI is, therefore, meaningful in comparing lamps that are close in color temperature.

CRI is not a perfect measure, but it is still useful as an indicator of the quality of light from a source.

Typical Color Indicators for Various Lamps	*Correlated Color Temperature*	*Color Rendering Index*
INCANDESCENT LAMPS		
Typical	2500-2800K	97-100
HALOGEN LAMPS		
Typical	2800-3000K	97-100
FLUORESCENT LAMPS (ordered by CCT)		
C75 "Chroma Series"	7500K	90 +
SPX65 (865)	6500K	80 +
SP65 (765)	6500K	70 +
C50 "Chroma Series"	5000K	90 +
SPX50 (850)	5000K	80 +
SP50 (750)	5000K	70 +
SPX41 (841)	4100K	80 +
SP41 (741)	4100K	70 +
Cool White	4100K	62
SPX35 (835)	3500K	80 +
SP35 (735)	3500K	70 +
SPX30 (830)	3000K	80 +
SP30 (730)	3000K	70 +
Warm White	3000K	50
covRfresh	2750K	87
SPX27 (827)	2700K	80 +
Note: Some 4' T8 "SP" lamps, including reduced wattage types, may have a CRI >80.		
HIGH PRESSURE SODIUM LAMPS		
Lucalox®	1900-2100K	22
Deluxe Lucalox®	2200K	65
METAL HALIDE LAMPS		
Standard and PulseArc® MVR Multi-Vapor®	3000-4300K	65-75
MXR Multi-Vapor®	3200-3500K	65-70
Arcstream®	3000-6000K	75-90
Multi-Vapor® ChromaFit™	4000-4500K	65-70
CERAMIC METAL HALIDE LAMPS		
CMH®	3000-4200K	80-93
CMH® ChromaFit™	3000K	85