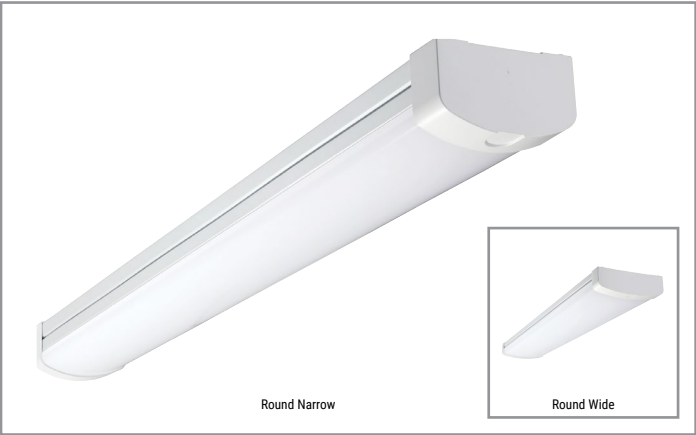


|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



# Metalux

## Achieva™ Wrap Selectable

Achieva™ Selectable Lumens and CCT  
Surface Wrap  
2' / 4' / 8'  
Narrow 5.5" / Wide 10"

**Typical Applications**  
• Offices • Education • Healthcare • Retail

- Interactive Menu**
- Order Information [page 2](#)
  - Product Specifications [page 4](#)
  - Photometrics [page 5](#)
  - Control Solutions [page 7](#)
  - Product Warranty

### Product Certification

California Title 24  
Residential and  
Nonresidential  
Compliant

Can be used to comply  
with Title 24 Part 6  
LED Product Label  
Source Requirements L80

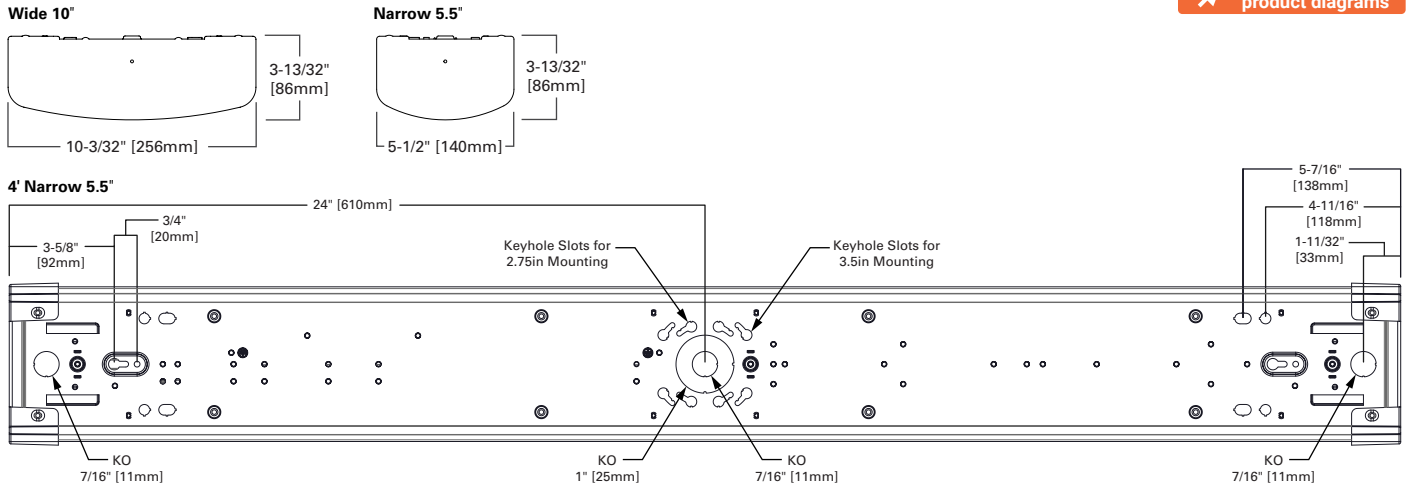
Can be used to comply with California Title 24 High Efficacy requirements.  
Certified to California Appliance Efficiency Database under JA8.

### Product Features

### Top Product Features

- Selectable CCT and selectable lumens in standard or HO lumen options
- Up to 165 lm/w efficiency, ideal for replacing up to 4 lamp fluorescent wraparounds and low-bay linear fluorescents
- 0-10V dimming to 5% standard with 120-277V UNV
- Available in Narrow 5.5" or Wide 10" polycarbonate IK06 rated lens options in 2', 4', or 8' lengths
- Suitable for ceiling, wall, or suspension mounting and row mounting
- Offered in both 90 CRI and 80 CRI color quality as well as options to meet CA Title 24 JA8 requirements

### Dimensional and Mounting Details



See Page 5 for more Dimensional Details

## Order Information and Performance Data

Default CCT/Lumen Setting: 4000K / Med Power

| Size      | Catalog Number    | Lumen Setting | CCT   | CRI (Min) | Delivered Nominal Lumens | Watts | Efficacy (lm/W) |
|-----------|-------------------|---------------|-------|-----------|--------------------------|-------|-----------------|
| 2ftx5.5in | 2AWS-L3C3-UNV     | Low           | 3500K | 80        | 2,250                    | 17.9  | 126             |
|           |                   |               | 4000K | 80        | 2,334                    | 17.5  | 133             |
|           |                   |               | 5000K | 80        | 2,289                    | 18.1  | 127             |
|           |                   | Medium        | 3500K | 80        | 2,685                    | 22.1  | 121             |
|           |                   |               | 4000K | 80        | 2,791                    | 21.1  | 133             |
|           |                   |               | 5000K | 80        | 2,711                    | 22.2  | 122             |
|           |                   | High          | 3500K | 80        | 3,046                    | 25.6  | 119             |
|           |                   |               | 4000K | 80        | 3,226                    | 24.7  | 131             |
|           |                   |               | 5000K | 80        | 3,084                    | 25.9  | 119             |
| 2ftx5.5in | 2AWS-L3C39-CA-UNV | Low           | 3000K | 90        | 2,076                    | 17.2  | 120             |
|           |                   |               | 3500K | 90        | 2,177                    | 16.9  | 129             |
|           |                   |               | 4000K | 90        | 2,156                    | 17.3  | 125             |
|           |                   | Medium        | 3000K | 90        | 2,478                    | 21.2  | 117             |
|           |                   |               | 3500K | 90        | 2,606                    | 20.7  | 126             |
|           |                   |               | 4000K | 90        | 2,554                    | 21.2  | 121             |
|           |                   | High          | 3000K | 90        | 3,077                    | 25.1  | 123             |
|           |                   |               | 3500K | 90        | 3,205                    | 24.6  | 130             |
|           |                   |               | 4000K | 90        | 3,104                    | 25.3  | 123             |
| 2ftx10in  | 2AWWS-L3C3-UNV    | Low           | 3500K | 80        | 2,313                    | 18.2  | 127             |
|           |                   |               | 4000K | 80        | 2,475                    | 18.0  | 137             |
|           |                   |               | 5000K | 80        | 2,331                    | 18.1  | 128             |
|           |                   | Medium        | 3500K | 80        | 2,739                    | 22.3  | 123             |
|           |                   |               | 4000K | 80        | 2,863                    | 21.4  | 134             |
|           |                   |               | 5000K | 80        | 2,771                    | 22.4  | 124             |
|           |                   | High          | 3500K | 80        | 3,140                    | 26.2  | 120             |
|           |                   |               | 4000K | 80        | 3,352                    | 25.2  | 133             |
|           |                   |               | 5000K | 80        | 3,170                    | 26.3  | 120             |
| 4ftx5.5in | 4AWS-L3C3-UNV     | Low           | 3500K | 80        | 4,095                    | 31.7  | 129             |
|           |                   |               | 4000K | 80        | 4,310                    | 30.8  | 140             |
|           |                   |               | 5000K | 80        | 4,184                    | 32.1  | 130             |
|           |                   | Medium        | 3500K | 80        | 4,848                    | 39.1  | 124             |
|           |                   |               | 4000K | 80        | 5,170                    | 37.8  | 137             |
|           |                   |               | 5000K | 80        | 4,988                    | 39.6  | 126             |
|           |                   | High          | 3500K | 80        | 5,838                    | 48.3  | 121             |
|           |                   |               | 4000K | 80        | 6,148                    | 46.3  | 133             |
|           |                   |               | 5000K | 80        | 5,916                    | 48.8  | 121             |
| 4ftx5.5in | 4AWS-L3C39-CA-UNV | Low           | 3000K | 90        | 4,268                    | 33.1  | 129             |
|           |                   |               | 3500K | 90        | 4,433                    | 32.3  | 137             |
|           |                   |               | 4000K | 90        | 4,446                    | 33.2  | 134             |
|           |                   | Medium        | 3000K | 90        | 5,093                    | 40.6  | 125             |
|           |                   |               | 3500K | 90        | 5,344                    | 39.3  | 136             |
|           |                   |               | 4000K | 90        | 5,322                    | 40.7  | 131             |
|           |                   | High          | 3000K | 90        | 6,129                    | 49.9  | 123             |
|           |                   |               | 3500K | 90        | 6,330                    | 48.5  | 130             |
|           |                   |               | 4000K | 90        | 6,130                    | 49.9  | 123             |

## Order Information and Performance Data

Default CCT/Lumen Setting: 4000K / Med Power

| Size      | Catalog Number    | Lumen Setting | CCT   | CRI (Min) | Delivered Nominal Lumens | Watts | Efficacy (lm/W) |
|-----------|-------------------|---------------|-------|-----------|--------------------------|-------|-----------------|
| 4ftx10in  | 4AWWS-L3C3-UNV    | Low           | 3500K | 80        | 4,254                    | 32.2  | 132             |
|           |                   |               | 4000K | 80        | 4,485                    | 31.2  | 144             |
|           |                   |               | 5000K | 80        | 4,354                    | 32.6  | 134             |
|           |                   | Medium        | 3500K | 80        | 5,070                    | 39.6  | 128             |
|           |                   |               | 4000K | 80        | 5,378                    | 38.2  | 141             |
|           |                   |               | 5000K | 80        | 5,192                    | 40.1  | 130             |
|           |                   | High          | 3500K | 80        | 5,910                    | 48.8  | 121             |
|           |                   |               | 4000K | 80        | 6,543                    | 46.8  | 140             |
|           |                   |               | 5000K | 80        | 6,013                    | 49.5  | 121             |
| 4ftx5.5in | 4AWS-L3C3-HO-UNV  | Low           | 3500K | 80        | 6,798                    | 50.7  | 134             |
|           |                   |               | 4000K | 80        | 7,146                    | 49.5  | 144             |
|           |                   |               | 5000K | 80        | 7,089                    | 51.0  | 139             |
|           |                   | Medium        | 3500K | 80        | 8,203                    | 63.7  | 129             |
|           |                   |               | 4000K | 80        | 8,694                    | 61.8  | 141             |
|           |                   |               | 5000K | 80        | 8,556                    | 64.0  | 134             |
|           |                   | High          | 3500K | 80        | 9,803                    | 80.5  | 122             |
|           |                   |               | 4000K | 80        | 10,146                   | 77.7  | 131             |
|           |                   |               | 5000K | 80        | 9,930                    | 80.9  | 123             |
| 4ftx10in  | 4AWWS-L3C3-HO-UNV | Low           | 3500K | 80        | 7,185                    | 51.7  | 139             |
|           |                   |               | 4000K | 80        | 7,470                    | 50.2  | 149             |
|           |                   |               | 5000K | 80        | 7,444                    | 51.7  | 144             |
|           |                   | Medium        | 3500K | 80        | 8,780                    | 66.3  | 132             |
|           |                   |               | 4000K | 80        | 9,289                    | 64.6  | 144             |
|           |                   |               | 5000K | 80        | 9,146                    | 66.8  | 137             |
|           |                   | High          | 3500K | 80        | 10,315                   | 80.6  | 128             |
|           |                   |               | 4000K | 80        | 10,952                   | 77.8  | 141             |
|           |                   |               | 5000K | 80        | 10,629                   | 80.8  | 132             |
| 8ftx5.5in | 8AWS-L3C3-UNV     | Low           | 3500K | 80        | 7,845                    | 55.7  | 141             |
|           |                   |               | 4000K | 80        | 8,168                    | 54.3  | 150             |
|           |                   |               | 5000K | 80        | 8,159                    | 56.5  | 145             |
|           |                   | Medium        | 3500K | 80        | 10,058                   | 73.8  | 136             |
|           |                   |               | 4000K | 80        | 10,529                   | 71.4  | 148             |
|           |                   |               | 5000K | 80        | 10,303                   | 73.5  | 140             |
|           |                   | High          | 3500K | 80        | 11,996                   | 86.1  | 139             |
|           |                   |               | 4000K | 80        | 12,679                   | 83.1  | 153             |
|           |                   |               | 5000K | 80        | 12,019                   | 86.2  | 139             |
| 8ftx5.5in | 8AWS-L3C39-CA-UNV | Low           | 3000K | 90        | 8,020                    | 57.2  | 140             |
|           |                   |               | 3500K | 90        | 8,133                    | 56.2  | 145             |
|           |                   |               | 4000K | 90        | 8,050                    | 57.5  | 140             |
|           |                   | Medium        | 3000K | 90        | 10,230                   | 72.9  | 140             |
|           |                   |               | 3500K | 90        | 10,411                   | 71.3  | 146             |
|           |                   |               | 4000K | 90        | 10,229                   | 73.1  | 140             |
|           |                   | High          | 3000K | 90        | 12,024                   | 83.7  | 144             |
|           |                   |               | 3500K | 90        | 12,460                   | 81.7  | 153             |
|           |                   |               | 4000K | 90        | 12,086                   | 84.1  | 144             |

Order Information and Performance Data

Default CCT/Lumen Setting: 4000K / Med Power

| Size      | Catalog Number   | Lumen Setting | CCT   | CRI (Min) | Delivered Nominal Lumens | Watts | Efficacy (lm/W) |
|-----------|------------------|---------------|-------|-----------|--------------------------|-------|-----------------|
| 8ftx10in  | 8AWWS-L3C3-UNV   | Low           | 3500K | 80        | 8,296                    | 58.5  | 142             |
|           |                  |               | 4000K | 80        | 8,646                    | 56.8  | 152             |
|           |                  |               | 5000K | 80        | 8,444                    | 58.9  | 143             |
|           |                  | Medium        | 3500K | 80        | 10,523                   | 76.6  | 137             |
|           |                  |               | 4000K | 80        | 11,052                   | 73.8  | 150             |
|           |                  |               | 5000K | 80        | 10,651                   | 77.0  | 138             |
|           |                  | High          | 3500K | 80        | 12,404                   | 88.4  | 140             |
|           |                  |               | 4000K | 80        | 13,178                   | 84.8  | 155             |
|           |                  |               | 5000K | 80        | 12,554                   | 89.2  | 141             |
| 8ftx5.5in | 8AWS-L3C3-HO-UNV | Low           | 3500K | 80        | 8,836                    | 55.1  | 160             |
|           |                  |               | 4000K | 80        | 8,962                    | 54.4  | 165             |
|           |                  |               | 5000K | 80        | 8,903                    | 55.9  | 159             |
|           |                  | Medium        | 3500K | 80        | 11,348                   | 72.6  | 156             |
|           |                  |               | 4000K | 80        | 11,354                   | 69.0  | 165             |
|           |                  |               | 5000K | 80        | 11,417                   | 72.4  | 158             |
|           |                  | High          | 3500K | 80        | 13,064                   | 85.1  | 154             |
|           |                  |               | 4000K | 80        | 13,446                   | 82.6  | 163             |
|           |                  |               | 5000K | 80        | 13,184                   | 85.5  | 154             |

| Accessories (order separately) <sup>(22)</sup>                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y-TOGGLE-10 2PK=(2) Y-Toggle Cable Kits at 10FT long<br>SCF=Fixed Stem Set (Specify Length)<br>SCS=Swivel Stem Set (Specify Length)<br>CLC-AWS-EXT-B=(1) AWS 5.5" Row Mount Bracket Kit<br>CLC-AWWS-EXT-B=(1) AWWS 10" Row Mount Bracket Kit |
| Notes<br>(22) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.                                                                                       |

Achieva Shipping Data

| Size        | Fixture Net Weight | Fixture Gross Weight | Fixture Dimension | Carton Dimension     | Carton QTY |
|-------------|--------------------|----------------------|-------------------|----------------------|------------|
| 2ft x 5.5in | 3.44               | 3.79                 | 24 x 5.5 x 3.44   | 24.29 x 5.7 x 3.62   | 1          |
| 2ft x 10in  | 5.2                | 6.13                 | 24 x 10 x 3.44    | 25.39 x 10.23 x 3.66 | 1          |
| 4ft x 5.5in | 6.31               | 6.94                 | 48 x 5.5 x 3.44   | 48.22 x 5.7 x 3.62   | 1          |
| 4ft x 10in  | 9.66               | 11.18                | 48 x 10 x 3.44    | 49.6 x 10.23 x 3.74  | 1          |
| 8ft x 5.5in | 12.24              | 13.88                | 96 x 5.5 x 3.44   | 96.6 x 5.7 x 3.62    | 1          |
| 8ft x 10in  | 18.67              | 27.84                | 96 x 10 x 3.44    | 100.4 x 10.8 x 4.25  | 1          |

Achieva Options

| Catalog | Description                              | Example              | Notes                               |
|---------|------------------------------------------|----------------------|-------------------------------------|
| EL7W    | 7W EM Pack, Installed                    | 4AWS-L3C3-UNV-EL7W   | Available on 4' and 8' lengths only |
| EL14W   | 14W EM Pack, Installed                   | 4AWWS-L3C3-UNV-EL14W | Available on 4' and 8' lengths only |
| WLS     | WaveLinX LITE Wireless Integrated Sensor | 4AWS-L3C3-UNV-WLS    | Sensor Integrated into end cap      |
| WPS     | WaveLinX PRO Wireless Integrated Sensor  | 4AWWS-L3C3-UNV-WPS   | Sensor Integrated into end cap      |

Product Specifications

Construction

- Cold rolled steel die form housing with finished ends
- Post painted with matte white powder coating
- High-impact plastic end caps

Shielding

- Smooth frosted ribbed polycarbonate IK06 rated lens
- Standard LED blended for wide area coverage
- Replaces 1 lamp through 4 lamp fluorescent wraps or low-bay fluorescent linear fixtures

Installation

- Surface (wall or ceiling) mount via junction box or direct to surface
- Suspension mount capable using standard Y-toggle mounting kits
- Designed for continuous row mounting for end to end light with row mount bracket accessory kits

Electrical

- Projected life of L70 at 50,000 hours
- Efficacy up to 165 lm/W
- 0-10V dimming down to 5%

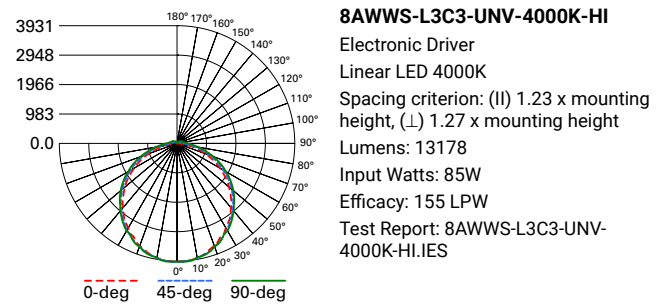
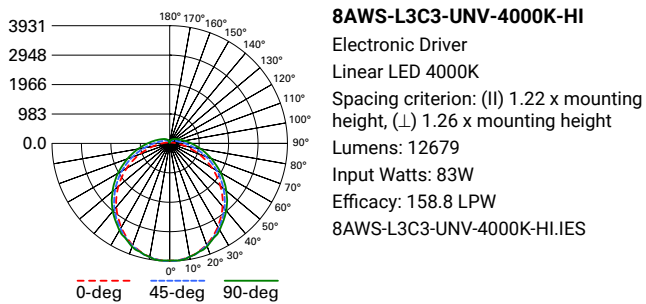
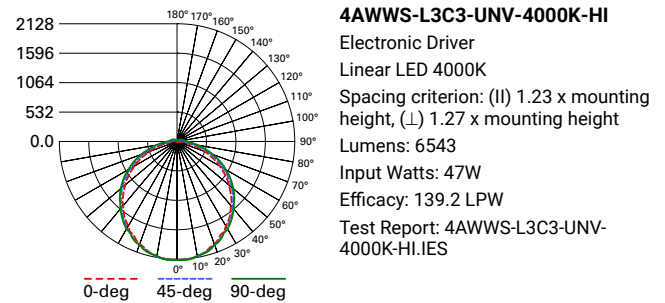
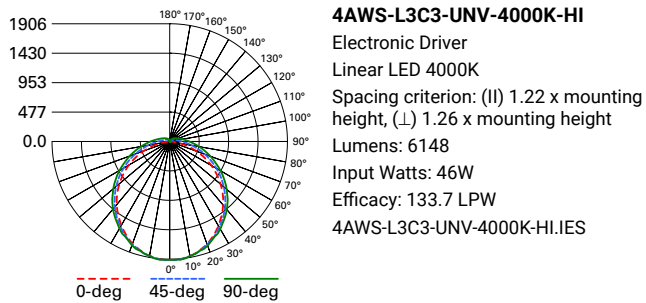
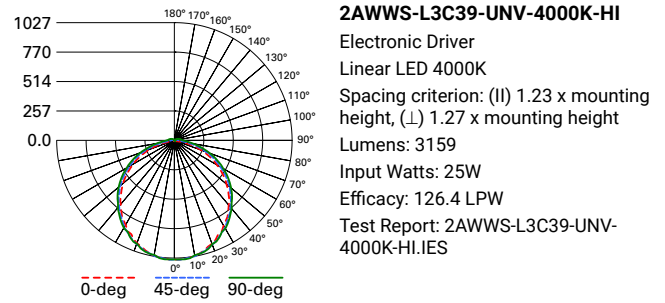
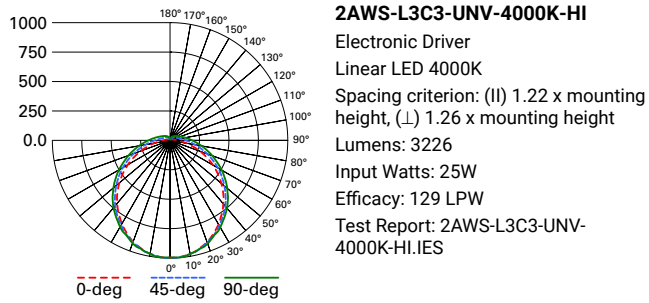
Compliance

- UL/cUL listed for damp location
- Rated for -4F (-20C) to 104F (40C) ambient operating temperatures
- RoHS compliant
- LED complies with IESNA LM-79 and LM-80
- Options to meet California Title 24 Residential and Non-Residential compliance
- DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details.

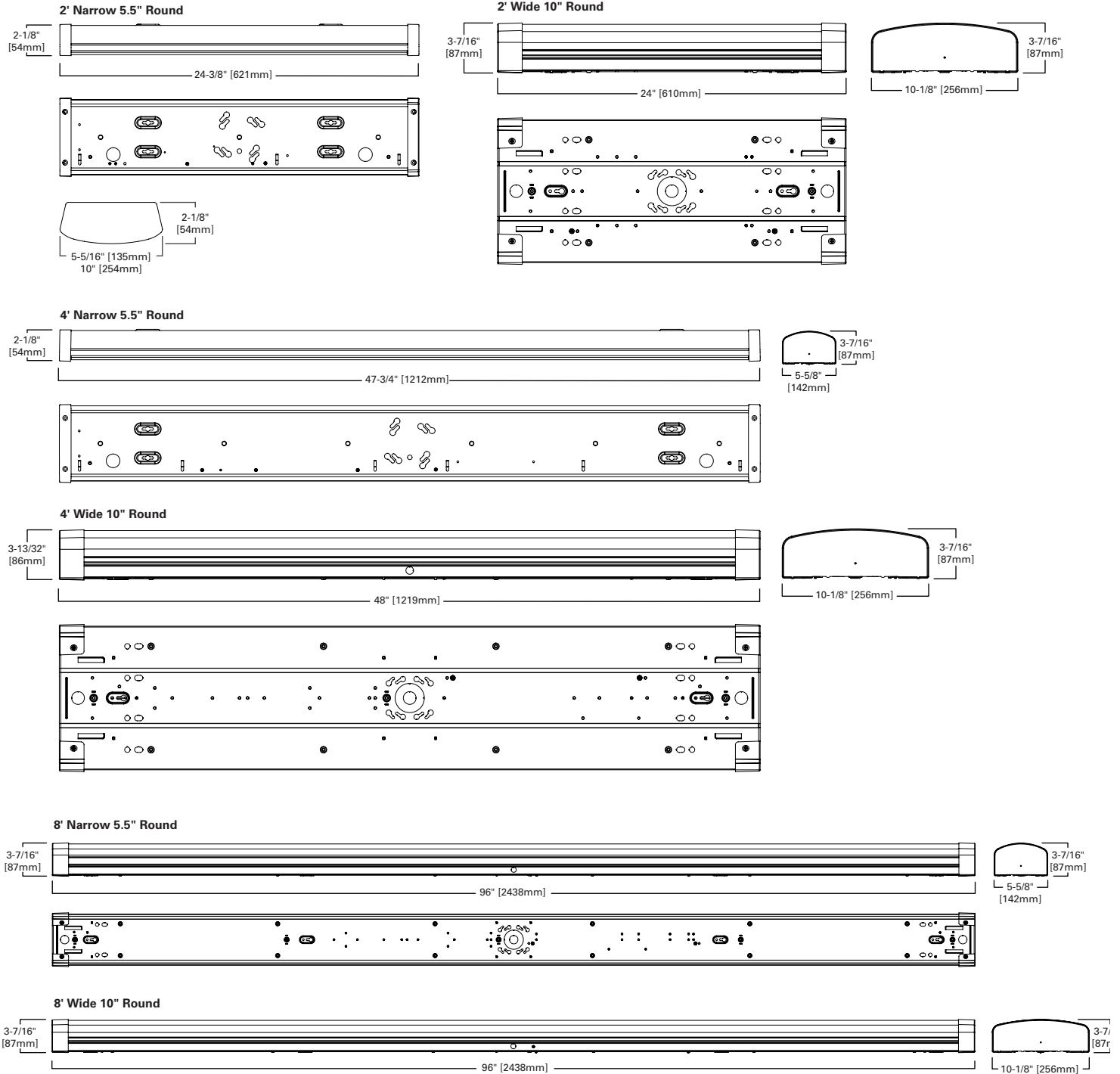
Limited Warranty

- Five year limited warranty

## Photometric Data

[View IES files](#)


## Dimensional and Mounting Details



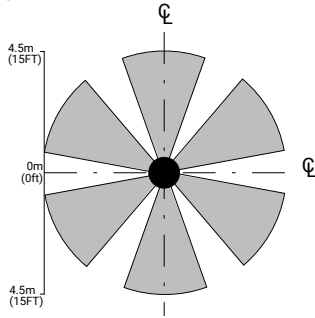
## Control Solutions

- WaveLinX LITE wireless
- WaveLinX PRO wireless
- WaveLinX CAT wired
- WaveLinX Wired

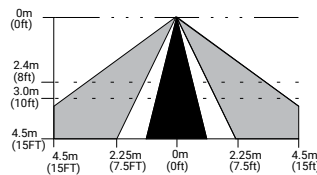


### Integrated Sensor Coverage Pattern

TOP VIEW:



SIDE VIEW:



**Note:** Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

The AWS with WaveLinX offers no-hassle lighting control with multiple luminaire level control solutions.

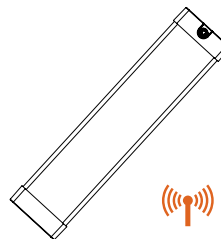


**WaveLinX PRO** is a wireless lighting control solution, for connected spaces, that significantly reduces a building's energy consumption. From a single floor to an entire campus, WaveLinX PRO connects more than lighting assets; it shares aggregated sensor data with the WaveLinX CORE platform and other building systems, so building owners can improve operations, spaces environment, and tenants' experience. WaveLinX PRO offers a rich portfolio of wireless devices, WaveLinX PRO-enabled luminaires, and an intuitive WaveLinX mobile app for office, education, warehouse, and parking garage applications.

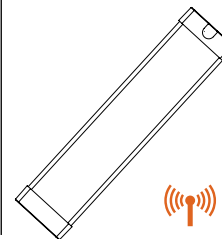


**WaveLinX LITE** is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse and parking garages using the secure, simple mobile app.

With Integrated WaveLinX Sensor



With Integrated WaveLinX Node



Add a hidden WaveLinX sensor node (WPN, WLN) to your space lighting design!

**Allows to:**

- Keeps luminaire aesthetics
- Connect fixtures without the real estate to include sensor option such as downlights
- Connect sealed fixtures without a standard sensor option such as products for clinical space.

### Integrated Controls Options

| Option | Out of the Box Functionality | Luminaire Level Lighting Control (LLC) | Automatic Dimming Photocell | Occupancy Sensing | CCT Control |
|--------|------------------------------|----------------------------------------|-----------------------------|-------------------|-------------|
| WLS    | X                            | X                                      | X                           | X                 |             |
| WLN    |                              | X                                      |                             |                   |             |
| WPS    |                              | X                                      | X                           | X                 | X           |
| WPN    |                              | X                                      |                             |                   | X           |

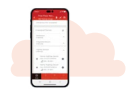
**Note:** WaveLinX utilizes scenes to allow users to change an area's fixtures Correlated Color Temperature (CCT) and intensity using commissioned manual wireless wallstation scene control. To enable CCT adjustments through WaveLinX, include WPS or WPN devices in addition to VividTune or BioUp technologies for integrated fixture control.

## Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



**Luminaire with standalone sensor**



**Standalone Spaces WaveLinX LITE**



**Standalone Spaces WaveLinX CAT**



**Networked Spaces WaveLinX PRO**



**Enterprise WaveLinX CORE**

|                          | Luminaire with standalone sensor | Standalone Spaces WaveLinX LITE | Standalone Spaces WaveLinX CAT | Networked Spaces WaveLinX PRO | Enterprise WaveLinX CORE   |
|--------------------------|----------------------------------|---------------------------------|--------------------------------|-------------------------------|----------------------------|
| <b>Occupancy</b>         | Yes                              | Yes                             | Yes                            | Yes                           | Yes                        |
| <b>Daylighting</b>       | Yes                              | Yes                             | Yes                            | Yes                           | Yes                        |
| <b>Wallstations</b>      | –                                | Yes                             | Yes                            | Yes                           | Yes                        |
| <b>Gateways</b>          | –                                | –                               | –                              | 1 WAC                         | 300 WACs                   |
| <b>Devices (MAX)</b>     | –                                | 40 per Area (1120 per space)    | 40 per Area                    | 200 per WAC2                  | 32,500 per CORE Enterprise |
| <b>Software</b>          | –                                | WaveLinX LITE Mobile App        | WaveLinX CAT Mobile App        | WaveLinX Mobile App           | CORE                       |
| <b>Areas</b>             | –                                | 28 per Space                    | Unlimited                      | 50 per WAC2                   | up to 3,000                |
| <b>Zones</b>             | –                                | 16 per Area                     | 16 per Area                    | 16 per Area                   | up to 9,000                |
| <b>Scheduling</b>        | –                                | –                               | –                              | Local                         | Global                     |
| <b>VividTune™</b>        | –                                | –                               | –                              | Yes                           | Yes                        |
| <b>Plug-Load Control</b> | –                                | Yes                             | Yes                            | Yes                           | Yes                        |
| <b>Low-Voltage Power</b> | –                                | –                               | Yes                            | Yes                           | Yes                        |
| <b>Integration</b>       | –                                | –                               | –                              | –                             | BACnet, API                |
| <b>Dashboards</b>        | –                                | –                               | –                              | –                             | Energy, Occupancy          |
| <b>Configuration</b>     | –                                | Installer                       | Installer                      | Technician                    | Technician / IT            |