Columbia LIGHTING

CRN2 Fully Switchable

WET LOCATION HIGH BAY
SWITCHABLE LUMEN, CCT AND BEAM

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

tradeSELECT

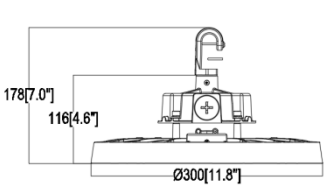
FEATURES

- Switchable Lumen, CCT and Beam Technology to enable flexibility of inventory
- Lumen packages from 15,000 to 38,000 lumens, allowing for use in a variety of applications
- Efficacy up to 178 LPW
- Optional ‘plug and play’ occupancy sensor
- Reflector options to deliver glare reduction and aesthetic customization

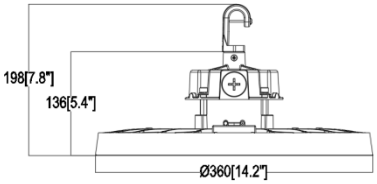




DIMENSIONS



Size 1
(5.5lbs.)



Size 2
(7.1lbs.)

SPECIFICATIONS

CONSTRUCTION

- Die cast aluminum housing with polycarbonate lens, providing durability for tough environments.
- Thermally separated electronic and LED heat sink design allows for longevity in application.
- Pre-installed 6' wet location power and dimming cords for simplified installation
- Wire guard available as accessories for enhanced durability.

INSTALLATION

- Pendant mount from ½” NPT hook standard
- Loop, Snap hook and wall mount bracket available as accessories
- ½" to ¾" NPT converter adapter available.

ELECTRICAL

- Long-life +100,000hr LEDs at L70 at 25ºC
- Driver design life +50,000hr at 50 ºC
- Total Input Wattage
  Size 1: 100W/ 120W/ 150W
  Size 2: 150W/ 200W/ 240W
- Standard: 120–347V
- System power factor is >0.9 and THD is <20%
- Standard 6kV surge protection for demanding environments

CONTROLS

- Standard 0–10V, 10% dimming
- Field installable passive infrared (PIR) occupancy sensor provides discrete integration into the fixture maximizing sensor coverage range

CERTIFICATIONS

- All luminaries are built to UL 1598 standards, and bear appropriate cULus labels for wet locations
- IP65 rated
- IK07 rated lens, IK10 rated housing
- NSF Splash Zone 2- food equipment standard for non-food zones rated
- NEMA 250 Type 4X rated
- EMI: Title 47 CFR 15 Class A
- Ambient Operating Temperature
  Size 1: -40°C to 55°C
  Size 2: -40° C to 50°C
  For Sensor accessory: See specifications on Page 7
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at http://www.designlights.org

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	15200–38000
Wattage Range	100–240
Efficacy Range (LPW)	Up to 178
Reported Life (Hours)	L70 @ 100,000

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ORDERING GUIDE

Example: CRN2-1-LSCS-EDMV-SO-W

CATALOG #

CRN2	–		–	LSCS	–	ED	MV	–	SO	–	
Model		**Size/Lumens**		**Lumen Output & CCT**		**Dimming**	**Voltage**		**Optics**		**Finish**
CRN2 Wet Location High Bay		**1** Size 1 15/18/24K (100/120/**150W**) **2** Size 2 25/30/38K (150/200/**240W**)		**LSCS** Lumen Switchable / CCT Switchable 3500/**4000**/5000K		**ED** 0–10V Dimming	**MV** 120–347V		**SO** Switchable Beam 100°/**80°**/60° [1]		**W** White **B** Black

Notes:

1 Default switchable settings are indicated in **BOLD.**

STOCK GUIDE

Catalog No.	UPC	Description
CRN2-1-LSCS-EDMV-SO-W	93318287	CRN2 Size 1, Lumen Switchable/CCT Switchable (3500/4000/5000K), 0–10V Dimming, 120-347V, Switchable Beam (100°/80°/60°), White
CRN2-1-LSCS-EDMV-SO-B	93318288	CRN2 Size 1, Lumen Switchable/CCT Switchable (3500/4000/5000K), 0–10V Dimming, 120-347V, Switchable Beam (100°/80°/60°), Black
CRN2-2-LSCS-EDMV-SO-W	93318289	CRN2 Size 2, Lumen Switchable/CCT Switchable (3500/4000/5000K), 0–10V Dimming, 120-347V, Switchable Beam (100°/80°/60°), White
CRN2-2-LSCS-EDMV-SO-B	93318290	CRN2 Size 2, Lumen Switchable/CCT Switchable (3500/4000/5000K), 0–10V Dimming, 120-347V, Switchable Beam (100°/80°/60°), Black

PERFORMANCE

Cat-Logic	Wattage Setting	Lumen	LPW	CCT
CRN2-1 60° Beam Setting	150	21900	146	3500
		23200	162	4000
		22200	150	5000
	120	18100	155	3500
		18800	168	4000
		18400	158	5000
	100	15200	160	3500
		16000	170	4000
		15500	163	5000
CRN2-1 80° Beam Setting	150	23200	162	3500
		24200	175	4000
		23800	168	5000
	120	18700	168	3500
		19300	178	4000
		19000	170	5000
	100	15800	170	3500
		16300	178	4000
		16000	173	5000
CRN2-1 100° Beam Setting	150	21900	146	3500
		23200	162	4000
		22200	150	5000
	120	18100	155	3500
		18800	168	4000
		18400	158	5000
	100	15200	160	3500
		16000	170	4000
		15500	163	5000

Cat-Logic	Wattage Setting	Lumen	LPW	CCT
CRN2-2 60° Beam Setting	240	34600	145	3500
		36500	160	4000
		35200	149	5000
	200	30000	150	3500
		32000	165	4000
		30500	153	5000
	150	24000	160	3500
		25000	170	4000
		24500	163	5000
CRN2-2 80° Beam Setting	240	36200	162	3500
		38500	175	4000
		37800	167	5000
	200	32000	164	3500
		33000	175	4000
		32200	166	5000
	150	24800	170	3500
		25300	178	4000
		25000	172	5000
CRN2-2 100° Beam Setting	240	34200	145	3500
		36200	160	4000
		35600	149	5000
	200	30000	150	3500
		32000	165	4000
		30500	153	5000
	150	24000	160	3500
		25000	170	4000
		24500	163	5000

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Columbia LIGHTING

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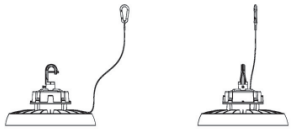
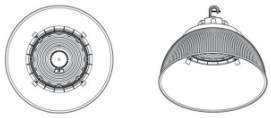
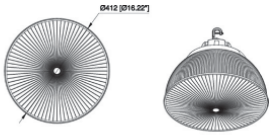
WET LOCATION HIGH BAY
SWITCHABLE LUMEN, CCT AND BEAM

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ACCESSORIES

Accessories (Optional)	Image	Description	Part #	Dimensions/Notes
Safety Tether		IRH-TLR	93130251	**Cable length:** 6'
Wire Guard		**Size 1:** IRH-1-WG	93318627	**Size 1:** H 1.89"; Dia 10.25" **Size 2:** H 2.09", Dia 12.4" **Min Order Qty** = 10
		Size 2: IRH-2-WG	93318628	
Full Wire Guard		**Size 1:** IRH-1-FWG	93318629	**Size 1:** H 7.86" Dia 17.88" **Size 2:** H 8.15" Dia 17.88"
		Size 2: IRH-2-FWG	93318630	
Polycarbonate Refractor		**Size 1:** IRH-1-PC16	93318621	**Size 1 & 2**: H 6.3" Dia 16" **Lumen Output Multiplier:** .98
		Size 2: IRH-2-PC16	93318622	
Polycarbonate Drop Lens		**Size 1:** IRH-1-PCL	93318623	Drop lens adds: **100W:** H 3.6cm (1.4 in.) **150W:** H 3.6cm (1.4 in.) **200 –240W:** H 4.1cm (1.6 in.) **Lumen Output Multiplier:** .93
		Size 2: IRH-2-PCL	93318624	
Aluminum Reflector		**Size 1:** IRH-1-AL16	93318625	**Size 1:** H 6.45"; Dia 16" **Size 2:** H 7.15"; Dia 18" **Lumen Output Multiplier:** .90
		Size 2: IRH-2-AL18	93318626	

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Columbia LIGHTING

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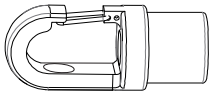
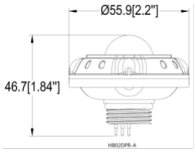
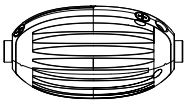
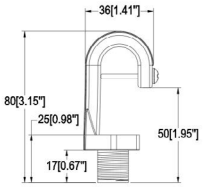
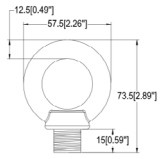
TYPE: PROJECT:

CATALOG #:

CRN2 Fully Switchable

WET LOCATION HIGH BAY
SWITCHABLE LUMEN, CCT AND BEAM

ACCESSORIES

Accessories (Optional)	Image	Description	Part #	Dimensions/Notes
Wall Mount Bracket*		**Size 1 Black:** IRH-1-YM-BLK	93159855G	**Total Height of assembly from top of bracket to bottom of fixture:** **Size 1:** H 6.3" **Size 2:** H 7.1" **200 –240W:** 22.8cm (9 in.) * Pendant mount slot on yoke is ½". Use IRH-YOKE-ADPT to convert to ¾"
		Size 1 White: IRH-1-YM-WHT	93161797	
		Size 2 Black: IRH-2-YM-BLK	93159856G	
		Size 2 White: IRH-2-YM-WHT	93130248	
Snaphook		**Sizes 1 & 2**	93130250	**Dimensions Notes:** Snap Hook for ¾" Conduit
PIR Occupancy Sensor		**Sensor:** HB03DPR	93161798	**Notes:** 1. Easy plug-and-play install to center face of fixture; maintains IP65 rating 2. Sensor requires remote if programming is desired 3. HB03DPR sensor is not compatible with IRH-ELL40 emergency battery
		Remote: HB03DPR-REMOTE	93161799	
Emergency Battery		IRH-ELL40	93161800	H: 10.78"; W: 5.57" **Note:** IRH-ELL40 emergency battery is not compatible with HBO3DPR sensor
Hook		**Black:** IRH-HOOK-B	93318612	Hook for ½" NPT
		White: IRH-HOOK-W	93318613	
Ring		**Black:** IRH-RING-B	93318614	Ring for ½" NPT
		White: IRH-RING-W	93318615	
NPT converter			93130249	½" to ¾" NPT converter

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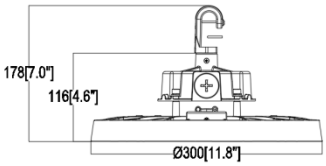
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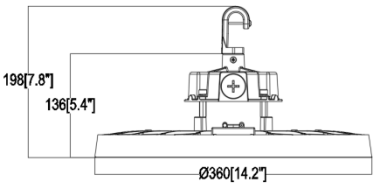
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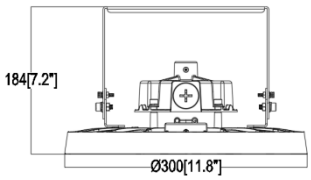
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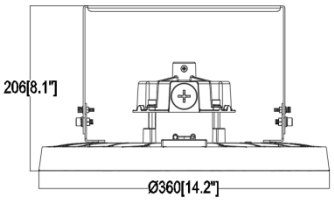
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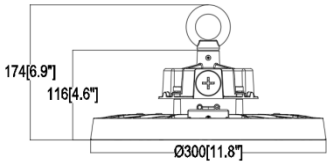
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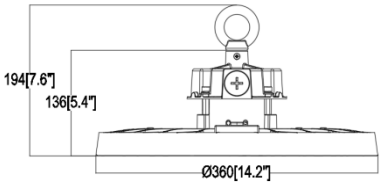
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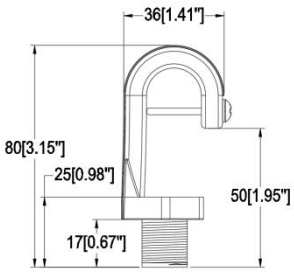


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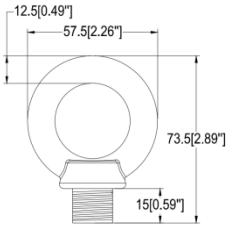


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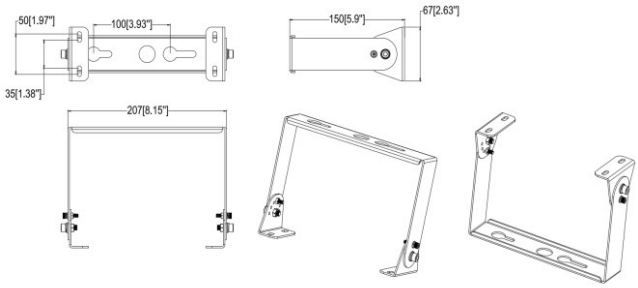
HOOK



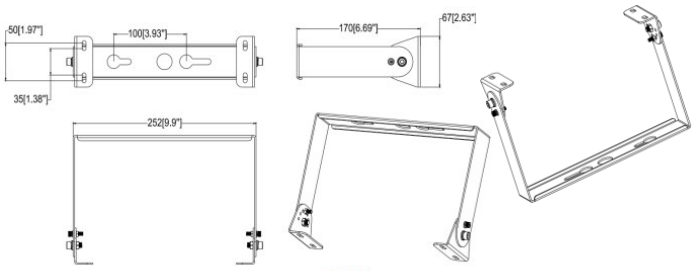
RING



WALL BRACKET

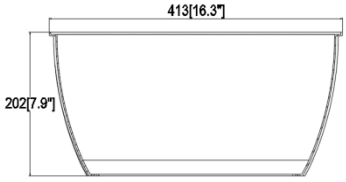


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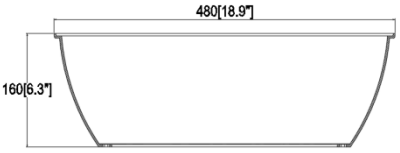


Size 2

PC REFLECTOR

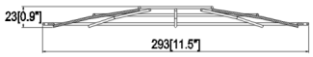


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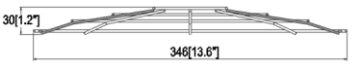


Size 2

WIRE GUARD – NOT AVAILABLE ON REFLECTOR

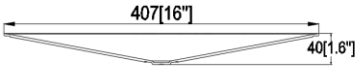


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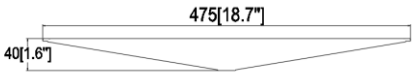


Size 2

PC REFLECTOR COVER

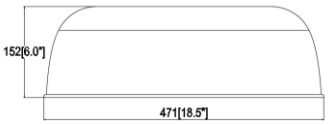


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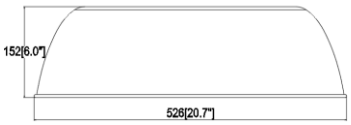


Size 2

ALUMINUM REFLECTOR



Size 1



Size 2

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Columbia LIGHTING

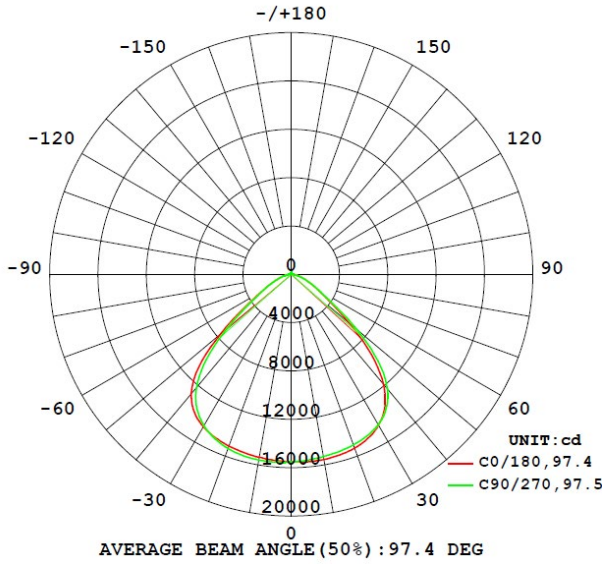
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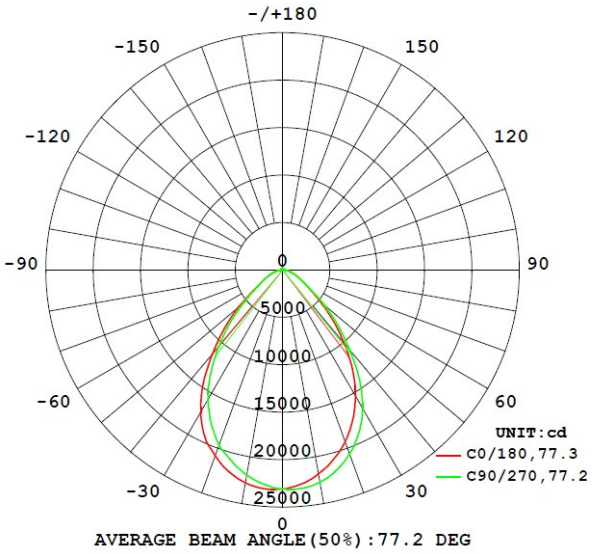
PHOTOMETRY

100° Beam Setting



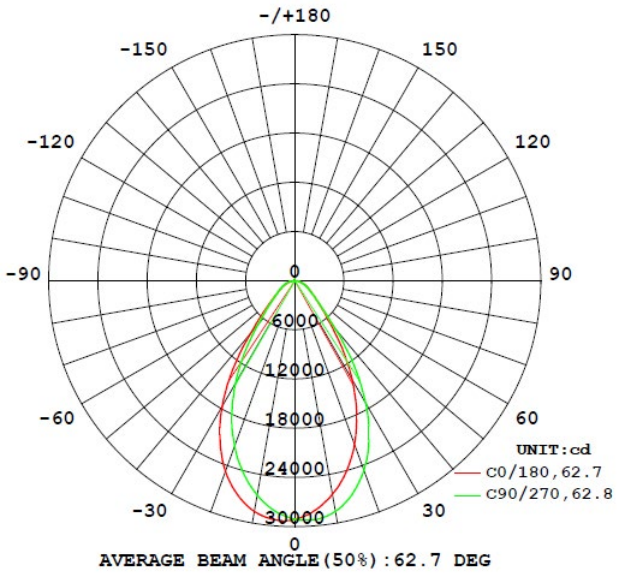
AVERAGE BEAM ANGLE(50%):97.4 DEG

80° Beam Setting



AVERAGE BEAM ANGLE(50%):77.2 DEG

60° Beam Setting



AVERAGE BEAM ANGLE(50%):62.7 DEG

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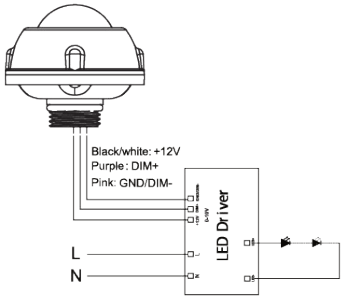
CRN2 Fully Switchable

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SWITCHABLE LUMEN, CCT AND BEAM

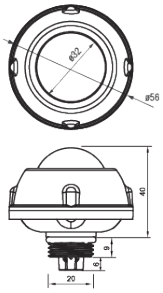
HB03DPR MOTION SENSOR ACCESSORY







Wiring diagram



Unit:mm

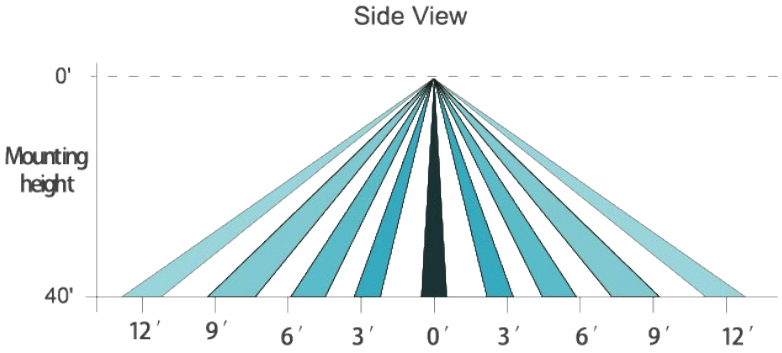
TECHNICAL DATA	
Operating Voltage:	12±2V DC
Operating Current	30mA
Output:	DIM 0-10V
Stand-by Power:	<0.5W
Brightness:	0%-100% Quick Setting: 70%/80%/90%/100%
Hold Time:	10s/1min/10min/30min
Daylight Threshold:	10Lux/30Lux/50Lux/100Lux/Disable
Stand-by Time:	1min/30min/60min + ∞

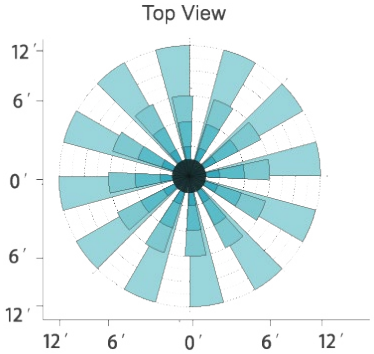
TECHNICAL DATA	
Stand-by Dimming Level:	10%/20%/30%/50%
Detection Angle:	≤120° (wall mounted), 360° (Ceiling mounted)
Mounting Height:	≤12m/39.37ft (Ceiling mounted)
Detection Range:	Radius, 2-4m/6.58-13.12ft (Ceiling mounted)
Operating Temperature:	−30°C~+60°C
IP Rating:	IP65 (Mounted on the light fixture)
Warm-up Period	50S

Note: Default setting - Brightness: 100%, Hold time: 1min, Stand-by dimming level: 20%, Stand-by time: 1min, Sensitivity: 100% (non-adjustable) Daylight: Disable.

DETECTION COVERAGE

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.



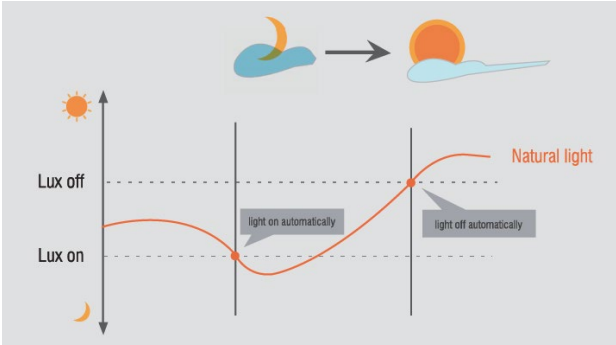


LUX ON/OFF

Adopted dual PD technology, PRC Motion Sensor is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Preconditions to use the Lux-off function:

1. **Stand-by time is + ∞**
2. **Stand-by dimming level is on 10%, 20%, 30%, or 50%**
3. **Daylight threshold is on 10Lux, 30Lux, 50Lux, or 100Lux (About 20% error between actual and reference values).**



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CRN2 Fully Switchable

WET LOCATION HIGH BAY
SWITCHABLE LUMEN, CCT AND BEAM

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

HB03DPR-REMOTE



Display Area

Brightness (70%, 80%, 90%, 100%)

Daylight (10%, 30%, 50%, 100%)

Standby Dim (10%, 20%, 30%, 50%)

Hold Time (10s/1min/10min/30min)

Sensitivity (20%, 50%, 75%, 100%)

Standby Time (+ ∞ 1min/30min/60min)

Button Setting Area

On/Off (Long press the "On/Off" button until the brightness indicator light is on (First-row). Press to turn on or turn off the fixture.)

Brightness (Press to adjust dimming level 70%, 80%, 90%, 100%)

Standby Dim (10%, 20%, 30%, 50%)

Send (Press to save settings after each change. The indicator light confirms the save setting.)

Hold Time (Press to adjust hold time 10s/1min/10min/30min.)

Daylight (Long press the button until the daylight indicator light is on press to adjust daylight threshold 10%, 30%, 50%, 100%)

Sensitivity (Press to adjust sensitivity 20%, 50%, 75%, 100%) Note: PIR Motion Sensor have no sensitivity setting, the default 100%.)

Standby Dim (Press to adjust stand-by time + ∞ 1min/30min/60min). Note: "+ ∞" means unlimited stand-by time, and the light control mode is the light control priority mode, otherwise it's the light threshold mode.

Reset (Press "Reset" button, products with DIP switch will be controlled by DIP switches; Otherwise all the setting will change, which is Brightness 70%/Hold time 10s/Sensitivity 20%/ Daylight threshold disable/Stand-by dimming level 10%/ Stand-by time + ∞)

Test (The button "Test" is for testing purpose after debugging. Pressing this button, the sensor goes to test mode (Hold time is only 3S).)

Press to increase brightness (0–100%)

Press to reduce brightness (100%–0%)

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Columbia LIGHTING

CRN2 Fully Switchable

WET LOCATION HIGH BAY
SWITCHABLE LUMEN, CCT AND BEAM

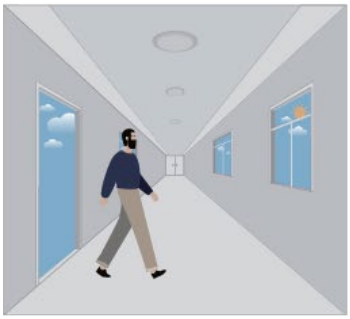
DATE: LOCATION:

TYPE: PROJECT:

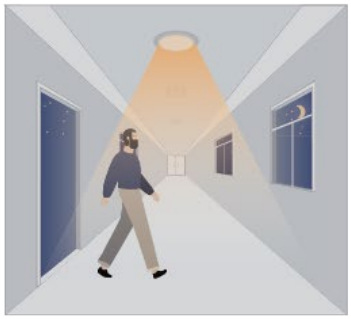
CATALOG #:

Performance

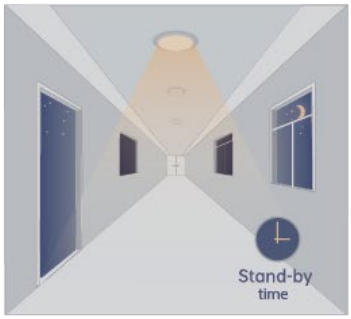
1. AUTOMATIC ON/OFF FUNCTION



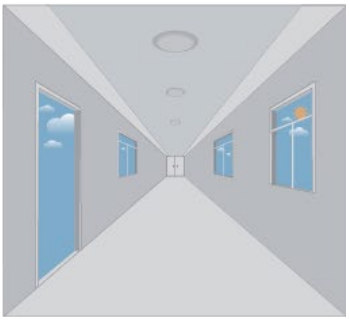
With sufficient daylight, even when motion is detected, light will remain OFF.



With insufficient daylight, the sensor turns light ON when motion gets detected.

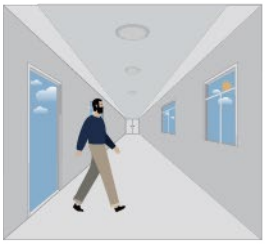


Light dims to stand-by level if no motion detected after hold time.

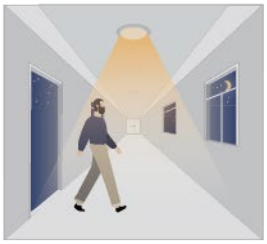


Light OFF when ambient lux level is higher than preset lux amount.

2. CORRIDOR FUNCTION, BI-LEVEL DIMMABLE



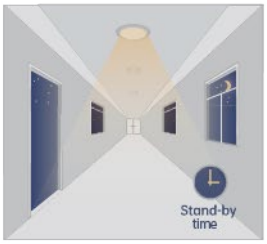
With sufficient daylight, the sensor keeps light OFF even motion gets detected, daylight function is on.



With insufficient daylight, the sensor turns light ON when motion gets detected.



After there's no motion detected, the sensor keeps light ON brightness setting for hold time.

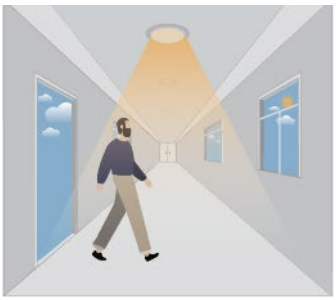


After holdtime, sensor dims light to stand-by dimming level for stand-by time.



The sensor turns OFF light automatically after the stand-by time when there's no motion detected.

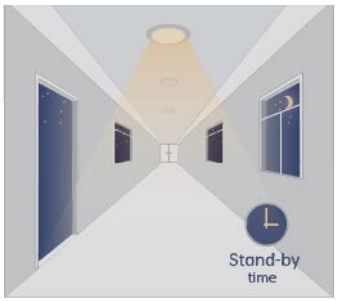
3. DAYLIGHT DISABLE



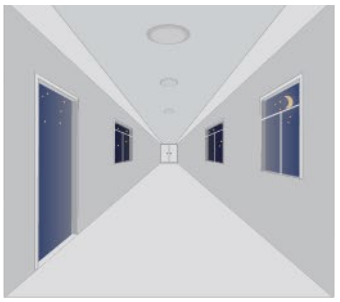
The sensor turns light ON when motion gets detected.



The sensor keeps light ON for hold time after motion leaves.



After hold time, sensor dims light to stand-by dimming level for stand-by time.



The sensor turns OFF light automatically after the stand-by time when there's no motion detected.

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