

PRC Series

LED IP65 Selectable Round High Bay

The **Albeo® PRC Series** is an NSF and IP65 rated wet location round high bay with an exceptional mixture of value and performance. Offering universal 120-347V, selectable lumens and CCT, field-installable sensors and accessories, the PRC is the ideal solution for a wide range of industrial and commercial applications including: food and beverage processing, commercial kitchens, cold storage and manufacturing facilities



CONSTRUCTION

| | |
|--------------------------|--|
| Housing: | Die-cast Aluminum |
| Lens: | Clear Polycarbonate (90°) |
| Paint: | Powder coat painted housing No glass in housing or lenses |
| Weight: | 6.5–9.5lbs (2.95–4.30kg) |
| Optical Assembly: | Optional polycarbonate refractor, drop lens, or aluminum reflector |

OPTICAL SYSTEM

| | |
|----------------------|--|
| Lumens: | 1X: Selectable 15,000 / 18,000 / 21,000 2X: Selectable 24,000 / 30,000 / 34,000 |
| Wattage: | 100–240W |
| Efficacy: | Up to 160 LPW |
| CCT: | Selectable 4000K / 5000K |
| CRI: | 80 |
| Glare Rating: | UGR<28 |

ELECTRICAL

| | |
|--|-----------------------------------|
| Input Voltage: | 120-277V or 120-347V |
| Input Frequency: | 50/60Hz |
| Power Factor (PF)*: | >0.9* |
| Total Harmonic Distortion (THD)*: | <20%* |
| EMI: | FCC CFR Title 47 Part 15, Class A |
| Surge Protection: | 6KV surge protection |

* PF and THD may vary with options

CONTROLS

| | |
|-----------------|--|
| Dimming: | 0-10V Dimming to 10% |
| Sensors: | Field installable Sensor (see page 9 for specs) |

LUMINAIRE AMBIENT TEMPERATURE

| TYPE | TEMPERATURE RATE |
|------------------------|---|
| OPERATING TEMP. | With Sensor: –30°C to 50°C Without Sensor: –40°C to 50°C |
| STORAGE TEMP. | With Sensor: –30°C to 70°C Without Sensor: –40°C to 70°C |

LUMEN MAINTENANCE

| | |
|--------------------------|-----------|
| LXX (10K) @ HOURS | 50,000 HR |
| L70 | |

MOUNTING

- **Typical Mounting:** ½" NPT hook included. Wall mount bracket and safety tether may be ordered separately
- **Cord:** 6ft cord included (pre-installed)
- Optional sensor remote accessory allows daylight and dimming sensor capabilities to be enabled and programmed

ADDITIONAL NOTES

- UL 1598 to US and Canadian standards
- Suitable for wet locations
- IP65 and NSF Splash Zone rated
- NEMA 250 Type 4X rated

DESIGN LIFE & WARRANTY

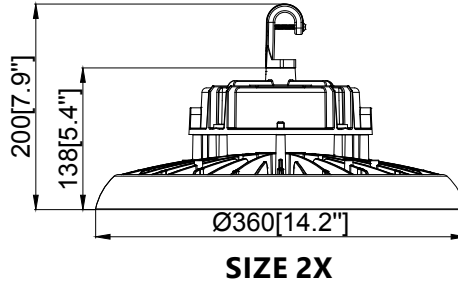
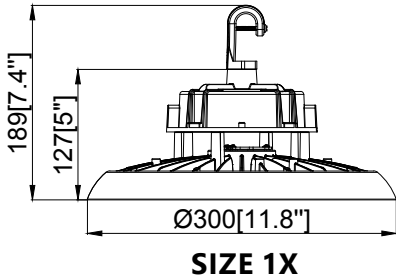
- **Current's Limited 5-year Warranty:**
See Product Warranties section at led.com/resources



FIELD-INSTALLABLE MOUNTING AND ACCESSORY OPTIONS

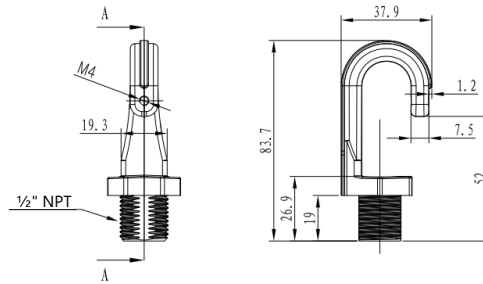
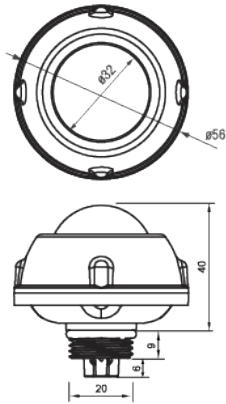
| MOUNTING/ACCESSORY OPTIONS | IMAGE | ORDER SKU# | DIMENSIONS/NOTES |
|--|-------|--|---|
| Safety Tether (optional) | | Size 1X & 2X: 93159859G Min Order Quantity = 10 | Cable length: 1m (39.4 in.) Cable Diameter: 2mm(.08 in.) |
| Wire Guard (optional) | | Size 1X: 93159853G Size 2X: 93159854G Min Order Quantity = 10 | Size 1X: H 4.8cm (1.9 in.); Dia 26.1 cm (10.2 in.) Size 2X: H 5.2cm (2 in.); Dia 31.5cm (12.4 in.) |
| 90° Polycarbonate Refractor (optional) | | Size 1X: 93159838G Size 2X: 93159839G Min Order Quantity = 1 | Size 1X: H 16cm (6.3 in.); Dia 41cm (16.1 in.) Size 2X: H 16cm (6.3 in.); Dia 41cm (16.1 in.) |
| Polycarbonate Drop Lens (optional) | | Size 1X & 2X: 93159840G Min Order Quantity = 1 | Drop lens adds: H 4cm (1.6 in.) |
| 90° Aluminum Reflector (optional) | | Size 1X: 93159851G Size 2X: 93159852G Min Order Quantity = 5 | Size 1X: H 16.1cm (6.3 in.); Dia 42cm (16.5 in.) Size 2X: H 18.2cm (7.1 in.); Dia 47.3cm (18.6 in.) |
| Wall Mount Bracket (optional) | | Size 1X: 93159855G (HD03DPR) Size 2X: 93159856G (HB03DPR-Remote) Min Order Quantity = 10 | Total Height of assembly from top of bracket to bottom of fixture: Size 1X: 15cm (5.9 in.) Size 2X: 17cm(6.7 in.) |
| PIR Sensor -New (optional) | | Sensor: 93159862G Remote: 93159857G Min Order Quantity = 1 | Notes: 1. Easy plug-and-play install to center face of fixture; maintains IP65 rating 2. Sensor requires remote if programming is desired |
| Emergency Battery | | 93161800 | Dimensions: H: 10.78"; W: 5.57" Note: 120-277V only |

DIMENSIONS

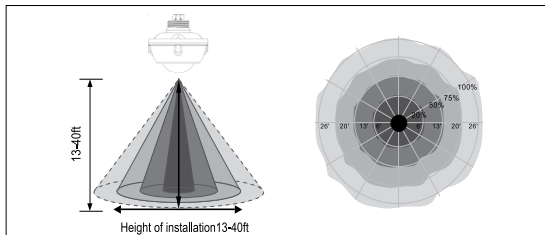


FIELD-INSTALLABLE SENSOR

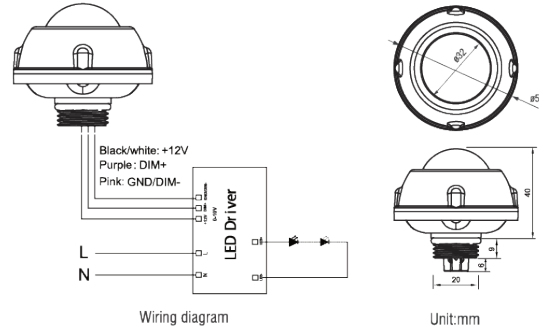
HOOK (½" NPT), INCLUDED



SENSOR COVERAGE



HD03DPR MOTION SENSOR ACCESSORY SPECIFICATIONS



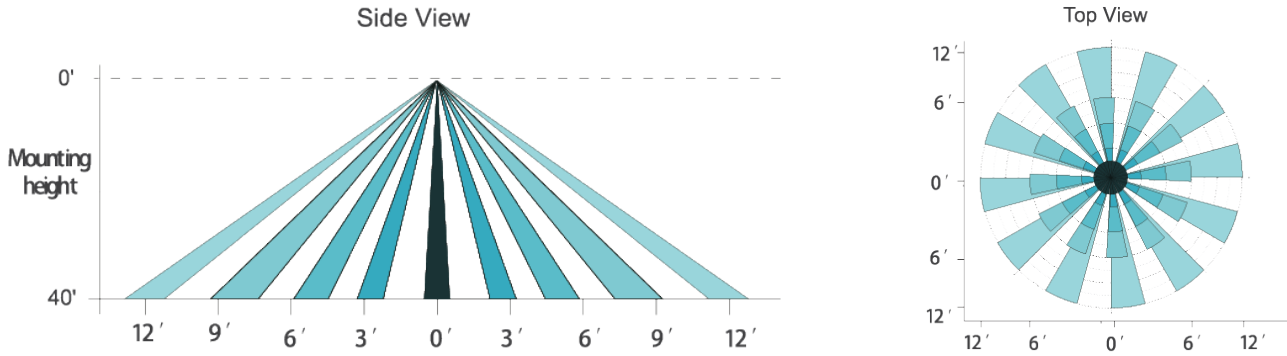
TECHNICAL DATA

| | |
|--------------------------------|--|
| 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 + ∞ |
| 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.

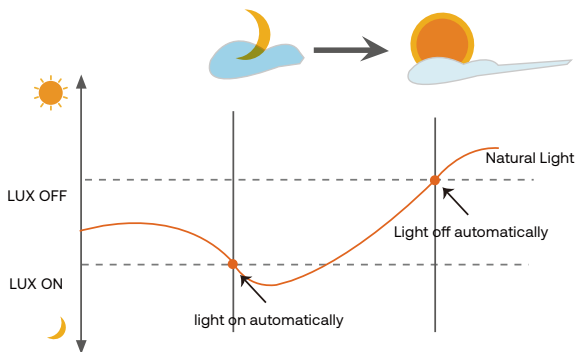


Lux on/off

PRC 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.

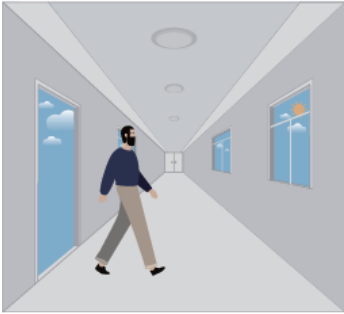
Preconditions to use the Lux-off function:

1. Stand-by time is $+\infty$
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).

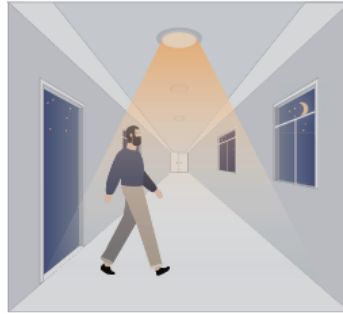


Performance

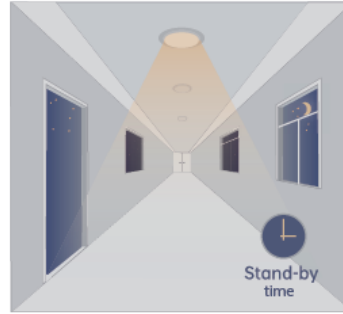
1. AUTOMATIC ON/OFF FUNCTION



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



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

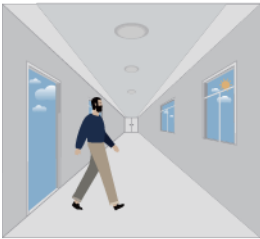


Light dims to stand-by level if no motion detected after hold time.

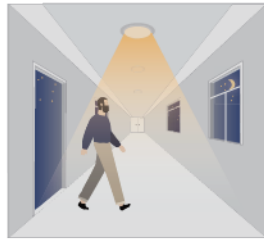


Light OFF when ambient lux level is higher than preset lux amount.

2. CORRIDOR FUNCTION, BI-LEVEL DIMMABLE



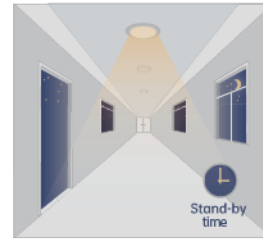
With sufficient daylight, the sensor keeps light OFF even motion gets detected, daylight function is on.



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.

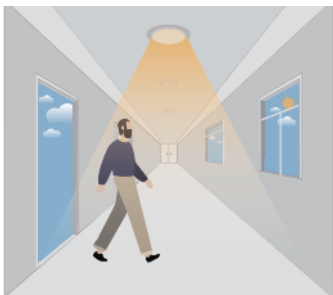


After holdtime, sensor dims light to stand-by dimming level for stand-by time.



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.

HB03DPR-REMOTE



Display Area

BRIGHTNESS (70%/80%/90%/100%)
 DAYLIGHT (10lx/30lx/50lx/100lx)
 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%.)
- 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 10lx/30lx/50lx/100lx.)
- 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 dimming level 10%/20%/30%/50%.)
- STANDBY TIME** (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%).

Attention



1. Please read the instructions carefully before using this product and keep it for future reference.
2. The sensor should be installed by a qualified electrician and ensure power is off before the installation.
3. We reserve the right to modify any incorrect text, image and necessary technical parameters.
4. Any unauthorized modification is forbidden, otherwise all gaurantees will be immediately invalid.

Installation Precautions

1. Turn the power off at the circuit breaker before installing the sensor.
2. Do not allow bare wires to show.
3. Assemble any necessary mounting accessories.
4. Have the sensor's lens lower than edge of the fixture and keep the sensor away from heating part.

Application Enviroment

1. Do not mount it outdoors, as it is sensitive to temperature changes.
2. Do not mount in areas with sudden changes in temperature or airflow.
3. Do not have shelves between sensor to the presence area.