

## HBA2 SERIES WET LOCATION BAY LIGHT

Client:  
 Project:  
 Type:  
 Quantity:

### CONSTRUCTION

Single piece die-cast aluminum housing, maximizes heat dissipation and life expectancy of the luminaire.

IP66 rated protection against dust and water.

IK08 rated protected against 5 joules impact, equivalent to impact of 1.7kg mass dropped from 300mm above impacted surface.

Suitable for interior/exterior, wet, high pressure washdown applications.

### OPTICS

Standard clear polycarbonate lens protects LEDs against solid and liquid impact, symmetric LED board layout offers maximum uniformity illumination.

### ELECTRICAL

80 CRI Lumileds LED.

-40°C up to 55°C (-40°F up to 131°F) maximum operating temperature.

Long-life 54,000 hr LED at L70.

Available with CCT / Output selectable function - **see Order Information (Pg 2)**

Universal Input 100-280V, 0-10V dimming, output 36V-42V, with 12V AUX output, 50/60Hz, <15% THD, 0.9 power factor. - **see Driver Spec (Pg 8)**

Optional dimming sensor for occupancy and ambient light level detection.

### SENSOR (OPTIONAL)

SENSOR-ANT-6-4T - Plug-N-Play PIR on/off/dimming/photosensing (40FT MH).

SENSOR-ANT-6-4T-H - Plug-N-Play PIR on/off/dimming/photosensing (50FT MH).

SENSOR-BLE-6-4T - Plug-N-Play PIR ALS Control Bluetooth/on/off/dimming (40FT MH).

SENSOR-BLE-6-4T-H - Plug-N-Play PIR ALS Control Bluetooth/on/off/dimming (50FT MH).

"-EM" - Compatible with Emergency Battery (Auto-bypass)

### MOUNTING

Standard Snap Hook w/Safety Cable included.

Optional 1/2" NPT Pipe to Hook Adapter.

Optional Yoke mount bracket.

### FINISH

Standard corrosion resistant semi-gloss Black or White finish.

### CERTIFICATION

IP66 Wet location label standard. IK08 Rated.

Meets Buy America Act requirements.

Available for BAA Compliant projects.

All luminaires are built to UL1598 standards and bear appropriate cULus labels.

For Emergency application, equipment with UL924 certified battery packs.

DLC® Premium (DesignLights Consortium Qualified)

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



w/Optional Sensor

### SHIPPING DATA

| Product  | Measurement       | Weight |
|----------|-------------------|--------|
| HBA2-160 | 15"L x 15"W x 5"H | 8 lb   |



## HBA2 SERIES WET LOCATION BAY LIGHT

| ORDER INFORMATION |                    |                                                        |                                   | EXAMPLE : HBA2 160 SC C BK UD |        |       |
|-------------------|--------------------|--------------------------------------------------------|-----------------------------------|-------------------------------|--------|-------|
| Fixture           | Series             | Power & LM                                             | CCT                               | Lens                          | Finish | Input |
|                   | HBA2               |                                                        |                                   | C                             | BK     |       |
| Mounting          |                    |                                                        |                                   |                               |        |       |
| Accessories       |                    |                                                        |                                   |                               |        |       |
| Options           |                    |                                                        |                                   |                               |        |       |
| A                 | Series             |                                                        |                                   |                               |        |       |
|                   | HBA2               | LED Bay Light Selectable (HBA Gen 2)                   |                                   |                               |        |       |
| B                 | Power & LM         |                                                        |                                   |                               |        |       |
|                   | Code               | Power (Selectable)**                                   | Lumen                             |                               |        |       |
|                   | 160                | 80W / 100W / 120W / 160W                               | 12,480 / 15,600 / 18,720 / 24,960 |                               |        |       |
|                   |                    | **Field Selectable                                     |                                   |                               |        |       |
| C                 | CCT (Selectable)** |                                                        |                                   |                               |        |       |
|                   | SC                 | 3000K ~ 5000K                                          |                                   |                               |        |       |
|                   |                    | **Field Selectable                                     |                                   |                               |        |       |
| D                 | Lens               |                                                        |                                   |                               |        |       |
|                   | C                  | Clear Polycarbonated Lens                              |                                   |                               |        |       |
| E                 | Finish             |                                                        |                                   |                               |        |       |
|                   | BK                 | Black                                                  | WH                                | White                         |        |       |
| F                 | Input              |                                                        |                                   |                               |        |       |
|                   | UD                 | 120-277V, 0-10V Dimmable                               |                                   |                               |        |       |
| G                 | Mounting           |                                                        |                                   |                               |        |       |
|                   | blank              | Snap Hook Mount w/Safety Cable (standard)              |                                   |                               |        |       |
|                   | MOUNT-HB-HOOK      | 1/2" NPT Pipe to Hook Pendant Mount Adapter (optional) |                                   |                               |        |       |
|                   | MOUNT-HBA2-160-YM  | Yoke Mount for HBA2-160 (optional)                     |                                   |                               |        |       |

## HBA2 SERIES WET LOCATION BAY LIGHT

### H Accessories/Options

|                              |                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>BAA</b>                   | Assembled in America, compliant with BAA (COTS)                                                                                   |
| <b>WIREGUARD-HBA2-160</b>    | Wireguard for HBA2-160 (1:1)                                                                                                      |
| <b>SENSOR-ANT-6-4T*</b>      | Plug-N-Play PIR on/off/dimming/photosensing up to <b>40FT MH</b>                                                                  |
| <b>SENSOR-ANT-6-4T-EM*</b>   | Plug-N-Play PIR on/off/dimming/photosensing for <b>EMB application</b> up to <b>40FT MH</b>                                       |
| <b>SENSOR-ANT-6-4T-H*</b>    | Plug-N-Play PIR on/off/dimming/photosensing up to <b>50FT MH</b>                                                                  |
| <b>SENSOR-ANT-6-4T-H-EM*</b> | Plug-N-Play PIR on/off/dimming/photosensing for <b>EMB application</b> up to <b>50FT MH</b>                                       |
| <b>SENSOR-BLE-6-4T*</b>      | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App)                                          |
| <b>SENSOR-BLE-6-4T-EM*</b>   | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) for EMB application                      |
| <b>SENSOR-BLE-6-4T-H*</b>    | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) up to <b>50FT MH</b>                     |
| <b>SENSOR-BLE-6-4T-H-EM*</b> | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) for EMB application up to <b>50FT MH</b> |
| <b>REMOTE-RC100</b>          | Handheld Sensor Remote Control (1 per job)                                                                                        |
| <b>EMB-40W**</b>             | Wet Location Self-Diagnostic Emergency Battery 40W 100-347VAC Input 170VDC Output                                                 |
| <b>EMB-40W-550**</b>         | Wet Location Self-Diagnostic Emergency Battery 40W 480VAC Input 500VDC Output for HD Input                                        |
| <b>LENS-HB100A-AR / PR</b>   | HBA2-160 AR - Aluminum Reflector / PR - Prismatic Reflector                                                                       |
| <b>-CORD</b>                 | 18-3 300V 6 Foot Cord                                                                                                             |
| <b>-PLUG</b>                 | 6 Foot Cord and 3 Prong Plug                                                                                                      |
| <b>TWIST-LOCK</b>            | Specify Plug Type: L515P / L715P / HBL5929 / L8-20P                                                                               |

\*see page 9 or sensor spec

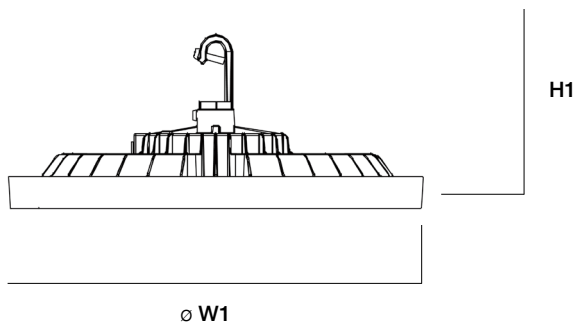
\*\*see page 6 for emb spec

## HBA2 SERIES WET LOCATION BAY LIGHT

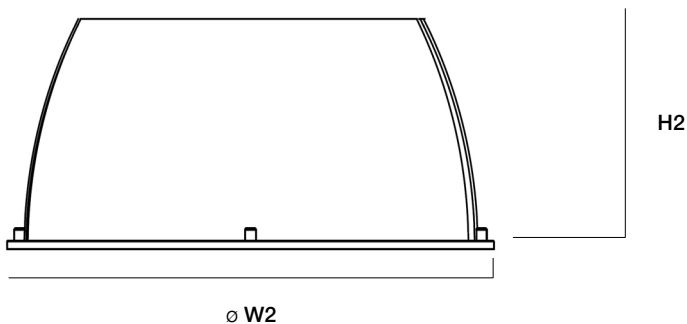
### DIMENSIONS

| Model               | H1            | H2            | H3            | W1               | W2               | W3             |
|---------------------|---------------|---------------|---------------|------------------|------------------|----------------|
| HBA2-160            | 5.78" (147mm) |               |               | ø 10.83" (275mm) |                  |                |
| LENS-HB100A-PR / AR |               | 6.46" (164mm) |               |                  | ø 13.97" (355mm) |                |
| MOUNT-HBA2-YM       |               |               | 7.14" (181mm) |                  |                  | 10.33" (262mm) |

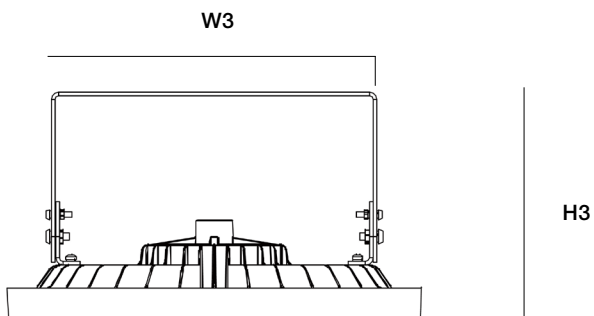
**Luminaire**



**PR / AR Lens**



**Luminaire w/Yoke**



## HBA2 SERIES WET LOCATION BAY LIGHT

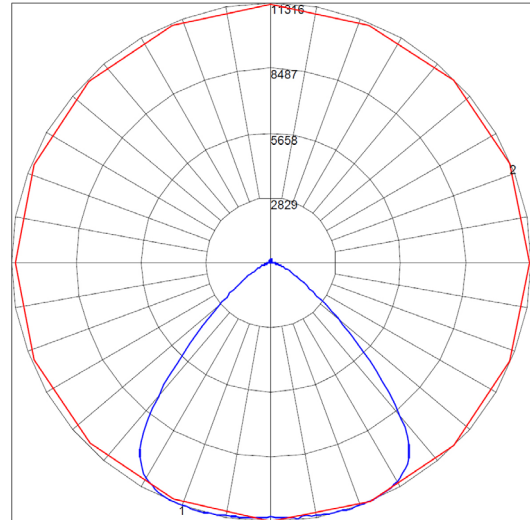
### PERFORMANCE

HBA2-160SC

| Zone  | Lumen | Luminaire% |
|-------|-------|------------|
| 0-30  | 9536  | 39.50      |
| 0-40  | 15620 | 62.30      |
| 0-60  | 21965 | 91.00      |
| 0-90  | 23151 | 100        |
| 0-180 | 23431 | 100        |

Lumen: 24121  
 Input Watts: 147.84 W  
 Efficacy: 163 LPW

IES: HBA2-160SC @ 160W 4000K

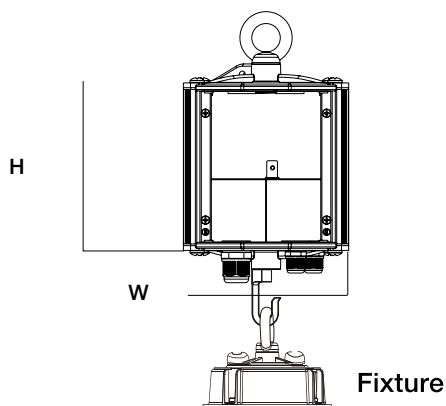


Maximum Candela = 11316.38 Located At Horizontal Angle = 270, Vertical Angle = 17  
 # 1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (17) (Through Max. Cd.)

## HBA2 SERIES WET LOCATION BAY LIGHT

### EMERGENCY BATTERY

| Model       | H                | W                  | Compatible     |
|-------------|------------------|--------------------|----------------|
| EMB-40W     | 6.80" (173.00mm) | ø 5.47" (139.00mm) | 120W and above |
| EMB-40W-550 | 6.80" (173.00mm) | ø 5.47" (139.00mm) | 120W and above |

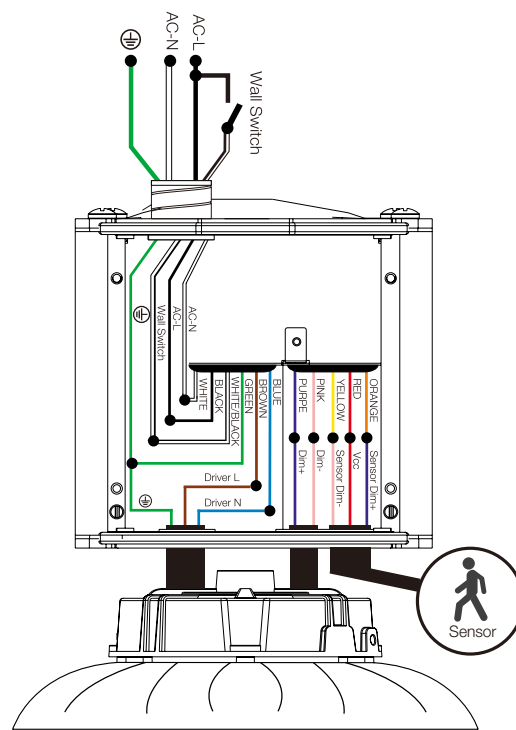
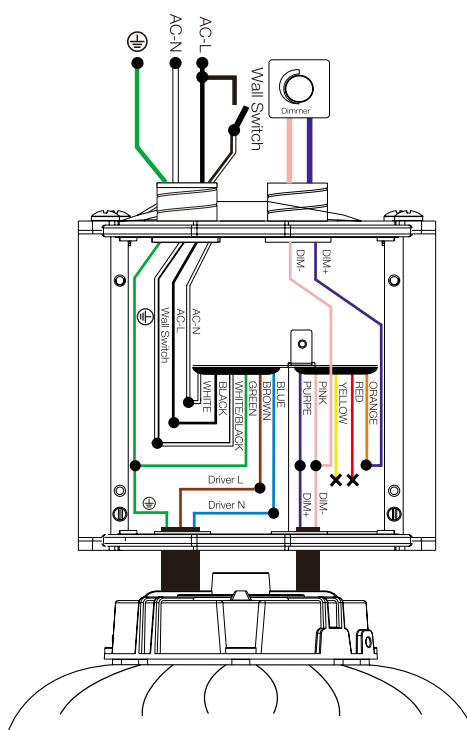
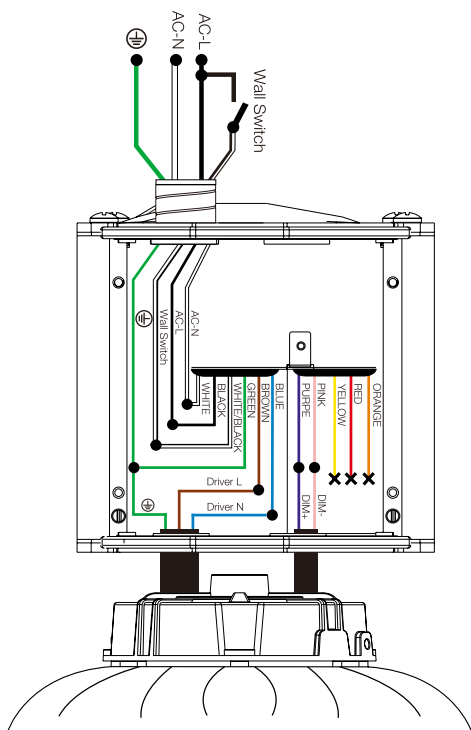


### EMERGENCY BATTERY DIAGRAM

On/Off

w/0-10V  
Dimmer

w/DC Sensor  
SENSOR-ANT-6-4T



## HBA2 SERIES WET LOCATION BAY LIGHT

### PERFORMANCE DATA / DLC CODE

| SYSTEM WATTS               | CCT   | VOLTAGE  | LUMEN | LPW | QTY ON PALLET | PART NUMBER      | DLC PRODUCT ID / ORDER CODE | DLC CLASS          |
|----------------------------|-------|----------|-------|-----|---------------|------------------|-----------------------------|--------------------|
| HBA2-160<br>80W Selection  | 3000K | 120-277V | 10560 | 132 | 90            | HBA2-160SC-CXXUD | Pending                     | DLC 5.1<br>Premium |
|                            | 4000K | 120-277V | 12480 | 156 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
|                            | 5000K | 120-277V | 11760 | 147 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
| HBA2-160<br>100W Selection | 3000K | 120-277V | 13200 | 132 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
|                            | 4000K | 120-277V | 15600 | 156 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
|                            | 5000K | 120-277V | 14700 | 147 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
| HBA2-160<br>120W Selection | 3000K | 120-277V | 15840 | 132 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
|                            | 4000K | 120-277V | 18720 | 156 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
|                            | 5000K | 120-277V | 17640 | 147 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
| HBA2-160<br>160W Selection | 3000K | 120-277V | 21120 | 132 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
|                            | 4000K | 120-277V | 24960 | 156 | 90            |                  | Pending                     | DLC 5.1<br>Premium |
|                            | 5000K | 120-277V | 23520 | 147 | 90            |                  | Pending                     | DLC 5.1<br>Premium |

## HBA2 SERIES WET LOCATION BAY LIGHT

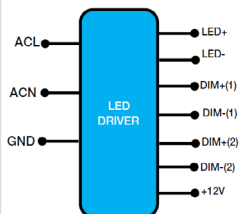
### DRIVER SPECIFICATION

#### HBA2-160 Driver Spec

- Driver Type: Potted Driver
- Input: 120-277Vac / 347~480Vac
- Output Wattage: 162.5W Max
- Output Voltage: 130Vdc Max
- Output Current: 1.155A ~ 1.25A
- Power Factor: 0.91
- THD: 17% MAX
- Dimming: 0-10V Dim to Off
- AUX Output: 12Vdc
- MAX Temp: 90°C



#### Driver Wiring Diagram

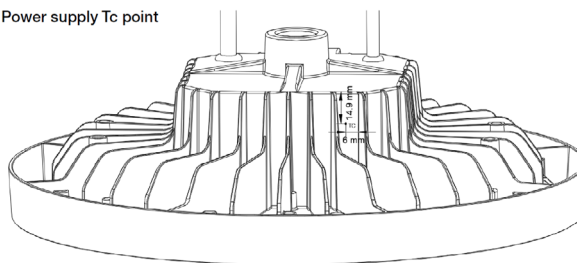


AC input line  
Spec: SJTW 3C, 18 AWG, OD: 7.8mm; Black: ACL, White: ACN, Green: GND

DC output line  
Spec: 1332, 18 AWG, OD: 1.8mm; White: LED+, Blue: LED-

Dim signal line and auxiliary power line  
Spec: 3226, 24AWG, OD: 1.37mm; Black / White: 12V, Purple: DIM+(1), DIM-(2) Pink: DIM-(1), DIM-(2).

#### Power supply Tc point





## HBA2 SERIES WET LOCATION BAY LIGHT

### SENSOR SPEC

| Model                                                             | Type | Mounting   | Coverage    | Input  | Function                                                | Programmable                           |
|-------------------------------------------------------------------|------|------------|-------------|--------|---------------------------------------------------------|----------------------------------------|
| SENSOR-ANT-6-4T<br>SENSOR-ANT-6-4T-EM                             | PIR  | up to 40FT | 30FT radius | 12V DC | On/Off/Dimming                                          | REMOTE-RC100                           |
| SENSOR-BLE-6-4T<br>SENSOR-BLE-6-4T-EM<br>(see page 10 for detail) | PIR  | up to 40FT | 30FT radius | 12V DC | Bluetooth Mesh<br>On/Off/Dimming<br>Daylight Harvesting | ALS Control<br>Bluetooth<br>Mobile App |
| SENSOR-ANT-6-4T-H*<br>SENSOR-ANT-6-4T-H-EM                        | PIR  | up to 50FT | 30FT radius | 12V DC | On/Off/Dimming                                          | REMOTE-RC100                           |
| SENSOR-BLE-6-4T-H*<br>SENSOR-BLE-6-4T-H-EM                        | PIR  | up to 50FT | 30FT radius | 12V DC | Bluetooth Mesh<br>On/Off/Dimming<br>Daylight Harvesting | ALS Control<br>Bluetooth<br>Mobile App |



SENSOR-ANT-6-4T  
 SENSOR-ANT-6-4T-EM  
 SENSOR-BLE-6-4T  
 SENSOR-BLE-6-4T-EM  
 SENSOR-BLE-6-4T-H  
 SENSOR-BLE-6-4T-EM-H

## SENSOR-BLE-6 BLUETOOTH PIR SENSOR

Client:  
Project:  
Type:  
Quantity:

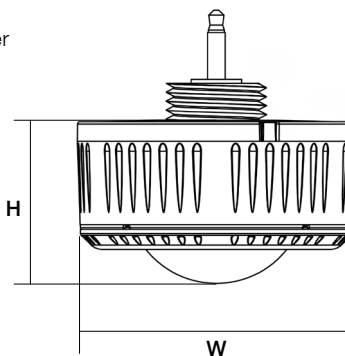
### FEATURE

- **Installation:** Plug-N-Play via AUX socket on attached fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on or auto-off capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual) and Daylight Harvesting
- **Room and Zone Control:** Zoning and Grouping control, Scheduling

### SPECIFICATIONS

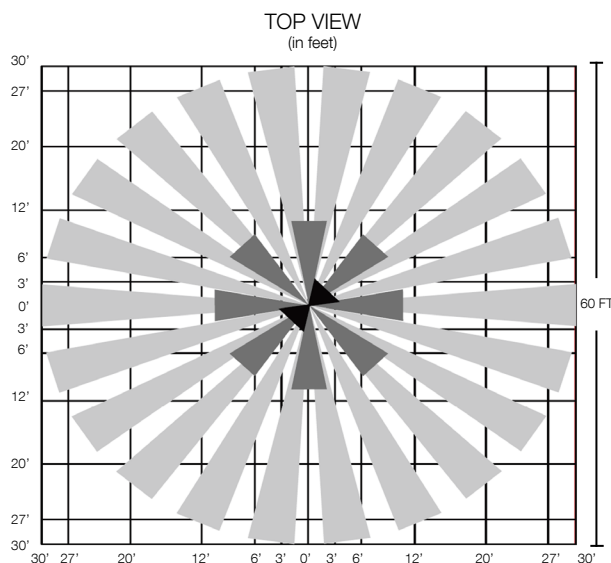
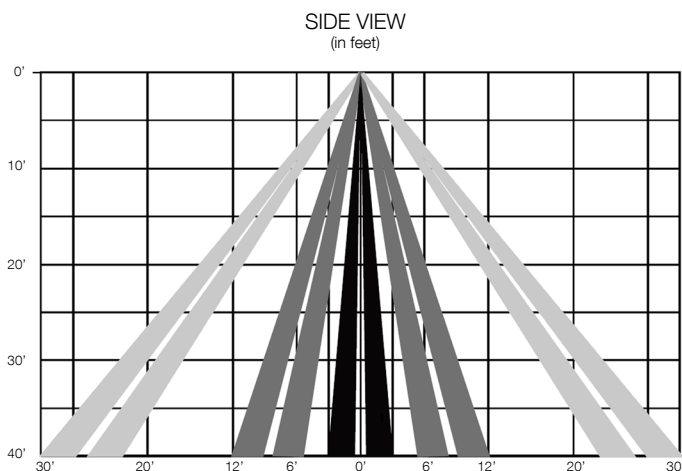
|                                  |                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>SENSOR TYPE:</b>              | Passive Infrared Sensor (PIR)                                                                                                  |
| <b>WIRELESS STANDARDS:</b>       | 5.0 Bluetooth Mesh                                                                                                             |
| <b>STANDARD OPTION:</b>          | SENSOR-BLE-6-4T                                                                                                                |
| <b>EMB OPTION:</b>               | SENSOR-BLE-6-4T-EM<br>(Designed for fixtures with emergency kit. When the voltage power is off, the sensor will stop working.) |
| <b>INPUT VOLTAGE:</b>            | 12-24VDC, >50mA                                                                                                                |
| <b>CONTROL OUTPUT:</b>           | 0-10V                                                                                                                          |
| <b>OPERATING TEMP:</b>           | -4°F ~ +140°F (-20°C ~ +60°C)                                                                                                  |
| <b>COMMISSIONING RANGE:</b>      | 50FT                                                                                                                           |
| <b>BLUETOOTH RANGE:</b>          | 164FT                                                                                                                          |
| <b>DETECTION ANGLE:</b>          | 360°                                                                                                                           |
| <b>MOUNTING HEIGHT:</b>          | Up to 40FT                                                                                                                     |
| <b>WARRANTY:</b>                 | 5 years                                                                                                                        |
| <b>IP RATING:</b>                | IP65                                                                                                                           |
| <b>FACTORY DEFAULT SETTINGS:</b> | 100% Brightness for 5 min<br>Dim Down to 30% Hold for 10 min<br>Turn Off                                                       |

### DIMENSIONS



| H                 | W               |
|-------------------|-----------------|
| 1.03"<br>(26.2mm) | 2.17"<br>(55mm) |

### COVERAGE PATTERNS



### ORDER CODES

|                             |                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------|
| <b>SENSOR-BLE-6-4T</b>      | "Plug-N-Play" Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) up to 40FT MH.        |
| <b>SENSOR-BLE-6-4T-EM</b>   | "Plug-N-Play" Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) up to 40FT MH w/ EMB. |
| <b>SENSOR-BLE-6-4T-H</b>    | "Plug-N-Play" Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) up to 50FT MH.        |
| <b>SENSOR-BLE-6-4T-H-EM</b> | "Plug-N-Play" Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) up to 50FT MH w/ EMB. |

