

## LHEA SERIES LINEAR BAY LIGHT

Client:  
 Project:  
 Type:  
 Quantity:

### CONSTRUCTION

Full body steel housing constructed for shipment and job site durability.  
 Channel includes top and side knockouts for simple and accessible wiring.

### OPTICS

>95% efficiency optical grade polycarbonate prismatic lens available for general distribution or aisle distribution. Optional wireguard.

### ELECTRICAL

80+ CRI LED. -40°C up to 55°C (-40°F up to 131°F) maximum operating temperature.  
 $L_{70} > 100,000$  hours.  
 50/60Hz, <20% THD, >.9 Power Factor.  
 Dim-to-Off Driver operates at 120-277V input, 0-10V dimmable, with integral 12V AUX  
 3.5mm sensor receptacle for SENSOR-ANT-6-4T.  
 Built-in thermal protector. Optional 347/480V input.  
 Optional dimming sensor for occupancy and ambient light level detection.  
 Optional emergency battery for 120-277V / 480V application.

### SENSORS (OPTIONAL)

SENSOR-819-O1 End mount on/off motion sensor lowbay lens.  
 SENSOR-819-O2 End mount on/off motion sensor highbay lens.  
 SENSOR-819-D1 End mount programmable motion and photocell sensor lowbay lens.  
 SENSOR-819-D2 End mount programmable motion and photocell sensor highbay lens.  
 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)  
 CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

### MOUNTING

Adjustable aircraft cable hanger as standard mounting.

### STANDARD FINISH

All metal parts are post painted after fabrication with polyester powder coat paint with 90% reflectance.

### CERTIFICATION

Meets Buy America Act requirements.  
 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.



270W

### SHIPPING DATA

| Product  | Measurement       | Weight |
|----------|-------------------|--------|
| LHEA-135 | 17"L x 11"W x 2"H | 5 lb   |
| LHEA-200 | 23"L x 11"W x 2"H | 6 lb   |
| LHEA-270 | 32"L x 11"W x 2"H | 8 lb   |
| LHEA-400 | 45"L x 11"W x 2"H | 11 lb  |



## LHEA SERIES LINEAR BAY LIGHT

| ORDER INFORMATION |        |            |     | EXAMPLE : LHEA 130 MC FL WH UD |        |       |
|-------------------|--------|------------|-----|--------------------------------|--------|-------|
| Fixture           | Series | Power & LM | CCT | Distribution                   | Finish | Input |
|                   | LHEA   |            | MC  |                                | WH     |       |

| A | SERIES |                  |  |  |  |  |
|---|--------|------------------|--|--|--|--|
|   | LHEA   | Linear Bay Light |  |  |  |  |

| B | POWER & LM |                               |                 |     |
|---|------------|-------------------------------|-----------------|-----|
|   | CODE       | POWER                         | LM              | LPW |
|   | 135        | Field Selectable 100/115/135W | 15,000 ~ 20,250 | 150 |
|   | 200        | Field Selectable 155/185/200W | 23,250 ~ 30,000 | 150 |
|   | 270        | Field Selectable 200/230/270W | 30,000 ~ 40,500 | 150 |
|   | 400        | Field Selectable 270/340/400W | 40,500 ~ 60,000 | 150 |

| C | CCT |                             |  |  |  |
|---|-----|-----------------------------|--|--|--|
|   | MC  | Field Selectable 4000/5000K |  |  |  |

| D | DISTRIBUTION |                                   |    |                                 |
|---|--------------|-----------------------------------|----|---------------------------------|
|   | FL           | Frosted General Distribution Lens | AL | Frosted Aisle Distribution Lens |

| E | FINISH |       |  |  |  |
|---|--------|-------|--|--|--|
|   | WH     | White |  |  |  |

| F | INPUT |                                         |    |                                         |  |
|---|-------|-----------------------------------------|----|-----------------------------------------|--|
|   | UD    | Dim-to-Off 120-277V Input 0-10V Dimming | HD | Dim-to-Off 277-480V Input 0-10V Dimming |  |

## LHEA SERIES LINEAR BAY LIGHT

### ORDER INFORMATION (CONTINUED)

#### Accessories Options

| G | ACCESSORIES/OPTIONS   |                                                                                                                                   |
|---|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|   | blank                 | MOUNT-HIGHBAY-CK 6FT Adjustable Aircraft Cable Hanging Kit (standard)                                                             |
|   | AIA                   | Assembled in America, compliant with BAA (COTS)                                                                                   |
|   | PMK                   | Pendant Mount Kit                                                                                                                 |
|   | SMK                   | Surface Mount Kit                                                                                                                 |
|   | WIREGUARD-LHEA-A      | Wireguard for LHEA-135 (1:1)                                                                                                      |
|   | WIREGUARD-LHEA-B      | Wireguard for LHEA-200 (1:1)                                                                                                      |
|   | WIREGUARD-LHEA-C      | Wireguard for LHEA-270 (1:1)                                                                                                      |
|   | WIREGUARD-LHEA-D      | Wireguard for LHEA-400 (1:1)                                                                                                      |
|   | EMB-H18170**          | External emergency battery 18W (Compatible with LHEA-135)                                                                         |
|   | EMB-H40170**          | External emergency battery 40W                                                                                                    |
|   | EMB-H40500**          | External emergency battery 40W                                                                                                    |
|   | REMOTE-RC100          | Handheld Remote Commissioning Tool for SENSOR-819-D1/D2 Only, ANT Series                                                          |
|   | SENSOR-ANT-6-4T*      | Plug-N-Play PIR on/off/dimming/photosensing up to <b>40FT MH</b>                                                                  |
|   | SENSOR-ANT-6-4T-EM*   | Plug-N-Play PIR on/off/dimming/photosensing for <b>EMB application</b> up to <b>40FT MH</b>                                       |
|   | SENSOR-ANT-6-4T-H*    | Plug-N-Play PIR on/off/dimming/photosensing up to <b>50FT MH</b>                                                                  |
|   | SENSOR-ANT-6-4T-H-EM* | Plug-N-Play PIR on/off/dimming/photosensing for <b>EMB application</b> up to <b>50FT MH</b>                                       |
|   | SENSOR-BLE-6-4T*      | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App)                                          |
|   | SENSOR-BLE-6-4T-EM*   | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) for EMB application                      |
|   | SENSOR-BLE-6-4T-H*    | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) up to <b>50FT MH</b>                     |
|   | SENSOR-BLE-6-4T-H-EM* | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) for EMB application up to <b>50FT MH</b> |
|   | SENSOR-819-O1*        | End mount on/off motion sensor lowbay lens                                                                                        |
|   | SENSOR-819-O2*        | End mount on/off motion sensor highbay lens                                                                                       |
|   | SENSOR-819-D1*        | End mount on/off/dimming and photocell sensor lowbay lens                                                                         |
|   | SENSOR-819-D2*        | End mount on/off/dimming and photocell sensor highbay lens                                                                        |
|   | CONTROL-LVFA*         | AVI-ON Bluetooth Mesh Control System                                                                                              |
|   | -CORD                 | 18-3 300V 6 Foot Cord                                                                                                             |
|   | -PLUG                 | 18-3 300V 6 Foot and 3 Prong Plug                                                                                                 |

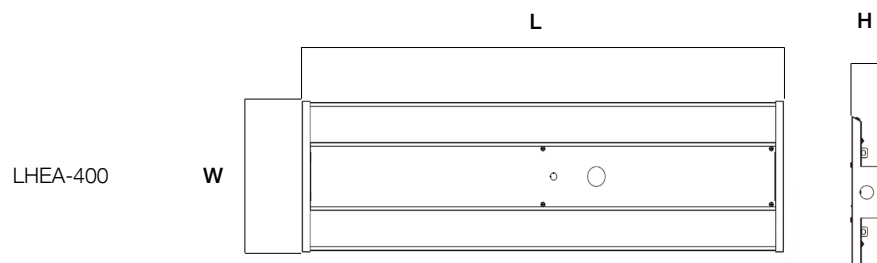
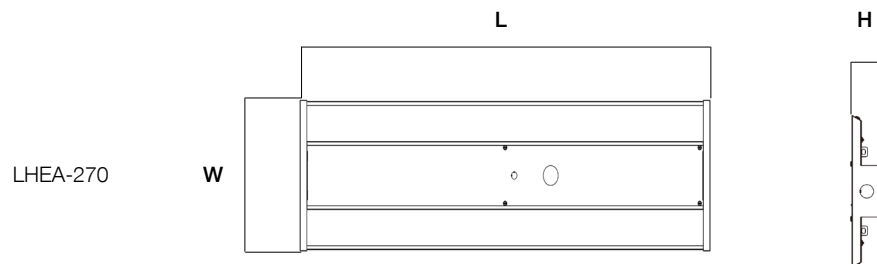
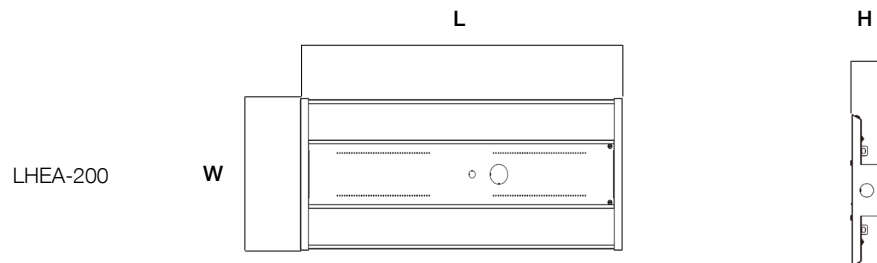
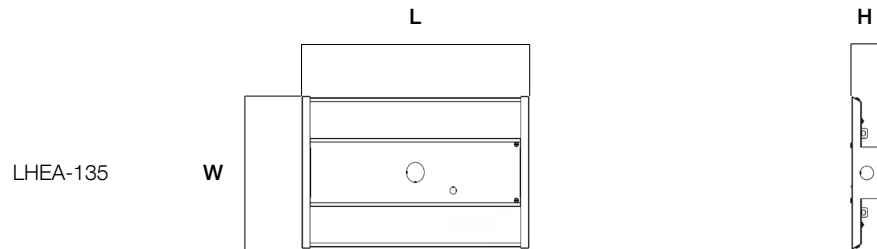
\*see page 7 for sensor spec

\*\*see page 8 for emb spec

## LHEA SERIES LINEAR BAY LIGHT

### DIMENSIONS

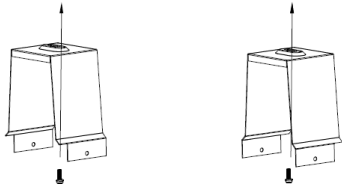
| Model    | L              | W             | H           |
|----------|----------------|---------------|-------------|
| LHEA-135 | 16.5" (420mm)  | 10.2" (260mm) | 1.8" (45mm) |
| LHEA-200 | 22.8" (580mm)  | 10.2" (260mm) | 1.8" (45mm) |
| LHEA-270 | 31.1" (790mm)  | 10.2" (260mm) | 1.8" (45mm) |
| LHEA-400 | 44.1" (1120mm) | 10.2" (260mm) | 1.8" (45mm) |



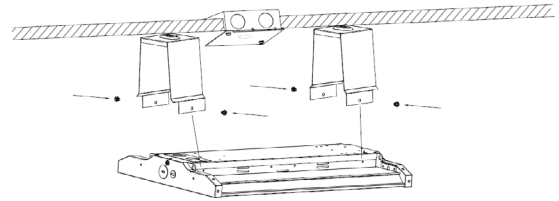
## LHEA SERIES LINEAR BAY LIGHT

### MOUNTING

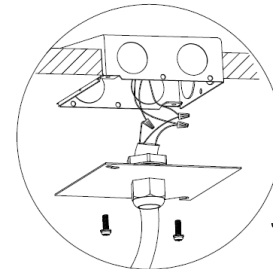
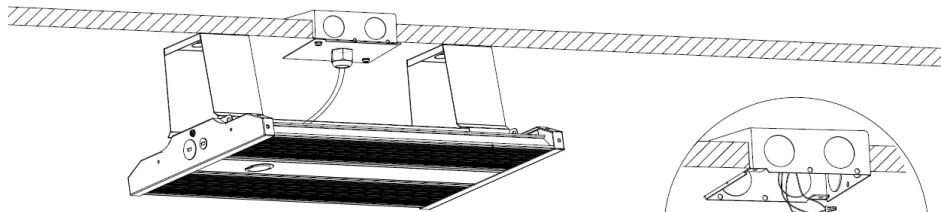
#### SMK - SURFACE MOUNT



Install SMK (Pair) to ceiling with proper screw & anchor



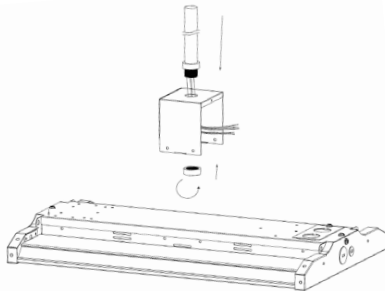
Secure LHEA onto SMK by tighten screws provided



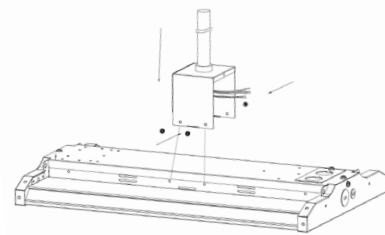
J-box and Flex Conduit  
Provided By Other

Feed wires through flex conduit, all connection to be made inside ceiling J-box

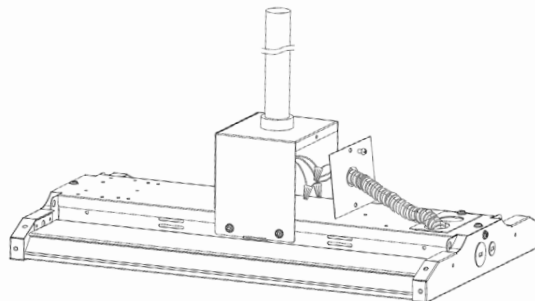
#### PMK - PENDANT MOUNT



Securely attach PMK to conduit



Secure LHEA onto PMK by tighten screws provided



Flex Conduit  
Provided By Other

Feed wires through flex conduit, all connection to be made inside PMK J-box

## LHEA SERIES LINEAR BAY LIGHT

### PERFORMANCE DATA

| SYSTEM WATTS    | VOLTAGE         | 4000K / 5000K with FL Lens |     | 4000K / 5000K with AL Lens |     | QTY ON PALLET |
|-----------------|-----------------|----------------------------|-----|----------------------------|-----|---------------|
|                 |                 | LUMENS                     | LPW | LUMENS                     | LPW |               |
| 135W Set @ 100W | 120-277V / 480V | 14700                      | 147 | 15400                      | 154 | 240           |
| 135W Set @ 115W | 120-277V / 480V | 16905                      | 147 | 17710                      | 154 | 240           |
| 135W Set @ 135W | 120-277V / 480V | 19845                      | 147 | 20790                      | 154 | 240           |
| 200W Set @ 155W | 120-277V / 480V | 23870                      | 154 | 22630                      | 146 | 200           |
| 200W Set @ 185W | 120-277V / 480V | 28490                      | 154 | 27010                      | 146 | 200           |
| 200W Set @ 200W | 120-277V / 480V | 30800                      | 154 | 29200                      | 146 | 200           |
| 270W Set @ 200W | 120-277V / 480V | 29600                      | 148 | 30400                      | 152 | 160           |
| 270W Set @ 230W | 120-277V / 480V | 34040                      | 148 | 34960                      | 152 | 160           |
| 270W Set @ 270W | 120-277V / 480V | 39960                      | 148 | 41040                      | 152 | 160           |
| 400W Set @ 270W | 120-277V / 480V | 39960                      | 148 | 41580                      | 154 | 120           |
| 400W Set @ 340W | 120-277V / 480V | 50320                      | 148 | 52360                      | 154 | 120           |
| 400W Set @ 400W | 120-277V / 480V | 59200                      | 148 | 61600                      | 154 | 120           |

### DLC CODE (PENDING)

| Part Number            | DLC Part Nnumber    | DLC Class |
|------------------------|---------------------|-----------|
| LHEA-135MCFL-WHUD / HD | PENDING             | Premium   |
| LHEA-135MCAL-WHUD / HD | PENDING             | Premium   |
| LHEA-200MCFL-WHUD / HD | PENDING             | Premium   |
| LHEA-200MCAL-WHUD / HD | PENDING             | Premium   |
| LHEA-270MCFL-WHUD / HD | S-0RX324 / S-614FFH | Premium   |
| LHEA-270MCAL-WHUD / HD | PENDING             | Premium   |
| LHEA-400MCFL-WHUD / HD | PENDING             | Premium   |
| LHEA-400MCAL-WHUD / HD | PENDING             | Premium   |

## LHEA SERIES LINEAR BAY LIGHT

### SENSOR SPEC

| Model                                                             | Type                  | Mounting     | Coverage                   | Input     | Function                                                | Programmable                           |
|-------------------------------------------------------------------|-----------------------|--------------|----------------------------|-----------|---------------------------------------------------------|----------------------------------------|
| SENSOR-819-O1<br>SENSOR-819-O2                                    | PIR                   | 20FT<br>40FT | 30FT radius<br>30FT radius | Universal | On/Off                                                  | -                                      |
| SENSOR-819-D1<br>SENSOR-819-D2                                    | PIR                   | 20FT<br>40FT | 30FT radius<br>30FT radius | Universal | On/Off/Dimming                                          | REMOTE-RC100                           |
| CONTROL-LVFA<br>(see page 9 for detail)                           | Fixture<br>Controller | -            | -                          | 12V DC    | Bluetooth Mesh<br>On/Off/Dimming<br>Scheduling          | AVI-ON<br>Bluetooth<br>Mobile App      |
| 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-819-XX  
 SENSOR-BLE-819

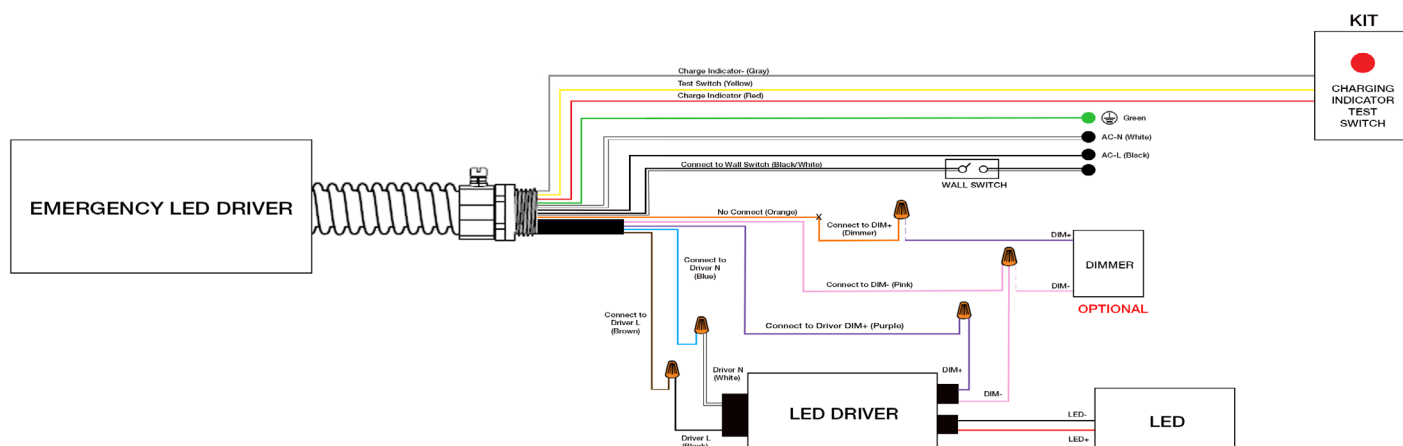
CONTROL-LVFA

SENSOR-DC-PIR

## LHEA SERIES LINEAR BAY LIGHT

### EMB SPEC

| Model      | Battery Capacity | Input      | Output     | Output Power | Operating Temp             | Installation                |
|------------|------------------|------------|------------|--------------|----------------------------|-----------------------------|
| EMB-H18170 | 90mins           | 100-347VAC | 170VDC     | 18W          | 0°C ~ 50°C<br>32°F ~ 122°F | Factory or<br>Field Install |
| EMB-H40170 | 90mins           | 100-347VAC | 170VDC     | 40W          | 0°C ~ 50°C<br>32°F ~ 122°F | Factory or<br>Field Install |
| EMB-H40500 | 90mins           | 277-480VAC | 300-500VDC | 40W          | 0°C ~ 50°C<br>32°F ~ 122°F | Factory or<br>Field Install |





## LHEA SERIES LINEAR BAY LIGHT

### CONTROL-LVFA SPEC

#### Status LEDs & Config Button

Quick and easy validation of wiring and network

#### Direct Connect™ Sensor Port

Simple and cost-effective addition to Avi-on sensors

#### Terminal Blocks & Mounting Tabs

Faster, easier and lower cost installation eliminating connectors



#### Internal Antenna

Improved performance and eliminates risk of accidentally cutting a hanging wire

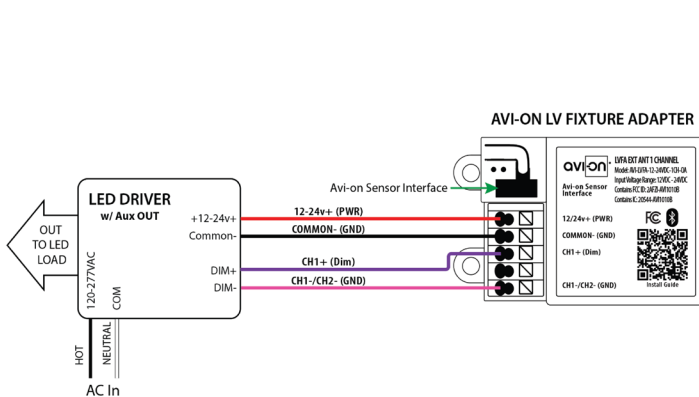
### SPECIFICATIONS

**INPUT VOLTAGE:** 12-24VDC  
**CURRENT:** 15mA without a Sensor  
 19mA with a DC PIR Sensor  
 48mA with a DC Microwave Sensor  
**0-10V DIMMING:** 12-24VDC  
**SIZE:** 2.30in x 1.43in x 0.75in  
 (58.2mm x 36.4mm x 19mm)  
**MOUNTING:** Removable mounting tabs  
**WEIGHT:** 0.45 oz (16g)  
**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

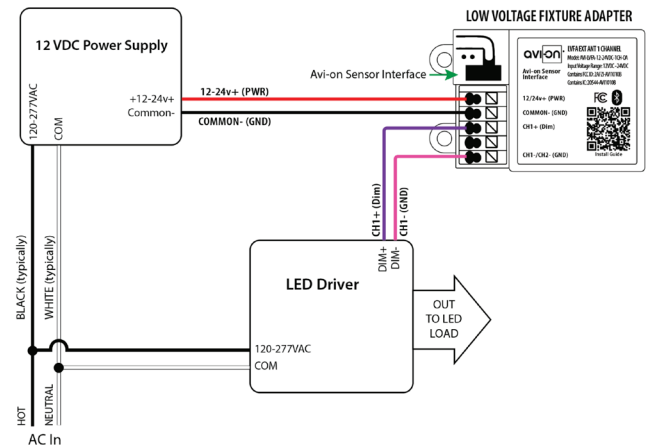
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years; 10 years optional  
**REGULATORY:** FCC: 2AFZI-AVI1010 B  
 IC: 20544-AVI1010 B  
 BQB: D031801, DID: 86303  
 UL 916, 2043 (Plenum Rated)

\*When communicating through the mesh, range is essentially unlimited (5000ft+)

### WIRING DIAGRAM



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply

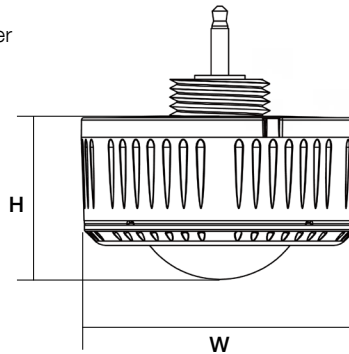
### FEATURE

- **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

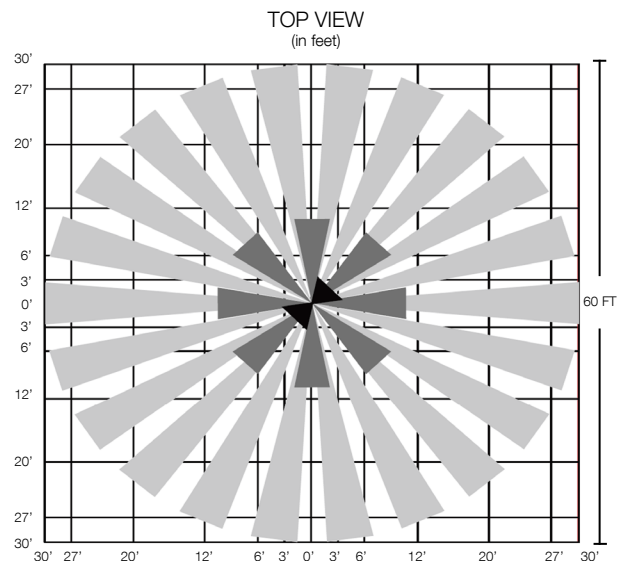
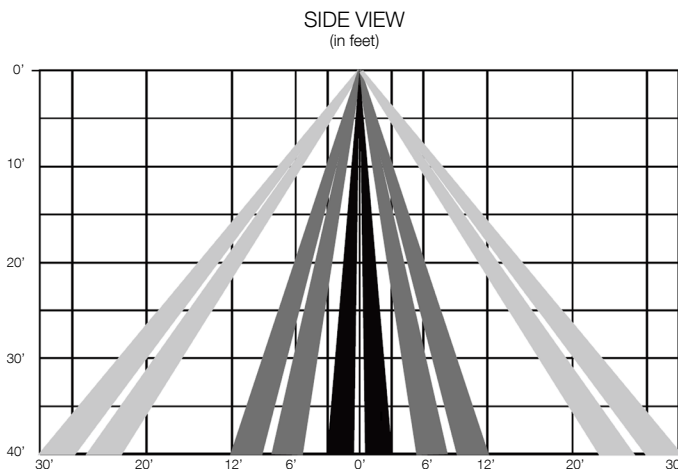
|                                  |                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <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. |





## SENSOR-BLE-819 BLUETOOTH PIR SENSOR

Client:  
Project:  
Type:  
Quantity:

### FEATURE

- **Installation:** Factory or Field Install End Mount to 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

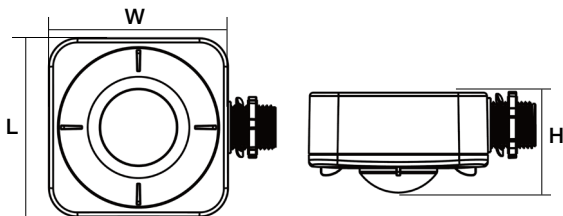


### SPECIFICATIONS

**SENSOR TYPE:** Passive Infrared Sensor (PIR)  
**WIRELESS STANDARDS:** Bluetooth SIG Mesh  
**INPUT VOLTAGE:** 120/277VAC  
**CONTROL OUTPUT:** 0-10V  
**OPERATING TEMP:** -40°F ~ +167°F (-40°C ~ +75°C)

**COMMISSIONING RANGE:** 50FT  
**BLUETOOTH RANGE:** Integral antenna up to 100FT  
**DETECTION ANGLE:** Vertical 90° x Horizontal 360°  
**MOUNTING HEIGHT:** 8 - 40FT  
**WARRANTY:** 5 years  
**IP RATING:** IP20 Damp

### DIMENSIONS



| L               | W                | H                 |
|-----------------|------------------|-------------------|
| 3.19"<br>(81mm) | 4.02"<br>(102mm) | 1.70"<br>(43.3mm) |

### COVERAGE PATTERNS

