

## LHB 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 clear lens for wide distribution.  
 Optional frosted diffuser for glare reduction.

### ELECTRICAL

80+ CRI LED.

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

60,000 hr LEDs at L70 @ 40°C.

50/60Hz, <20% THD, >.9 Power Factor. 50,000 hr rated electronic driver.

Driver operates at 120-277V input, 0-10V dimmable driver, down to 10%.

Optional 347/480V input.

Optional dimming sensor for occupancy and ambient light level detection.

Optional external emergency battery for 120-277V / 480V application.

### SENSOR (OPTIONAL)

SENSOR-819-O1 End mount on/off motion sensor lowbay lens (120-277)

SENSOR-819-O2 End mount on/off motion sensor highbay lens (120-277V)

SENSOR-819-D1 End mount programmable motion and photocell sensor  
 lowbay lens (120-277V, 1-10V Dimming)

SENSOR-819-D2 End mount programmable motion and photocell sensor  
 highbay lens (120-277V, 1-10V Dimming)

SENSOR-820 Integral programmable motion and photocell sensor highbay  
 lens (347/480V, 0-10V Dimming)

SENSOR-LSXR-10-ADC End mount programmable daylight harvesting sensor  
 lowbay lens (120-277V, 0-10V Dimming)

SENSOR-LSXR-6-ADC End mount programmable daylight harvesting sensor  
 highbay lens (120-277V, 0-10V Dimming)

SENSOR-LSXR-10-ADC-HVLT End mount programmable daylight harvesting  
 sensor lowbay lens (480V, 0-10V Dimming)

SENSOR-LSXR-6-ADC-HVLT End mount programmable daylight harvesting  
 sensor highbay lens (480V, 0-10V Dimming)

### MOUNTING

Adjustable aircraft cable hanger as standard mounting.

### FINISH

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

### CERTIFICATION

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

For Emergency application, equipment with UL924 certified battery packs.

DLC® (DesignLights Consortium Qualified)

### WARRANTY

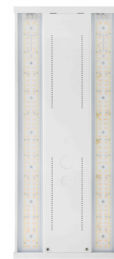
5 year warranty, see Limited Warranty for additional information.



175 / 210W



90 / 130W



175 / 210W



270 / 300W

### Shipping Data

| Product       | Measurement       | Weight |
|---------------|-------------------|--------|
| LHB-90 / 130  | 17"L x 10"W x 2"H | 6 lb   |
| LHB-175 / 210 | 24"L x 10"W x 2"H | 7 lb   |
| LHB-270 / 300 | 36"L x 10"W x 2"H | 10 lb  |



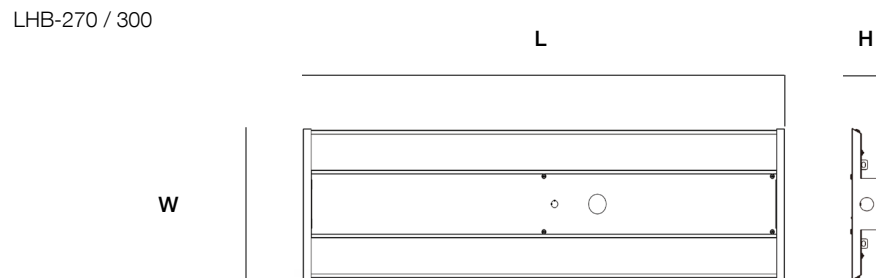
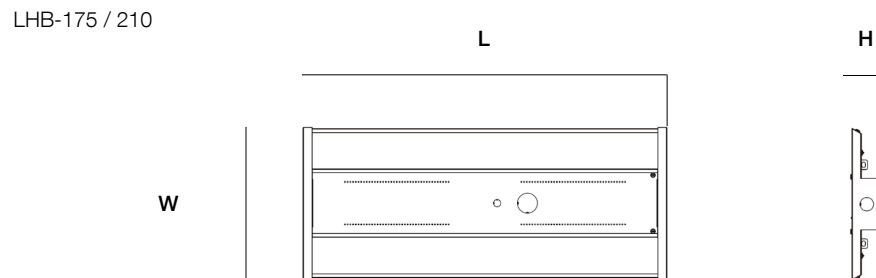
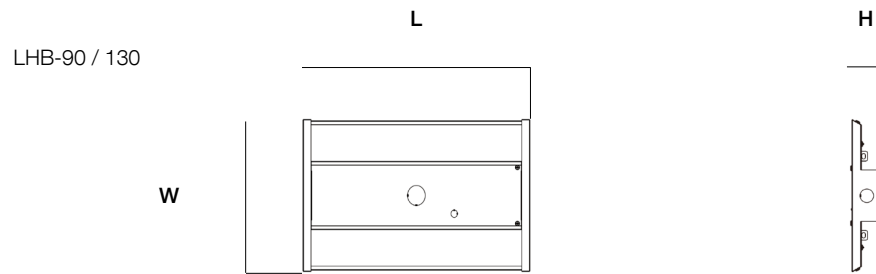
## LHB SERIES LINEAR BAY LIGHT

| Order Information      |                     |                                                                                                                             |         |     | Example : LHB 130 50 FL WH UD |                          |         |     |
|------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------|---------|-----|-------------------------------|--------------------------|---------|-----|
| Fixture                | Series              | Power & LM                                                                                                                  |         | CCT | Distribution                  | Finish                   | Input   |     |
|                        | LHB                 |                                                                                                                             |         |     | FL                            | WH                       |         |     |
| Accessories<br>Options |                     |                                                                                                                             |         |     |                               |                          |         |     |
| A                      | Series              |                                                                                                                             |         |     |                               |                          |         |     |
|                        | LHB                 | Linear Bay Light                                                                                                            |         |     |                               |                          |         |     |
| B                      | Power & LM          |                                                                                                                             |         |     |                               |                          |         |     |
|                        | Code                | Power                                                                                                                       | LM      | LPW | Code                          | Power                    | LM      | LPW |
|                        | 90                  | 90W                                                                                                                         | 12700lm | 141 | 210                           | 210W                     | 30600lm | 146 |
|                        | 130                 | 130W                                                                                                                        | 18600lm | 140 | 270                           | 270W                     | 37000lm | 137 |
|                        | 175                 | 175W                                                                                                                        | 25000lm | 143 | 300                           | 300W                     | 41500lm | 138 |
| C                      | CCT                 |                                                                                                                             |         |     |                               |                          |         |     |
|                        | 40                  | 4000K                                                                                                                       |         |     | 50                            | 5000K                    |         |     |
| D                      | Distribution        |                                                                                                                             |         |     |                               |                          |         |     |
|                        | FL                  | Frosted Lens                                                                                                                |         |     |                               |                          |         |     |
| E                      | Finish              |                                                                                                                             |         |     |                               |                          |         |     |
|                        | WH                  | White                                                                                                                       |         |     |                               |                          |         |     |
| F                      | Input               |                                                                                                                             |         |     |                               |                          |         |     |
|                        | UD                  | 120-277V, 0-10V Dimmable                                                                                                    |         |     | HD                            | 347-480V, 0-10V Dimmable |         |     |
| G                      | Accessories/Options |                                                                                                                             |         |     |                               |                          |         |     |
|                        | blank               | Adjustable aircraft cable hanging kit (standard)                                                                            |         |     |                               |                          |         |     |
|                        | WIREGUARD-LHB-A     | Wireguard for LHB-90/130                                                                                                    |         |     |                               |                          |         |     |
|                        | WIREGUARD-LHB-B     | Wireguard for LHB-170/210, LHBA-210 models                                                                                  |         |     |                               |                          |         |     |
|                        | WIREGUARD-LHB-C     | Wireguard for LHB-270/300                                                                                                   |         |     |                               |                          |         |     |
|                        | AIA                 | Assembled in America, compliant with BAA (COTS)                                                                             |         |     |                               |                          |         |     |
|                        | EMB-H15260*         | 90-Minute Self-Diagnostic Emergency Battery 15W 100-277VAC Input 170VDC Output for LHB 90/130/175/210                       |         |     |                               |                          |         |     |
|                        | EMB-H40170*         | 90-Minute Self-Diagnostic Emergency Battery 40W 100-347VAC Input 170VDC Output                                              |         |     |                               |                          |         |     |
|                        | EMB-H40500*         | 90-Minute Self-Diagnostic Emergency Battery 40W 347-487VAC Input 500VDC Output                                              |         |     |                               |                          |         |     |
|                        | SENSOR-819-__*      | End mount on/off motion sensor <b>O1:</b> Lowbay lens <b>O2:</b> Highbay Lens (120-277V)                                    |         |     |                               |                          |         |     |
|                        | SENSOR-819-__*      | End mount programmable motion and photocell sensor <b>D1:</b> Lowbay lens <b>D2:</b> Highbay Lens (120-277V, 0-10V Dimming) |         |     |                               |                          |         |     |
|                        | SENSOR-BLE-819-L1*  | End Mount PIR Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) / <b>L1:</b> up to 20FT                         |         |     |                               |                          |         |     |
|                        | CONTROL-LVFA*       | AVI-ON Bluetooth Mesh Control System                                                                                        |         |     |                               |                          |         |     |
|                        | REMOTE-RC100        | Handheld Remote Commissioning Tool for SENSOR-819-D1/D2 Only, ANT Series                                                    |         |     |                               |                          |         |     |
|                        | SURGE-LSP4-U / H    | 10kV surge protector (120-277V) 10kV surge protector (480V)                                                                 |         |     |                               |                          |         |     |
|                        | -CORD / CORD-H      | 18-3 300V cord (Specify length) / 18-3 600V cord (Specify length)                                                           |         |     |                               |                          |         |     |
|                        | -PLUG               | 6ft standard length 18-3 300V cord with 3 prong plug                                                                        |         |     |                               |                          |         |     |
|                        | TWIST-LOCK          | Specify Plug Type: <b>L515P</b> / <b>L715P</b> / <b>HBL5929</b> / <b>L8-20P</b>                                             |         |     |                               |                          |         |     |
|                        | *see pg. 5 for spec |                                                                                                                             |         |     |                               |                          |         |     |

## LHB SERIES LINEAR BAY LIGHT

### Dimensions

| Model         | L              | W             | H            |
|---------------|----------------|---------------|--------------|
| LHB-90 / 130  | 16.54" (420mm) | 9.84" (250mm) | 1.75" (44mm) |
| LHB-175 / 210 | 23.62" (600mm) | 9.84" (250mm) | 1.75" (44mm) |
| LHB-270 / 300 | 35.43" (900mm) | 9.84" (250mm) | 1.75" (44mm) |



## LHB SERIES LINEAR BAY LIGHT

### PERFORMANCE DATA

| SYSTEM WATTS | VOLTAGE  | 4000K / 5000K |     | QTY ON PALLET |
|--------------|----------|---------------|-----|---------------|
|              |          | LUMENS        | LPW |               |
| 90W          | 120-277V | 12700         | 141 | 240           |
| 130W         | 120-277V | 18600         | 143 | 240           |
| 175W         | 120-277V | 25000         | 143 | 200           |
| 210W         | 120-277V | 30600         | 146 | 200           |
| 270W         | 120-277V | 37000         | 133 | 160           |
| 300W         | 120-277V | 41500         | 135 | 160           |

### DLC Code

| Part Number                | DLC Part Number | DLC Class |
|----------------------------|-----------------|-----------|
| LHB - 90 40 FL WH UD / HD  | S-8WOSQG        | Standard  |
| LHB - 90 50 FL WH UD / HD  | S-7I4WCN        | Standard  |
| LHB - 130 40 FL WH UD / HD | S-GHN2DQ        | Standard  |
| LHB - 130 50 FL WH UD / HD | S-IJN8X3        | Standard  |
| LHB - 175 40 FL WH UD      | S-ZSN6RC        | Standard  |
| LHB - 175 50 FL WH UD      | S-KPQJEL        | Standard  |
| LHB - 210 40 FL WH UD / HD | S-LNAQFX        | Standard  |
| LHB - 210 50 FL WH UD / HD | S-FBW94K        | Standard  |
| LHB - 270 40 FL WH UD / HD | S-W8CFED        | Standard  |
| LHB - 270 50 FL WH UD / HD | S-65K1GB        | Standard  |
| LHB - 300 40 FL WH UD / HD | S-JZ017Y        | Standard  |
| LHB - 300 50 FL WH UD / HD | S-JRBPFF6       | Standard  |

## LHB SERIES LINEAR BAY LIGHT

### Sensor Spec

| Model                                     | Type                  | Mounting  | Coverage    | Input     | Function                                       | Programmable                      |
|-------------------------------------------|-----------------------|-----------|-------------|-----------|------------------------------------------------|-----------------------------------|
| SENSOR-819-O1                             | PIR                   | 20FT      | 30FT radius | Universal | On/Off                                         | REMOTE-RC100                      |
| SENSOR-819-O2                             |                       | 40FT      | 30FT radius |           |                                                |                                   |
| SENSOR-819-D1                             | PIR                   | 20FT      | 30FT radius | Universal | On/Off/Dimming                                 | REMOTE-RC100                      |
| SENSOR-819-D2                             |                       | 40FT      | 30FT radius |           |                                                |                                   |
| SENSOR-BLE-819<br>(see page 7 for detail) | PIR                   | L1 - 20FT | 30FT radius | Universal | Bluetooth Mesh<br>On/Off/Dimming               | ALS Control<br>Bluetooth          |
|                                           |                       | L2 - 40FT | 30FT radius |           | Daylight Harvesting                            | Mobile App                        |
| CONTROL-LVFA<br>(see page 6 for detail)   | Fixture<br>Controller | -         | -           | 12V DC    | Bluetooth Mesh<br>On/Off/Dimming<br>Scheduling | AVI-ON<br>Bluetooth<br>Mobile App |



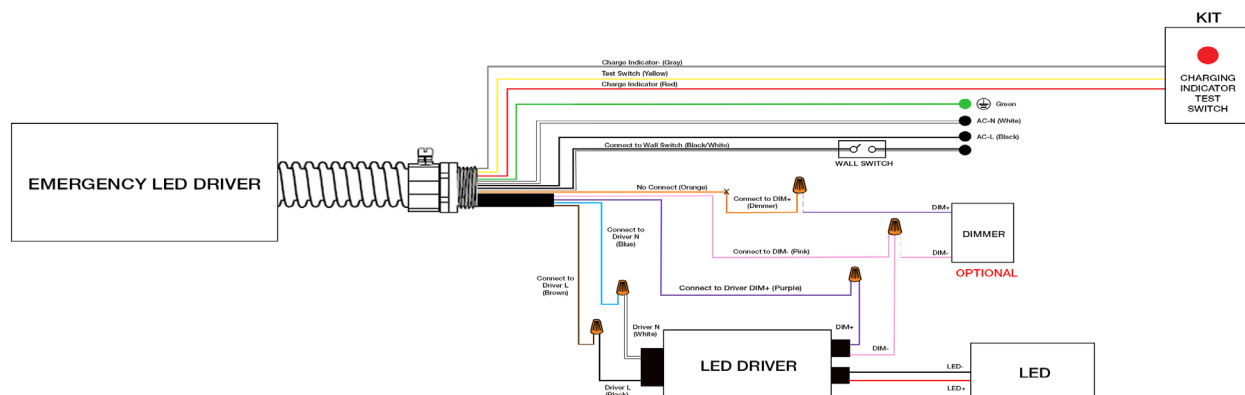
SENSOR-819-XX  
SENSOR-BLE-819



CONTROL-LVFA

### EMB SPEC

| Model      | Battery Capacity | Input      | Output     | Output Power | Operating Temp             | Installation                |
|------------|------------------|------------|------------|--------------|----------------------------|-----------------------------|
| EMB-H15260 | 90mins           | 100-277VAC | 90-260VDC  | 15W          | 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           | 347-480VAC | 310~500VDC | 40W          | 0°C ~ 50°C<br>32°F ~ 122°F | Factory or<br>Field Install |



## LHB 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

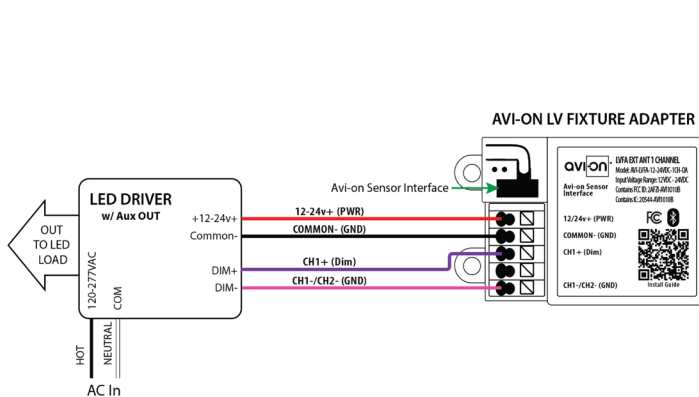
### SPECIFICATIONS

**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)

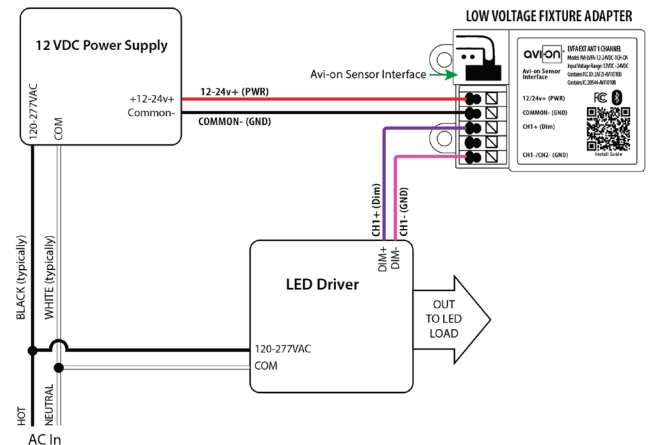
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years; 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

## SENSOR-BLE-819 BLUETOOTH PIR SENSOR

### 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

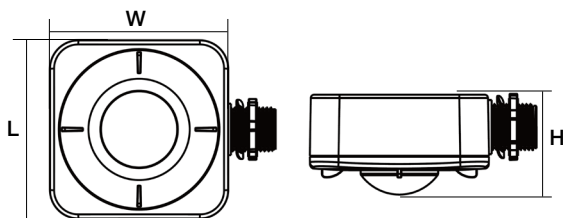


### SPECIFICATIONS

**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

