

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.
 L₇₀ >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.



270W

SENSORS (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)
 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.

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 CK WH UD**

Fixture	Series	Power & LM	CCT	Distribution	Mount	Finish	Input
	LHEA		MC		CK	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

AL Frosted Aisle Distribution Lens
 FL Frosted General Distribution Lens (Default Lens)

E MOUNT

CK 6FT Adjustable Aircraft Cable Hanging Kit (standard)

F FINISH

WH White

G INPUT

UD Dim-to-Off 120-277V Input 0-10V Dimming
 HD Dim-to-Off 277-480V Input 0-10V Dimming (Default)

LHEA SERIES LINEAR BAY LIGHT

ORDER INFORMATION (CONTINUED)

Accessories
 Options

G ACCESSORIES/OPTIONS

BAA	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**	90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output (Compatible w/LHEA-135)
EMB-H40170**	90-Minute Self-Diagnostic Emergency Battery 40W 100-347VAC Input 170VDC Output
EMB-H40500**	90-Minute Self-Diagnostic Emergency Battery 40W 277-480VAC Input 500VDC Output
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 40FT MH
SENSOR-ANT-6-4T-EM*	Plug-N-Play PIR on/off/dimming/photosensing for EMB application up to 40FT MH
SENSOR-ANT-6-4T-H*	Plug-N-Play PIR on/off/dimming/photosensing up to 50FT MH
SENSOR-ANT-6-4T-H-EM*	Plug-N-Play PIR on/off/dimming/photosensing for EMB application up to 50FT MH
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 50FT MH
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 50FT MH
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

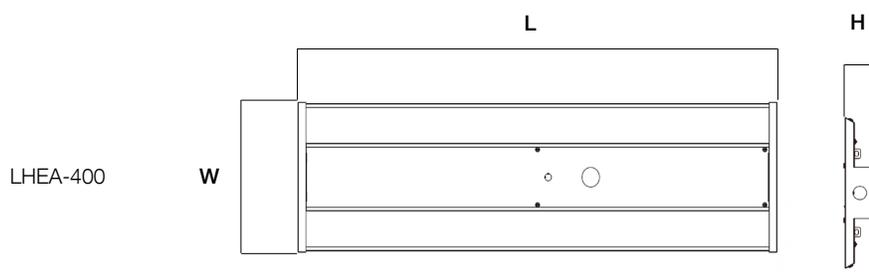
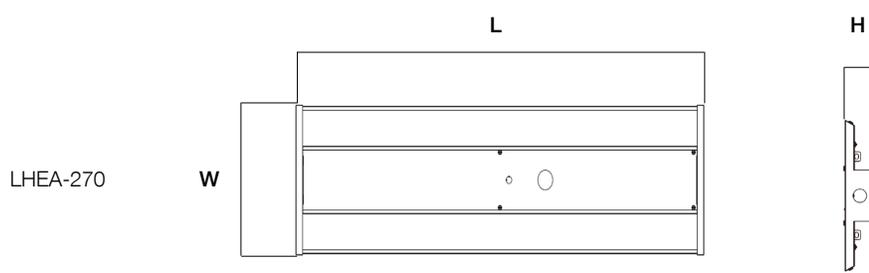
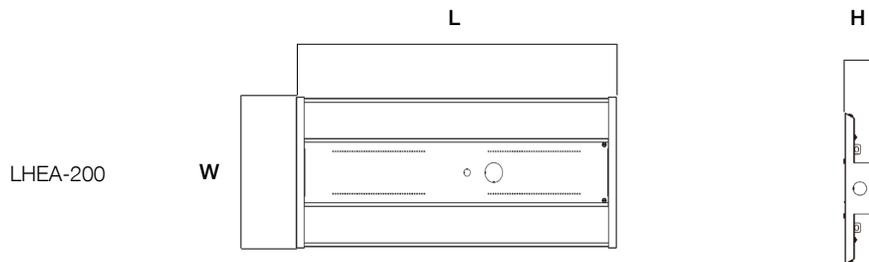
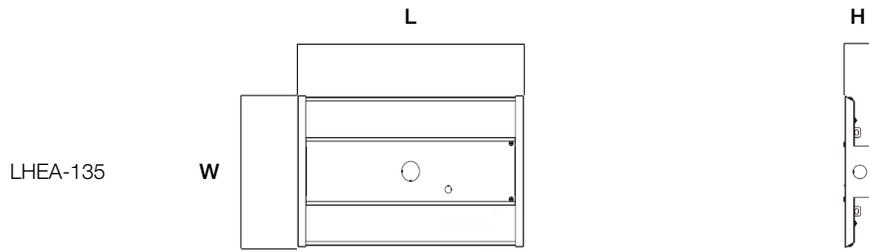
*see page 7 for sensor spec

**see page 8 for emb spec

LHEA SERIES LINEAR BAY LIGHT

DIMENSIONS

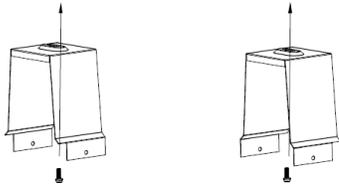
Model	L	W	H
LHEA-135	16.5" (420mm)	10.2" (260mm)	1.8" (45mm)
LHEA-200	22.8" (580mm)	10.2" (260mm)	1.8" (45mm)
LHEA-270	31.1" (790mm)	10.2" (260mm)	1.8" (45mm)
LHEA-400	44.1" (1120mm)	10.2" (260mm)	1.8" (45mm)



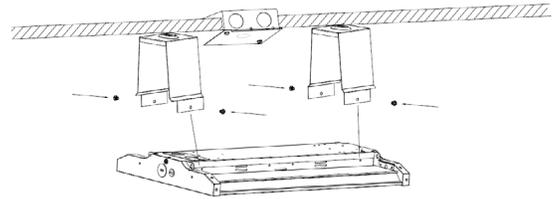
LHEA SERIES LINEAR BAY LIGHT

MOUNTING

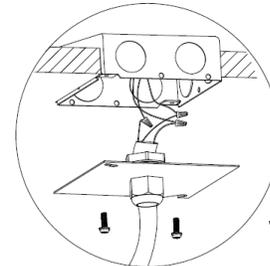
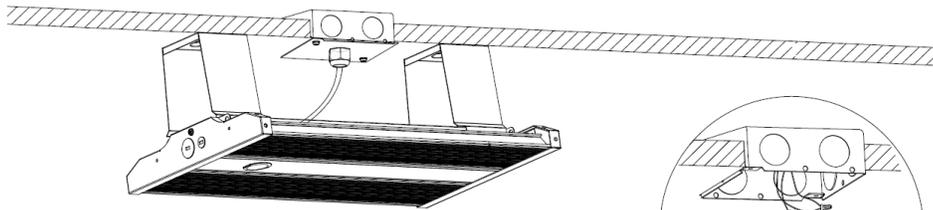
SMK - SURFACE MOUNT



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



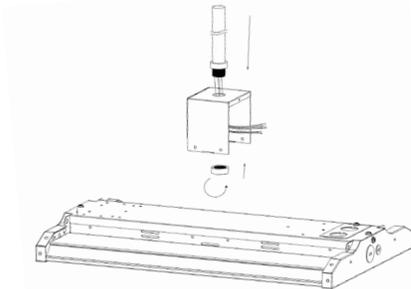
Secure LHEA onto SMK by tighten screws provided



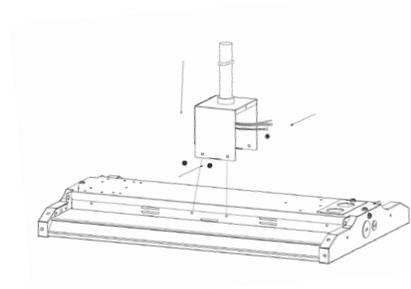
J-box and Flex Conduit
 Provided By Other

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

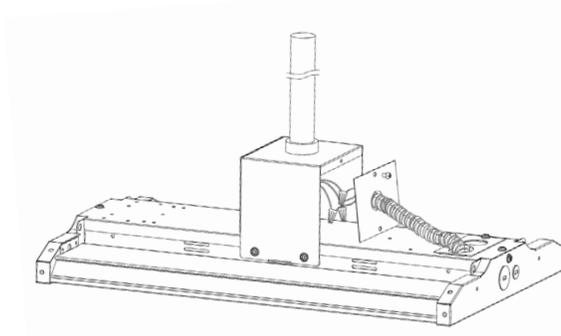
PMK - PENDANT MOUNT



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 Number	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

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SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
CONTROL-LVFA (see page 9 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
SENSOR-ANT-6-4T SENSOR-ANT-6-4T-EM	PIR	up to 40FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T SENSOR-BLE-6-4T-EM (see page 10 for detail)	PIR	up to 40FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
SENSOR-ANT-6-4T-H* SENSOR-ANT-6-4T-H-EM	PIR	up to 50FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T-H* SENSOR-BLE-6-4T-H-EM	PIR	up to 50FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App



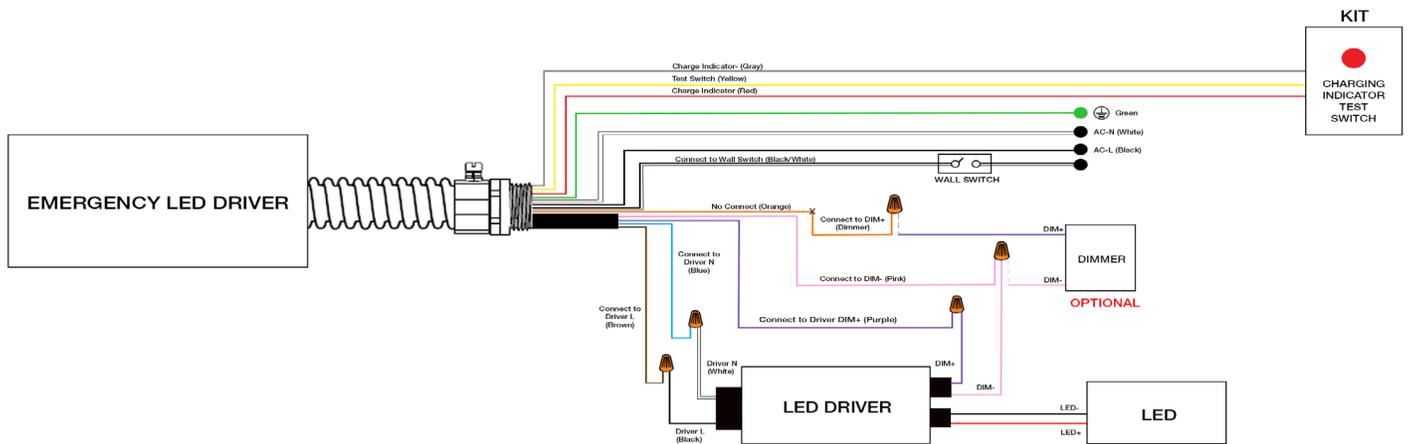
SENSOR-ANT-6-4T
 SENSOR-ANT-6-4T-EM
 SENSOR-BLE-6-4T
 SENSOR-BLE-6-4T-EM
 SENSOR-BLE-6-4T-H
 SENSOR-BLE-6-4T-EM-H

CONTROL-LVFA

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EMB SPEC

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



LHEA SERIES LINEAR BAY LIGHT

CONTROL-LVFA SPEC

Status LEDs & Config Button

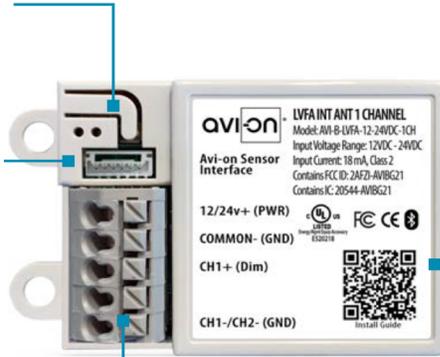
Quick and easy validation of wiring and network

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

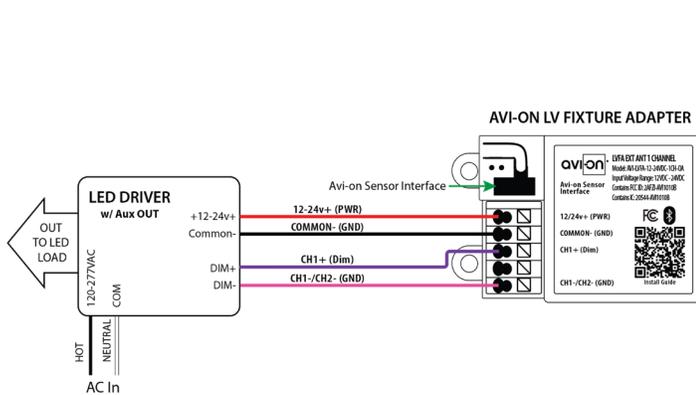
SPECIFICATIONS

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)

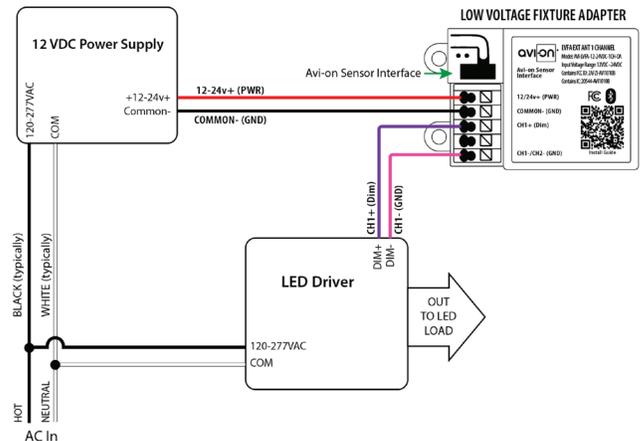
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: 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

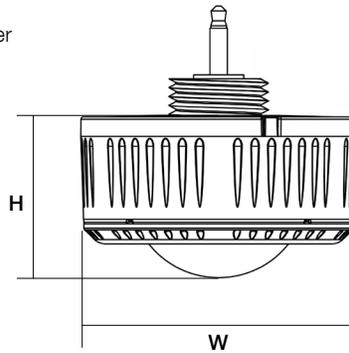
- **Installation:** Plug-N-Play via AUX socket on attached fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on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



SPECIFICATIONS

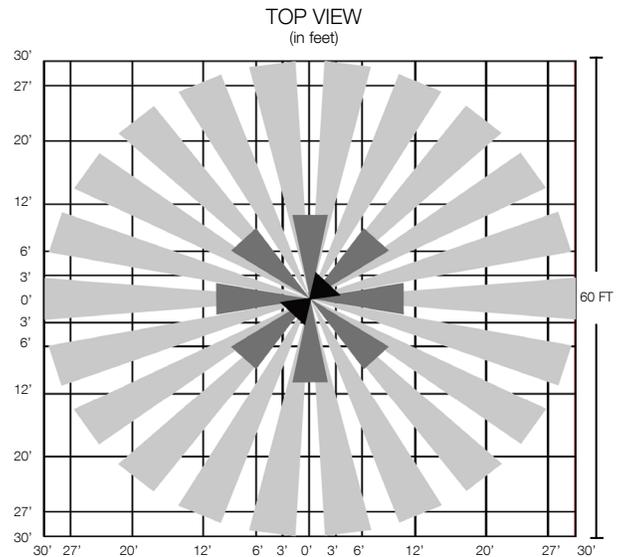
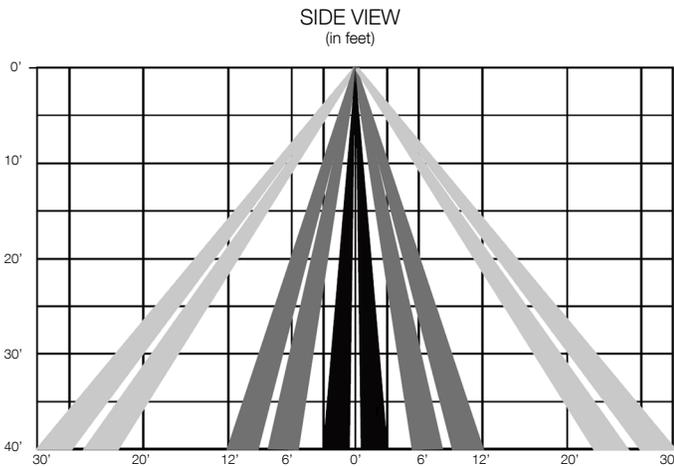
SENSOR TYPE:	Passive Infrared Sensor (PIR)
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
STANDARD OPTION:	SENSOR-BLE-6-4T
EMB OPTION:	SENSOR-BLE-6-4T-EM (Designed for fixtures with emergency kit. When the voltage power is off, the sensor will stop working.)
INPUT VOLTAGE:	12-24VDC, >50mA
CONTROL OUTPUT:	0-10V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

DIMENSIONS



H	W
1.03" (26.2mm)	2.17" (55mm)

COVERAGE PATTERNS



ORDER CODES

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



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

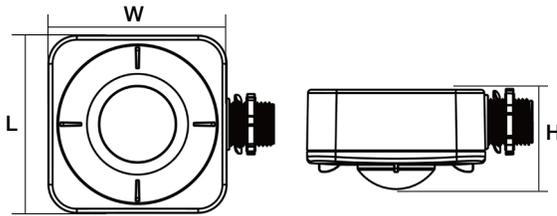


SPECIFICATIONS

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" (81mm)	4.02" (102mm)	1.70" (43.3mm)

COVERAGE PATTERNS

