

LHCA-G2 SERIES SELECTABLE LINEAR BAY LIGHT

Client:
Project:
Type:
Quantity:

CONSTRUCTION

Compact die-cast aluminum housing, sturdy structure design, entire body serves as heat sink for the light engine. Includes top and side knockouts for simple and accessible wiring.

OPTICS

>95% efficiency polycarbonate shatter proof frosted lens.

ELECTRICAL

80+ CRI LED.

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

100,000 hr LEDs at L70 @ 25°C. 50/60Hz, <20% THD, >.95 Power Factor.

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

Plug-N-Play sensor socket standard (12V AUX).

Optional 277-480V input.

SENSORS (OPTIONAL)

SENSOR-BLE-6-4T Integral PIR ALS Control bluetooth/on/off/dimming/photosensing.

SENSOR-ANT-6-4T Plug-N-Play PIR on/off/dimming/photosensing.

CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

SENSOR-DC-PIR AVI-ON PIR and Daylighting Sensor

MOUNTING

Adjustable aircraft cable hanger as standard mounting included.

Optional: Pendant Mount Hub

Optional: Surface Mount Bracket (Pair)

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 for damp location 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.



Pendant Mount

Surface Mount



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ORDER INFORMATION				EXAMPLE: LHCA-G2 130 MC CK WH UD			
Fixture	Series	Power & LM	CCT	Distribution	Mounting	Finish	Input
	LHCA-G2				CK	WH	

A

SERIES

LHCA-G2

Compact Linear Bay Light Dual Selectable

B

POWER & LM

Code

Power Selectable

LM

LPW

130

52 / 78 / 104 / 130W

8,200 / 12,100 / 15,200 / 18,500

142 ~ 158

160

64 / 96 / 128 / 160W

10,600 / 15,500 / 20,000 / 24,100

151 ~ 166

205

82 / 123 / 164 / 205W

14,000 / 19,500 / 25,000 / 30,500

149 ~ 171

250

100 / 150 / 200 / 250W

16,400 / 24,000 / 30,200 / 36,100

144 ~ 164

300

120 / 180 / 240 / 300W

20,000 / 28,000 / 36,000 / 42,000

140 ~ 167

410

164 / 246 / 328 / 410W

28,000 / 38,400 / 50,000 / 60,600

148 ~ 171

C

CCT

MC

4000K / 5000K Field Selectable

D

DISTRIBUTION

blank

Polycarbonate Shatter-Proof Frosted Diffuser Lens

E

MOUNTING

CK

Adjustable aircraft cable hanging kit (standard)

PMK

Pendant Mount Hub for 3/4" Pipe Mount

SMK

Surface Mount Bracket (Pair)

F

FINISH

WH

White

G

INPUT

UD

120-277V, 0-10V Dimmable

HD

277-480V, 0-10V Dimmable

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ORDER INFORMATION (CONTINUED)

Accessories Options

H ACCESSORIES/OPTIONS

BAA	Assembled in America, compliant with BAA (COTS)
WIREGUARD-LHCA-A	Wireguard for LHCA-G2-130W
WIREGUARD-LHCA-B	Wireguard for LHCA-G2-160W / 205W
WIREGUARD-LHCA-C	Wireguard for LHCA-G2-250W / 300W
WIREGUARD-LHCA-D	Wireguard for LHCA-G2-410W
EMB-8W-MST**	8W External Emergency Battery (LHCA-G2-130 only)
EMB-16W-MST**	16W External Emergency Battery (LHCA-G2-160/-205 only)
EMB-25W-MST**	25W External Emergency Battery
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
REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-ANT Series
-CORD	18-3 300V 6 Foot Cord
-PLUG	18-3 300V 6 Foot Cord and 3 Prong Plug
TWIST-LOCK	Specify Plug Type: L515P / L715P / HBL5929 / L8-20P

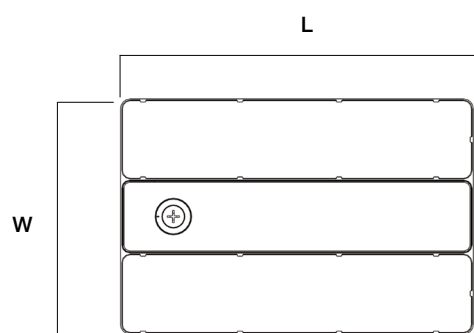
*see page 6 for sensor spec

**see page 7 for emb spec

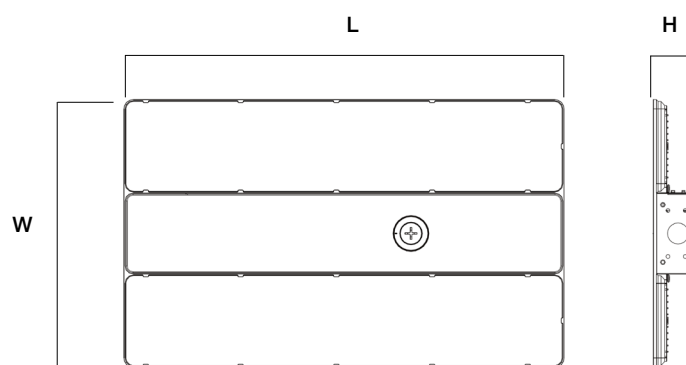
LHCA-G2 SERIES SELECTABLE LINEAR BAY LIGHT

DIMENSIONS

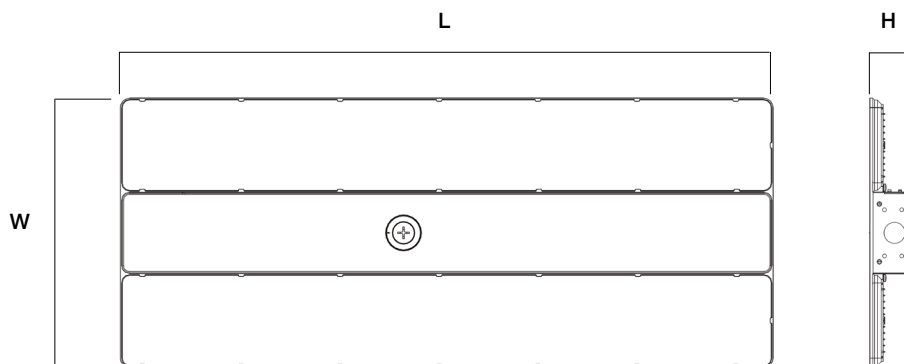
Model	L	W	H
LHCA-G2-130	14.17" (360mm)	9.45" (240mm)	1.65" (42mm)
LHCA-G2-160 / 205	18.11" (460mm)	11.02" (280mm)	1.65" (42mm)
LHCA-G2-250 / 300	26.77" (680mm)	11.02" (280mm)	1.65" (42mm)
LHCA-G2-410	36.22" (920mm)	11.02" (280mm)	1.65" (42mm)



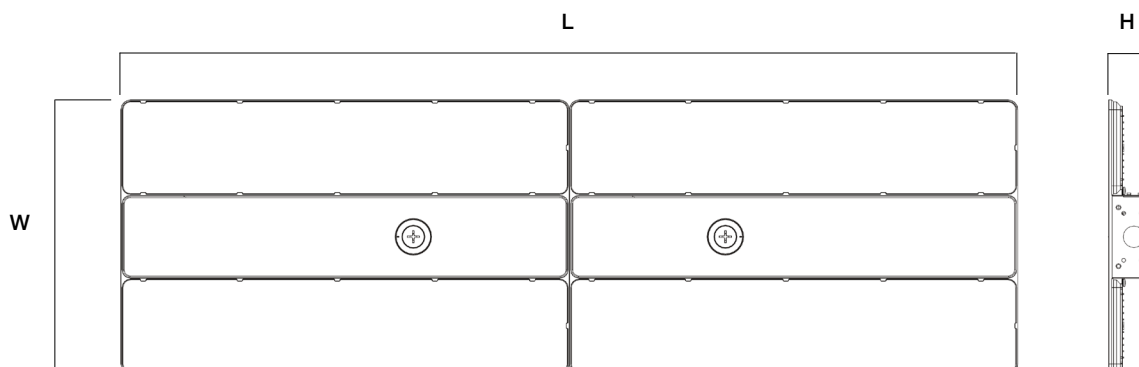
LHCA-G2-130



LHCA-G2-160
 LHCA-G2-205



LHCA-G2-250
 LHCA-G2-300



LHCA-G2-410

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PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	4000K / 5000K	
		LUMENS	LPW
LHCA-G2-130W @ 52W	120-277V	8200	158
LHCA-G2-130W @ 78W	120-277V	12100	155
LHCA-G2-130W @ 104W	120-277V	15200	146
LHCA-G2-130W @ 130W	120-277V	18500	142
LHCA-G2-160W @ 64W	120-277V	10600	166
LHCA-G2-160W @ 96W	120-277V	15500	161
LHCA-G2-160W @ 128W	120-277V	20000	156
LHCA-G2-160W @ 160W	120-277V	24100	151
LHCA-G2-205W @ 82W	120-277V	14000	171
LHCA-G2-205W @ 123W	120-277V	19500	159
LHCA-G2-205W @ 164W	120-277V	25000	152
LHCA-G2-205W @ 205W	120-277V	30500	149
LHCA-G2-250W @ 100W	120-277V	16400	164
LHCA-G2-250W @ 150W	120-277V	24000	160
LHCA-G2-250W @ 200W	120-277V	30200	151
LHCA-G2-250W @ 250W	120-277V	36100	144
LHCA-G2-300W @ 120W	120-277V	20000	167
LHCA-G2-300W @ 180W	120-277V	28000	156
LHCA-G2-300W @ 240W	120-277V	36000	150
LHCA-G2-300W @ 300W	120-277V	42000	140
LHCA-G2-410W @ 164W	120-277V	28000	171
LHCA-G2-410W @ 246W	120-277V	38400	156
LHCA-G2-410W @ 328W	120-277V	50000	152
LHCA-G2-410W @ 410W	120-277V	60600	148

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SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-ANT-6-4T (see page 8 for detail)	PIR	up to 40FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-ANT-6-4T-H (see page 8 for detail)	PIR	up to 50FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T (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-BLE-6-4T-H (see page 10 for detail)	PIR	up to 50FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
CONTROL-LVFA (see page 11 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App



SENSOR-ANT-6-4T
 SENSOR-BLE-6-4T

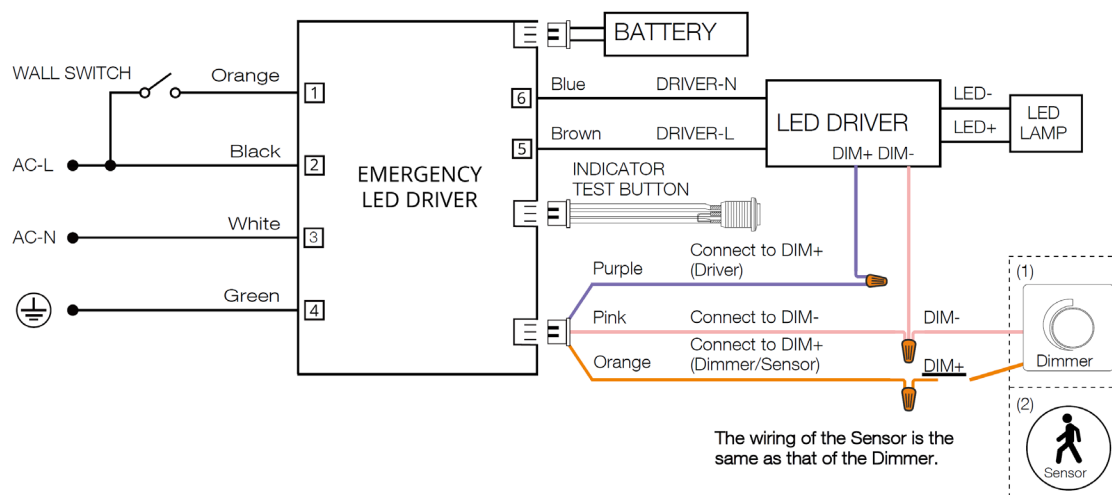


CONTROL-LVFA

LHCA-G2 SERIES SELECTABLE LINEAR BAY LIGHT

EMB SPEC

Model	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-8W-MST	90mins	100-347VAC	170VDC	8W	10°C ~ 60°C 50°F ~ 140°F	Factory or Field Install
EMB-16W-MST	90mins	100-347VAC	170VDC	16W	10°C ~ 60°C 50°F ~ 140°F	Factory or Field Install
EMB-25W-MST	90mins	100-347VAC	170VDC	25W	10°C ~ 60°C 50°F ~ 140°F	Factory or Field Install



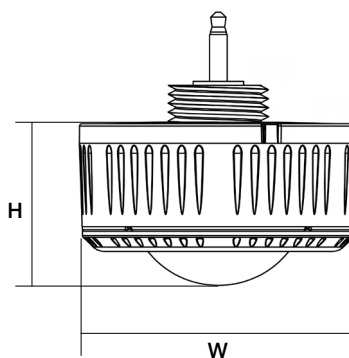
FEATURE

- **Installation:** Plug-N-Play via AUX Socket on Attached Fixture
- **Commissioning:** through Remote Control
- **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

SPECIFICATIONS

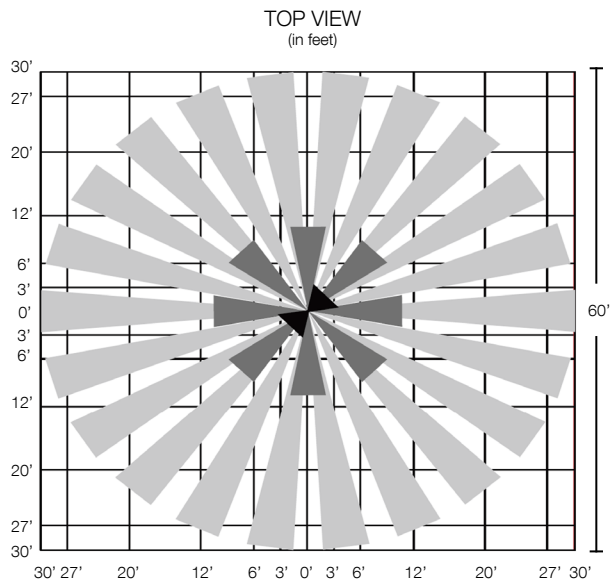
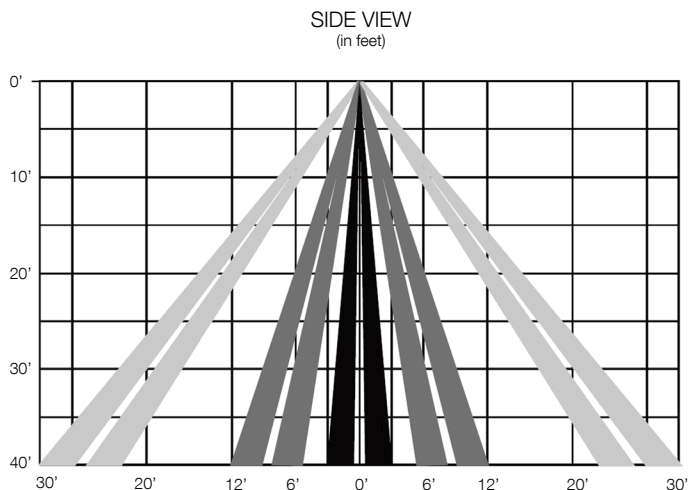
SENSOR TYPE:	Passive Infrared Sensor (PIR)
STANDARD OPTION:	SENSOR-ANT-6-4T
EMB OPTION:	SENSOR-ANT-6-4T-EM (Designed for fixtures with emergency kit. When the voltage power is off, the sensor will stop working.)
INPUT VOLTAGE:	12-24VDC, >30mA
LIGHT CONTROL:	10 ~ 50LUX
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-4°F ~ +140°F (-20°C ~ +60°C)
COMMISSIONING RANGE:	50FT from Remote Control
TIME SETTING:	10sec ~ 60min (adjustable)
DETECTION ANGLE:	360°
MOUNTING HEIGHT:	Up to 50FT.
WARRANTY:	5 years
IP RATING:	IP65

DIMENSIONS



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

COVERAGE PATTERNS



ORDER CODES

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



FEATURE

The Remote control wireless IR configuration tool is a handheld tool for remote configuration of IR-enabled fixture integrated sensors. The tool enables device to modify via push button and stores up to four sensor parameter modes to speed configuration of multiple sensors.

	PROGRAMMABLE	RESET
COMPATIBLE SENSORS	SENSOR-ANT-6-4T SENSOR-ANT-6-4T-EM SENSOR-ANT-6-4T-H SENSOR-ANT-6-4T-H-EM SENSOR-ANT-7 SENSOR-ANT-3C-B1 SENSOR-819-D1/D2 SENSOR-823 SENSOR-820	SENSOR-BLE-6-4T SENSOR-BLE-7 SENSOR-BLE-7D SENSOR-BLE-819 SENSOR-BLE-619 CONTROL-BLE-5-4T WALLSWITCH-BLE-101 WALLSWITCH-BLE-204

SPECIFICATION

Carrying Case

RC-100 in Carrying Case

Commissioning Range

Up to 50FT (15mm)

Operating Temp

32F ~ 122F (0°C ~ 50°C)

Power

2 x AAA 1.5V Alkaline batteries



Dimension

L - 4.84" (123mm)
W - 2.76" (70mm)
H - .80" (20.3mm) Thickness

BRIGHTNESS

Set output level (in 70%, 80%, 90%, or 100%) of connected lighting during occupancy.

SENSITIVITY

Set the sensitivity (in 20%, 50%, 75%, or 100%) of the occupancy sensor.

HOLD TIME

Set the time (in 10s, 1m, 5m, 10m, 16m, 20m, 30m, or 60m) that the fixture will hold at normal output after the space is vacant.

DAYLIGHT SENSOR

Set the threshold of natural light (in 10, 30, or 50) as setpoint to light on automatically for the sensor. If natural light is above the selected threshold, fixture will shut off. Set daylight (in 100, 300, 500) as setpoint to light off.

STAND-BY DIM/TIME

DIM: Set the output level (in 0%, 10%, 30%, or 50%) of the fixture during vacancy. This will only take place after Hold Time has elapsed.

TIME: Set the time (+∞, 1m, 30m, or 50m) that the sensor will remain in stand-by mode before powering down.

ON/OFF

Use this to manually power a fixture on or off.

AUTO

Press Auto to engage/unlock a sensor.

Press Auto, then press Display to show the sensors current setting parameters.

DISPLAY

Press to Display to view current setting parameters for each function. LED indicators will highlight current settings.

DIRECTIONAL ARROWS

Use the arrows to navigate the setting options by pressing up/down or left/right.

SEND

Press Send to upload displayed settings to individual sensor/fixture. The fixture will blink on and off to confirm new settings.

SMART DAYLIGHT SENSOR

Open and or close smart daylight sensor.

Press up/down arrows buttons to enter setting condition, the parameters LEDs of remote control will flash to be selected.

TEST

Used to test sensitivity of occupancy sensing.

Press Test, then the fixture will enter Test Mode, where Hold Time is only 2s.

While Test Mode is active, Stand-By and Daylight sensing will be disabled.

Press Auto to exit Test Mode.

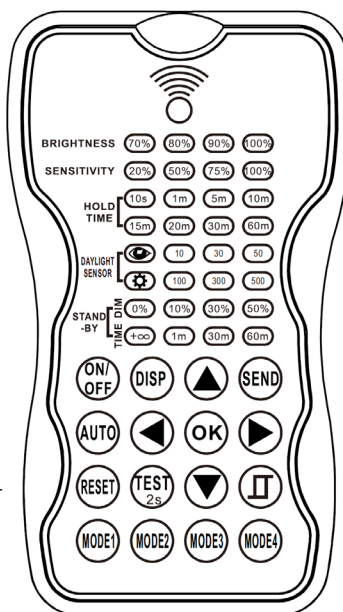
RESET

Press Reset to put all parameters back to default settings.

MODE

Press the Mode # that you want to save.

Use Directional Arrows to select new parameters. Press OK to confirm.





SENSOR-BLE-6-4T BLUETOOTH PIR SENSOR

Client:
Project:
Type:
Quantity:

FEATURE

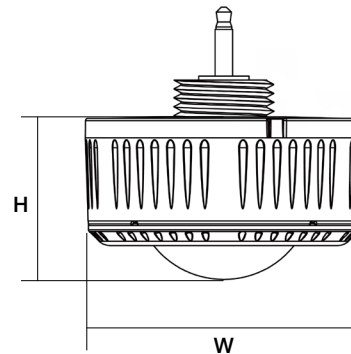
- **Installation:** Plug-N-Play via AUX socket on attached fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on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



SPECIFICATIONS

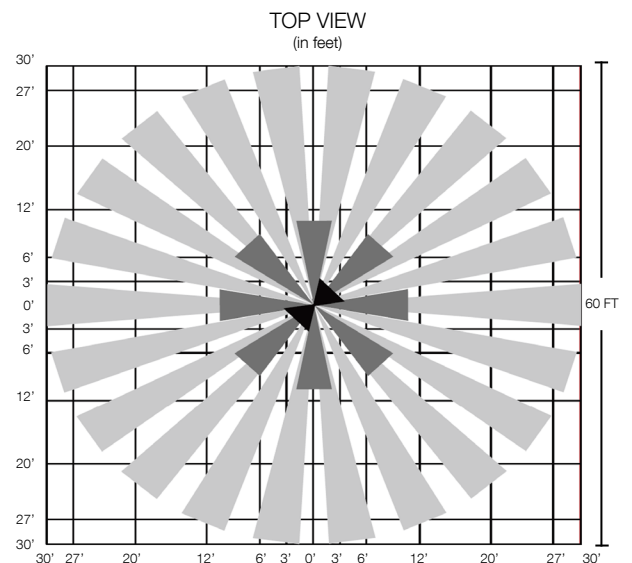
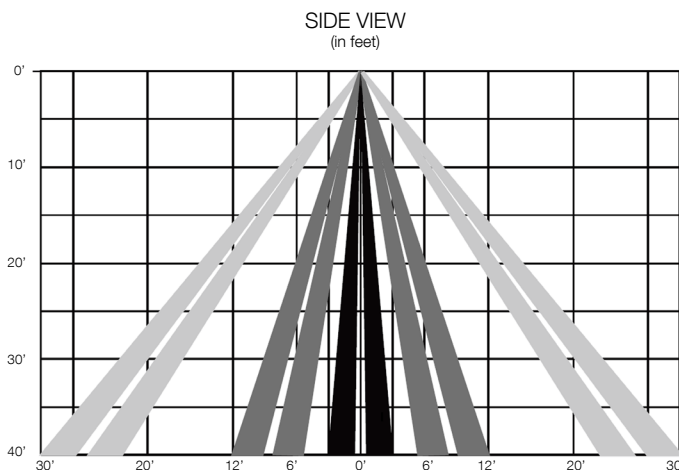
SENSOR TYPE:	Passive Infrared Sensor (PIR)
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
INPUT VOLTAGE:	12-24VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-4°F ~ +140°F (-20°C ~ +60°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	164FT
DETECTION ANGLE:	360°
MOUNTING HEIGHT:	Up to 40FT
WARRANTY:	5 years
IP RATING:	IP65

DIMENSIONS



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

COVERAGE PATTERNS



LHCA-G2 SERIES SELECTABLE 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

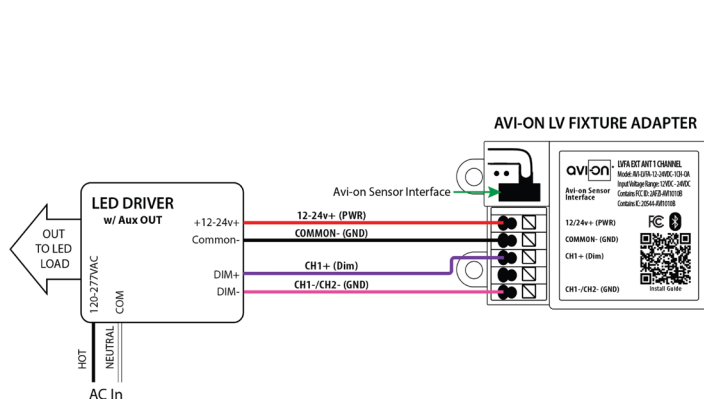
SPECIFICATIONS

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)

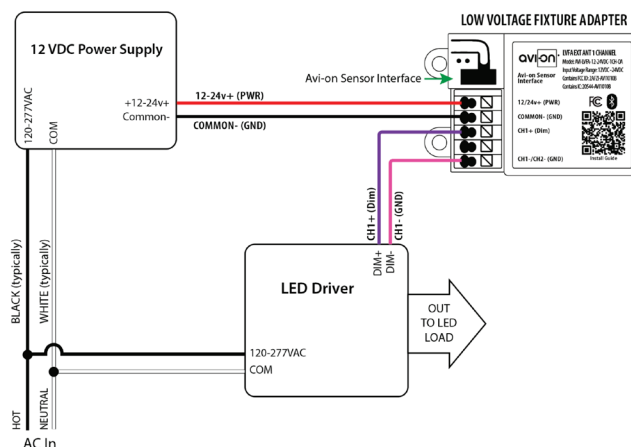
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: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