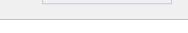
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LHS-LEDLinear Highbay



The LHS-LED series delivers versatile, high-efficiency linear highbay luminaires with selectable features and a compact design. Durable and contractor-friendly, it's perfect for industrial and commercial applications, replacing HID and fluorescent systems. With ControlLED capability, it integrates plug-and-play motion and daylight sensors wirelessly and with bluetooth mesh network, providing advanced lighting control without hubs or gateways.

IDEAL APPLICATIONS

Warehouses

Factories

Gymnasiums

Service Bays

Retail stores

Workshops

SPECIFICATIONS

	LH1S- LED110A60	LH2S- LED165A100	LH3S- LED320A220	
	PERFORI	MANCE		
Light Output	15900/12400/ 9300 lm	23500/19900/ 15300 lm	46900/41000/ 33400 lm	
		Lumen Selectable	9	
Efficacy	155 lm/W	155 lm/W 153 lm/W 152 lm/W		
ССТ	3500/4000/5000K (CCT Selectable)			
Beam Distribution	Wide (90°x90°), Narrow (45°x90°) - Field Changeable			
Replaces Up to	250 MH 400 MH 1000 MH			
LED Lifetime (L80)		>100,000 Hrs		
CRI	84 85		84	
	ELECTRICAL			
Wattage	105/80/60W 160/130/100W 320/27		320/270/220W	
Voltage	120-347V			
Surge Protection	6kV (Built-in	Driver) as per IEC	/EN61000-4-5	
Power Factor	>0.99			

Note: Electrical and light performance data is based on LM79 test
reports, measured at maximum wattage, 4000K, and 120V.

<4%

Pre-installed 10' Power Cable (3x18 AWG)

9W (Option Available)

		LH1S- LED110A60	LH2S- LED165A100	LH3S- LED320A220		
	CONSTRUCTION					
Housing		Die-cast Aluminum				
Lens		Glare-free Polycarbonate				
	Fixture & Cable	5.40 lbs	7.16 lbs	9.58 lbs		
Weight	2x2' T-Grid Mounting Plate	6.49 lbs 5.71 lbs		-		
	2x4' T-Grid Mounting Plate	14.58 lbs	13.90 lbs	12.78		

AMBIENT OPERATING TEMPERATURE

-40°C to 55°C (-40°F to 131°F)

MOUNTING

Suspension Mount - V-Hooks & Chain (Included), Aircraft Cable, Surface Mount, Pendant Mount & T-Grid Drop Ceiling Mount

CERTIFICATIONS

cULus Listed for Canada and USA, per UL 1598, CSA C22.2 No. 250.0

DLC Premium

CONTROLS

0-10V Dimming (Dim to Off)

PIR/Microwave Motion Sensor/Dimmer with Remote Control Bluetooth PIR Motion & Daylight Harvest Sensor

FIELD CHANGEABLE OPTICS



THD

Cord

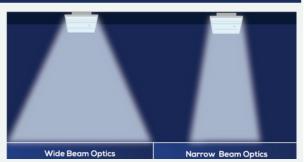
Battery Backup

TOOL-LESS SWAP IN LESS THAN 1 MIN

Take out 90°x90° wide beam optics (pre-installed)



Swap with 45°x90° narrow beam optics (included in the box)





















LUMEN MAINTENANCE			
L90	L80	L70	
51,000 Hrs	105,000 Hrs	165,000 Hrs	

Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations.

MAX AMPERAGE DRAW (A)					
	120V	208V	240V	277V	347V
LH1S-LED110A60	0.962	0.555	0.481	0.417	0.333
LH2S-LED165A100	1.467	0.846	0.733	0.635	0.507
LH3S-LED320A220	2.933	1.692	1.467	1.271	1.014

ORDERING GUIDE

		Н	VK	CD	WHT	DIM		
Fixture	Wattage	Voltage	Colour Temp.	Beam Distribution	Finish	Dimming	Battery Backup	T-Grid Mounting
LH1S	LED110A60	H - 120-347V	VK - Colour	CD - Field	WHT - White	DIM - 0-10V	BLANK - No	BLANK - Not
LH2S	LED165A100		Selectable (3500K/4000K	Changeable Distribution		Dimming	Battery Backup	for T-Grid Mounting
LH3S	LED320A220		/5000K)	Distribution			Васкар	Modrienig
							BBK9 - 9W Battery Backup¹	2x2TGrid - T- Grid Mounting for 2x2' Drop Ceiling ²

- ¹ Battery Backup is for suspension mount and surface mount only.
- ² Offered with LH1S and LH2S only.

Default Setting: 4000K, Maximum Wattage & Wide Optics (90°x90°).

2x4TGrid - T-Grid Mounting for 2x4' Drop Ceiling

STOCK CODES		
081943	LHIS-LEDII0A60-H-VK-CD-WHT-DIM	
081944	LH2S-LED165A100-H-VK-CD-WHT-DIM	
081945	LH3S-LED320A220-H-VK-CD-WHT-DIM	

INCLUDED IN THE BOX



PRE-INSTALLED 10 FT



V HOOKS & 6 FT SUSPENSION CHAIN



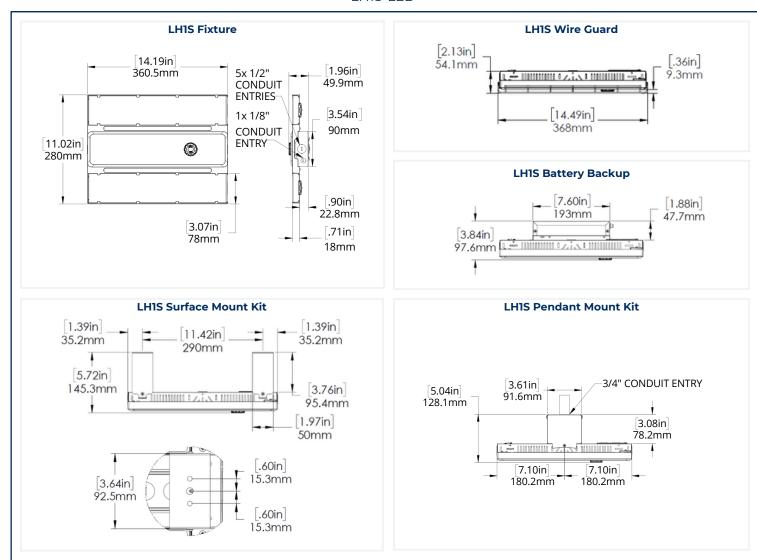
SPARE 45°x90° NARROW BEAM OPTICS (TOOL-LESS CHANGE IN FIELD)

	ACCESSORIES SO	OLD SEPARATELY	
07	081960 - AIRCRAFT CABLE - 10 ft Length		080909 - MICROWAVE SENSOR (50 ft max height) 081300 - PIR SENSOR 1 (20ft max height) 081837 - PIR SENSOR 2 (40ft max height) Occupancy sensing can be disabled to use it as a dimmer only.
	081958 - SURFACE MOUNT KIT		080970 - MOTION SENSOR REMOTE CONTROL
	081959 - PENDANT MOUNT KIT		084210 - HIGHBAY BLUETOOTH PIR MOTION/DLH SENSOR & ADAPTER
	081961 - LH1S WIRE GUARD 081962 - LH2S WIRE GUARD 081963 - LH3S WIRE GUARD		

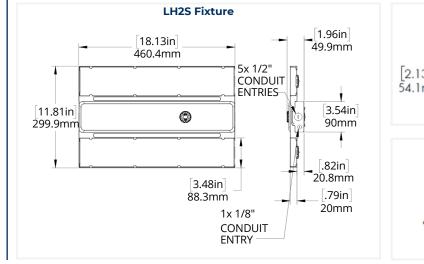


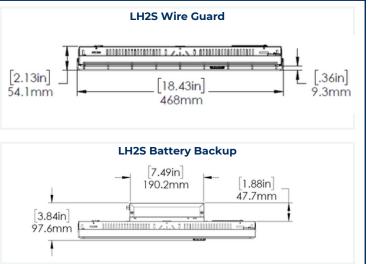
DIMENSIONS

LH1S-LED

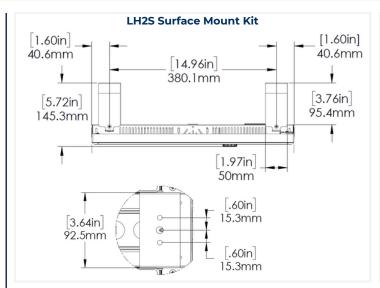


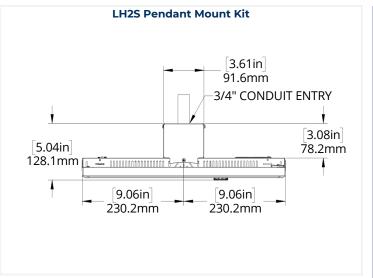
LH2S-LED



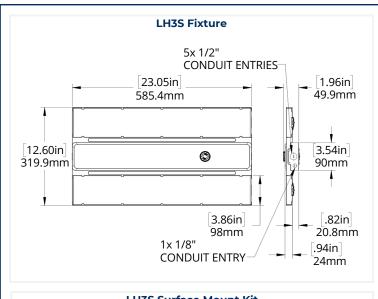


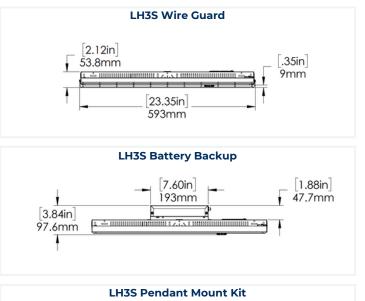


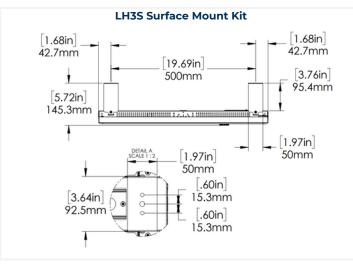


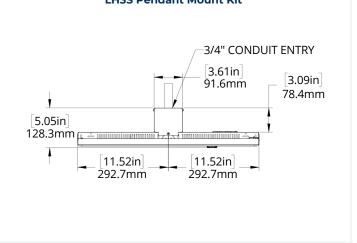


LH3S-LED



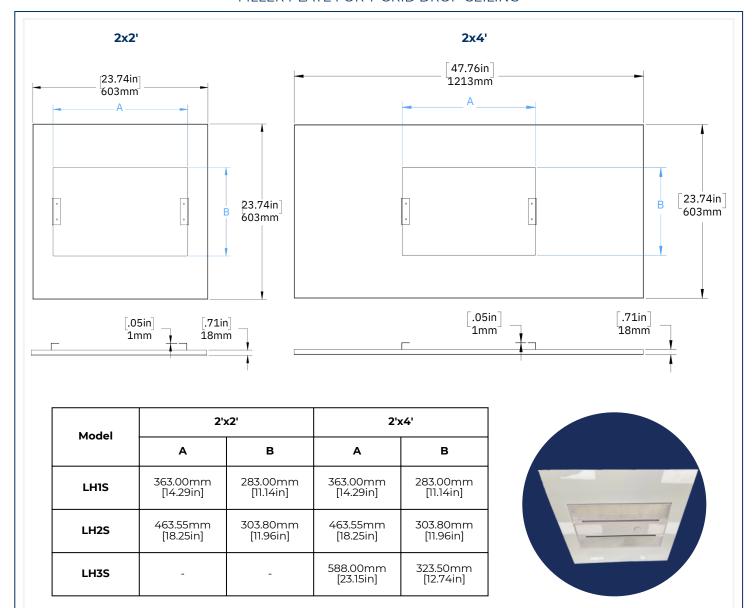








FILLER PLATE FOR T-GRID DROP CEILING



Note: Fixture and T-Grid mounting plate assembly must be supported by suspension mounting directly on the ceiling surface.



MOTION SEN	ISOR SPECIFICATIONS - PROGRAM USING REMOTE CONTROL		
Sensor Type	Microwave & PIR		
Microwave Frequency	5.8GHz +/- 75MHz		
Operating Voltage	12VDC		
Operating Current	30mA		
Output Voltage	0-10V		
Stand-by Power	<0.5W		
Detection Range	Microwave Sensor: 50 ft PIR Sensor 1: 20 ft PIR Sensor 2: 40ft Microwave Sensor: 66 ft PIR Sensor 1: 26 ft PIR Sensor 2: 26 ft		
Maximum Detection Angle	360°		
Ambient Operating Temperature ¹	-30°C to 60°C (-22F to 140F)		
Indoor/Outdoor Use	Both Indoor & Outdoor		
IP Rating	IP65		
r Rading	11 00		

MOTION SENSOR PROGRAMMING		
Programming Tool	Highbay Motion Sensor Remote Control	
Brightness	70%/80%/90%/100%*	
Sensitivity	20%/50%/75%/100%*	
Hold Time	10s/1min*/10min/30min	
Daylight Sensor	10Lux/30Lux/50Lux/100Lux/Disabled*	
Standby Dim	10%/20%*/30%/50%	
Standby Time	1min*/30min/60min/+∞	
D (1: 11: 11: 11: 11: 11: 11: 11: 11: 11		

- Default settings marked with *
- Default Setting: After no motion for 1min (hold time), the fixture will dim from 100% (brightness) to 20% (stand-by dim level). After no motion for another 1 min (stand-by time), the fixture will turn off.
- For instructions on programming the motion sensor remote control, please see the Installation Instructions.
- ¹When installed in the fixture, the system's ambient operating temperature is limited by the component with the lowest allowable range.

BATTERY BACKUP SPECIFICATIONS				
Input Power	8W			
Input Voltage	120-347V			
Output Power (Emergency Mode)	9W	$\overset{\odot}{\odot}$		
Recharge Current	0-500mA	1 -		
Recharge Time	24 to 48 Hrs			
Discharge Time	90 min			
Ambient Operating Temperature ¹	0°C to 60°C (32F to 140F)	30		
Service Life	50,000 Hrs			
IP Rating	IP20			
Installation	Factory installed in a junction box that comes mounted on the fixture			
Light Output ²	1400 lm			

- ¹When installed in the fixture, the system's ambient operating temperature is limited by the component with the lowest allowable range.
- ²Lumen output with emergency battery backup can be calculated by multiplying the battery output power with the efficacy of fixture.





BLUETOOTH PIR MOTION & DAYLIGHT HARVEST SENSOR

FEATURES

- · PIR motion and daylight harvest sensor
- Easy wireless plug-and-play installation
- · Bluetooth mesh network
- DLC Networked Lighting Control (NLC) & Luminaire Level Lighting Control (LLLC)

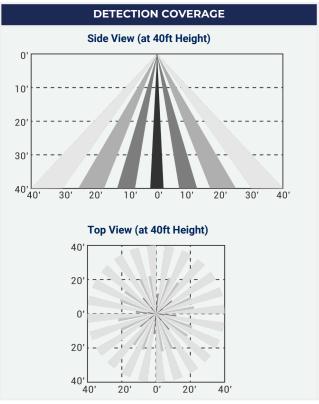
SPECIFICATIONS		
Input Voltage	12VDC	
Input Current	50mA Max.	
Input Power	0.6W	
Output Current	10mA Max. Sinking Current	
Output Power	0.1W	
Dimming	Class 2, 0-10VDC	
Bluetooth Transmit	328ft Max.	
Radio Frequency	2.4GHz ±75MHz	
Bluetooth Version	5.0	
Housing Material	Polycarbonate (UL 94-5VA)	
Housing Finish	White	
Detection Range	40-80ft	
Mounting Height	20-40ft	
Indoor/Outdoor Use	Both Indoor & Outdoor Use	
Operating Temperature ¹	-30°C to 55°C (-22°F to 131°F)	
Storage Temperature	-30°C to 85°C (-22°F to 185°F)	
IP Rating	IP66 (Wet Location)	
Installation	The audio jack to 3-PIN adaptor is pre- installed on the sensor for quick twist- lock installation ¹	

¹When installed in the fixture, the system's ambient operating temperature is limited by the component with the lowest allowable range.

DEFAULT SETTINGS			
Motion Sensor	ON		
Mode	Occupancy		
High End Trim	100%		
Sensitivity	High		
Hold Time (T1)	20 min		
Standby Dim	50%		
Standby Time (T2)	1 min		
Photocell	Off		
Linkage	Off		
Linkage Level	100%		

Note: Program the sensor with the desired settings using the ControlLED Mobile App (please refer to the ControlLED App manual for instructions).









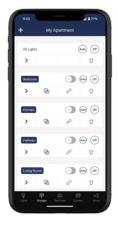




CONTROLLED



ControlLED Network Lighting Controls (NLC) delivers secure, wireless lighting management with Bluetooth Mesh and the ControlLED App. Integrated sensors enable automatic adjustments for comfort, safety, and efficiency.



Organized
Workspaces:
Create Zones,

Create Zones, Groups and Group linkages.



Dimming Lights:Set dim level for groups or individual lights.



Motion and
Daylight Harvest
Sensors:

Custom sensor settings for groups or individual lights.



Scenes:

Create custom scenes for different scenarios.



Schedules:

Create custom schedules for recurring events.



Share Access:

Share access using OR codes.

Get the App!





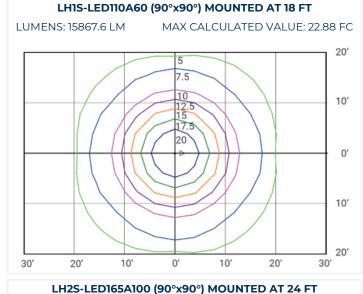


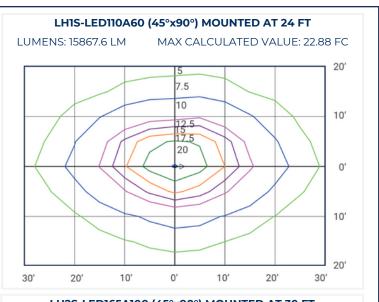


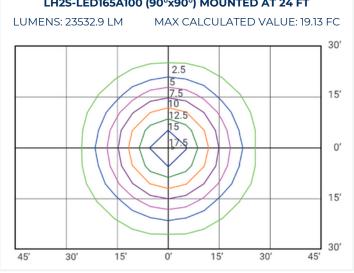


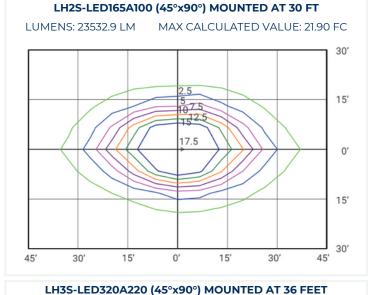


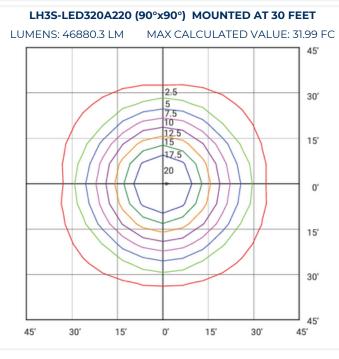
PHOTOMETRIC PLOTS

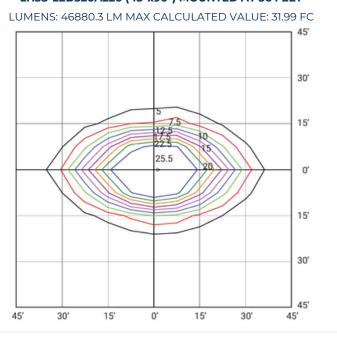












NOTE: Photometric plots are shown at the maximum lumen setting, 120V and 4000K.