roject:		Type:		Date:		Notes:	
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The LHS-LED Series of linear highbay luminaires is highly versatile with industry leading selectable features and a high lumen package while keeping a compact design and contractor-friendly installation. Its durability and high efficiency make it ideal for illuminating a wide range of industrial and commercial facilities and is an optimal one-to-one replacement for conventional lighting systems such as HID and fluorescent.

## **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	153 lm/W	152 lm/W			
ССТ	3500/40	00/5000K (CCT Se	electable)			
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			
	ELECTE	RICAL				
Wattage	105/80/60W	160/130/100W	320/270/220W			
Voltage		120-347V				
Surge Protection	6kV (Built-in Driver) as per IEC/EN61000-4-5					
Power Factor	>0.99					
THD	<4%					
Cord	Pre-installe	d 10' Power Cable	(3x18 AWG)			
Battery Backup	9W (Option Available)					

		LH1S- LED110A60	LH2S- LED165A100	LH3S- LED320A220			
		CONSTRUC	TION				
Housing		Die-cast Aluminum					
Lens		Glare-free Polycarbonate					
	Fixture & Cable	5.40 lbs	7.16 lbs	9.58 lbs			
<b>Weight</b> 2x2' T-Grid Mounting Plate		7.49 lbs	6.46 lbs	-			
	AMBIENT OPERATING TEMPERATURE						

# Fixture: -40°C to 55°C Motion Sensor: -30°C to 55°C Battery Backup: 0°C to 55°C

#### 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 (Dual Functionality)

All reported values were tested at 120V and 4000K and shown for the highest lumen setting.

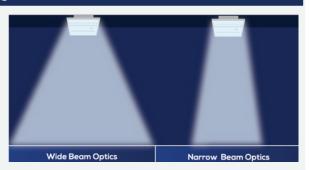
## **FIELD CHANGEABLE OPTICS**

#### **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		
LHIS-LEDIIOA60	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)					
							BBK9 - 9W Battery Backup¹	2x2' T-Grid - T- Grid Mounting for 2x2' Drop Ceiling <sup>2</sup>

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

	081943		LH1S-LED110A60-H-VK-CD-WHT-DIM			
	081944		LH2S-LED165A100-H-VK-CD-WHT-DIM			/HT-DIM
	LH3S-LED320A220-H-VK-CD-WHT-DIM			VHT-DIM		
		INCLUDED	IN THE BOX			
	PRE-INSTALLED 10 FT POWER CORD		V HOOKS & 6 FT SUSPENSION CHAIN			SPARE 45°x90° NARROW BEAM OPTICS (TOOL-LESS CHANGE IN FIELD)
ACCESSORIES SOLD SEPARATELY						
						OWAVE SENSOR (50 ft

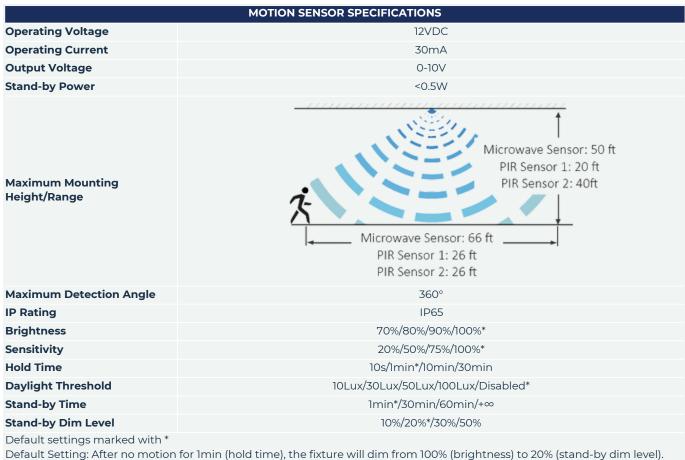
STOCK CODES

ACCESSORIES SOLD 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				
0	081959 - PENDANT MOUNT KIT		081961 - LHIS WIRE GUARD 081962 - LH2S WIRE GUARD 081963 - LH3S WIRE GUARD				

<sup>&</sup>lt;sup>1</sup> Battery Backup is for suspension mount and surface mount only.

<sup>&</sup>lt;sup>2</sup> Not offered for LH3S.





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.

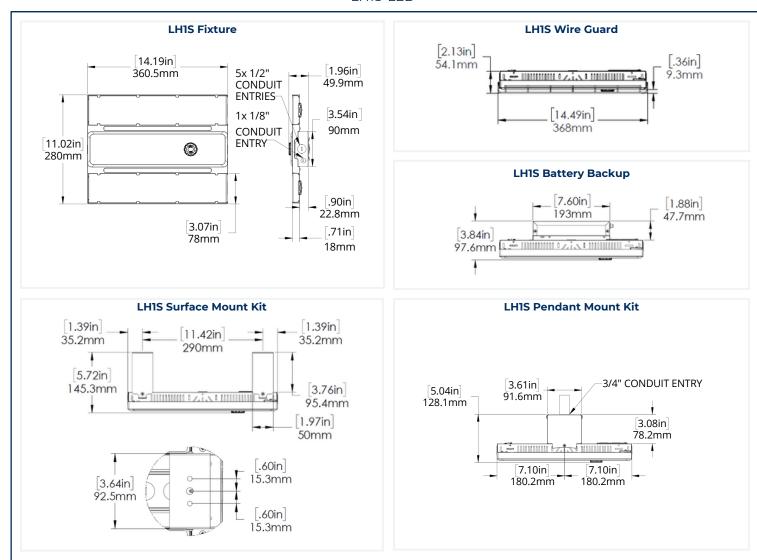
For instructions on programming the motion sensor remote control, please see the Installation Instructions.

BATTERY BACKUP SPECIFICATIONS								
Input Power	8W							
Input Voltage	120-347V							
Output Power	9W	$\odot$						
Recharge Current	0-500mA	1 *						
Recharge Time	24 to 48 Hrs							
Discharge Time	90 min							
Service Life	50,000 Hrs	, , , , , , , , , , , , , , , , , , ,						
IP Rating	IP20	1						
Installation	Factory installed in a junction box that comes mounted on the fixture							

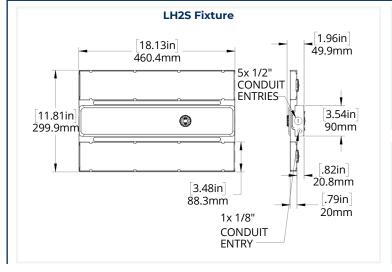


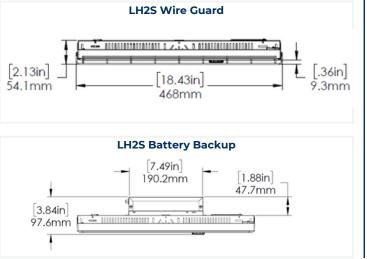
### **DIMENSIONS**

## LH1S-LED

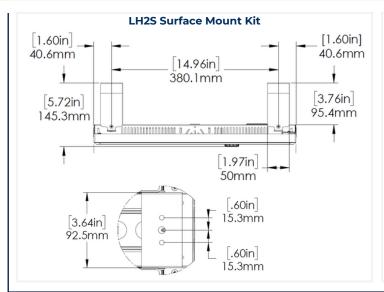


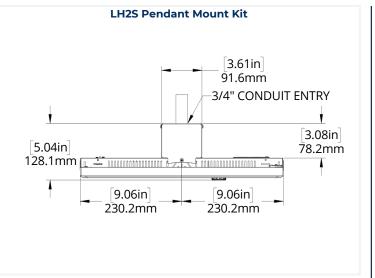
# LH2S-LED



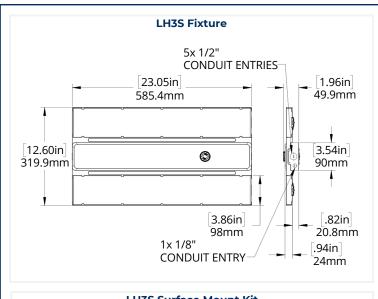


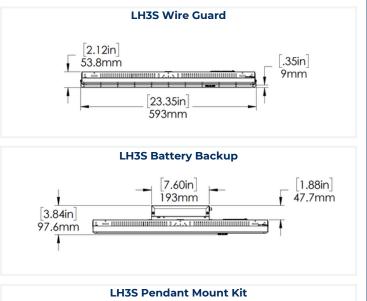


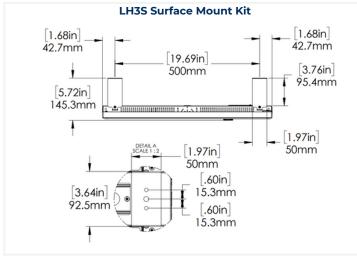


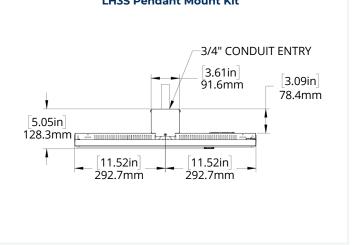


#### LH3S-LED



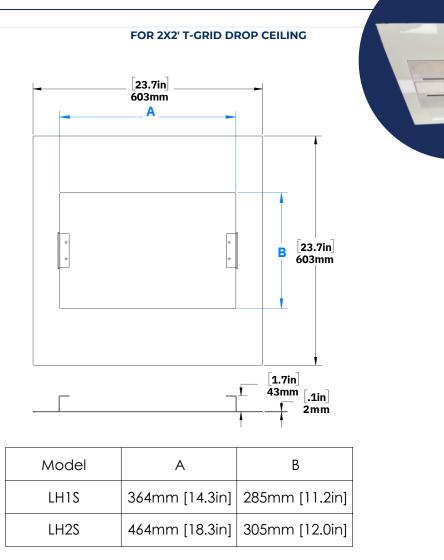








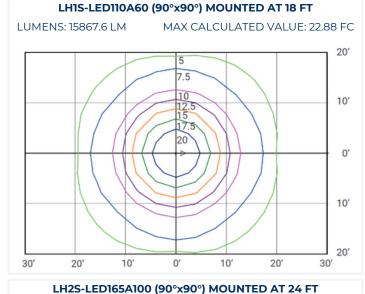
# FILLER PLATE FOR T-GRID DROP CEILING

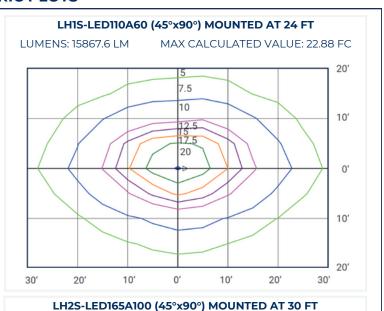


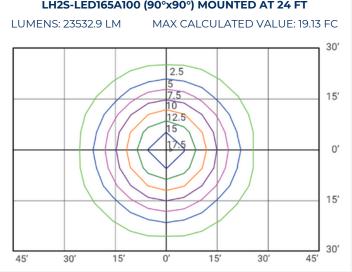
Note: Fixture and T-Grid mounting plate assembly must be supported by suspension mounting directly on the ceiling surface.

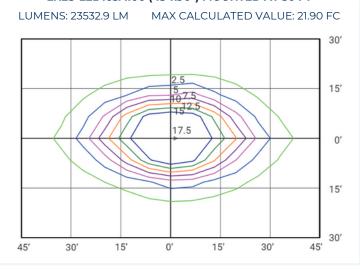


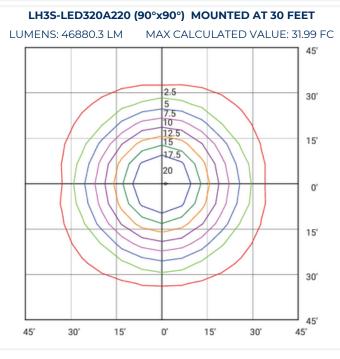
### PHOTOMETRIC PLOTS

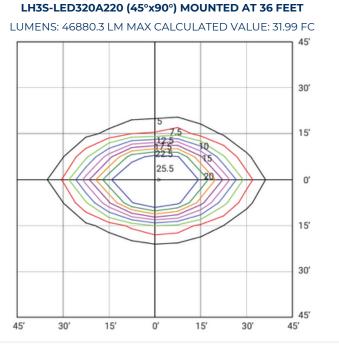












NOTE: Photometric plots are shown at the maximum lumen setting, 120V and 4000K.