



# LHB1S-LED

Linear Highbay LED



## IDEAL APPLICATIONS

- Manufacturing
- Warehousing
- Commercial Spaces

## DESCRIPTION:

The LHBS-LED series is an easy to install fixture that provides well-distributed uniform lighting and is ideal for large indoor spaces such as warehousing, commercial spaces and manufacturing applications. LHBS-LED is an ideal one-for-one replacement for conventional lighting systems such as HID and fluorescent.

## FEATURES:

### Construction

- Steel housing with a white powder paint finish. Standard unit comes with a polycarbonate matte lens.

### Electrical

- Standard fixture has a high efficiency LED driver that operates at 120-277V. Drivers have a 2KV internal surge suppressor. The operating temperature is -25°C to +50°C. 20W Battery Back Up are offered separately. Battery back up is rated for operating temperature of 0°C to 50°C.

### Light Performance

- Standard unit comes with a dedicated CCT of 5000K. The fixture has a CRI of 80 and a beam distribution of 90 degrees.

### Controls

- 12V DC Motion Sensor (easy to install with twist lock mechanism), Motion Sensor Remote Control (for custom configurations).

### Mounting

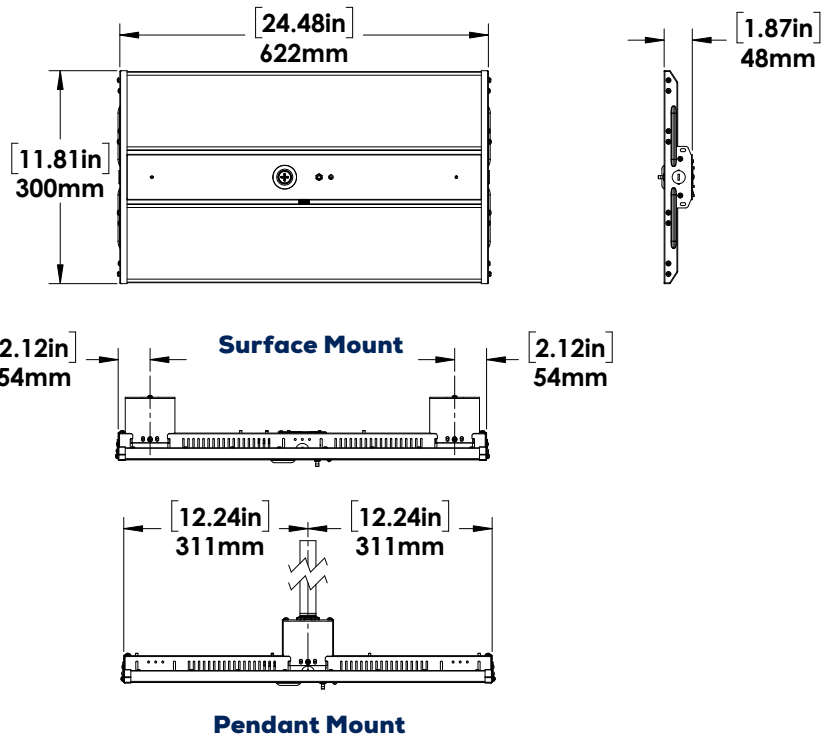
- Standard fixture comes with suspending chain (6ft long). Wire Guard and Surface/pendant mount kit (used for surface or pendant mountings) are offered separately.

SPECIFICATIONS	LHB1S-LED110	LHB1S-LED165
Watts (W)	111.6	163.8
Lumens	15783.3	22981.2
Efficacy (Lm/W)	141.5	140.3
Voltage	120-277V	
CCT (K)	5000K	
CRI	80	
Dimming	0-10V Dimming (10-100%)	
THD	15%	
PF	0.9	
Beam Distribution	90 Degrees	
LED Life @ 100,000 Hours	81%	
Housing Finish	White	
Housing Details	Steel	
Lens Details	PC Matte Lens	
Mounting	Surface Mount, Pendant Mount, Suspended Mount*	
# Conduit Entries	6	
Operating Temp.	-25°C to +50°C	
Power Cable Length	1 ft	
Factory Installed Options	20W Battery Back Up (BBK is rated for operating temperature of 0°C to +50°C)	
Options Sold Separately	Surface/Pendant Mount Kit, Wire Guard, DC Motion Sensor (Microwave), Motion Sensor Remote Control, 10 ft Power Cord	
Certifications Logos	UL, Damp Location Rated, 5 Year Warranty, IP20, DLC Premium	

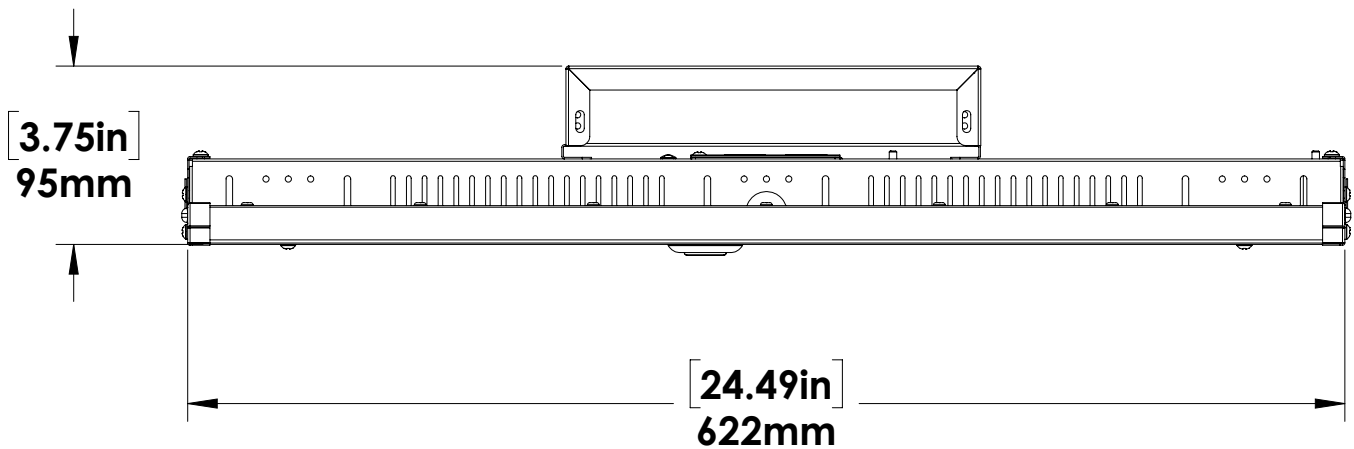
\*Standard Configuration



**DIMENSIONS:**



**DIMENSIONS FOR LHB1S WITH BATTERY BACK UP:**



**AMPERAGE DRAW & SURGE PROTECTION**

	CURRENT (A)				SURGE PROTECTION (kV)
	120V	208V	240V	277V	120-277V
LHB1S-LED110	0.97A	0.56A	0.49A	0.42A	2kV
LHB1S-LED165	1.45A	0.84A	0.73A	0.63A	

**TM-21 ESTIMATED LUMEN MAINTENANCE**

	50,000 Hours	75,000 Hours	100,000 Hours
LHB1S-LED	90.3%	85.7%	81.4%

**WEIGHTS (lbs)**

LHB1S-LED	8.8
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**SPECIFICATIONS**

Model Number	Voltage (V)	Power (W)	Light Output (lm)	Efficacy (lm/W)	THD (%)	PF	CCT (K)
LHB1S-LED110-B-5K-XXX-DIM	120-277	112	15783	141.5	15.0	0.900	5000
LHB1S-LED165-B-5K-XXX-DIM	120-277	164	22981	140.3	15.0	0.900	5000

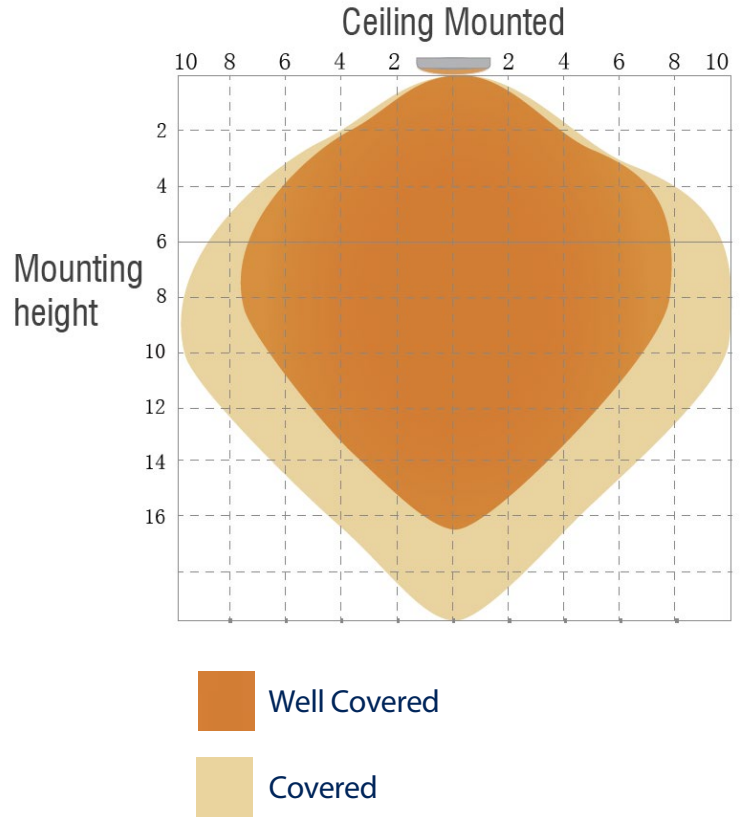
# LHBS DC MOTION SENSOR (MICROWAVE) SETTINGS

## SENSOR SPECIFICATIONS

SPECIFICATIONS	
Operating Voltage	12V DC
Operating Current	30mA
Output	0-10V DC
Stand-by Power	0.5W
Frequency	5.8GHz +/-75MHz
IP Rating	IP65
Detection Angle	30° - 150°
Mounting Height	Max 15m (50ft)
Brightness	70%/80%/90%/100%
Sensitivity	20%/50%/75%/100%
Hold time	10s/1min/10min/30min
Daylight threshold	10Lux/30Lux/50Lux/100Lux/Disabled
Stand-by time	1min/30min/60min/+∞
Stand-by Dimming Level	10%/20%/30%/50%

DEFAULT SETTINGS	
Brightness	70%
Sensitivity	20%
Hold time	10s
Daylight threshold	Disabled
Stand-by time	+ ∞
Stand-by Dimming Level	10%

## SENSOR DETECTION RANGE (M)



# LHBS DC MOTION SENSOR REMOTE CONTROL

		SPECIFICATIONS	
		BUTTON	FUNCTION
<p>TOP SECTION: Settings Display Area</p> 	ON/OFF	Long press until the brightness indicator light is on. Then press to permanently turn on and off the fixture.	
	BRIGHTNESS	Sets the highest light fixture brightness when motion is detected.	
	SEND	Uploads the selected remote-control parameters to the light fixture sensor.	
	HOLD TIME	The time the light fixture will remain at the brightness setting after it detects motion.	
	STAND-BY DIM	The Dim level that the light fixture will dim down to after the Hold Time has expired.	
	STAND-BY TIME	The time the light fixture will remain in the Stand-by dim state before it shuts off. To disable the light from shutting off, select the INFINITY icon.	
<p>BOTTOM SECTION: Button Setting Area</p> 	SENSITIVITY	Sets the sensitivity to which the sensor will detect motion.	
	DAYLIGHT	The lux setting at which the light fixture will turn on/off. If the ambient lux is more than the defined lux setting, the fixture & sensor function will turn off and remain off until the ambient lux is below the setting. Long press until the daylight indicator light is on. Then press to select the desired lux setting. To disable daylight sensor, long press again.	
	RESET	Resets the light fixture sensor parameters to the default settings.	
	- / +	Press to increase or decrease brightness from 0% to 100%.	
	TEST	Press to test the sensor (hold time is only 3s).	

Note: The sensor cannot be programmed with the remote control when standing right under it. It is recommended to use brand new batteries in remote control.

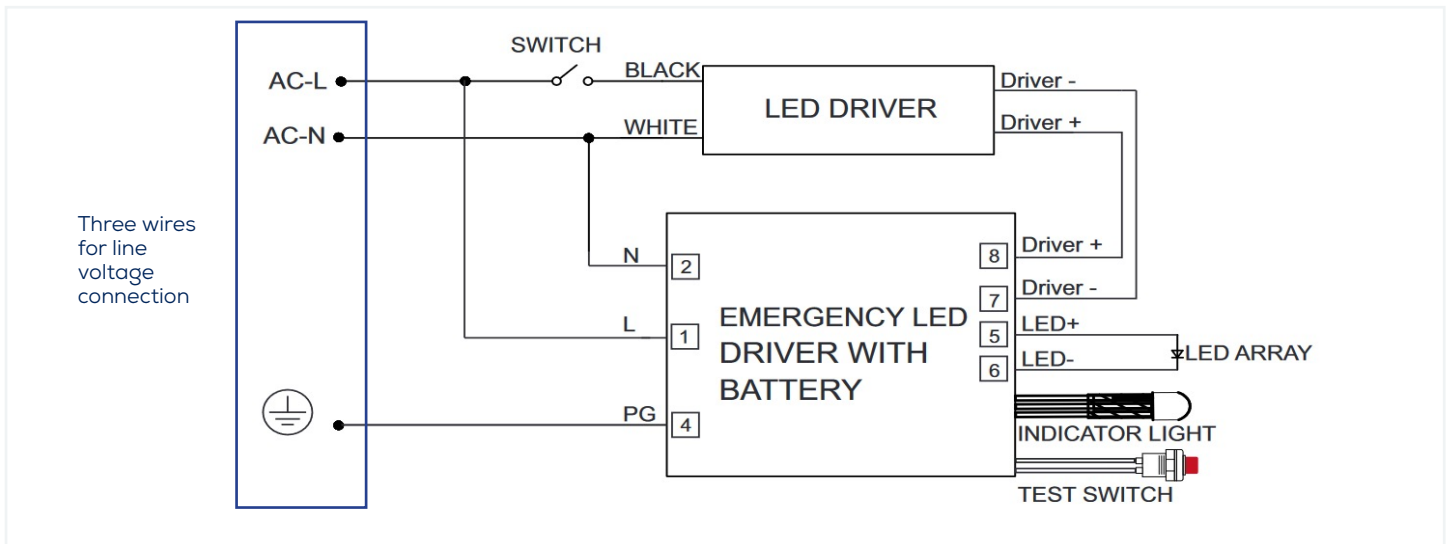
## PROGRAMMING INSTRUCTIONS

1. Press ON/OFF button
2. Select Settings
  - Select brightness level by pressing Brightness Button.
  - Select hold time by pressing Hold Time Button.
  - Select Stand by Dim by pressing Stand By Dim Button.
  - Select Stand by Time by pressing Stand By Time Button.
  - Select Sensitivity by pressing Sensitivity Button.
  - Optional: If Daylight sensor is desired, long press Daylight Button and then choose the daylight setting.
3. Press send, fixture responds to signal by strobing.

LHB1S-LED 20W BATTERY BACK UP SPECIFICATIONS

Input Voltage	100-277Vac,50/60Hz
AC Input Current	100mA max.
AC Input Power Rating	7.0W max.
Output Power	20W
Output Voltage	25V-48Vdc
Emergency Time	90 mins
Battery Charging Current	250mA
Charging Time	24 Hours
Temperature Rating (Ambient)	0°C to +50°C (32°F to 122°F)

**WIRING DIAGRAM FOR BATTERY BACK UP:**



LHB1S-LED110-B-5K-DIM  
MOUNTED AT 15 FEET

LHB1S-LED165-B-5K-DIM  
MOUNTED AT 20 FEET

Total Lumens = 14499

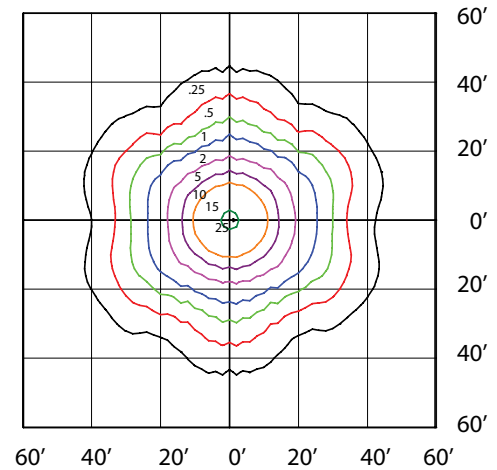
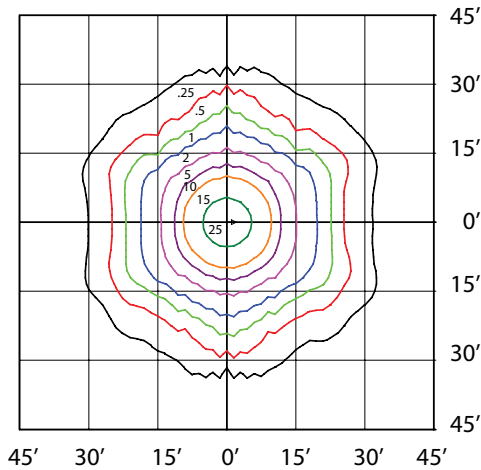
Mounting 15 Feet

Maximum Calculated Value = 32.13 Fc

Total Lumens = 20528

Mounting 20 Feet

Maximum Calculated Value = 26.11 Fc



## ORDERING GUIDE:

LHB1S-LED	B	5K	WHT	DIM		
Fixture	Wattage	Voltage	Color Temp.	Finish	Dimming	Battery Back Up
	LED110	B - 120-277V	5K - 5000K	WHT - White	DIM - 0-10V Dimming	BLANK
	LED165					BBK20 - 20W Battery Back Up*

Note: Standard fixture comes with 6ft long suspending chain.

Standard fixture comes with 1ft long power cable.

\*When ordering please specify if you will be doing a pendant or surface mount so the factory positions the BBK junction box accordingly.

## ACCESSORIES

- 052340 - LHB1S/2S PENDANT/SURFACE MOUNT KIT
- 052342 - LHB1S WIRE GUARD KIT
- 052305 - LHBS DC MOTION SENSOR
- 052306 - LHBS DC MOTION SENSOR REMOTE CONTROL
- 052516 - HB-LED/LHB-LED 10FT CORD 600V