



LHB1S-LED

Linear Highbay LED



Colour Selectable

Wide Voltage Range
120-347V

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 120-347V. Drivers have a 4KV internal surge suppressor. The operating temperature is -25°C to +50°C.

Light Performance

- Standard unit comes with a CCT selectable switch (4000K/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) are offered separately.
- Factory Installed Option: Lutron Athena Wireless Node allows zone and control changes digitally and wirelessly in a smart control system.

Mounting

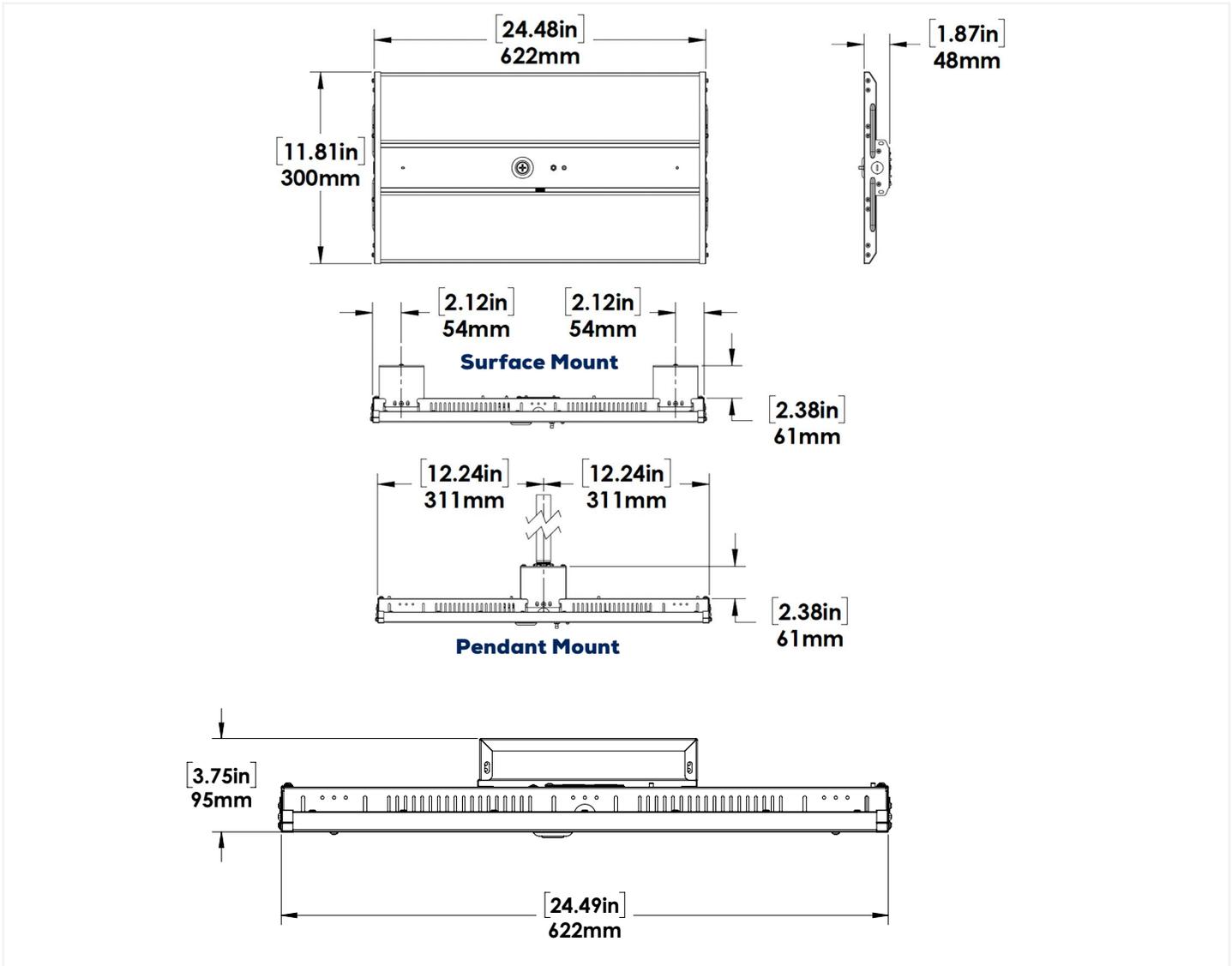
- Standard fixture comes with suspending chain (6ft long). Wire Guard and Surface/pendant mount kit (used for surface or pendant mountings) are offered separately.

SPECIFICATIONS	LHB1S-LED110	LHB1S-LED165
Watts (W)	109.6	162.5
Lumens	14988.6	22169.3
Efficacy (Lm/W)	136.8	136.5
Voltage	120-277V, 120-347V	
Colour Temp	VK - Colour Selectable (4K/5K)	
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*	
Number of Conduit Entries	6	
Operating Temp.	-25°C to +50°C	
Power Cord Cable Length	12" Wire Leads	
Options Sold Separately	Surface/Pendant Mount Kit, Wire Guard, DC Motion Sensor (Microwave), Motion Sensor Remote Control, 10 ft Power Cord	
Factory Installed Options	9W Battery Back Up is available for 120-347V Rated to operating temperature of (10°C to +60°C) 20W Battery Back Up is available for 120-277V Rated to operating temperature of (0°C to +50°C) Lutron Athena Wireless Lighting Control	
Certifications	UL, Damp Location Rated, 5 Year Warranty, IP20, DLC Premium	

*Standard Configuration



DIMENSIONS:



AMPERAGE DRAW & SURGE PROTECTION

	CURRENT (A)					SURGE PROTECTION (kV)
	120V	208V	240V	277V	347V	
LHB1S-LED110	0.97A	0.56A	0.49A	0.42A	0.34A	6kV
LHB1S-LED165	1.45A	0.84A	0.73A	0.63A	0.50A	

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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LHB1S-LED110-H-VK-DIM (5000K)
MOUNTED AT 15 FEET

LHB1S-LED165-H-VK-DIM (5000K)
MOUNTED AT 20 FEET

Total Lumens = 14499

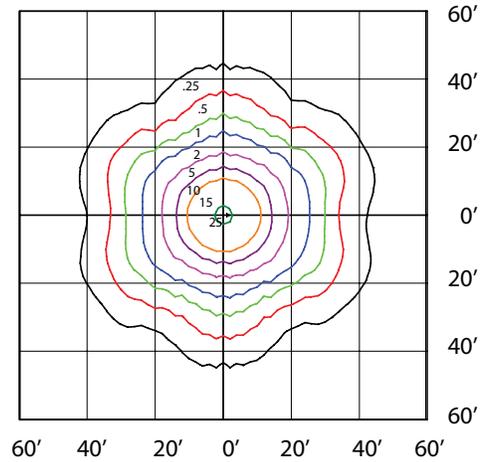
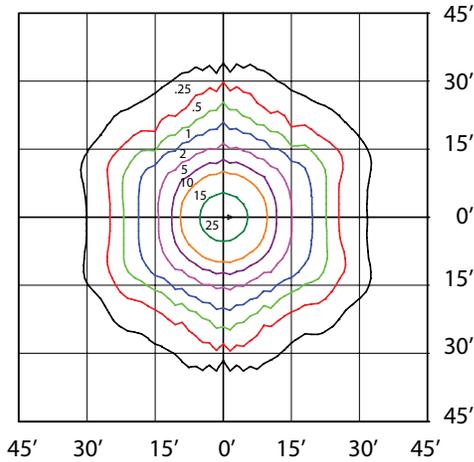
Mounting 15 Feet

Maximum Calculated Value = 32.13 Fc

Total Lumens = 20528

Mounting 20 Feet

Maximum Calculated Value = 26.11 Fc



COLOUR SELECTABLE SWITCH

The switch is located on top of the fixture



Easily change the colour temperature with the flip of a switch.

Setting 1 - 4000K

Setting 2 - 5000K



4000K



5000K

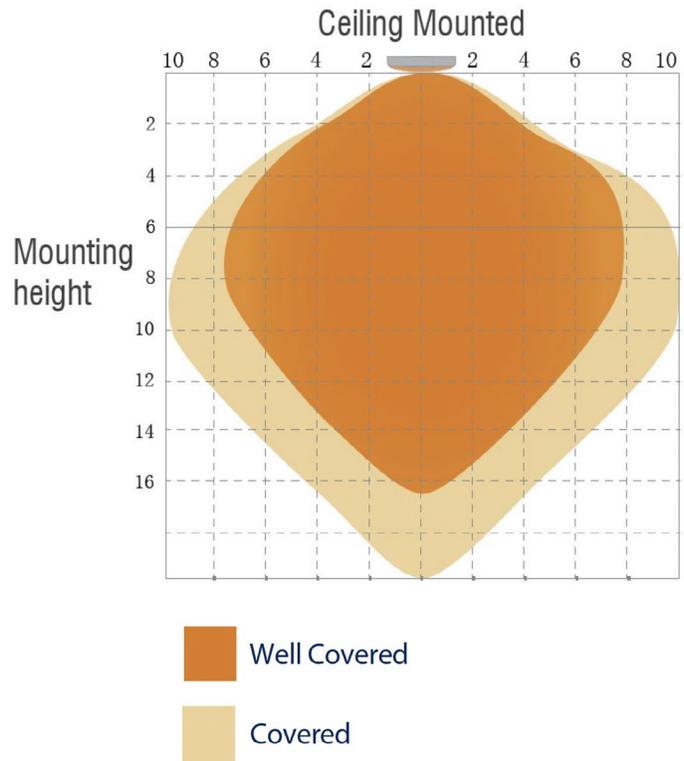
LHBS DC MOTION SENSOR (MICROWAVE) SETTINGS

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)

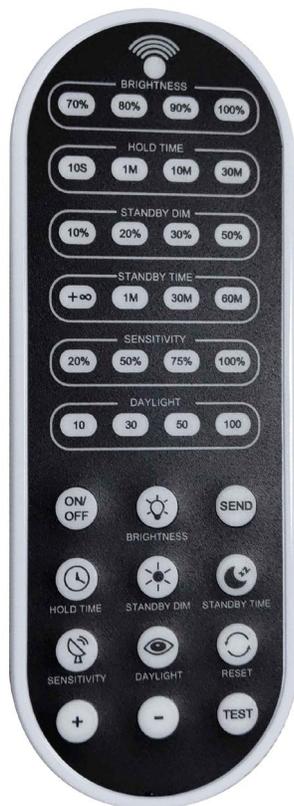


LHBS DC MOTION SENSOR REMOTE CONTROL SETTINGS

SPECIFICATIONS

BUTTON	FUNCTION
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 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.
SENSITIVITY	Sets the sensitivity to which the sensor will detect motion.
DAYLIGHT	The lux setting that 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.
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).

TOP SECTION:
Settings Display Area



Bottom Section:
Button Setting Area

BATTERY BACK UP DETAILS:

LHB1S-LED 9W BATTERY BACK-UP	
Rated Input Voltage	100-347VAC
Input Current	20-100mA
Input Power	8W
Power Factor	0.6 @ 100VAC, 0.5 @347 VAC
Output Wire L-out N-out (LED load input)	AC 6A Max
Output Voltage Range	DC 15-50V, 55V Max
Output Voltage (Emergency Mode)	9V
Recharge Current	0-200mA
Recharge Time	24 Hours
Discharge Time	90 Minutes
Maximum Case Temperature Tc	70°C
Ambient Operating Temperature Ta	10-60°C
Service Life	50,000 Hours
RFI/EMI	FCC

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)

*Battery Back Up is factory installed inside housing.

ORDERING GUIDE:

LHB1S		VK		WHT		DIM	
Fixture	Wattage	Voltage	Colour Temp.	Finish	Dimming	Controls	Battery Back Up
	LED110	B - 120-277V	VK - Colour Selectable (4000K/5000K)	WHT - White	DIM - 0-10V Dimming	BLANK - No Controls	BLANK
	LED165	H - 120-347V				AWN - Lutron Smart Control*	BBK9 - 9W Battery Back Up*
							BBK20 - 20W Battery Back-up*

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

*Factory installed Lutron Athena Wireless Node with RF only (A-WN-D01-RF-WH). Gateway and controller not included.

ACCESSORIES

- 081072 - LHB1S/2S PENDANT/SURFACE MOUNT KIT
- 081074 - LHB1S WIRE GUARD KIT
- 080909 - DC MOTION SENSOR
- 080970 - DC MOTION SENSOR REMOTE CONTROL
- 081326 - HB-LED/LHB-LED 10FT CORD 600V