

**LHB-EG2™**

**Linear High Bay**



**DESCRIPTION**

The LHB-EG2™ Linear High Bay delivers industry-leading performance with an extremely attractive ROI. Superior performance, ultra high-efficacy and premium quality provides an economic solution for high ceiling applications, especially warehouse spaces. Delivering high output, quality light and low energy consumption can improve warehouse safety and productivity, lower maintenance cost, and reduce operating costs.

**APPLICATIONS**

Commercial, Retail, Institution, Warehouse, and Industrial

**FEATURES**

**Construction**

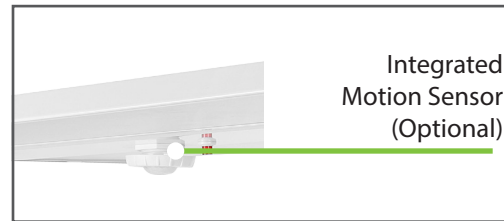
Rugged and durable aluminum construction withstands warehouse environments. Luminaire features matte white durable finish.

**Optical System**

Provides a General (110°) distributions.

**Warranty**

5 Year Warranty.  
Optional 7/10 Year Warranty Available.  
*See warranty documentation for more information.*



Not all products are qualified on the DLC® QPL. To view our DLC® qualified products, please consult the DLC® Qualified Products List at [www.designlights.org/qpl](http://www.designlights.org/qpl).



**LHB-EG2™**

- 90W (12,600 lm)
- 130W (18,500 lm)
- 180W (25,200 lm)
- 210W (29,000 lm)
- 270W (37,000 lm)
- 300W (41,500 lm)

Projected L70: 75,000+ hours  
Warranty: 5 Years  
System Efficacy: Up to 142 LpW  
1-10V Dimming

**Electrical**

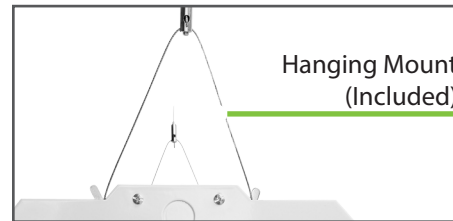
Utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Input voltage: 120-277V or 347-480V (Optional). 8W or 16W Emergency Battery Backup option available. (Factory Installed) Note: 16W EM not available for 130W.

**Installation/ Mounting**

Hanging mount (5ft. Aircraft Cable Standard) or 3/4" Conduit Pendant mount kit only available for 130W/180W/210W.

**Controls/Dimming**

1-10V Dimming comes standard. Integrated Bi-level occupancy/daylight harvesting sensor option available. Integrated WATTSTOPPER® occupancy sensor option available.



1-10V Dimming



480V Option



Motion Sensor Option



Emergency Battery Driver Option



Damp Location Listed

**Ordering Information**

**EXAMPLE: LHB-EG22-130W-50-S-U-D-HM**

Series	Size	Wattage	CCT	Distribution	Input Voltage	Dimming	Mounting Option	Controls Option	EM Battery Option
LHB-EG2	2 - 2'	90W 130W 180W 210W	50 - 5000K 40 - 4000K	S - General (110°) (Standard)	U - 120-277VAC H - 347-480VAC	D - 1-10V Dimming	<b>HM - Hanging Mount (Standard)</b> PM - Pendant Mount Kit (3/4") (For 130W, 180W, 205W)	<b>(Blank)</b> No Sensor M - Bi-level Occupancy/Daylight Harvesting Sensor W - WATTSTOPPER® Occupancy Sensor	<b>(Blank)</b> No EM EM08 - 8W EM Battery Backup EM16 - 16W EM Battery Backup
	4 - 4'	270W 300W							

**Accessories**

- 88-WP8-3C (8ft 3 Wire Whip [18AWG])
- RC-RC-100 (TGS - Wireless Configuration Tool)

Specifications and Dimensions subject to change without notice.

\*MOQ and longer lead times may apply, please contact customer service for more information.

♦ 16W Emergency Battery Backup unavailable for 130W.

Optional accessories are purchased separately.

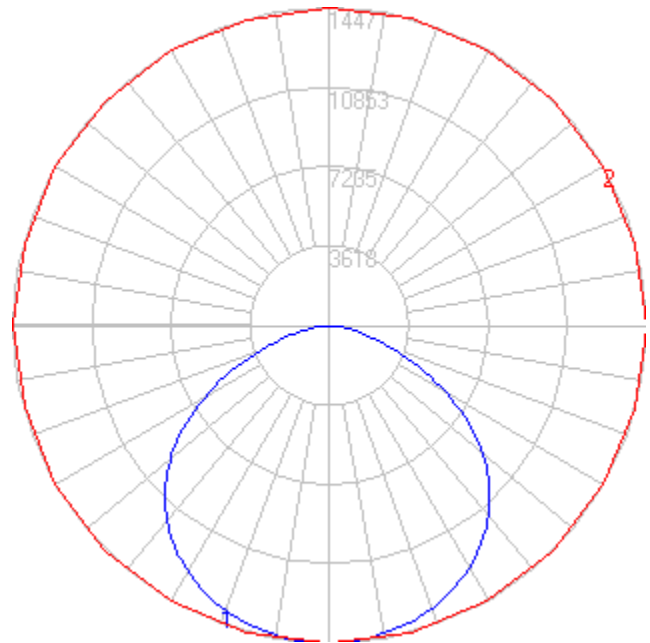
Performance Information

Input Voltage	120-277VAC, 347~480VAC (Option)
Input Frequency	50/60Hz
Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	See Performance Table
CRI	>70
Available CCT	4000K, 5000K
Projected L70	75,000+ hours
Power Factor	>0.9
THD	<20%
Dimming	1-10V
Operating Temp.	-40°~131°F

Photometric Data

300W @5000K

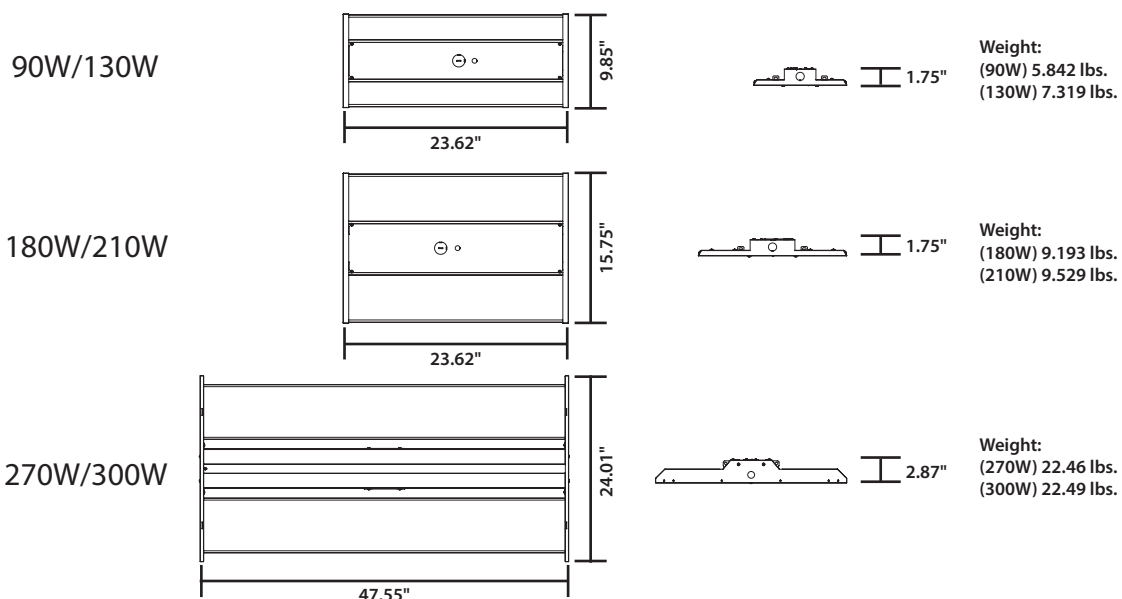
\* IESNA LM-63 IES Available



Performance Table

SKU	Wattage (W)	5000K	
		Delivered Lumens (lm)	Efficacy (lm/W)
LHB-EG22-90W-50-S-U-D	90	12600	140
LHB-EG22-130W-50-S-U-D	130	18500	142
LHB-EG22-180W-50-S-U-D	180	25200	140
LHB-EG22-210W-50-S-U-D	210	29000	138
LHB-EG24-270W-50-S-U-D	270	37000	137
LHB-EG24-300W-50-S-U-D	300	41500	138

Product Dimensions



Accessories



Hanging Wire Mount Kit  
(5ft. Aircraft Cable Included)  
(Included)



Pendant Mount Kit (3/4")  
(Available for 130W/180W/210W)  
[PM]



Bi-level Occupancy/  
Daylight Harvesting Sensor  
[M]



WATTSTOPPER®  
Occupancy Motion  
Sensor (FSP-311)  
[W]



TGS Wireless Configuration Tool  
(Sold Separately)  
[RC-RC-100]



8ft Three Wire Whip  
[88-WP8-3C]



Factory Installed  
Battery Backups  
8W or 16W Option  
[EM08 or EM16]

Control Pre-Commissioning

Default settings are indicated by \*

High-end Trim/ Tuning	Sensitivity Range	Time Delay	Daylight Harvesting	Stand-by Light Level Setting	Stand-by Time Setting
70%	20%	10s	<b>*Light sensor disabled</b> 1 FC (10 lux) 3 FC (30 lux) 5 FC (50 lux)	0%	∞
80%	50%	1min		*10%	1min
90%	75%	*5min		30%	30min
*100%	*100%	15min		50%	*60min

**High-End Trim/Tuning:**

Setting that determines the maximum lumen output through high-end trim tuning, can be reduced by up to 30 percent.

**Sensitivity Range:**

Setting that determines the sensitivity range of the motion sensor when the daylight sensor is disabled.

**Time Delay:**

The light can be set to stay ON for any period of time between approx. 10 sec. to a maximum of 60 min. Any movement detected before this time elapse will re-start the timer.

**Daylight Harvesting:**

The chosen light response threshold can be disabled or respond when photocell detects foot candle levels 1-5 FC

**Stand-by Light Level:**

Setting determines how much lumen output is dimmed down to when no motion is detected.

**Stand-by Time:**

Setting determines how long after stand-by light level occurs the light will shut off. Up to 60 minutes.

## Control Pre-Commissioning - WATTSTOPPER®



1. High Mode: When the sensor detects motion the dimming control output ramps up to the selected HIGH light level (default is 10V).
2. Low Mode: After the sensor stops detecting motion and the time delay expires the dimming control output fades down to the selected LOW light level (default is 1V).
3. Time Delay: The selected time period that must elapse after the last time the sensor detects motion for the electric lights to fade to LOW mode (default is 5 minutes).
4. Cut Off: The time period that must elapse after the lights fade to LOW mode and the sensor detects no motion for the electric lights to turn OFF (default is 1 hour).
5. Sensitivity: The response of the PIR detector to motion within the sensor's coverage area (default is max).
6. Setpoint: When enabled, the selectable ambient light level threshold that will hold the electric lights off or at LOW level when the sensor detects motion (default is disabled). The Auto option invokes an automatic calibration procedure to establish an appropriate setpoint based upon the contribution of the electric light. As part of this procedure, the controlled load is turned on for two minutes to warm up the lamp, and then switched off and on eight times, terminating in an off state. After this process, a new setpoint value is automatically calculated.

7. Hold Off: The selectable ambient light level threshold that will hold the lights off or at LOW level when the sensor detects motion (default is Disabled). A switch allows you to Enable or Disable this feature. If enabled, select Auto Format or Custom Value. If Custom is selected, the Range is 1 fc to 250 fc.

**Main Aisle 1**

Name  
Main Aisle 1

Basic

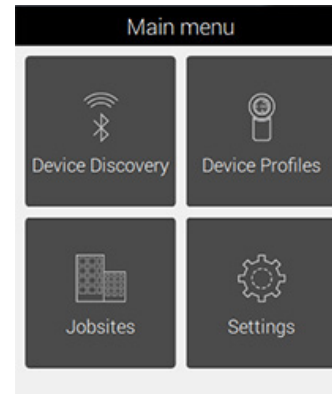
High Mode	9.0 Volts	>
Low Mode	4.0 Volts	>
Time Delay	6 Minutes	>
Cut Off	10 Minutes	>
Sensitivity	Med	>

Advanced

Save as Profile Upload

The Auto option invokes an automatic calibration procedure to establish an appropriate setpoint based upon the contribution of the electric light. As part of this procedure, the controlled load is turned on to warm up the lamp, and then it is switched off and on eight times, terminating in an off state. After this process, a new setpoint value is automatically calculated. During this time, communication to the FSP-3x1 is disabled.

8. Ramp Up Time: Time period for light level to increase from LOW to HIGH (default is disabled; lights switch instantly).



**The Sensor Configuration App is a convenient tool for setting up FSP-3x1 sensors. Adjustable settings can be changed as needed for specific applications.**



9. Fade Down Time: Time period for light level to decrease from HIGH to LOW (default is disabled; lights switch instantly).

Cut Off	10 Minutes	>
Sensitivity	Med	>

10. Photocell On/Off: When enabled, the sensor will force the load OFF after the light level has exceeded the selected photocell setpoint for at least a minute. It will also force the load ON when the light level goes below the setpoint, even if no motion is detected (default if disabled).

Advanced

Hold Off	Disabled	>
Ramp Up	Disabled	>
Fade Down	Disabled	>
Photocell	Disabled	>

Save as Profile

Once ON (initially at High), the load will dim to Low following the Time Delay, and to OFF following the Cut Off time. To ensure dusk to dawn control, Cut Off must be disabled.

The photocell On/Off setpoint is automatically set to maintain a deadband of at least 10 fc above the Hold Off Setpoint to prevent cycling if the two features are used together.