

## HEAVENLY LINEAR HIGH BAY



### PRODUCT DESCRIPTION

The HEAVENLY Linear High Bay is an attractive, durable and high efficient solution for a variety of industrial and commercial applications. The extruded aluminum construction enables optimal thermal control and longer system life in complex environments such as 150 °F (65 °C) ambient temperature. Wattstopper sensor and Enlighted intelligent control systems allow for precise light positioning putting the light exactly where you need it.

### FEATURE

- Reliable Philips LED driver
- Textured lens options minimizes high glare
- Achieves up to 150 °F (65 °C) ambient rating
- Performs at up to 180 lm/W
- Wattstopper sensor available
- Enlighted intelligent control systems
- 10kV surge suppression protection optional
- Fixture with polycarbonate lens is IK10 rated

### ELECTRICAL SYSTEM

- Input Voltage: 120-277V, 347/480V
- 50/60Hz
- 0-10V dimming
- Power Factor: > 0.98 at 120Vac
- Total Harmonic Distortion: < 20%
- Integral 6kV surge suppression protection standard
- Minimum Ambient -20°C, maximum Ambient is 65°C

### PERFORMANCE

CRI

80

CCT

3000K、 3500K、 4000K、 5000K

Dimming

0-10V Dimming Standard

Projected Lifetime

L70 - 144,000 Hours

Working Temperature

-4-150°F (-20-65°C)

Certifications

- cETLus
- Damp location
- DLC Premium\*
- RoHS compliant

\* DLC is only for 2ft.

### SPECIFICATION

#### 2FT HLHB

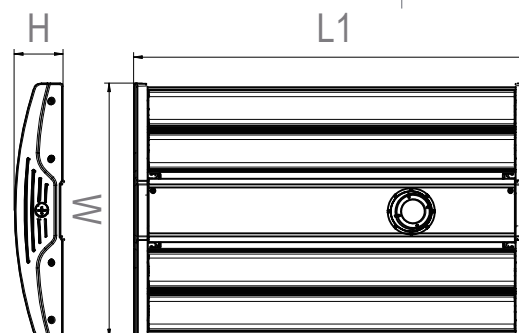
L1: 24.33"  
W: 16.25"  
H: 3.15"

#### 3FT HLHB

L1: 34.0"  
W: 16.25"  
H: 3.15"

#### 4FT HLHB

L1: 45.43"  
W: 16.25"  
H: 3.15"



## Ordering Information

### Example: HLHB02-175501-G

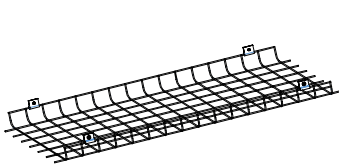
Series	Length	Watts	CCT	Voltage	Controls	Distribution	Lens
HLHB	02 - 2FT	65 - 65 Watts	30-3000K	1 - 120V-277V	Blank - None	G - General <sup>4</sup>	Ordered and shipped separately <sup>5</sup>
		95 - 100 Watts	35-3500K	6 - 347/480V	MS-L7W - Wattstopper		PCL - Polycarbonate ClearLens <sup>6</sup>
		135 - 135 Watts	40-4000K		Sensor with White L7 Lens <sup>1</sup>		PFL - Polycarbonate Frosted Lens
		175 - 175 Watts	50-5000K		EBU - Emergency Battery Backup <sup>2</sup>		AFL - Acrylic Frosted Len <sup>7</sup>
		220 - 210 Watts			MOD3-Enlighted 0-10V <sup>3</sup>		ACL - Acrylic Clear Lens <sup>8</sup>
	03 - 3FT	220 - 210 Watts			MSB - Bluetooth PIR sensor <sup>9</sup>		
		270 - 270 Watts					
		350 - 350 Watts					
		420 - 420Watts					
	04 - 4FT	220 - 210 Watts					N - Narrow <sup>4</sup> PCL - Polycarbonate ClearLens
		270 - 270 Watts					
		350 - 350 Watts					
		420 - 420Watts					

#### Notice:

- Dimming default setting is Bi-Level dim, 50% on vacancy and 100% on Occupancy. Besides, daylight sensor default setting is disable. If need other dimming levels such as 20% or 30% , ON/OFF sensor and daylight sensor functions please contact the Customer Service or please change the settings by yourself at site.
- Emergency battery backup is available in 10W with 1800lm @ 120-277V and works for a minimum of ninety (90) minutes. For ambient temperatures of 32°F-104°F(0°C-40°C). The emergency test button is pre-installed on fixture. The EBU is Title 20 compliant. Please contact Customer Service for special emergency requirement.
- Enlighted control is only for 120-277V and will take long time. Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems. "Gateway program" need to be purchased separately- Please Ask Customer Service in advance for Details.
- General distribution is standard. Narrow distribution is available but has MOQ requirement, please contact Customer Service if needed. Different lens for General distribution need to be ordered separately and field installed. Narrow Distribution only has PCL which will be installed on the fixture in factory.
- Lens for general distribution are ordered and shipped separately. Please refers to the accessory table for details.
- Polycarbonate clear lens is standard. If for polycarbonate frosted lens, acrylic clear and frosted lens, please contact customer service for lead time firstly.
- Acrylic frosted lens is not available with Narrow and Medium distribution.
- Acrylic clear lens is not available with Narrow and Medium distribution.
- The Bluetooth PIR sensor is for mounting height of 39.4ft (12m) max. It is only for 120-277V.

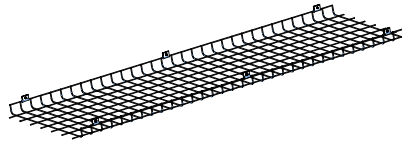
\* White end cap and aluminum finish body is standard. Custom color is available for a premium setup fee. Consult customer service for additional information

## Accessories (Ordered separately)



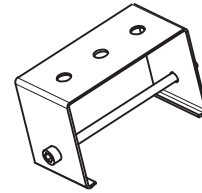
**90205**

HLHB02-WG  
Wire guard for 2ft heavenly  
linear high bay



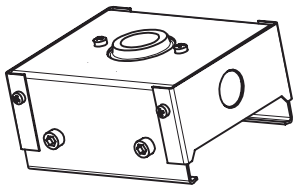
**90206**

HLHB04-WG  
Wire guard for 4ft heavenly  
linear high bay



**90207**

HLHB-CMK (a pair)  
Channel mounting kits for  
heavenly linear high bay



**90208**

HLHB-PMK  
Pendant mounting kits for  
heavenly linear high bay



**N/A**

V-clip pair  
A pair of V-clips for heavenly  
linear high bay  
  
Notices: V-clip mounting kits is standard and  
shipped together. All the other Accessories  
need to be ordered separately.



Picture is for Twist Lock Plug

**90097**

L5-15P 125V 15A Straight Plug  
10ft white (18AWGx3)

**90098**

L7-15P 277V 15A Twist Lock Plug  
10ft white (18AWGx3)

**90582**

L24-20P 347V 20A Twist Lock Plug  
10ft white (18AWGx3)

**90583**

L6-15P 250V 15A Twist Lock Plug  
10ft white (18AWGx3)

**91033**

L8-20P 480V 20A Twist Lock Plug  
10ft white (18AWGx3)



**90308**

AC10-HK-300YF  
Gripple Aircraft cable 10' with  
lock and hook, Y-fit (**one piece**)

Notices:

1. Please order two pieces for one fixture.
2. Please check a separate manual for details of Gripple Aircraft Cable.


**90252**

HLHB04-G-PFL

4 pieces of polycarbonate frosted lens for 4ft HLHB, general distribution

**90255**

HLHB04-G-PCL

4 pieces of polycarbonate clear lens for 4ft HLHB, general distribution

**90256**

HLHB04-G-AFL

4 pieces of acrylic frosted lens for 4ft HLHB, general distribution

**90257**

HLHB04-G-ACL

4 pieces of acrylic clear lens for 4ft HLHB, general distribution



HLHB03-G-PFL

4 pieces of polycarbonate frosted lens for 3ft HLHB, general distribution

HLHB03-G-PCL

4 pieces of polycarbonate clear lens for 3ft HLHB, general distribution

HLHB03-G-AFL

4 pieces of acrylic frosted lens for 3ft HLHB, general distribution

HLHB03-G-ACL

4 pieces of acrylic clear lens for 3ft HLHB, general distribution


**90258**

HLHB02-G-PFL

4 pieces of polycarbonate frosted lens for 2ft HLHB, general distribution

**90259**

HLHB02-G-PCL

4 pieces of polycarbonate clear lens for 2ft HLHB, general distribution

**90260**

HLHB02-G-AFL

4 pieces of acrylic frosted lens for 2ft HLHB, general distribution

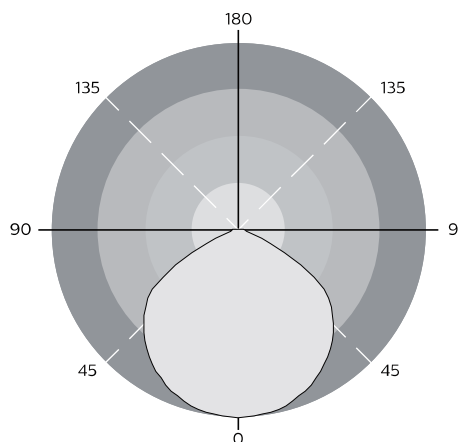
**90261**

HLHB02-G-ACL

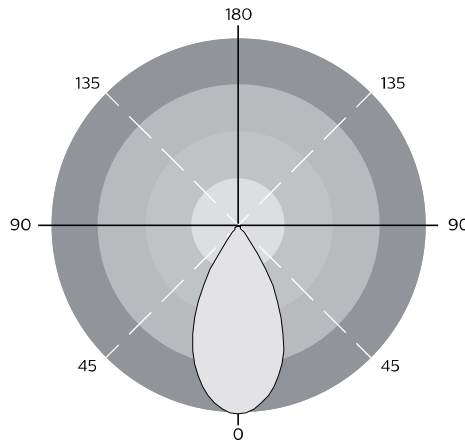
4 pieces of acrylic clear lens for 2ft HLHB, general distribution

## PHOTOMETRY

Distribution types for reference only.



**General**



**Narrow**

## PERFORMANCE DATA

### LUMEN OUTPUT

Lumen values are measured by third party certified laboratories performed in accordance with IESNA LM-79-08. Lumen efficacy is based on the ambient temperature of 77°F.

#### Without Lens

Series	Nominal Watts	Measured Watts	Lumen	CCT, Ra	Distribution	Lens	Efficacy	Maximum Ambient
2FT HLHB	65	65	11400	5000, 80	General	None	175	150 °F (65 °C)
	95	100	17500	5000, 80	General	None	175	150 °F (65 °C)
	135	135	23600	5000, 80	General	None	175	150 °F (65 °C)
	175	175	31500	5000, 80	General	None	180	150 °F (65 °C)
	220	210	37800	5000, 80	General	None	180	140 °F (60 °C)
3FT	220	210	37800	5000, 80	General	None	180	140 °F (60 °C)
HLHB	270	270	47300	5000, 80	General	None	175	140 °F (60 °C)
	350	350	61250	5000, 80	General	None	175	131 °F (55 °C)
	420	420	73500	5000, 80	General	None	175	113 °F (45 °C)
4FT	220	210	37800	5000, 80	General	None	180	150 °F (65 °C)
HLHB	270	270	47300	5000, 80	General	None	175	150 °F (65 °C)
	350	350	63000	5000, 80	General	None	180	150 °F (65 °C)
	420	420	75600	5000, 80	General	None	180	150 °F (65 °C)

Lens	Lumen Multiplier
None	1
Clear Polycarbonate (PCL)	0.91
Acrylic Clear (ACL)	0.93
Polycarbonate Frosted (PFL)	0.88
Acrylic Frosted (AFL)	0.89

#### With Polycarbonate Clear Lens

Series	Nominal Watts	Measured Watts	Lumen	CCT, Ra	Distribution	Lens	Efficacy	Maximum Ambient
2FT HLHB	65	65	10340	5000, 80	General	PCL	159	150 °F (65 °C)
	95	100	15900	5000, 80	General	PCL	159	150 °F (65 °C)
	135	135	21470	5000, 80	General	PCL	159	150 °F (65 °C)
	175	175	28700	5000, 80	General	PCL	164	150 °F (65 °C)
	220	210	34440	5000, 80	General	PCL	164	150 °F (65 °C)
3FT	220	210	34440	5000, 80	General	PCL	164	140 °F (60 °C)
HLHB	270	270	42930	5000, 80	General	PCL	159	140 °F (60 °C)
	350	350	55650	5000, 80	General	PCL	159	131 °F (55 °C)
	420	420	66780	5000, 80	General	PCL	159	113 °F (45 °C)
4FT	220	210	34440	5000, 80	General	PCL	164	150 °F (65 °C)
HLHB	270	270	42930	5000, 80	General	PCL	159	150 °F (65 °C)
	350	350	57400	5000, 80	General	PCL	164	150 °F (65 °C)
	420	420	68880	5000, 80	General	PCL	164	140 °F (60 °C)

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperature from -4-150°F (-20-65°C)

Ambient		Multiplier
Celsius	Fahrenheit	
0	32	1.02
25	77	1.00
40	104	0.98
50	122	0.97
60	140	0.95
65	150	0.94

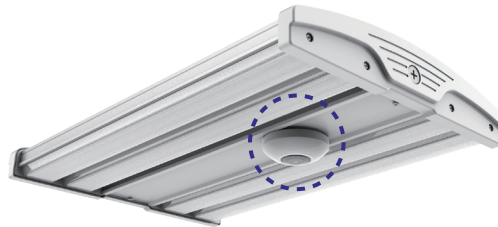
### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the Heavenly Linear High Bay in a 77°F ambient, (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

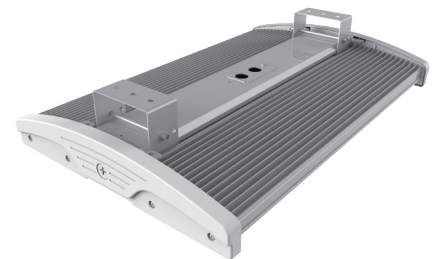
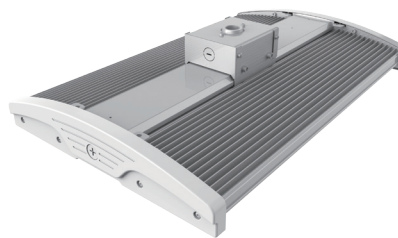
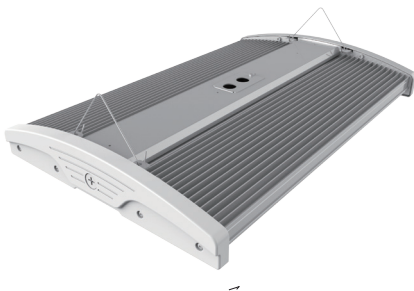
Operating Hours	10,000H	18,000H	35,000H	144,000H
Lumen Maintenance Factor	0.98(L98)	0.96(L96)	0.92(L92)	0.70(L70)



- **Wattstopper**  
Multi-level Motion Sensor
- **Bluetooth**  
Wireless PIR sensor



- **Enlighted** Sensor



- **V Hook** Mounting

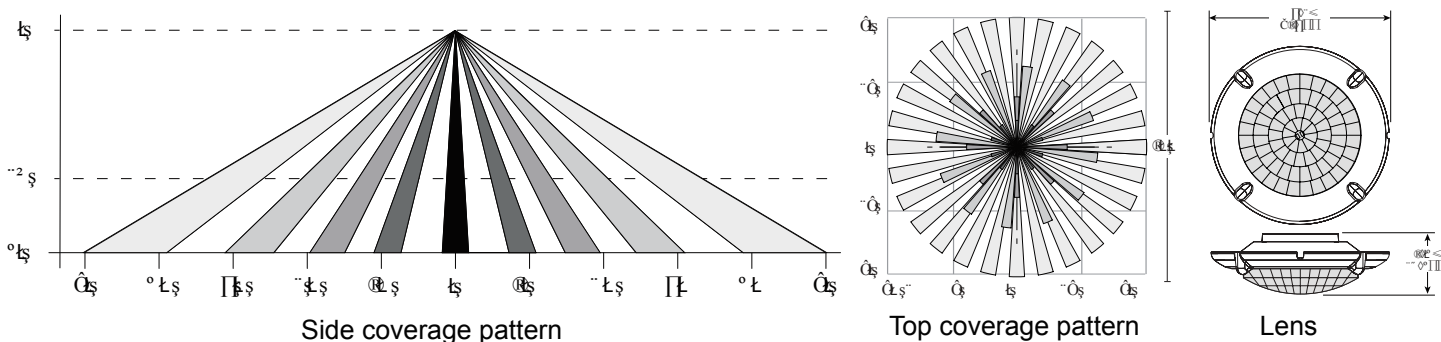
- **Pendant** Mounting

- **Channel** Mounting

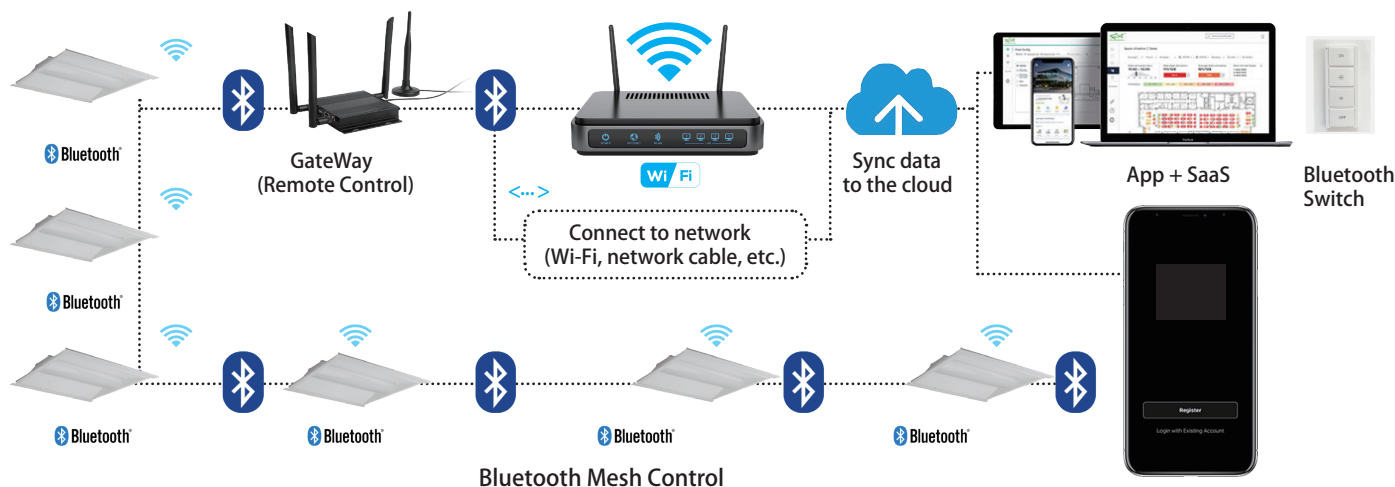
## MULTI-LEVEL MOTION SENSOR (MS-L7W)

The fixture with occupancy sensor raises or lowers the electric lighting level to high, low or off based on motion and/or daylight contribution. Typically, once the sensor stops detecting movement and the time delay elapses, lights will first fade to low mode, and eventually switch off. When motion is detected, the sensor ramps the light level to high mode unless the daylight contribution is sufficient. The integral photocell can also switch the lights on and off for dusk to dawn control, so that lighting remains on overnight even without motion detection.

The L7 lens provides maximum coverage of 100 feet diameter mounted at 40 feet height. Please see below drawing for lens side and top coverage and dimensionn.



## BLUETOOTH MICROWAVE MOTION SENSOR (BRI823-B-D-BLE)



## Warranty

Five year limited warranty. Full warranty terms located at [www.abovealllighting.com/warrantystatements](http://www.abovealllighting.com/warrantystatements)

Specifications subject to change without notice.