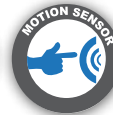




HEAVENLY LINEAR HIGH BAY



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 65°C ambient temperature. Motion sensor wireless control unit, emergency battery backup are available. Modular design, multiple lens configurations and numerous mounting options allow for precise light positioning putting the light exactly where you need it.

FEATURES

1. Textured lens options minimizes high glare.
2. Achieves up to 149 °F (65 °C) ambient rating.
3. Performs at up to 180 lm/W.
4. 10kV surge suppression protection optional.

SPECIFICATION

2FT HLHB

4FT HLHB

L1: 24"

L1: 45.5"

L2: 4.92"

L2: 4.92"

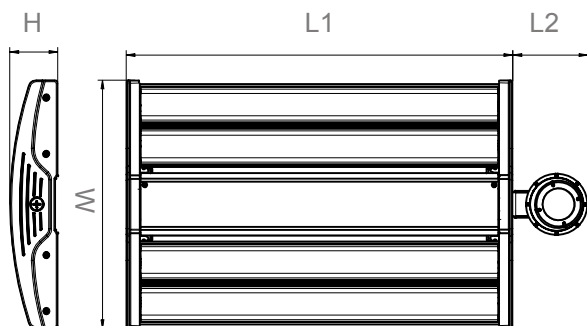
W: 16.25"

W: 16.25"

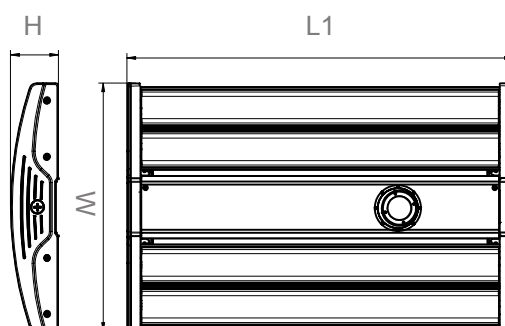
H: 3.15"

H: 3.15"

For MS-L7W, MSO & MSW (end mounted)



For MS-L7WI (built-in mounted)



Ordering Information

Example: HLHB02-175501-G

Series	Length	Watts	CCT	Voltage	Controls	Distribution	LENS
HLHB	02 - 2FT ¹	65 - 65 Watts	35-3500K	1 - 120V-277V	Blank - None	G - General ¹¹	Ordered and shipped separately ¹²
	04 - 4FT ²	95 - 100 Watts	40-4000K	6 - 347/480V	MS-L7W - End Mounted Motion Sensor with White L7 Lens ⁷		PCL - Polycarbonate Clear Lens ⁴
		135 - 135 Watts			MS-L7WI - Built in Motion Sensor with White L7 Lens ¹⁰		PFL - Polycarbonate Frosted Lens
		175 - 175 Watts			MSO - ON/OFF Motion Sensor ⁸		AFL - Acrylic Frosted Len ⁵
		220 - 210 Watts			MSW- Microwave Dimming Sensor ⁹		ACL - Acrylic Clear Lens ⁶
		270 - 270 Watts			EBU - Emergency Battery Backup ³		
		350 - 350 Watts					

Notice:

- 2FT HLHB is available from 65W to 210W
- 4FT HLHB is available from 210W to 350W
- Emergency battery backup is available in 10W with 1800lm @ 120-277V. For ambient temperatures of 32°F-104°F(0°C-40°C). The emergency test button is pre-installed on fixture. 347/480V is not for emergency battery backup.
- 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
- MS-L7W is mounted at the end of fixture.
- MSO is mounted at the end of fixture.
- MSW is mounted at the end of fixture. It is only with 120-277V.
- MS-L7WI is built in mounted. It is only with 120-277V.
- General distribution is standard. Medium and narrow distributions are available, please contact Customer Service if needed.
- Lens for general distribution are ordered and shipped separately. Please refers to the accessory table for details.

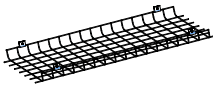
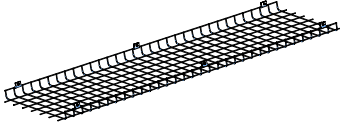
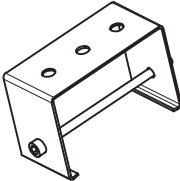
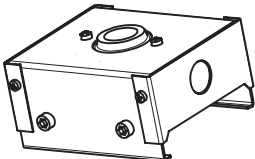






Built In Sensor



End Mounted Sensor

Accessories (ordered separately)

SKU	MODEL	IMAGE (for reference)	DESCRIPTION
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		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 ¹
90097	LHB 120V Plug and Cord		6 feet 120V molded plug and cord for LHB with pipe clamp for strain relief

SKU	MODEL	IMAGE (for reference)	DESCRIPTION
90098	LHB 277V Plug and Cord		6 feet 277V molded plug and cord for LHB with pipe clamp for strain relief
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
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

Notice:

1. V-clip mounting kits is for standard mounting and shipped together. All the other Accessories need to be ordered separately.
2. Wire guard is not suitable for MS-L7WI.

PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are estimated with LED data sheet

Series	Nominal Watts	Measured Watts	Lumen	CCT, Ra	Distribution	Lens	Efficacy	Maximum Ambient
2FT HLHB	65	65	11400	5000, 80	General	None	175	65°C
	95	100	17500	5000, 80	General	None	175	65°C
	135	135	23600	5000, 80	General	None	175	65°C
	175	175	31500	5000, 80	General	None	180	65°C
	220	210	37800	5000, 80	General	None	180	65°C
4FT HLHB	220	210	37800	5000, 80	General	None	180	65°C
	270	270	47300	5000, 80	General	None	175	65°C
	350	350	63000	5000, 80	General	None	180	65°C

Lens	Lumen Multiplier
None	1
Clear Polycarbonate (PCL)	0.90
Acrylic Clear (ACL)	0.93
Acrylic /Polycarbonate	0.89
Frosted (AFL/PFL)	

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperature from -4-149°F (-20-65°C)

Series	Nominal Watts	Measured Watts	Lumen	CCT, Ra	Distribution	Lens	Efficacy	Maximum Ambient
2FT HLHB	65	65	10260	5000, 80	General	PCL	158	65°C
	95	100	15800	5000, 80	General	PCL	158	65°C
	135	135	21330	5000, 80	General	PCL	158	65°C
	175	175	28350	5000, 80	General	PCL	162	65°C
	220	210	34000	5000, 80	General	PCL	162	65°C
4FT HLHB	220	210	34000	5000, 80	General	PCL	162	65°C
	270	270	42660	5000, 80	General	PCL	158	65°C
	350	350	56700	5000, 80	General	PCL	162	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	149	0.94

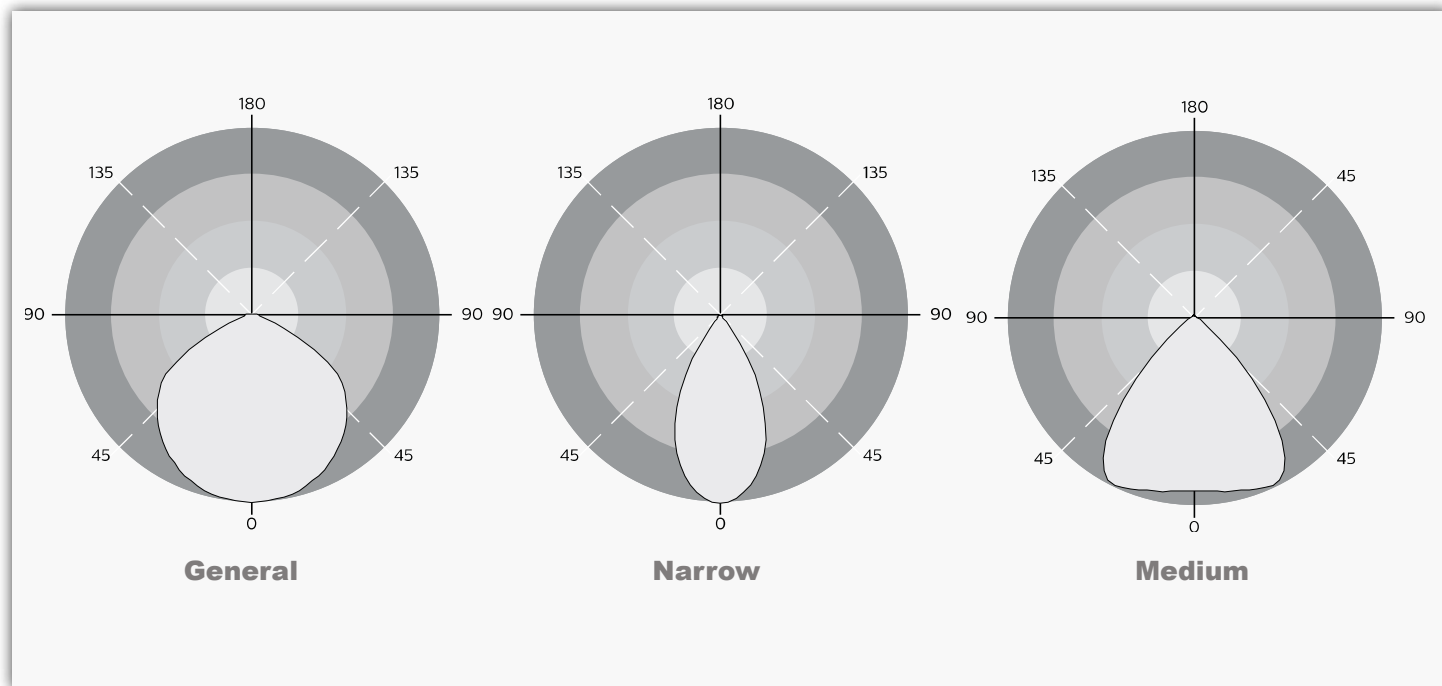
Projected LED Lumen Maintenance

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	23,000H	39,000H	73,000H	292,000H
Lumen Maintenance Factor	0.98(L98)	0.96(L96)	0.92(L92)	0.70(L70)

Photometry

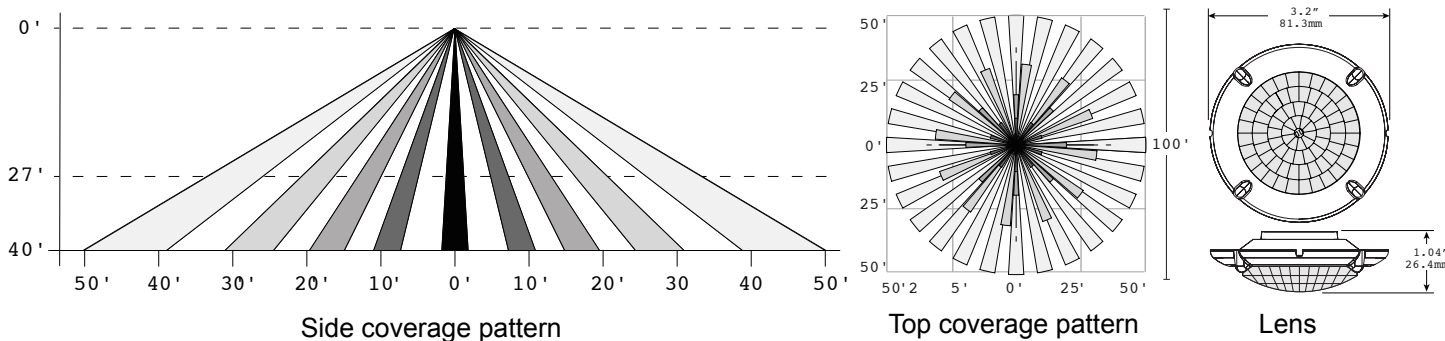
Distribution types for reference only



MULTI-LEVEL MOTION SENSOR (MS-L7W & MS-L7WI)

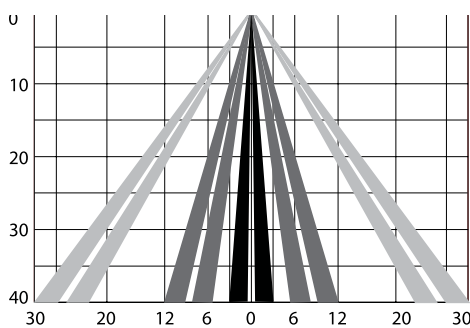
The fixture with occupancy sensor raises or lowers the electric lighting level to high, low or off based on motion and/or daylight contribution. Typically, once the sensor stops detecting movement and the time delay elapses, lights will first fade to low mode, and eventually switch off. When motion is 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

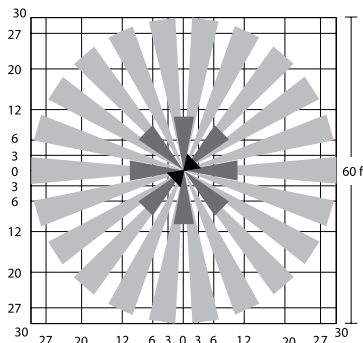


ON/OFF MOTION SENSOR (MSO)

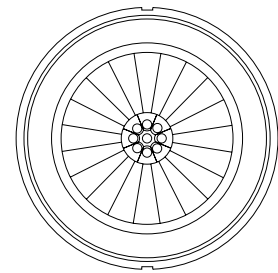
The ON/OFF occupancy sensor is end mounted. When motion is detected within the sensor's coverage area, lighting loads turn on automatically. When motion is no longer detected for the duration of the time delay setting, the lighting load is turned off. The sensitivity and time delay settings are factory preset at 100% and 15 minutes, respectively, which are suitable for most high bay applications. However, the values can be easily adjusted for specific applications using the DIP switches on the unit. Refer to the Installation Instructions for changing factory preset values, and for important start up instructions.



Side coverage pattern



Top coverage pattern



Lens

MICROWAVE DIMMING SENSOR (MSW)

1. Microwave Occupancy Sensor
2. 3 Step dimming function, 100% --Low Light--off
3. Wide detection area, range up to 16m (52.4ft) in diameter and mounting height 15m(49.2ft) max

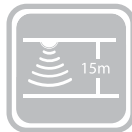
Notes: To guarantee normal operation, the recommended mounting height is 12m (40ft) Max.



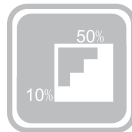
Max.8M (26.2ft)



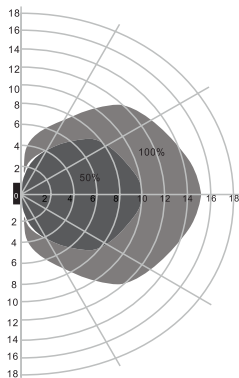
Hold Time
5s~30min



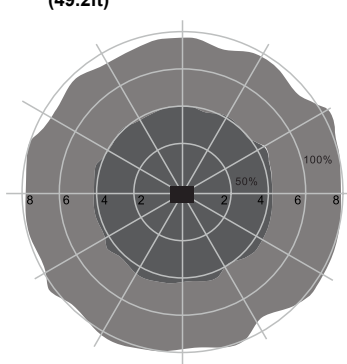
Mounting Height
15m Max.
(49.2ft)



Automatic
Dimming

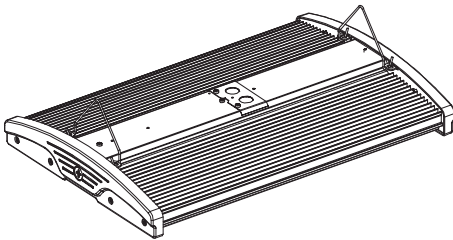


Wall mounting pattern (Unit: m)

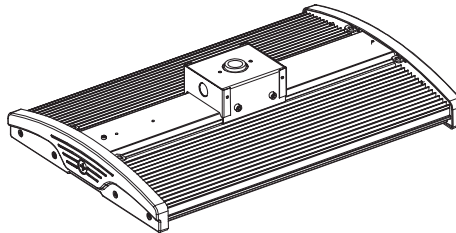


Ceiling mounting pattern (Unit: m)

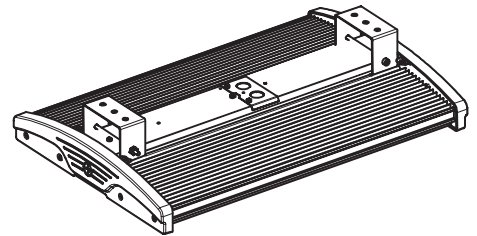
MOUNTING



V Hook Mounting



Pendant Mounting



Channel Mounting

Ref#: 12954-10419

PRODUCT SPECIFICATIONS

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.

CERTIFICATIONS AND QUALIFICATIONS

- cETLus
- Damp location
- DLC Premium¹
- RoHS compliant

Warranty

Ten year limited warranty. Full warranty terms located at www.abovealllighting.com/warrantystatements

Note:

1. DLC Premium is listed for 2ft, 175W and 210W, in General and acrylic clear lens. The others are still in process. Specifications subject to change without notice.