



HBBA-M

LED Basic Linear High Bay, 90 W to 300 W



The HBBA-M series is a basic, low-budget warehouse and high-bay lighting fixture. The linear, compact design allows the HBBA-M to maintain a stylish and aesthetically pleasing appearance while maintaining durability and saving up to 66% in energy costs compared to conventional light sources. An excellent thermal management system effectively extends the life of the fixture, making it ideal for warehousing, large indoor spaces, retail and commercial applications.



SPECIFICATION FEATURES

Construction

- Rugged cold-rolled steel plate corrosion-resistant housing.
- Ultra-Compact, Sturdy Design saves freight and space on lifts and racks during installation.
- Visual comfortable light comes from a simple contour.

Optics

- Semi-frosted Diffuser for max lumen output.
- Prismatic diffuser for least glare light.
- The aisle optics for a excellent vertical illumination in areas such as aisles.

Electrical

- Universal 120-277 VAC or 347/480 VAC input voltage.
- 0-10V dimming driver standard for 10% to 100% dimming.
- 6KV surge protection.
- Operating temperature is -40°C to 50°C (-40°F to 122°F).

Note: Operating with emergency battery temperature range:
0°C to 50°C (+32°F- +122°F).

Mounting

- Steel wire rope mount (default).
- Pendant mount (option).
- Surface mount (option).

Warranty

- Five-year limited warranty.

Controls

- Optional Occupancy sensor, Microwave sensor, Multifunction Sensor or daylight sensor.
- Optional Bluetooth sensor or Bluetooth controller.
- Silvair Luminaire Level Lighting Control (LLLC) optional.
- Sharkward Luminaire Level Lighting Control (LLLC) optional.
- Haisen Luminaire Level Lighting Control (LLLC) optional.
- Also compatible with 3rd party smart network control system.
- Compatible with high end trim.

Lifespan

- Estimated 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Certifications

- UL cUL damp location listed.
- DesignLights Consortium™ Qualified.

Note: Please refer to the DLC website for specific product qualifications at www.designlights.org.

Note

- Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C(±5°C) specifications subject to change without notice.



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Threaded Conduit

Support wires coming from the hole for easier wire connections.

Emergency Battery

Work during power outages, for emergency lighting.

Housing

Advanced thermal management aluminum alloy with white coat finish. Available for pendant mount or sling mount.

Diffuser Panel

3 types of diffusers are available:
Semi-frosted diffuser for max lumens;
Prismatic diffuser for least glare light;
The aisle optics for a excellent vertical illumination in areas such as aisles.

PIR Sensor

Optional PIR sensor allows for security and energy saving.



DIMENSION

unit: mm/inch

Weight:

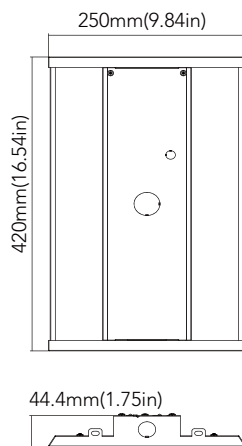
90W: 2.1kg(4.63 lbs)

130W: 2.1kg(4.63 lbs)

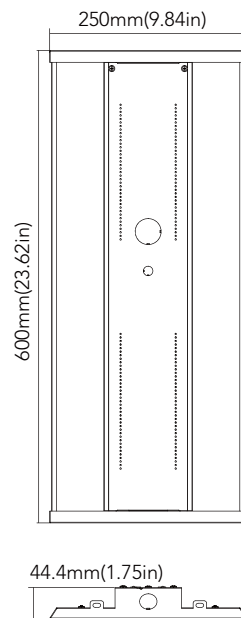
175W: 2.57kg(5.67 lbs)

210W: 2.86kg(6.30 lbs)

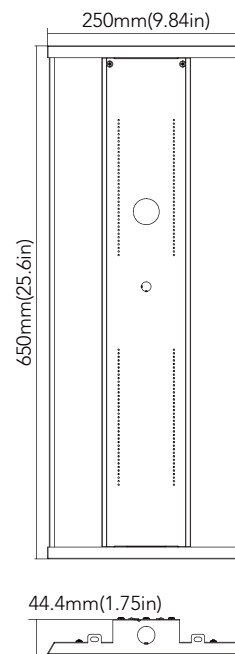
270W/300W: 4.09kg(9.02 lbs)



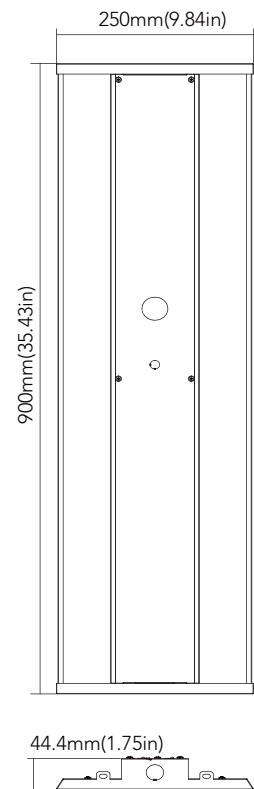
90W/130W



175W



210W



270W/300W



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PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	LENS	4000K(CRI70)		5000K(CRI70)		DLC
			LUMENS	LPW	LUMENS	LPW	
90W	120-277VAC 347-480VAC	Semi-frosted Diffuser	12700lm	141 lm/W	12700lm	141 lm/W	Standard
		Prismatic Diffuser	12500lm	139 lm/W	12500lm	139 lm/W	Premium
		Aisle Optic	12000lm	133 lm/W	12000lm	133 lm/W	/
130W	120-277VAC	Semi-frosted Diffuser	18600lm	143 lm/W	18600lm	143 lm/W	Standard
		Prismatic Diffuser	18000lm	138 lm/W	18000lm	138 lm/W	Premium
		Aisle Optic	16500lm	127 lm/W	16500lm	127 lm/W	/
145W	347/480VAC	Semi-frosted Diffuser	19100lm	132 lm/W	19200lm	132 lm/W	Standard
		Prismatic Diffuser	20000lm	138 lm/W	20000lm	138 lm/W	Premium
		Aisle Optic	16800lm	116 lm/W	16800lm	116 lm/W	/
175W	120-277VAC	Semi-frosted Diffuser	25000lm	143 lm/W	25000lm	143 lm/W	Standard
		Prismatic Diffuser	25000lm	143 lm/W	25000lm	143 lm/W	Premium
		Aisle Optic	22800lm	130 lm/W	22800lm	130 lm/W	/
185W	347/480VAC	Semi-frosted Diffuser	25300lm	137 lm/W	25300lm	137 lm/W	Standard
		Prismatic Diffuser	26000lm	141 lm/W	26000lm	141 lm/W	Premium
		Aisle Optic	23000lm	124 lm/W	23000lm	124 lm/W	/
210W	120-277VAC	Semi-frosted Diffuser	30600lm	146 lm/W	30600lm	146 lm/W	Standard
		Prismatic Diffuser	30500lm	145 lm/W	30500lm	145 lm/W	Premium
		Aisle Optic	28000lm	133 lm/W	28000lm	133 lm/W	/
220W	347/480VAC	Semi-frosted Diffuser	31000lm	141 lm/W	31000lm	141 lm/W	Standard
		Prismatic Diffuser	31000lm	141 lm/W	31000lm	141 lm/W	Premium
		Aisle Optic	28200lm	128 lm/W	28200lm	128 lm/W	/
270W	120-277VAC	Semi-frosted Diffuser	37000lm	137 lm/W	37000lm	137 lm/W	Standard
		Prismatic Diffuser	38000lm	141 lm/W	38000lm	141 lm/W	Premium
		Aisle Optic	34000lm	126 lm/W	34000lm	126 lm/W	/
278W	347/480VAC	Semi-frosted Diffuser	37500lm	135 lm/W	37500lm	135 lm/W	Standard
		Prismatic Diffuser	38500lm	138 lm/W	38500lm	138 lm/W	Premium
		Aisle Optic	34200lm	123 lm/W	34200lm	123 lm/W	/
300W	120-277VAC	Semi-frosted Diffuser	41500lm	138 lm/W	41500lm	138 lm/W	Standard
		Prismatic Diffuser	42000lm	140 lm/W	42000lm	140 lm/W	Premium
		Aisle Optic	36000lm	120 lm/W	36000lm	120 lm/W	/
310W	347/480VAC	Semi-frosted Diffuser	42000lm	135 lm/W	42000lm	135 lm/W	Standard
		Prismatic Diffuser	42800lm	138 lm/W	42800lm	138 lm/W	Premium
		Aisle Optic	36200lm	116 lm/W	36200lm	116 lm/W	/



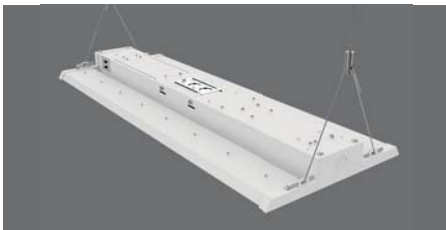
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ELECTRICAL DATA

NUMBER OF DRIVERS	DRIVER CURRENT (mA)	NOMINAL POWER (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	850	90	120	0.75
		90	208	0.43
		90	240	0.38
		90	277	0.32
1	2400	90	347	0.26
		90	480	0.19
1	1200	130	120	1.08
		130	208	0.63
		130	240	0.54
		130	277	0.47
		145	347	0.42
		145	480	0.30
1	1060	175	120	1.46
		175	208	0.84
		175	240	0.73
		175	277	0.63
		185	347	0.53
		185	480	0.39
1	1060	210	120	1.75
		210	208	1.01
		210	240	0.88
		210	277	0.76
		220	347	0.63
		220	480	0.46
2	2400	270	120	2.25
		270	208	1.30
		270	240	1.13
		270	277	0.97
		278	347	0.80
		278	480	0.58
2	2400	300	120	2.50
		300	208	1.44
		300	240	1.25
		300	277	1.08
		310	347	0.89
		310	480	0.65

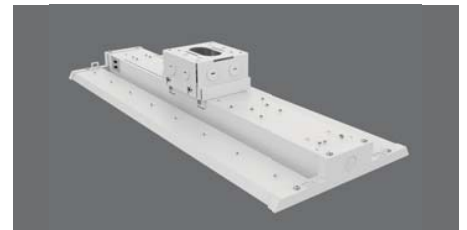
MOUNTING



Mounting With Steel Wire Rope



Conduit Pendant Mount



Surface Mounting



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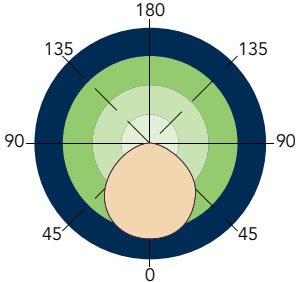
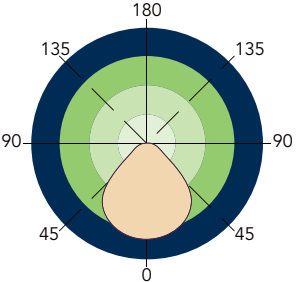
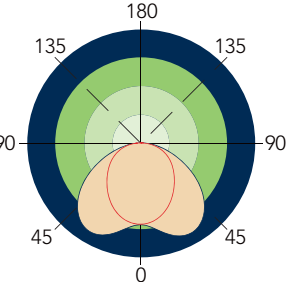
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ACCESSORIES (Optional)

 PIR Sensor, 120-277V PIR sensor: BRI823-B-D Bluetooth PIR sensor: BRI823-B-D-BLE-SR	 Plug-and-Play PIR Sensor PIR sensor: MHANT12VPH01 Bluetooth PIR sensor: MHANT12VPHB01 Suit for 210W	 Emergency Battery Backup USE: 8W, 900lm, 90min, suite for 90W, 130W.	 Emergency Battery Backup USE: 15W, 2000lm, 90min, suite for 175W, 210W, 270W, 300W.
 Steel Wire Rope USE: Chain mounting.	 Pendant Hanger USE: Pendant with 3/4" conduit.	 Wire Guards	

OPTICS OPTIONS

Various optics diffusers and mounting options covering all your application needs.

 Semi-frosted Diffuser (High efficacy)	 Prismatic Diffuser (Low glare)	 Textured Diffuser (Aisle Optic)
 General Optic	 General Optic	 Aisle Optic



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ORDERING GUIDE

Example: HBBA-M 210W27V50KYYYY

Fixture Type	Wattage	Voltage	CCT	Lens	Sensor (Option)	Backup Battery (Option)	Surge Protector	Internal Code
HBBA-M Linear high bay series	90W	27V 120-277V	40K 4000K	CD	M PIR Sensor	B Emergency Battery	S With Surge Protector	Blank
	130W	48V 347/480V	50K 5000K	Semi-frosted Diffuser	Blank	Blank	Blank	Alphanumeric
	145W			PD Prismatic Diffuser	Without Sensor	Without Emergency Battery	Without Surge Protector	
	175W			AL Aisle Optic				
	185W							
	210W							
	220W							
	270W							
	278W							
	300W							
	310W							

- Note: 1. Pendant and surface mounting isn't supported with emergency battery.
2. 90W and 130W suit for 8W Emergency Battery; 175W, 210W, 300W suit for 15W Emergency Battery.
3. The Watt is 130W when the voltage is 120-277V, while when it is 347V/480V, the watt is 145W.
4. The Watt is 175W when the voltage is 120-277V, while when it is 347V/480V, the watt is 185W.
5. The Watt is 210W when the voltage is 120-277V, while when it is 347V/480V, the watt is 220W.
6. The Watt is 270W when the voltage is 120-277V, while when it is 347V/480V, the watt is 278W.
7. The Watt is 300W when the voltage is 120-277V, while when it is 347V/480V, the watt is 310W.

Disclaimer:

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