



HBL SERIES

LINEAR HIGH BAY

INTRODUCTION

The FGE-HBL Series Linear High Bay is a high-performance lighting fixture specifically designed for high-ceiling environments. Combining modern industrial aesthetics with efficient optical design, it provides stable, uniform, and energy-saving illumination for various large-area applications.

Equipped with high-efficacy LED chips and advanced linear optics, it delivers up to 150 lm/W, ensuring even, glare-free lighting while significantly reducing energy consumption.

Built with a high-strength aluminum alloy housing, the fixture offers excellent heat dissipation and corrosion resistance. Its linear structure provides uniform light distribution along long aisles or between tall racks, making it ideal for warehouses, logistics centers, industrial workshops, large retail stores, gymnasiums, and exhibition halls.

It supports multiple installation methods, including chain suspension, surface mounting, and pendant installation, offering flexibility and ease of maintenance.



FEATURES



Wattage Selectable: Multi-wattage options in a single fixture for flexible applications and reduced inventory.



CCT Tunable: Adjustable color temperature to suit diverse environments.



High Efficacy & Energy Saving: Up to 150 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.



QUICK & EASY

Easy Installation and Maintenance:

Reduce installation time and maintenance labor, effectively lowering overall operational costs.



SENSOR

Factory Built-in Sensor Options: Provides smart lighting control to improve energy efficiency and convenience.



EMERGENCY
BACKUP

90 Minutes EM Back-up Options:

Ensuring safety and visibility during critical moments.



RELIABLE
WARRANTY

Reliable Warranty: 5 / 7 / 10 Years Warranty Options.

- Advanced Optical Design:

High-transmittance PC lens with 90° beam options, ensuring uniform illumination and glare reduction.

- Robust Protection:

IK08 impact resistance for harsh industrial environments.

- Superior Thermal Management:

Die-cast cold-rolled steel housing with optimized heat sink for reliable performance.

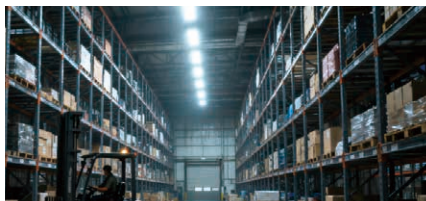
- Versatile Mounting Options:

Chain, lifting rope, and pole mounting for flexible installation.

- Wide Input Voltage:

AC120-277V, suitable for global power grids.

APPLICATIONS



Warehouses & Logistics Centers: High-rack aisle lighting with high uniformity and energy efficiency.



Industrial Plants & Manufacturing Workshops: High-bay environments resistant to dust, vibration, and temperature variations.



Sports Arenas & Gymnasiums: Large indoor venues requiring uniform, flicker-free illumination.



Airport & Railway Station Halls: High-ceiling public spaces with long operation hours and difficult maintenance.



Municipal Halls & Exhibition Centers: Large public spaces such as convention and exhibition centers.



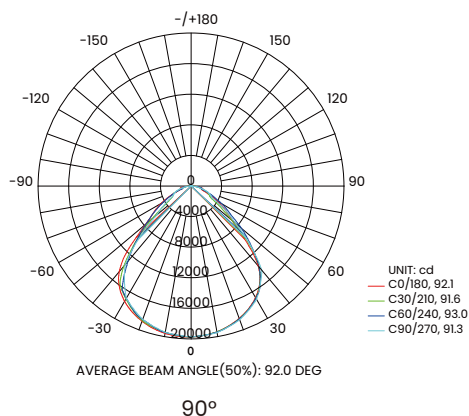
Commercial Complexes & Showrooms: Large retail stores and automobile showrooms with functional and presentation lighting needs.

TECHNICAL PARAMETERS

Product Model	HBL-165W	HBL-225W	HBL-300W	HBL-500W
Electrical Performance				
Wattage Selectable	165W/120W/90W	225W/165W/120W	300W/225W/165W	500W/400W/300W
Input Voltage	AC120-277V	AC120-277V	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9	>0.9
Surge Protection	4KV	4KV	4KV	4KV
THD	<20%	<20%	<20%	<20%
Optical Performance				
Luminous Efficacy	150lm/W	150lm/W	150lm/W	150lm/W
Luminous Flux	24750lm/18000lm/13500lm	33750lm/24750lm/18000lm	45000lm/33750lm/24750lm	75000lm/60000lm/45000lm
CCT Selectable	4000K/5000K	4000K/5000K	4000K/5000K	3500K/4000K/5000K
CRI	Ra>80	Ra>80	Ra>80	Ra>80
Beam Angle	90°	90°	90°	90°
Unified Glare Rating (UGR)	<28	<28	<28	<28
Reliability				
Lifetime	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C
Operating Temperature	-40 ~ +45°C	-40 ~ +45°C	-40 ~ +45°C	-40 ~ +45°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP20	IP20	IP20	IP20
Impact Resistance	IK08	IK08	IK08	IK08
Control				
Dimming	0-10V/DALI	0-10V/DALI	0-10V/DALI	0-10V/DALI
Sensor	Motion Sensor	Motion Sensor	Motion Sensor	Motion Sensor
Communication Protocol	Bluetooth/Zigbee/LoRa	Bluetooth/Zigbee/LoRa	Bluetooth/Zigbee/LoRa	Bluetooth/Zigbee/LoRa
Emergency Kit	30W/40W Battery Backup	30W/40W Battery Backup	30W/40W Battery Backup	30W/40W Battery Backup
Mechanical				
Housing Material	Cold-rolled Steel	Cold-rolled Steel	Cold-rolled Steel	Cold-rolled Steel
Lens Material	PMMA	PMMA	PMMA	PMMA
Coating	White	White	White	White
Net Weight	3.2kg	3.2kg	6.2kg	9.7kg
Dimensions	626x323x51mm	626x323x51mm	1166x323x51mm	1160x325x53mm
Warranty	5/7/10 Years	5/7/10 Years	5/7/10 Years	5/7/10 Years

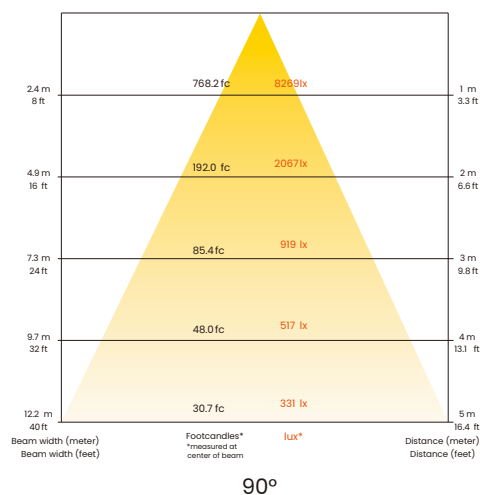
PHOTOMETRICS

Luminous Intensity Distribution Diagram

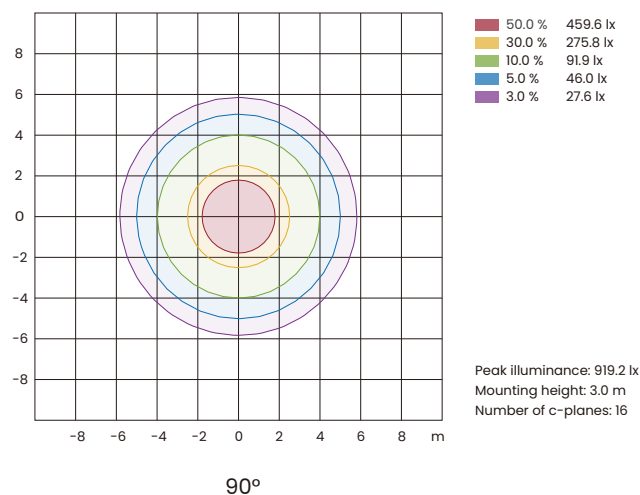


ILLUMINANCE DISTRIBUTION

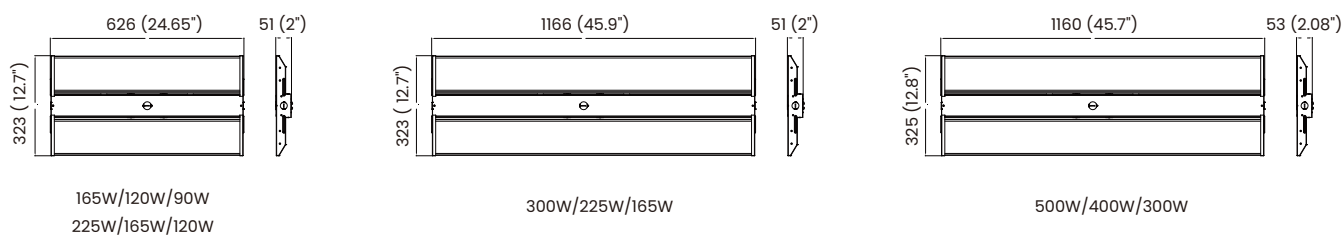
Illuminance at A Distance



Iso-illuminance Diagram (Iso-lux)



MECHANICAL DIMENSIONS

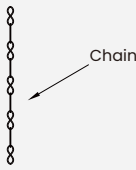


Product Model	HBL-165W	HBL-225W	HBL-300W	HBL-500W
Wattage Selectable	165W/120W/90W	225W/165W/120W	300W/225W/165W	500W/400W/300W
Outer box (L*W*H)	660x360x320mm (26.0"x14.2"x12.6")	660x360x320mm (26.0"x14.2"x12.6")	1260x360x190mm (49.6"x14.2"x7.5")	1194x355x135mm (47.0"x14.0"x5.3")
Q'ty/Ctn	4pcs	4pcs	2pcs	2pcs
N.W./Ctn	3.2kg/7.1lbs	3.2kg/7.1lbs	6.2kg/13.6lbs	9.7kg/21.38lbs
G.W./Ctn	14.8kg/32.6lbs	14.8kg/32.6lbs	14.5kg/31.7lbs	10.8kg/23.81lbs
Remarks	-	-	-	-

INSTALLATION

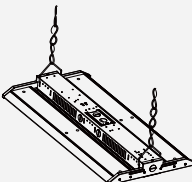
Chain Installation

1. Hook the chain as below pic.

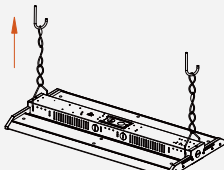


Chain

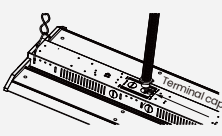
2. Insert the hook into the slotted holes, as shown below.



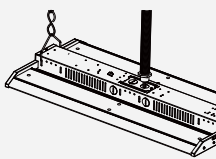
3. Hook up the chain on the ceiling anchor.



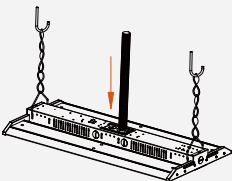
4. Turn off power, and make wiring connections with terminal cap (see wiring instruction below).



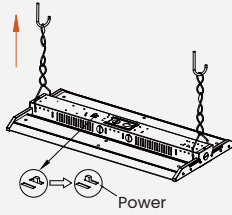
5. Insert the terminal cap and wires into the driver box.



6. Insert the wire terminal joint to the wire entry. Installation completed.



7. CCT/Power Changing.



Power

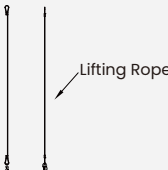
TO SOURCE
120-277V
120-347V
347-480V

AC-L (BLACK)	AC-N (WHITE)	GRD (GREEN)	FIXTURE	PINK (DIM-)	PURPLE (DIM+)
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DIMMING

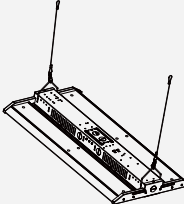
Lifting Rope Installation

1. The hanging rope is shown below.

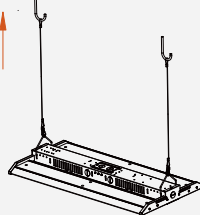


Lifting Rope

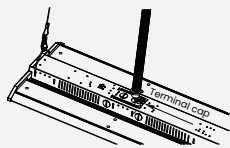
2. Insert the hook into the slotted holes, as shown below.



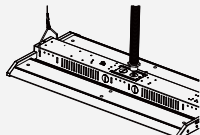
3. Hook the other end of Lifting rope to the ceiling anchor.



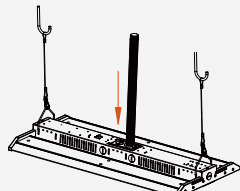
4. Turn off power, and make wiring connections with terminal cap (see wiring instruction below).



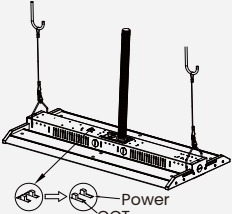
5. Insert the terminal cap and wires into the driver box.



6. Insert the wire terminal joint to the wire entry. Installation completed.



7. CCT/Power Changing.



Power
CCT

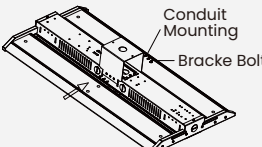
TO SOURCE
120-277V
120-347V
347-480V

AC-L (BLACK)	AC-N (WHITE)	GRD (GREEN)	FIXTURE	PINK (DIM-)	PURPLE (DIM+)
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DIMMING

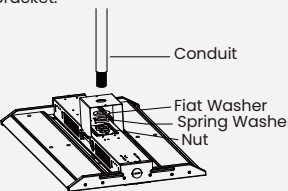
Pole Mounting Installation Instruction

1. Screw the conduit mounting bracket to the fixture.



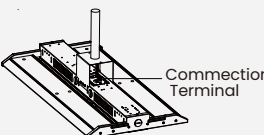
Conduit Mounting
Bracket Bolt

2. Lock the conduit with flat washer+ spring washer+nut on the mounting bracket.



Conduit
Flat Washer
Spring Washer
Nut

3. Wiring according to the circuit diagram.



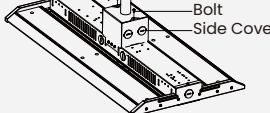
Connection Terminal

TO SOURCE
120-277V
120-347V
347-480V

AC-L (BLACK)	AC-N (WHITE)	GRD (GREEN)	FIXTURE	PINK (DIM-)	PURPLE (DIM+)
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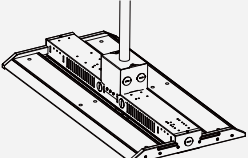
DIMMING

4. Screw the side covers to conduit mounting bracket.

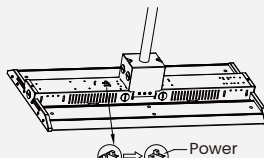


Bolt
Side Cover

5. Pole Mounting installed.



6. CCT/Power Changing.

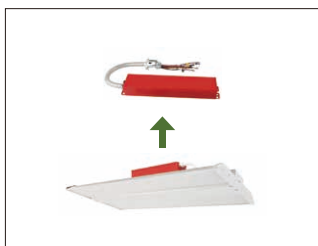


Power

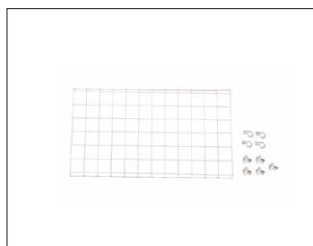
ACCESSORIES



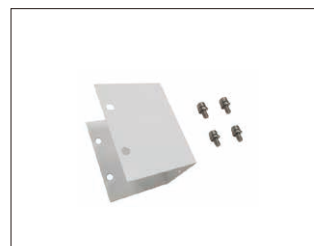
Plug & Play
Motion Sensor



90 Minutes
EM Back-up



Wire Guard



Pendant Mount Kit

ORDER INFORMATION

HBL-YY-YY-YY

1
2 3
4 5
6 7

1 HBL Series Linear High Bay

2 Wattage

165W	165W/120W/90W
225W	225W/165W/120W
300W	300W/225W/165W
500W	500W/400W/300W

3 Color Temperature

40K	4000K
50K	5000K
XXK	4000K/5000K
TCP	3500K/4000K/5000K

4 Voltage

(Blank)	120-277V
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5 Dimmable

D	0-10V Dimming
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6 Optics

(Blank)	90°
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7 Control

(Blank)	Sensor Socket
S	Sensor
C	Control Module



WARRANTY PERIOD
5/7/10 YEARS
WARRANTY OPTIONS



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT