



HBF SERIES

NSF HIGH BAY

INTRODUCTION

The FGE-HBF Series NSF High Bay is a high-performance LED luminaire engineered for food processing areas, cleanrooms, and other environments requiring strict hygiene control. Its NSF-certified design features a smooth, seamless housing that prevents dust and bacteria buildup while allowing for easy cleaning and maintenance.

Built with high-quality materials and advanced sealing technology, the fixture ensures long-term durability and resistance to corrosion, moisture, and temperature variations. It maintains reliable performance even under demanding conditions such as high humidity or low temperatures.

Delivering exceptional brightness and energy efficiency, it provides uniform and safe illumination for food plants, cold storage facilities, and pharmaceutical production areas. It is the ideal lighting solution where hygiene, safety, and performance are top priorities.



FEATURES



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



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.



Corrosion Resistant Housing: Designed for durability and protection against rust, chemicals, and environmental wear. Warranty Options.



Superior Heat Dissipation: Die-cast aluminum housing with optimized heat sink for reliable performance.



Plug & Play Motion Sensor Options: Provides smart lighting control to improve energy efficiency and convenience.



90 Minutes EM Back-up Options: Ensuring safety and visibility during critical moments.



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

- Advanced Optical Design:

High-transmittance PC lens with 110° beam options, ensuring uniform illumination and glare reduction.

- Robust Protection:

IP65 waterproof & dustproof, IK08 impact resistance for harsh industrial environments.

- Versatile Mounting Options:

Hook, pole, and ring mounting for flexible installation.

- Wide Input Voltage:

AC120-277V, suitable for global power grids.

APPLICATIONS



Freezers and Dry Storage Areas: Designed for consistent illumination in extremely low temperatures and humidity-controlled environments.



Poultry Processing Areas: Ensures bright, hygienic lighting for inspection and food-handling operations in washdown conditions.



Cold Storage: Maintains reliable performance and energy efficiency under continuous low-temperature operation.



Production Floor: Provides uniform, glare-free lighting to enhance visibility, safety, and productivity during manufacturing processes.



Non-food Zone Area Application: Suitable for supporting areas such as packaging, maintenance, and equipment rooms requiring durable, efficient lighting.



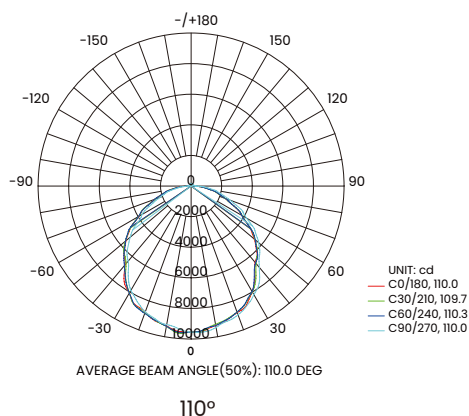
Sanitary Areas: Engineered with corrosion-resistant, easy-to-clean housings to meet hygiene and safety standards in clean environments.

TECHNICAL PARAMETERS

Product Model	HBF-150W	HBF-185W
Electrical Performance		
Wattage	150W/120W/100W Selectable	185W
Input Voltage	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9
Surge Protection	4KV	4KV
THD	<20%	<20%
Optical Performance		
Luminous Efficacy	150lm/W	150lm/W
Luminous Flux	22500lm/18000lm/15000lm	27000lm
CCT	5000K	5000K
CRI	Ra>80	Ra>80
Beam Angle	110°	110°
Unified Glare Rating (UGR)	<28	<28
Reliability		
Lifetime	>100,000h, L70 @25°C	>100,000h, L70 @25°C
Operating Temperature	-40 ~ +45°C	-40 ~ +45°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP69K	IP69K
Impact Resistance	IK08	IK08
Control		
Dimming	0-10V/DALI	0-10V/DALI
Sensor	Motion Sensor	Motion Sensor
Communication Protocol	Bluetooth/Zigbee/LoRa	Bluetooth/Zigbee/LoRa
Emergency Kit	30W/40W Battery Backup	30W/40W Battery Backup
Mechanical		
Housing Material	Aluminum	Aluminum
Lens Material	Polycarbonate	Polycarbonate
Coating	White, corrosion-resistant powder coating, compliant with ASTM B117 salt spray testing	
Net Weight	5.96kg	6.1kg
Dimensions	442x442x190mm	442x442x190mm
Warranty	5/7/10 Years	5/7/10 Years

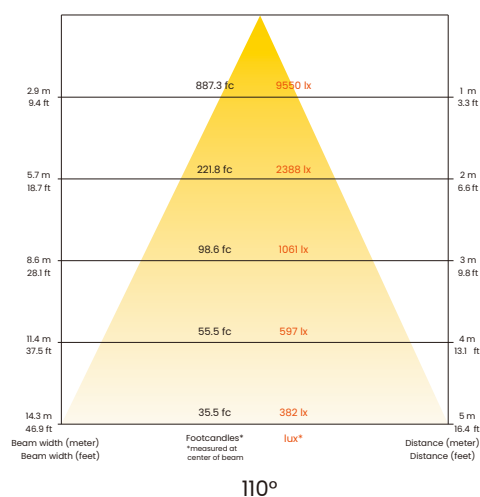
PHOTOMETRICS

Luminous Intensity Distribution Diagram

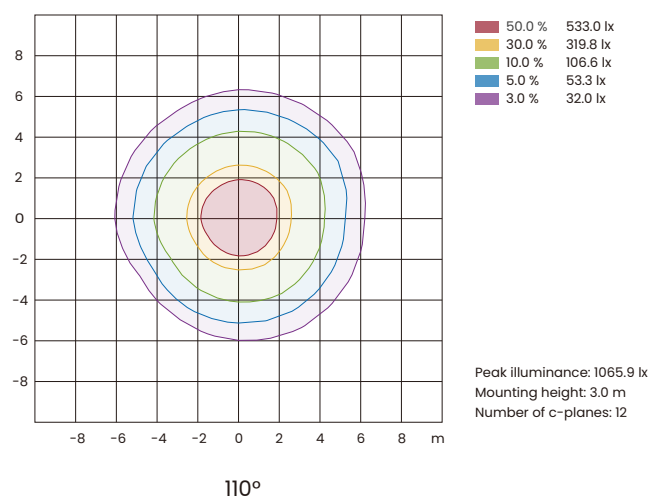


ILLUMINANCE DISTRIBUTION

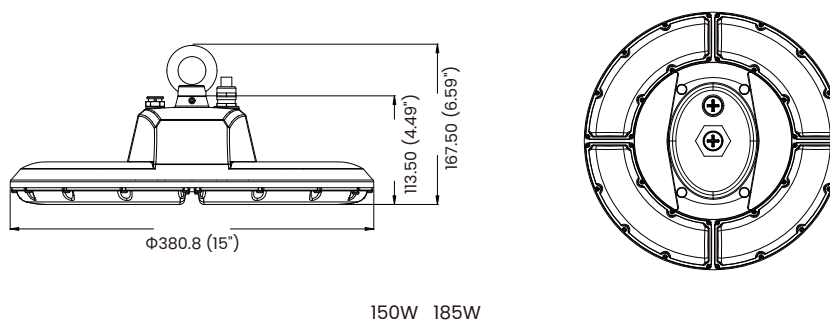
Illuminance at A Distance



Iso-illuminance Diagram (Iso-lux)



MECHANICAL DIMENSIONS

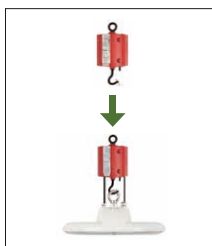


Product Model	HBF-150W	HBF-185W
Wattage	150W/120W/100W Selectable	185W
Outer box (L*W*H)	442x442x190mm (17.4"x17.4"x7.48")	442x442x190mm (17.4"x17.4"x7.48")
Q'ty/Ctn	1pc	1pc
N.W./Ctn	4.76kg/10.5lbs	4.9kg/10.8lbs
G.W./Ctn	5.96kg/13.15lbs	6.1kg/13.44lbs
Remarks	1.8M cable	1.8M cable

ACCESSORIES



Plug & Play
Motion Sensor



90 Minutes
EM Back-up

ORDER INFORMATION

HBF-YY-YY-YY-Y

1 2 3 4 5 6 7 8

1 HBF Series NSF High Bay

2 Wattage

150W	150W/120W/100W
185W	185W

3 Color Temperature

50K	5000K
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4 Voltage

(Blank)	120-277V
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5 Dimmable

D	0-10V Dimming
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6 Optics

(Blank)	110°
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7 Control

(Blank)	Sensor Socket
S	Sensor
C	Control Module

8 Options

(Blank)	1.8M cord
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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