HMU SERIES

HIGH TEMP | COLD STORAGE | NSF HIGHBAY

Project:	
Type:	
Catalog #:	

NSF | IP67 | c UL us LISTED | USDA | L70 25°C 178,000 Hours

The HMU LED high-bay is a third generation fixture designed by FX Lighting for the harsh environments found in food processing and heavy manufacturing facilities. This industrial grade fixture is an ideal replacement for traditional 400W–1000W metal halide fixtures providing up to 70% energy savings.

PERFORMANCE

Lumen Output	18,000-39,000 lumens
Lifespan	L70>178,000 Hours
Ambient Temperature	-40°F to 149°F (-40°C to 65°C)
Warranty	5 Years
Efficacy	Up to 150 LPW
Power Washing	Up to 1600 PSI

ELECTRICAL

Operating Voltage	120-480V
Input Frequency	50/60Hz
Input Wattage	120-260W
Surge Protection	10kV (10kA or 20kA Optional)
Dimming	0-10V
Power Input	Standard 10' Yellow Cable (5-conductor wire to pigtails)

CONSTRUCTION

IP Rating	IP67
IK Rating	IK10 (pending)
Weight	22.8lbs (10.3kg)
Dimensions	17"H x 18"W
Housing	Die Casted Aluminum Alloy
Finish	High Efficiency Heat Dissipating Powder Coat
Lens	Shatterproof, Polycarbonate
NPT	3/4" Female

OPTICAL

CRI	≥80 (90 Optional)
CCT	4000K, 5000K
Beam Angle	90°, 120°

Emergency Battery Backup

- Minimum 90-Minute Duration
- 16W 2400 Lumen
- Temperature Range from 50°F to 122°F (10°C to 50°C)
- 120-277V only

Applications

- FOOD & BEVERAGE PROCESSING
- MANUFACTURING & DISTRIBUTION
- LIVESTOCK FARMING

Model	Lumen Pkg	Distribution	Voltage	Internal Surge Protector	Control Option	CCT	CRI	Mounting	Finish
HMU	**18**=18,000 **23**= 22,500 **30**=30,000 **39**=39,000	**M**=Medium (90°) Δ **W**=Wide (120°)	**LV**=120-277v **HV**=277-480v Δ	**Leave Blank**= Standard 10kV **S1**=10kA SP 120-277V **S2**=20kA SP 120-277V **S3**=20kA SP 277-480V	**Leave Blank**= No Controls **C1**=Programmable internal motion sensor Δ	**I**=4000K **C**=5000K	**80**=80 CRI **90**=90 CRI	**HK**=Hook Mount **PM**=Pendant Mount Adapter	**G**=Gray **W**=White

Options & Accessories

Options

Options	Description
M3	Bulkhead mini receptacle, 3 wire, Male Δ
M5	Bulkhead mini receptacle, 5 wire, Male Δ
EM	Emergency Battery Backup *see restrictions* Δ
YX	5 conductor yellow wire that is X feet long
WX	5 conductor white wire that is X feet long
S10	Aircraft Safety Cable 10'
S16	Aircraft Safety Cable 16'

Plugs

Plugs	Description
P3	3pin Mini Connector Male Plug
P5	5pin Mini Connector Male Plug
5P	120v Plug Δ
L6P	Locking 208/240v Plug Δ
L7P	Locking 277v Plug Δ
W5P	Watertite 120v Plug
W6P	Watertite Locking 208/240v Plug
W7P	Watertite Locking 277v Plug

Cordsets (Order Separately)

Order Code	Description
MIN-3FP-6	3 Conductor Female 6' Cable to Pigtails
MIN-5FP-6	5 conductor Female 6' Cable to pigtails
MIN-3MFP-6	3 conductor Female 6' Cable to Male
MIN-5MFP-6	5 Conductor Female 6' Cable to Male

Δ Option Value
Ordering Restrictions

EM Backup is not supported by HV fixtures

EM Backup temperature range 10-50°C (50-122°F)

Plug options 5P, L6P, L7P are not IP rated

MD lens option is only IP66 rated

Please see page 6 for control programming options

Cordset options are only suitable for M3/M5 bulkhead options

HMU Characteristics

Lumen Package	Wattage				Amp Draw				Diameter	Height	Height with Hook	Comparable Light Source
	120V	277V	347V	480V	120V	277V	347V	480V				
18L	120	116	114	115	1.03	0.44	0.34	0.25	17.93"	16.97"	20.94"	250W MH, 6-lamp T8 HBF, 4-lamp T5HO
23L	156	152	150	149	1.30	0.56	0.43	0.31	17.93"	16.97"	20.94"	400W MH, 6-lamp T5HO
30L	203	194	196	195	1.69	0.72	0.58	0.42	17.93"	16.97"	20.94"	575W MH, 10-lamp T8 HBF
39L	267	259	260	256	2.25	0.97	0.78	0.55	17.93"	16.97"	20.94"	750W MH, 8-lamp T5HO

Projected Lumen Maintenance

HMU 18L | 23L | 30L | 39L						
Operating hours	0	10,000	30,000	50,000	70,000	100,000
Lumen maintenance factor	1	0.99	0.96	0.92	0.89	0.84

Ambient Temperature Ratings

Lumen Package	Fixture	with MS	with EM
18L | 23L | 30L | 39L	-40°C to 65°C	-40°C to 65°C	10°C to 50°C

HMU Emergency Backup Information (5000K, CRI)

Lens	FX Order Code	EM Manufacturer	EM Driver Part	EM Battery Part	Field Installable	Lumen Output
Wide	EM	Fulham	FHS2-UNV-36L	FHSBATL6-1.5	No	2400LM
Medium	EM	Fulham	FHS2-UNV-36L	FHSBATL6-1.5	No	2560LM

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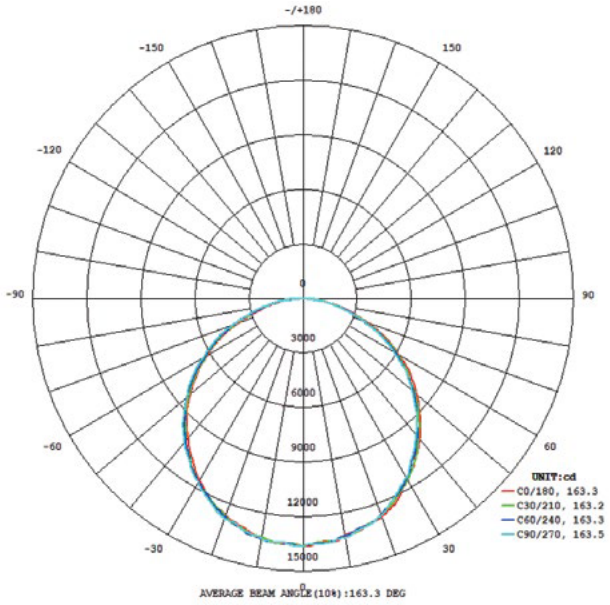
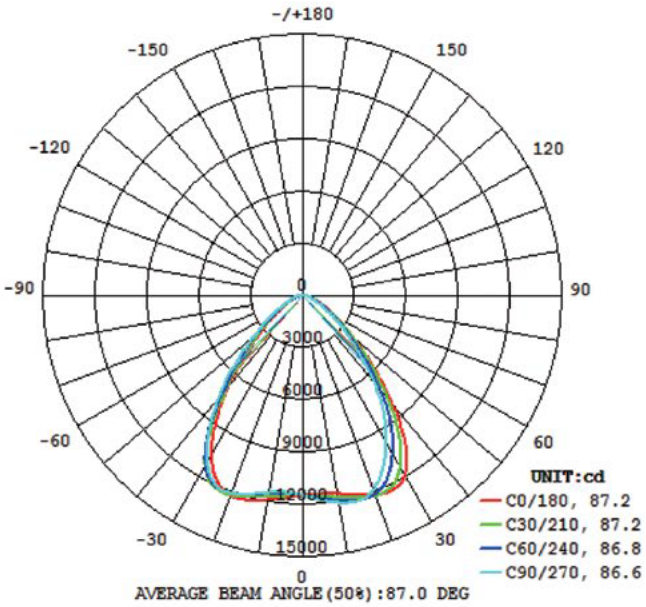
HMU WIDE Light Distribution



HMU MEDIUM Light Distribution

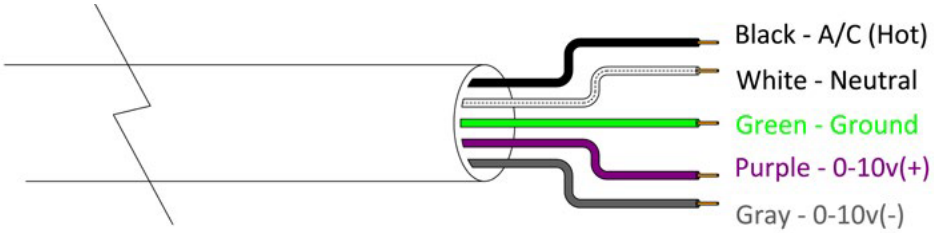


Surge Protection Device Information

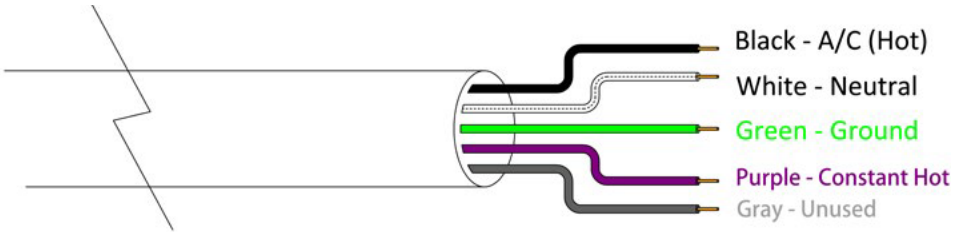
Order Code	S1	S2	S3
Model	SP1	PU-20KS10KHT	DS-PS-20KS10KHT
Manufacturer	Philips	Inventronics	Inventronics
Operating Voltage	120-277V	120-277V	277-480V
Input Frequency	50/60Hz	50/60Hz	50/60Hz
Maximum Discharge Current (Imax)	10kA, 8/20µs	20kA, 8/20µs	20kA, 8/20µs
Nominal Discharge Current (In)		10kA, 8/20µs	10kA, 8/20µs
Open Circuit Voltage		20kV	20kV
Measured Limiting Voltage (L-N)		2600V	3000V
Measured Limiting Voltage (L-G, N-G)		2000V	3000V
Net Weight		50g	60g
Operating Temperature		-40ºC to 85ºC	-40ºC to 85ºC
Dimensions		0.6"x1.1"x11.8"	0.7"x1.1"x11.8"
Number of Surges			
20 kA		1	1
10 kA		15	15
4 kA		100	100
2 kA		500	500
1 kA		1,000	1,000

Specifications and dimensions subject to change without notice.

Wiring Diagram



Emergency Wiring Diagram



Sensor Options

Options	Functions	Description
Brightness	70% / 80% / 90% / 100%	The time the fixture remains at programmed light level if motion is not detected
Hold Time	10s / 1m / 5m / 10m / 15m / 20m / 30m / 60m	
Sensitivity	20% / 50% / 75% / 100%	Sensitivity of occupancy sensor
StandBy Time	1m / 30m / 60m	Step dimming options after fixture does not detect movement
Stand by Dim	0% / 10% / 30% / 50%	

Packaging Dimensions

	Box	Pallet
Qty - FIXTURES	2	32
Size	23"L x 29"W x 23"H	57"L x 45"W x 94"H
Weight	52lbs	850lbs

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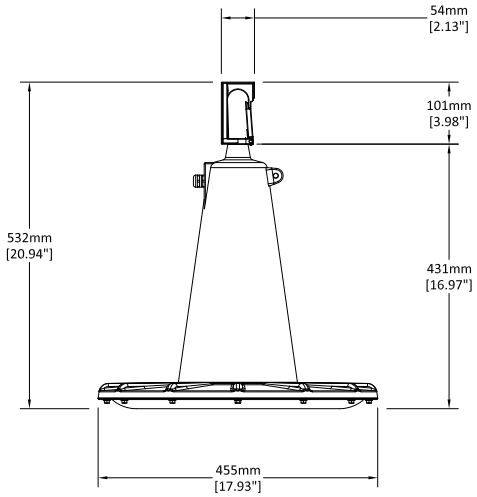
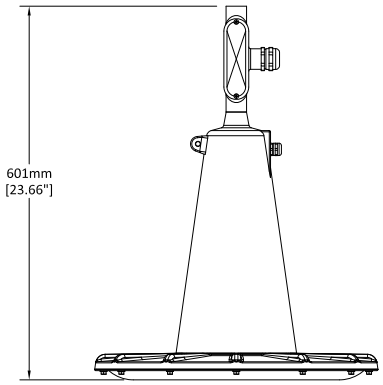
Dimensional Data

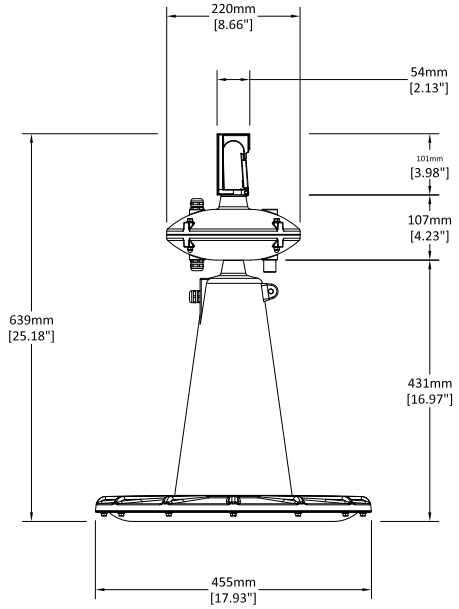
HMU with Hook



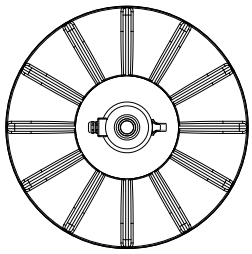
HMU with Pendant Mount Adapter



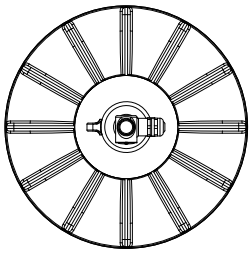
HMU with EM and Hook



Top View



Top View



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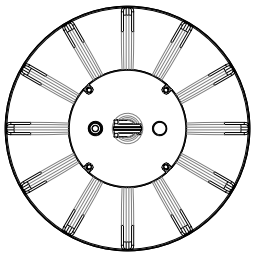
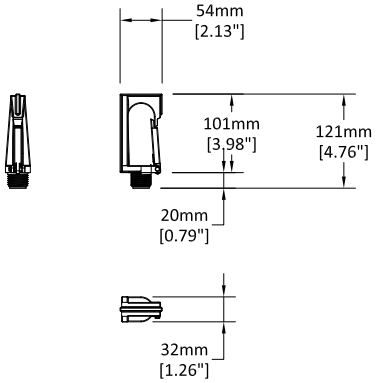
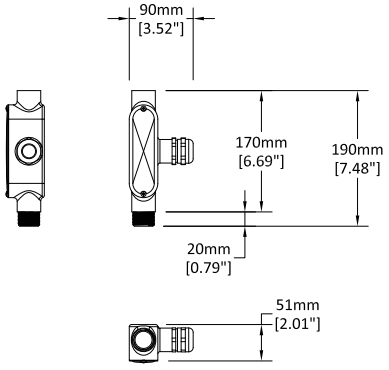


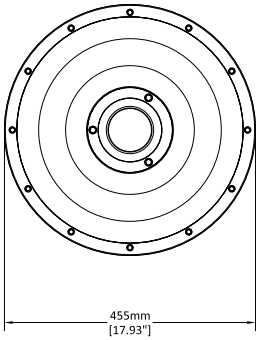
Hook



Pendant Mount Adapter



Bottom View



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