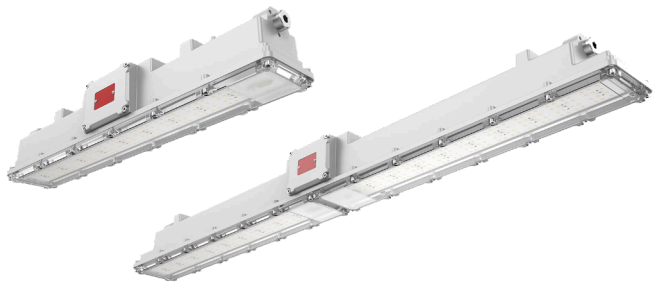
LIH Series

LED Hazardous Location Linear Light (Marine Grade)

Project:	
Type:	
Catalog # :	

FME Lighting | 877 - 234 - 8460 | info@fmelighting.com

c UL us LISTED · IECEx · CSA · Ex · WET · 5 YEAR · IP66 IK08



SPECIFICATIONS

VOLTAGE	100-277VAC / 277-480VAC 50 / 60 Hz
WATTAGE	30W, 40W, 50W, 60W, 70W, 80W, & 100W
COLOR TEMP	Red/Green/Blue/Amber/5000K 2000, 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K, 5700K, 6500K
OPERATING TEMP	See Chart on Page 4.
HOUSING	Fiberglass Reinforced Polycarbonate
LENS	Clear Polycarbonate / Diffused Polycarbonate
DRIVER TYPE	Constant Current (CC)
POWER FACTOR	>0.9
CRI	Ra70/Ra80/Ra90
LED LIFESPAN	Minimum 50,000h
DIMMING	1-10V Dimming* **30W,40W & 50W Dimming is only available on 100-277VAC*
PROTECTION	IP66 & IK08 • *LIH-3/4/5 - 4kV line-line, 6kV line-earth* • *LIH-6/7/8/10 - 6kVline-line, 10kVline-earth*
WARRANTY	5 Year Limited Warranty

CERTIFICATIONS

- Class I, Division 2
- *Groups A, B, C, D*
- Class II, Division 2
- *Groups F, G*
- Class III
- UL844
- UL 50 / UL 50E
- UL 1598 / UL 1598A
- UL8750
- UL924
- CSA C22.2 No.94.1
- CSA C22.2 No.94.2
- CSA C22.2 No.137
- CSA C22.2 No.141
- CSA C22.2 No.250.0
- Type 4X
- IP66 & IK08
- Suitable for: Wet & Marine Locations

KEY FEATURES

• **High Efficiency:** Delivers up to 160 lm/W with lumen packages ranging from 4800 lm to 16000 lm.

• **Versatile Installation:** Supports various installation methods including ceiling mount, trunnion mount, hoop mount, loop mount, and pendant mount.

• **Emergency Lighting:** Equipped with 9W emergency lighting for 1.5 hours.

• **Robust and Durable:** Waterproof, dustproof, anti-corrosion, and shock-resistant design.

• **Wide Application Range:** Suitable for various industries including chemical, oil and gas, petrochemical, pulp and paper, foundries, manufacturing, waste and sewage treatment, power generation, and paint spray booths.

LUMENS, OPTICS & DIMENSIONS

**See Page 4 for All Photometry Diagrams.*
**See Page 2 for All Dimensions Diagrams.*

ORDERING INFORMATION

ORDERING GUIDE

Series	Wattage	Voltage	CCT	Dimming	Lens	Beam Angle (See Chart on Page 4)	Mounting	Accessories
LIH	3 = 30W	LV = 100-277 VAC	R = Red	ND = None Dimming	CL = Clear PC	A = Type A H = Type H	CM = Ceiling Mount	BLANK
	4 = 40W	HV = 277-480 VAC	G = Green	D = Dimming*	DL = Diffused PC	B= Type B I = Type I	TM = Tunnion Mount	EB = Emergency Battery
	5 = 50W		B = Blue			C = Type C J= Type J	LM = Loop Mount	
	6 = 60W		A = Amber			D = Type D L = Type L	PM-1 = Pedant Mount (1"NPT)	
	7 = 70W					E = Type E N = Type N	PM-3/4 = Pedant Mount (3/4"NPT)	
	8 = 80W					F = Type F O = Type O	HM = Hoop Mount	
	10 = 100W					G = Type G P = Type P		

CCT	
20 = 2000K	40 = 4000K
22 = 2200K	45 = 4500K
25 = 2500K	50 = 5000K
27 = 2700K	57 = 5700K
30 = 3000K	65 = 6500K
35 = 3500K	

**On the 30W,40W & 50W, Dimming is only available on 100-277VAC*

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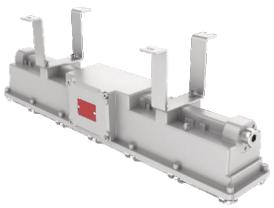
DIMENSIONS

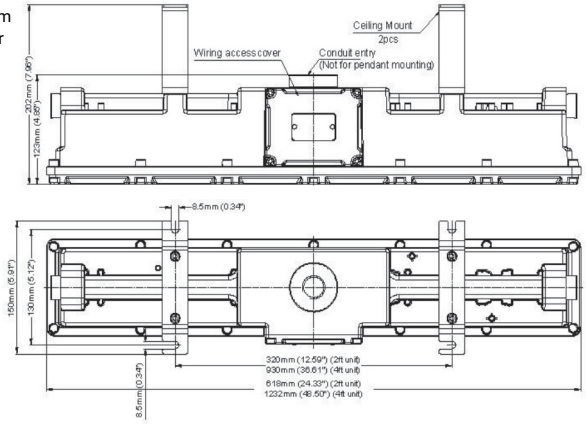
Unit: mm (inch)

Ceiling Mount (CM)

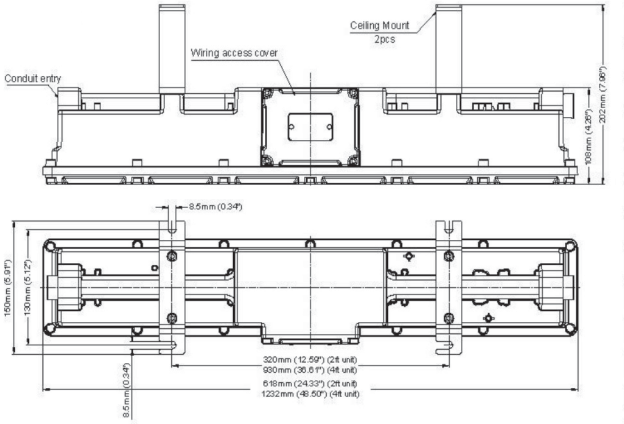
Dimension: 150*30*100mm
Surface Treatment: Powder coating
Color: Grey



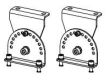
Cable entry from the top



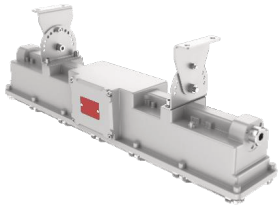
Cable entry from the side



Trunnion Mount (TM)



Dimension: 86*43*100mm
Surface Treatment: Powder coating
Color: Grey



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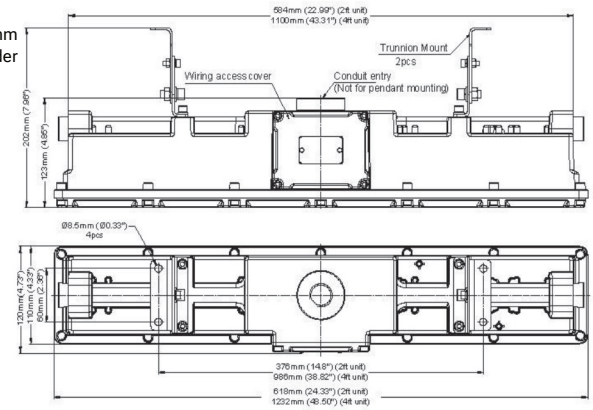
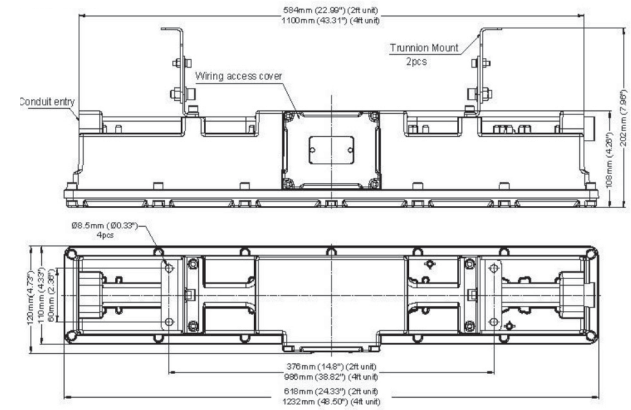
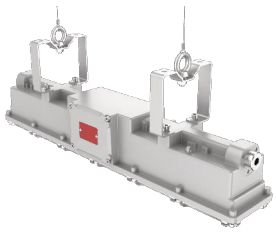


Cable entry from the side

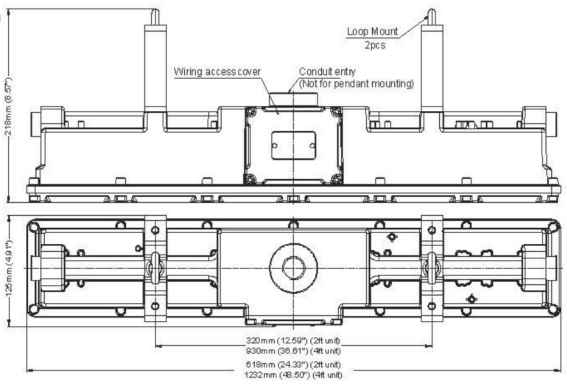


Loop Mount (LM)

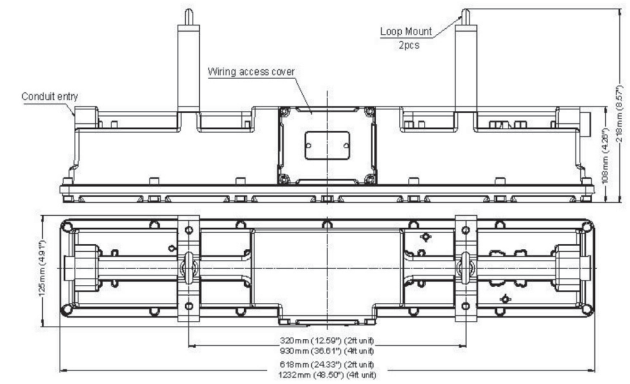
Dimension: 119*25*115mm
Surface Treatment: Powder coating
Color: Grey



Cable entry from the top



Cable entry from the side



Notice: 2ft include: 30W, 40W, 50W 4ft include: 60W, 70W, 80W, 100W

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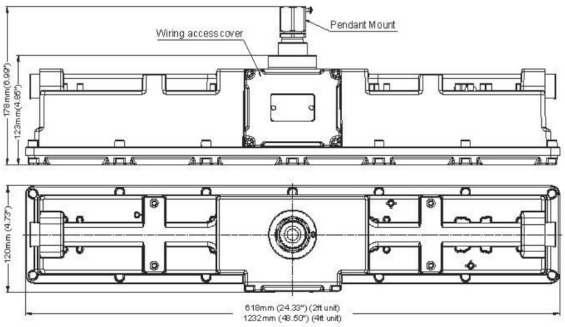
DIMENSIONS

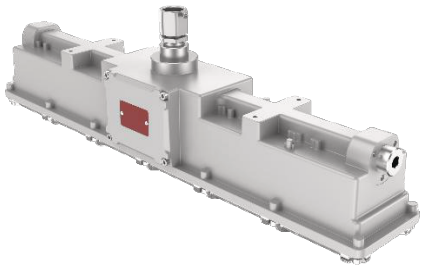
Unit: mm (inch)

Pendant Mount (PM-*)

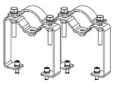
Order info: PM-3/4
Dimension: Φ33*65mm
Surface Treatment: Surface passivation
Color: Stainless steel color
Tube specification: M25X1.5 or 3/4"NPT
Cable outer diameter: 8-12

Order info: PM-1
Dimension: Φ41*65mm
Surface Treatment: Surface passivation
Color: Stainless steel color
Tube specification: M32X1.5 or 1"NPT
Cable outer diameter: 15-19

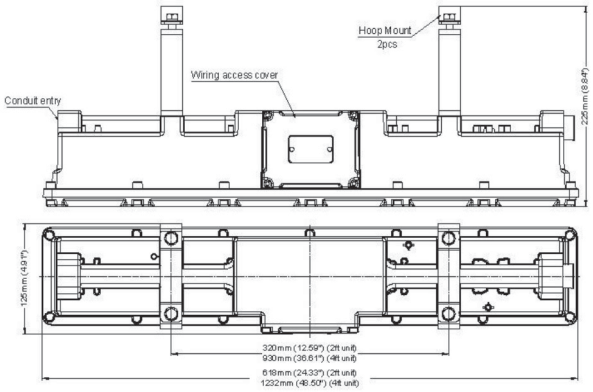


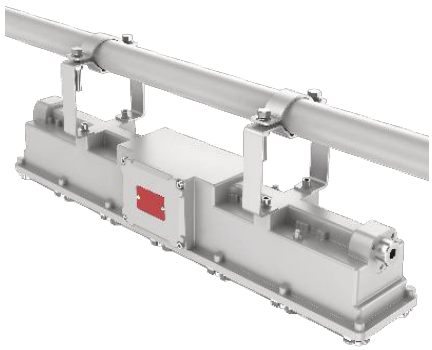


Hoop (Clamp) Mount (HM)



Dimension: 119*25*122mm
Surface Treatment: Powder coating
Color: Grey





Notice: 2ft include: 30W, 40W, 50W 4ft include: 60W, 70W, 80W, 100W

Dimensions and Mount

		30W to 50W	60W to 100W
Product Dimension mm (inch)			
	Ceiling Mount	618x150x202 (24.33"x5.91"x7.96")	1232x150x202 (48.50"x5.91"x7.96")
	Trunnion Mount	618x120x202 (24.33"x4.73"x7.96")	1232x120x202 (48.50"x4.73"x7.96")
	Hoop Mount	618x125x225 (24.33"x4.91"x8.84")	1232x125x225 (48.50"x4.91"x8.84")
	Loop Mount	618x125x218 (24.33"x4.91"x8.57")	1232x125x218 (48.50"x4.91"x8.57")
	Pendant Mount	618x120x178 (24.33"x4.73"x6.99")	1232x120x178 (48.50"x4.73"x6.99")
Luminaire Net Weight			
	Ceiling Mount	3.4kg (7.48Lbs)	5.0kg (11Lbs)
	Trunnion Mount	3.5kg (7.7Lbs)	5.1kg (11.22Lbs)
	Hoop Mount	3.5kg (7.7Lbs)	5.1kg (11.22Lbs)
	Loop Mount	3.4kg (7.48Lbs)	5.0 kg (11Lbs)
	Pendant Mount	3.3kg (7.26Lbs)	4.9Kg(10.78Lbs)
Gross Weight			
	Ceiling Mount	4.0kg (8.8Lbs)	5.9kg (12.98Lbs)
	Trunnion Mount	4.1kg (9.02Lbs)	6.0kg (13.2Lbs)
	Hoop Mount	4.1kg (9.02Lbs)	6.0kg (13.2Lbs)
	Loop Mount	4.0kg (8.8Lbs)	5.9kg (12.98Lbs)
	Pendant Mount	3.4kg (8.58Lbs)	5.3kg(11.66Lbs)

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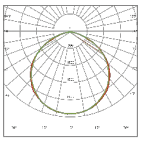
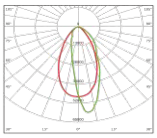
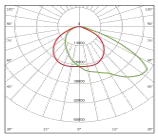
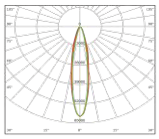
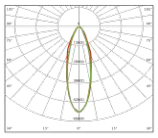
PHOTOMETRY

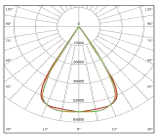

Type A - (No lens / CL -113°)

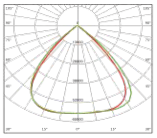

Type C - (25x59 Maxγ10°)

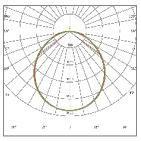

Type E - (64x120 Maxγ51°)

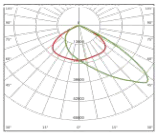

Type G - (17°)

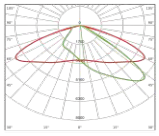

Type I - (30°)

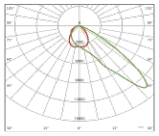

Type K - (55°)

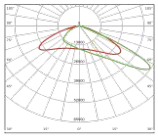

Type O - (85°)

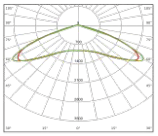

Type B - (No lens / DL)

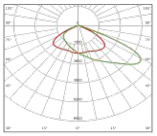

Type D - (49x117 Maxγ45°)


Type F - (66x146 Maxγ60°)


Type H - (27x70 Maxγ39°)


Type J - (33x143 Maxγ57°)


Type L - (146°)


Type P -(55x120 Maxγ56°)

LUMENS

Luminous Flux (±10%)

30W	40W	50W	60W	70W	80W	100W
4800 lm	6400 lm	8000 lm	9600 lm	11200lm	12800 lm	16000 lm

Efficacy(5000K Ra70) - 160lm/W

Life Time of LED @Ta=25°C

L90	77,000 hrs
L80	175,200 hrs
L70	282,900 hrs

OPERATING TEMPERATURE

Model	Temperatures
30W/40W/60W/70W/80W	-40°C to + 55°C (-40°F to +131°F)
50W	-40°C to + 45°C (-40°F to +113°F)
100W	-40°C to + 40°C (-40°F to +104°F)
Emergency Model: *30W/40W/60W/70W/80W*	0°C to + 55°C (32°F to +131°F)
Emergency Model: *50W*	0°C to + 45°C (32°F to +113°F)
Emergency Model: *100W*	0°C to + 40°C (32°F to +104°F)