



Project:	
Type:	
Catalog #:	

Hazardous Location LED Luminaire

FME Moon Series

Product Description

The MOON Series LED Luminaire can be used in locations made hazardous by the presence of flammable vapors, gases, or combustible dusts as defined by the NEC, Atex, CNEX, and CSA. The Moon Series is IP66 and IK10 rated. **An adjustable U-Bracket and pendant mounting are standard.**



Features

- Heavy-duty and high impact resistance
- Three connection cable entry points
- Dimmable and non-dimmable options available.
- Emergency battery backup available with integrated junction box for driver.
- Tempered glass lens standard with opal globe and guard option available for wider distribution and protection.
- Various mounting options include: pendant mount, wall mount, stanchion, or surface mount.
- Standard 120-277V, Available options include
 - 277-480V
 - 12-36VDC
- Operating Temperature:
 - 20 - 80W : -40°C - 50°C (-40°F - 122°F)
 - 100 - 400W : -40°C - 40°C (-40°F - 104°F)

- **Housing:** A383 Die Cast Aluminum
- **Gasketing:** Fluorosilicone Rubber
- **Hardware:** Stainless Steel 304
- **Finish:** Polyester Powdercoat
- **Lens:** Tempered Glass
- **LED Chips:** Philips
- **Driver:** Meanwell
- **Surge Protection:** 10KV
- **Expected Life:** Over 85,000 hrs.
- **Rating:** IP66 & IK10
- **Color Rendering Index (CRI):** 70

Compliance

UL 844 Hazardous Locations North America

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- Class II, Division 2, Groups F, G
- Class III

Marking Atex

- II2 G Ex mb eb IIC T4 Gb
- II2 D Ex tb IIIC T135°C Db IP66
- II3 G Ex ec IIC T3C Gc
- II2 D Ex tb IIIC T135°C Db IP66

Marking IECEx

- Ex mb eb IIC T4 Gb
- Ex tb IIIC T135C Db IP66
- Ex ec IIC T3C Gc
- Ex tb IIIC T135C Db Ip66

Marking Marine

- UL1598, UL1598A
- ABS

Other Markings / Standards

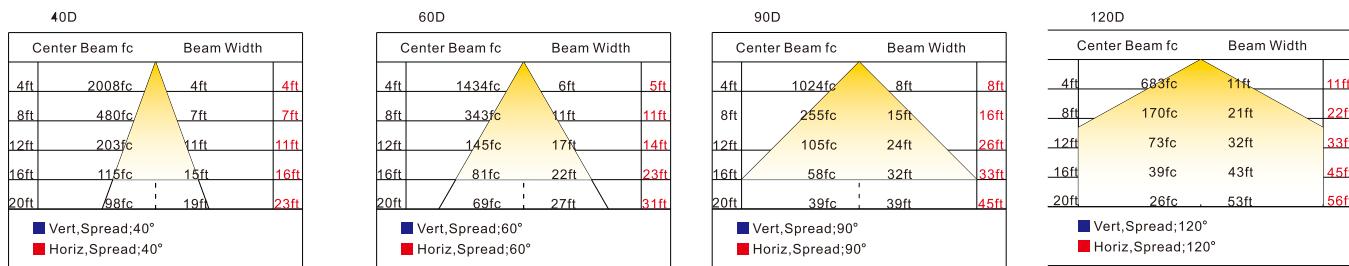
- IP66

Applications

- Power Plants / Heavy Industrials Storage Facility
- Paper Mills / Wastewater Treatment Plants
- Loading Docks / Platforms / Shipyards
- Chemical Processing Facility
- Petrochemical Processing Facility
- Mining
- Ocean Marine
- LNG facilities
- Metal Industry

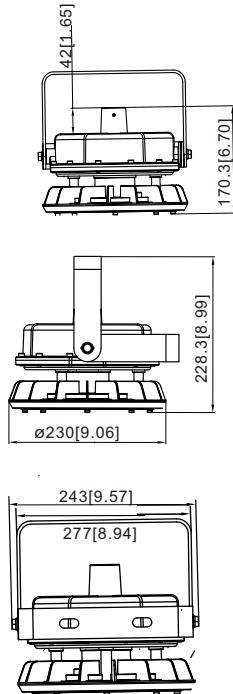
Photometric

Hazardous Location LED Luminaire

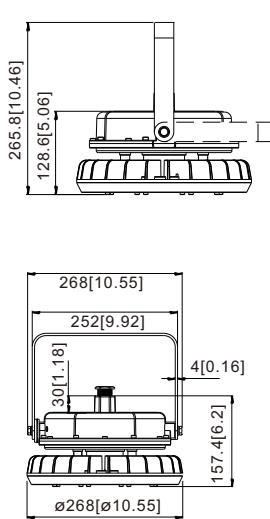


Product Dimensions

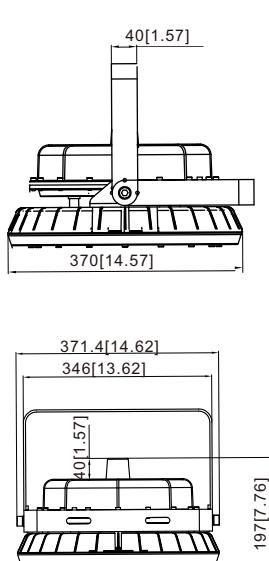
20W - 40W - 60W



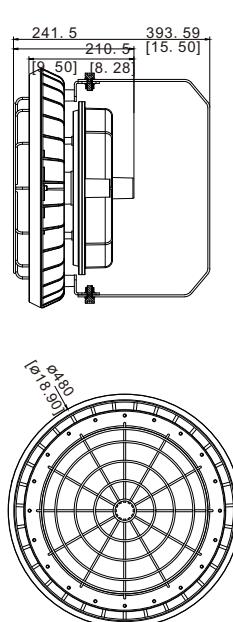
80W - 100W



150W - 200W



250W - 400W



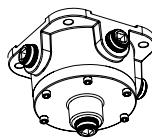
Lumen Chart

	5000K	5000K
20W	2,700 lm	35,000 lm
40W	5,400 lm	42,000 lm
60W	8,100 lm	49,000 lm
80W	10,800 lm	56,000 lm
100W	13,500 lm	
150W	20,250 lm	
200W	27,000 lm	

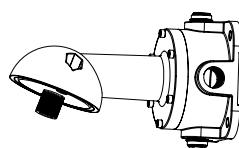
Mounting Accessories

Hazardous Location LED Luminaire

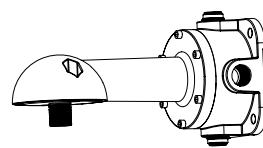
OPEB: Junction Box



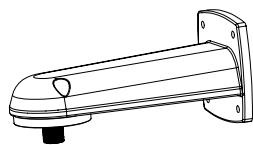
OPWA25: 25° Wall Mount & Junction Box



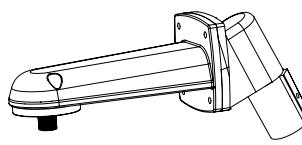
OPWA90: 90° Wall Mount & Junction Box



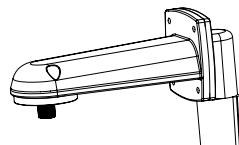
OPWA: 90° Wall Mount



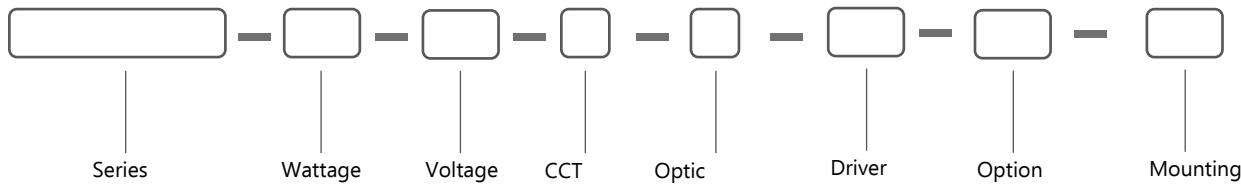
OPPS25: 25° Pole Mount



OPPS90: 90° Pole Mount



Ordering Information



<u>SERIES</u>	<u>WATTAGE</u>	<u>VOLTAGE</u>	<u>COLOR TEMP</u>	<u>OPTIC</u>	<u>DRIVER</u>	<u>OPTION</u>
FME-MOO	2 = 20W	A = AC100-277V	S = 3000K	M = 40°	D = 0-10V Dimming	EM = Emergency Battery Backup
	4 = 40W	B = AC200-480V	I = 4000K	N = 60°	ND = No Dimming	CG = Clear Globe
	6 = 60W	C = 12-48VDC	C = 5000K	O = 90°		FG = Frosted Globe
	8 = 80W		K = 6000K	P = 120°		WG = Wire Guard
	10 = 100W					CGG = Clear Globe w/ Wire Guard
	12 = 120W					FGG = Frosted Globe w/ Wire Guard
	15 = 150W					DREF = Dome Reflector
	20 = 200W					AREF = Angle Reflector
	25 = 250W					
	30 = 300W					
	35 = 350W					
	40 = 400W					

MOUNTING / ACCESSORIES

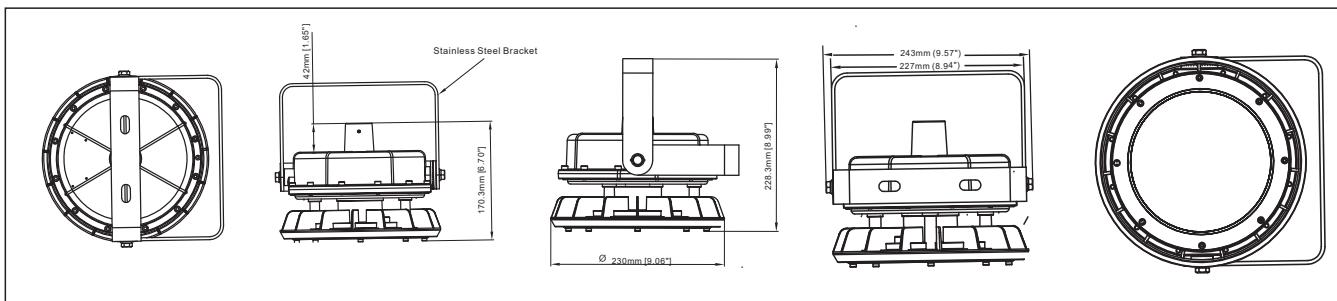
OPEB	=	Junction Box
OPCM	=	Ceiling / Surface Mounting & Junction Box: 3/4" NPT
OPWA	=	90° Wall Mount
OPWA25	=	25° Wall Mount & Junction Box: 3/4" NPT
OPWA90	=	90° Wall Mount & Junction Box: 3/4" NPT
OPPS25	=	25° Pole Mount: 1-1/2" NPT
OPPS90	=	90° Pole Mount: 1-1/2" NPT

Mechanical Structure

Unit: mm or inch

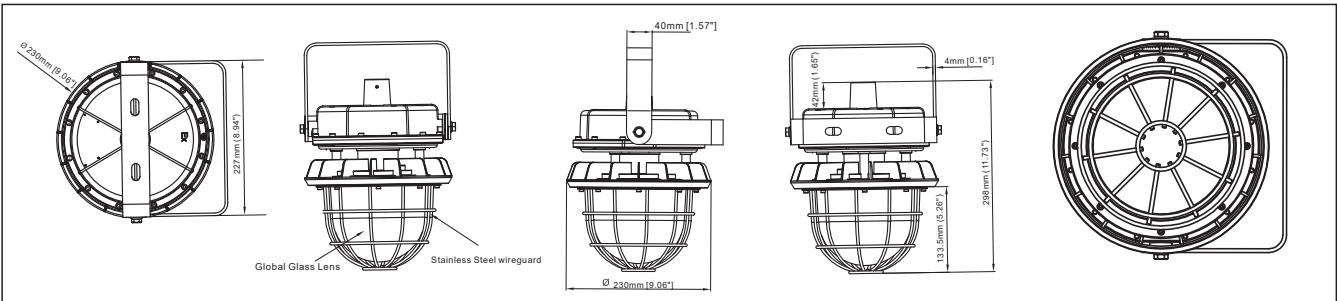
20 Watt & 40 Watt Version

Standard Bracket and Flat Glass Lens



Standard Bracket and Wireguard

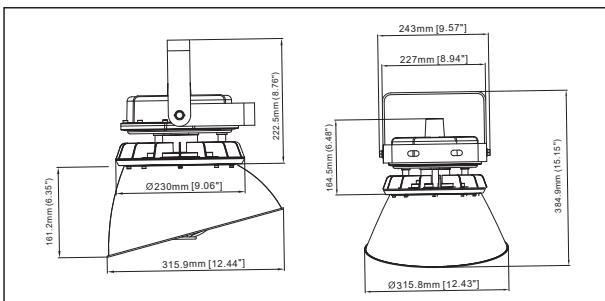
1. Bracket, Glass Lens, Wireguard and flat LED module.



This structure type with bracket, global glass lens and wireguard to generate 180° light distribution.

30° Angle Dome Reflector

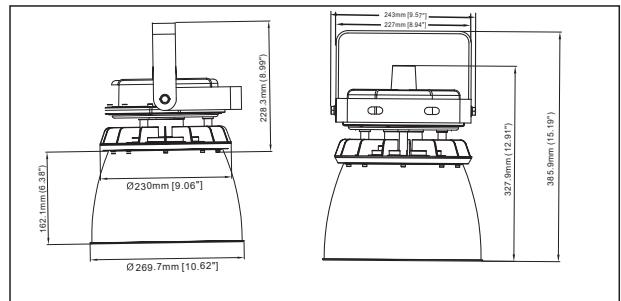
1, Bracket, Global Glass Lens, flat LED module and 30° cut off angle reflector.



This structure can make the lighting distribution more concentrated for special beam angle.

Dome Reflector

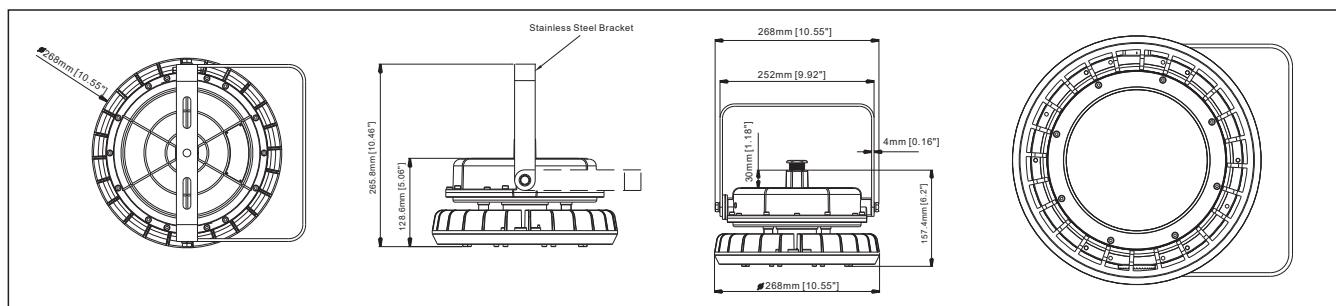
1, Bracket, Global Glass Lens, flat LED module and dome reflector



This structure can make the lighting distribution more concentrated.

60 Watt & 80W Version

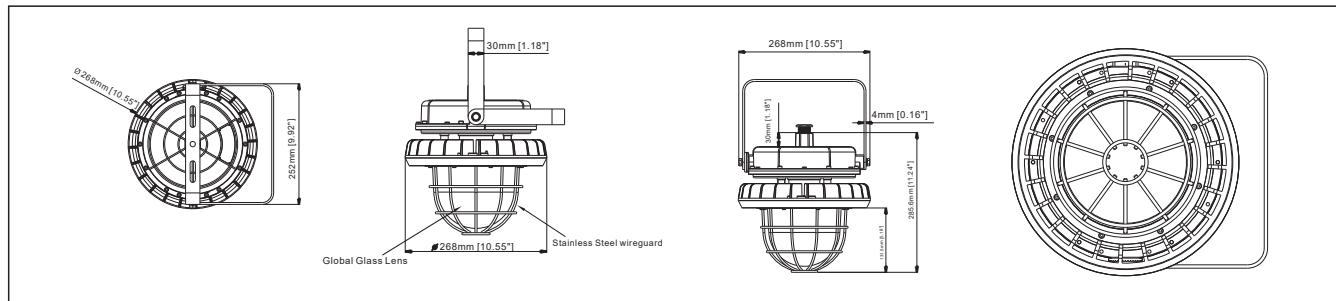
Standard Bracket and Flat Glass Lens



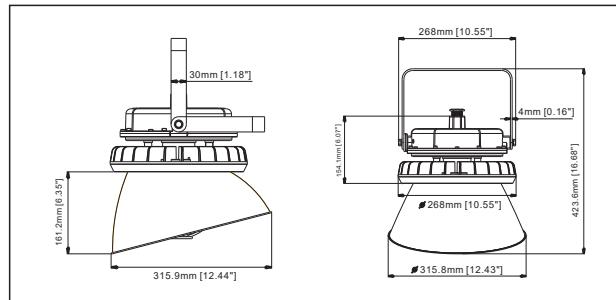
This structure type with bracket,flat glass and optics lens to generate 40°,60°,90° and 120° light distribution.

Standard Bracket and Wireguard

1, Bracket, Global Glass Lens, Wireguard and flat LED module.

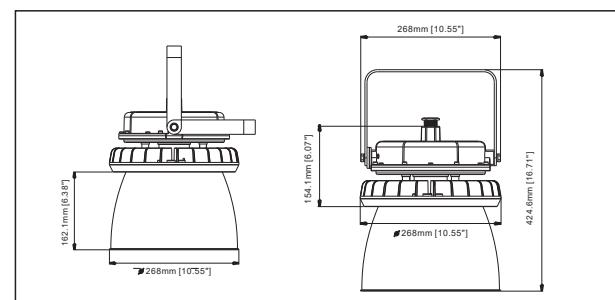


30° Angle Dome Reflector



This structure can make the lighting distribution more concentrated for special beam angle.

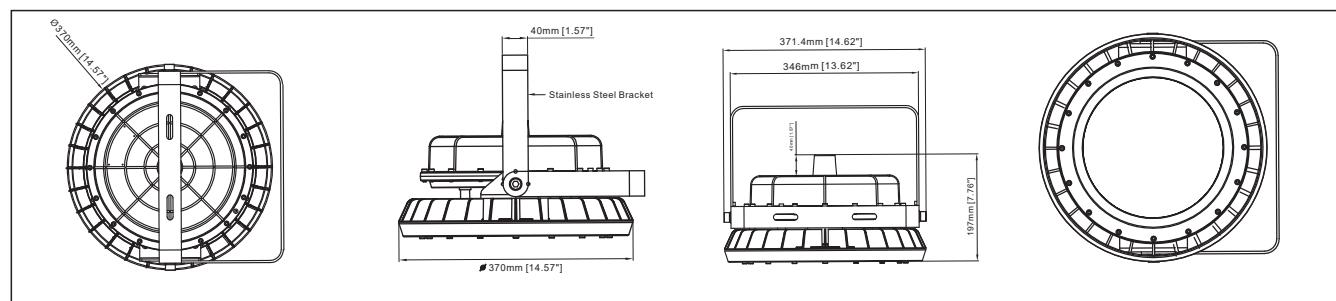
Dome Reflector



This structure can make the lighting distribution more concentrated.

100 Watt - 200 Watt Versions

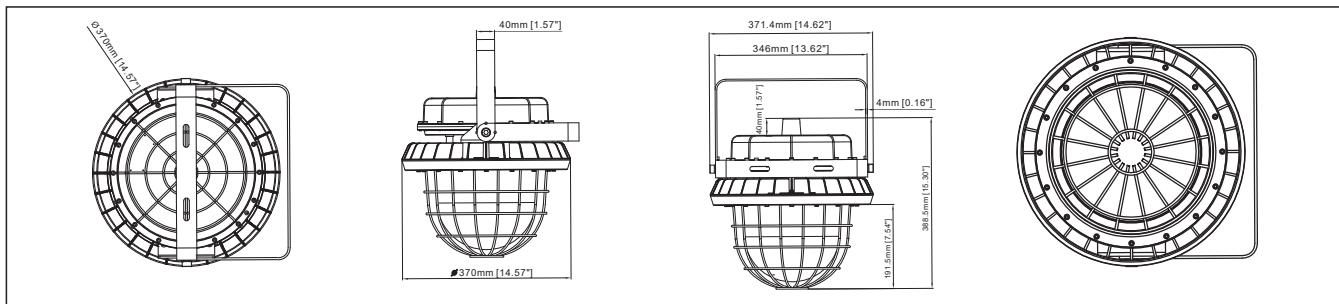
Standard Bracket and Flat Glass Lens



This structure type with bracket,flat glass and optics lens to generate 40°,60°,90° and 120° light distribution.

Standard Bracket and Wireguard

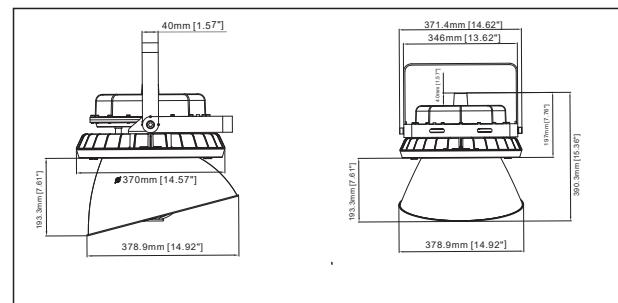
1, Bracket, Global Glass Lens, Wireguard and flat LED module.



This structure type with bracket, global glass lens and wireguard to generate 180° light distribution. We also can put corn bulb in the global glass lens to make this beam angle up to 360°.

30° Angle Dome Reflector

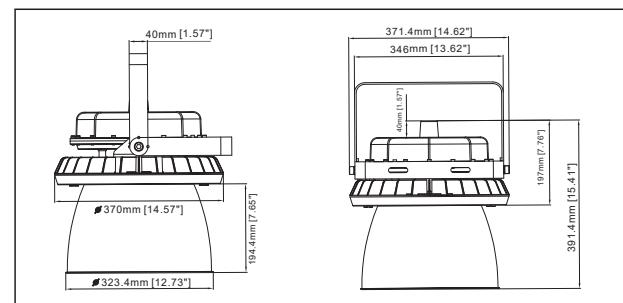
1, Bracket, Global Glass Lens, flat LED module and 30° cut off angle reflector.



This structure can make the lighting distribution more concentrated for special beam angle.

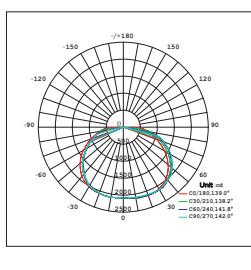
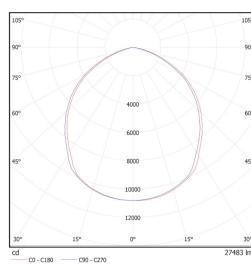
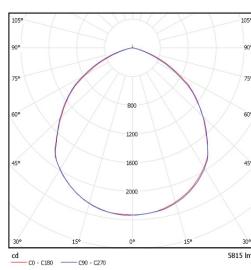
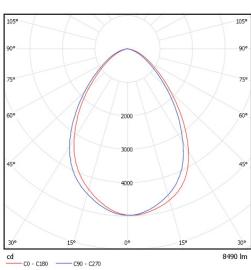
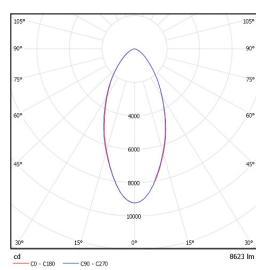
Dome Reflector

1, Bracket, Global Glass Lens, flat LED module and dome reflector

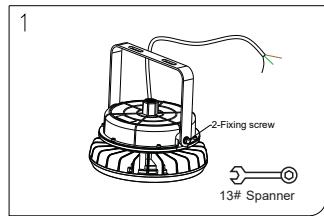


This structure can make the lighting distribution more concentrated.

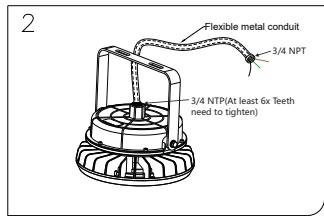
Lighting Distribution



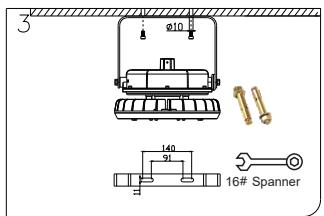
Ceiling Mounting



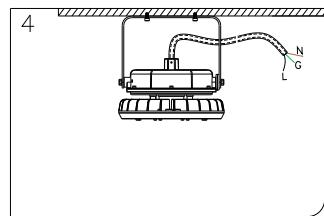
1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screw as Fig.1.



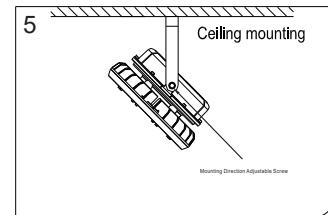
2. Flexible metal conduit install and tighten with the fixture.



3. Drill 2x hole as Fig.2, the distance can be 91~140mm, fixing Ø10 expanded crews and bracket on ceiling.

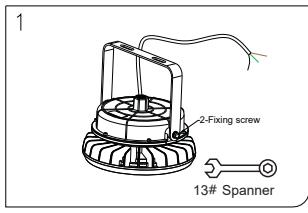


4. Connect the AC cable, Black cable connect to L, white cable connect to N, green cable connect to grounding.

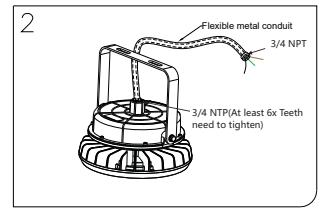


5. Adjust the beam angle from 0-180°.

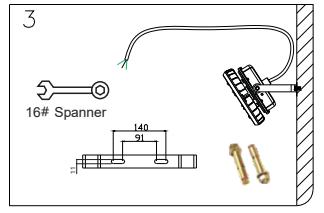
Wall Mounting



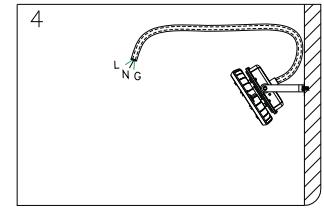
1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screw as Fig.1.



2. Flexible metal conduit install and tighten with the fixture.

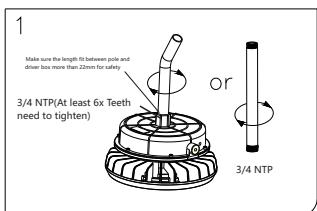


3. Drill 2x hole as Fig.2, the distance can be 91~140mm, fixing Ø10 expansion screws and bracket on ceiling.

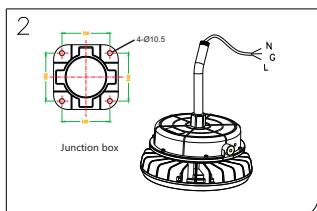


4. Connect the AC cable, Black cable connect to L, white cable connect to N, green cable connect to grounding.

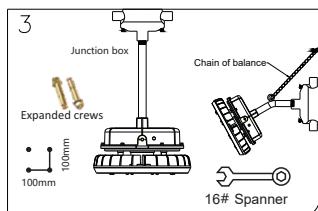
Pole Pendant



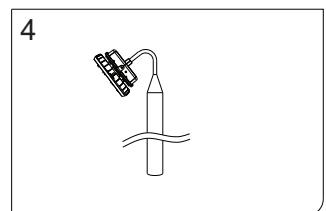
1. Take the fixture and pole accessory out from cartoon box, tighten pole as Fig.1.



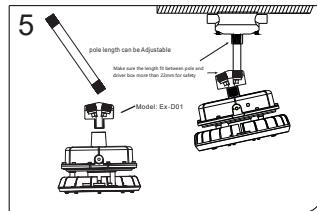
2. Connect the AC cable to junction box, black cable connect to L, white cable connect to N, green cable connect to grounding.



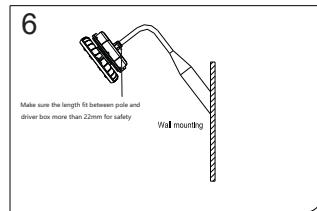
3. Drill 4x Ø10mm holes, as 100mm distance, install the junction box to the wall or ceiling as Fig.3, tighten the pole to the box, and adjust the chain of balance.



4. Optional: Install the fixture to the long pole after cable connecting.

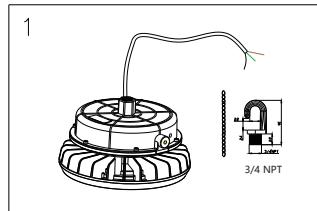


1. Adjustable pole installation. With this adjustable kit, you can Make any light distribution direct as you want.

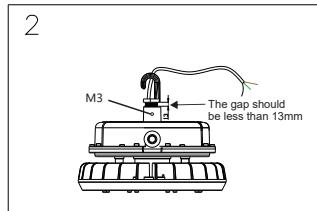


Optional: Install the fixture to the long pole and mount to the wall.

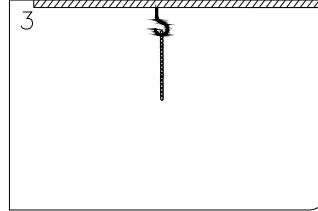
Hook Pendant



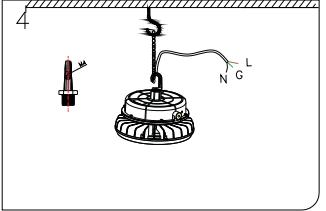
1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screw as Fig.1.



2. Tighten the hook with the fixture, at least 6x teeth need to tighten, fix the M3 screw to avoid the hook loosing.

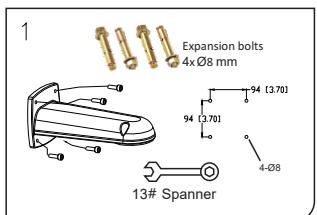


3. Drill 1 expansion screw hole and install it, and hang the chain as Fig.3.

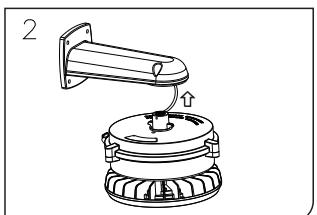


4. Hang the fixture to the hook as above, connect the AC cable, Black cable connect to L, white cable connect to N, green cable connect to grounding.

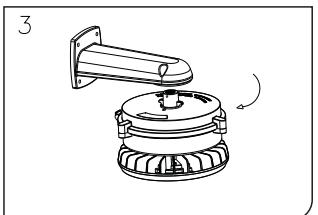
Quick Arm Mounting without open driver box



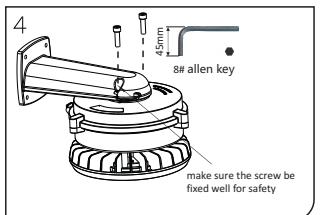
1. Drill 4x holes as above distance, and fix the arm on the wall, tighten 4x screws as Fig.1.



2. Contact the power AC wire with lamp, put the terminal into the arm.

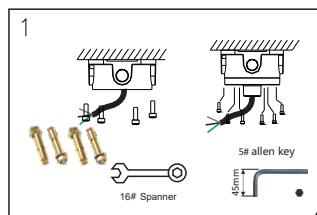


3. Match the circle part with arm, and rotate it to right.

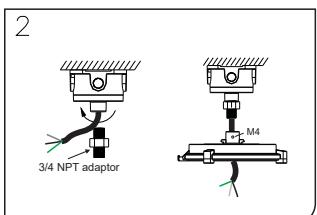


4. Tighten 2x screws to avoid the lamp loosed.

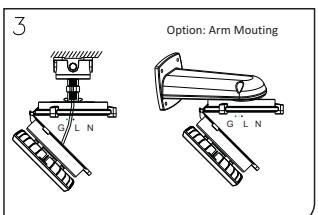
Arm or Ceiling Mounting by opening driver box



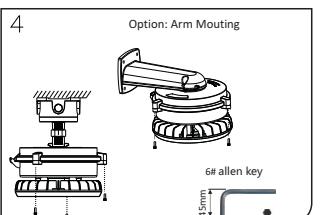
1. Install the junction box to ceiling via 4x expansion bolts, tighten the junction box cover screws by 5# allen key.



2. Through the cable to the hole of adaptor, install the 3/4" NPT adaptor and tighten it. Tighten the driver enclosure cover to adaptor. Finally, tighten M4 screw to avoid loosing.



3. Option: Arm Mouting. Hang the lamp housing to the driver enclosure cover, contact the AC wire as black one to live wire, white one to null wire, green one to grounding.



4. Option: Arm Mouting. Tighten 3x M8 screws for driver enclosure as above.