



BAA and TAA available. Contact factory for more information and pricing.

Project:	
Type:	
Catalog #:	

intertek
Total Quality. Assured.



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
- Replaceable LED board and driver
- Standard U bracket and 1 meter cord
- 3 Hour Emergency battery backup available
- 100-400W sizes
- 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
 - 12-48VDC
- 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 (Marine Rated)
- **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



Pendant Mounting standard



Globe & Guard option



Standard U-Bracket

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 IECX

- 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

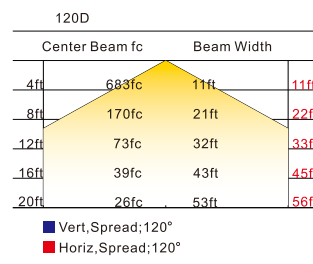
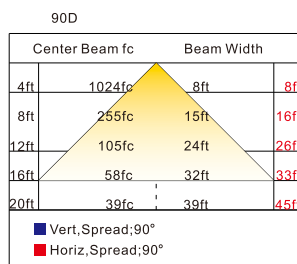
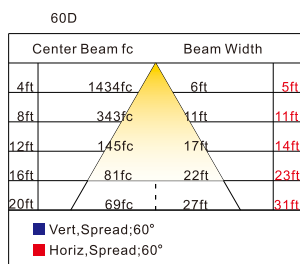
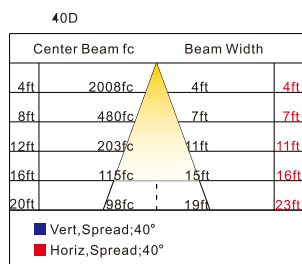
- IP66
- IK10 (Impact)

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
- Food and distilling
- Alcohol Industry
- Steel and aluminum factories

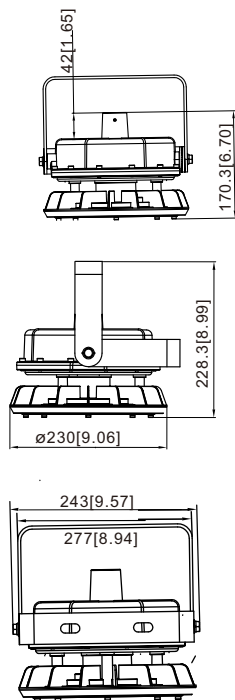
Photometric

Hazardous Location LED Luminaire

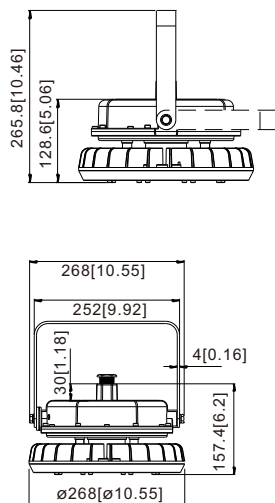


Product Dimensions

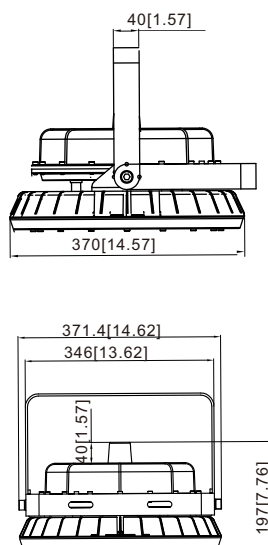
20W - 40W - 60W



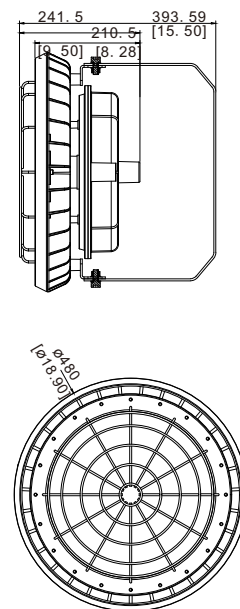
60W - 100W



100W - 200W



250W - 400W



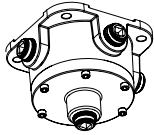
Lumen Chart

	5000K		5000K
20W	2,700 lm	250W	35,000 lm
40W	5,400 lm	300W	42,000 lm
60W	8,100 lm	350W	49,000 lm
80W	10,800 lm	400W	56,000 lm
100W	13,500 lm		
150W	20,250 lm		
200W	27,000 lm		

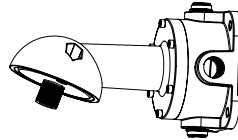
Mounting Accessories

Hazardous Location LED Luminaire

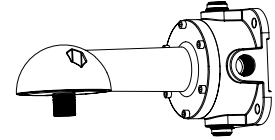
OPEB: Junction Box



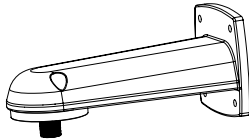
OPWA25: 25° Wall Mount & Junction Box



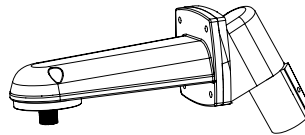
OPWA90: 90° Wall Mount & Junction Box



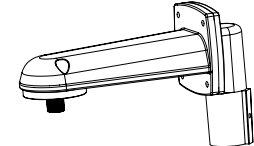
OPWA: 90° Wall Mount



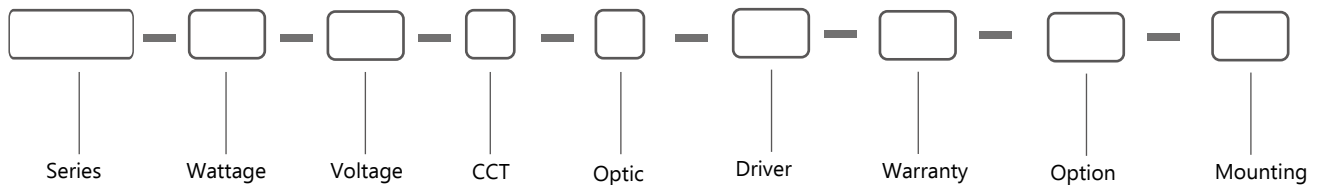
OPPS25: 25° Pole Mount



OPPS90: 90° Pole Mount



Ordering Information



SERIES	WATTAGE	VOLTAGE	COLOR TEMP	OPTIC	DRIVER	WARRANTY
FME-MOO	2 = 20W 4 = 40W 6 = 60W 8 = 80W 10 = 100W 12 = 120W 15 = 150W 20 = 200W 25 = 250W 30 = 300W 35 = 350W 40 = 400W	A = AC100-277V B = AC200-480V C = 12-48VDC	S = 3000K I = 4000K C = 5000K K = 6000K	M = 40° N = 60° O = 90° P = 120°	D = 0-10V Dimming ND = No Dimming	5Y = Five Year Warranty 10Y* = Ten Year Warranty* *Please contact factory for 10yr warranty option
			OPTION		MOUNTING / ACCESSORIES	
			EM = Emergency Battery Backup (100-400W) CG = Clear Globe FG = Frosted Globe WG = Wire Guard CGG = Clear Globe w/ Wire Guard Frosted Globe FGG = w/ Wire Guard DREF = Dome Reflector AREF = Angle Reflector BAA** = Buy American Act Compliant** TAA** = Trade Agreements Act Compliant**		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	

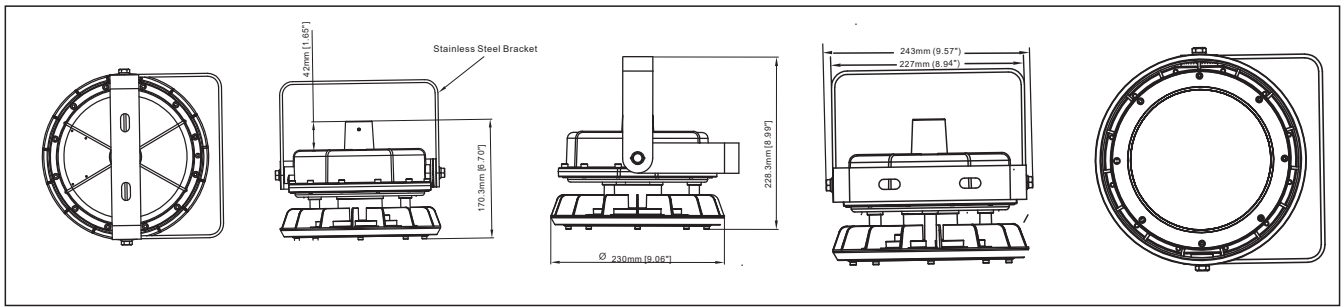
**Please contact factory for BAA and TAA options.

Mechanical Structure

Unit: mm or inch

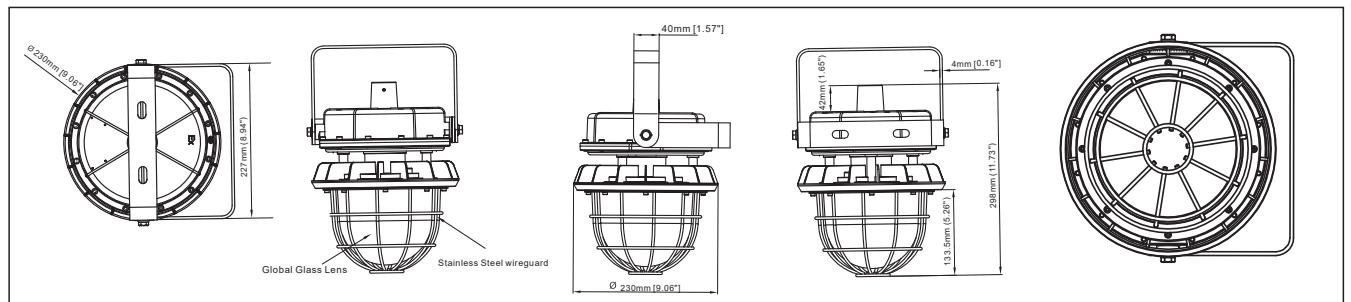
20 Watt & 40 Watt Version

Standard Bracket and Flat Glass Lens



Standard Bracket and Wireguard

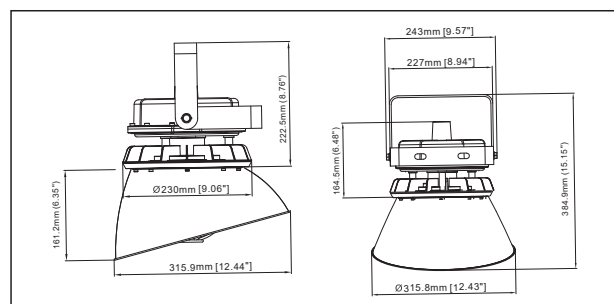
1.Bracket, Glass Lens, Wireguard and flat LED module.



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

30° Angle Dome Reflector

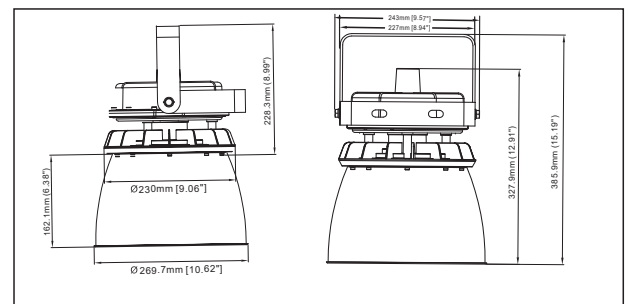
1, Bracket, Global Glass Lens, flat LED module and 30° cut off angle reflector.



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

Dome Reflector

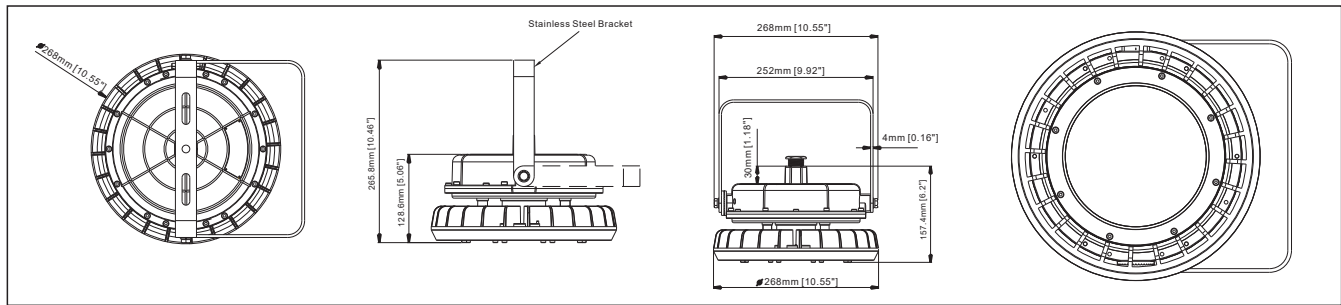
1, Bracket, Global Glass Lens, flat LED module and dome reflector



This structure can make the lighting distribution more concentrated.

60 Watt & 80W Version

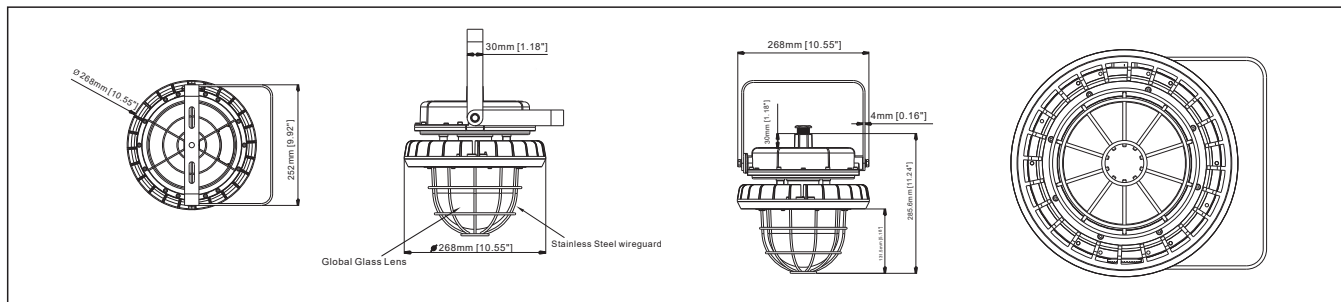
Standard Bracket and Flat Glass Lens



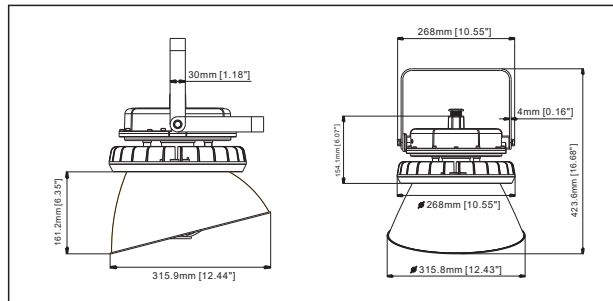
This structure type with bracket, flat glass and optics lens to generate 40°, 60°, 90° and 120° light distribution.

Standard Bracket and Wireguard

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

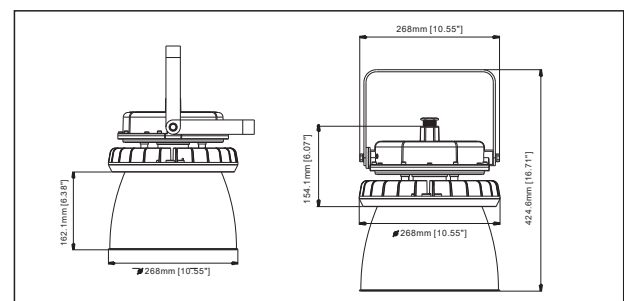


30° Angle Dome Reflector



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

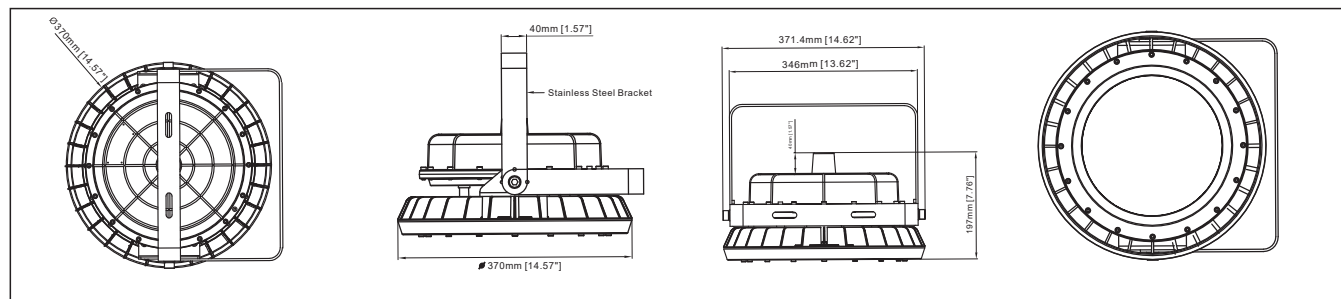
Dome Reflector



This structure can make the lighting distribution more concentrated.

100 Watt - 200 Watt Versions

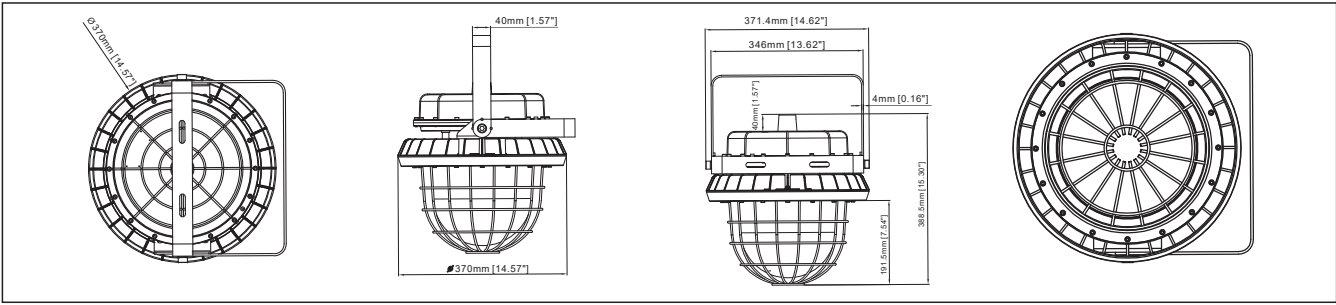
Standard Bracket and Flat Glass Lens



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

Standard Bracket and Wireguard

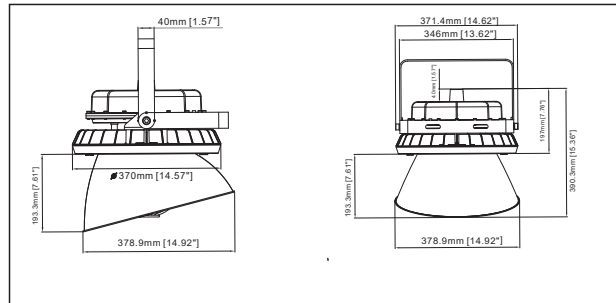
1, Bracket, Global Glass Lens, Wireguard and flat LED module.



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

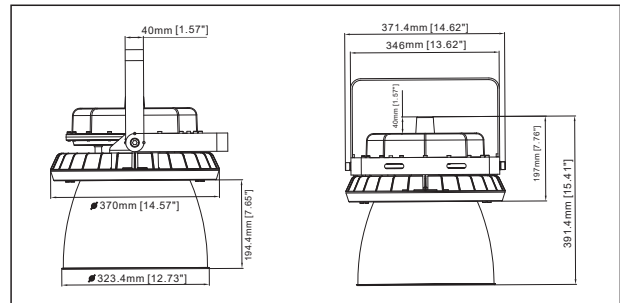
1, Bracket, Global Glass Lens, flat LED module and 30° cut off angle reflector.



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

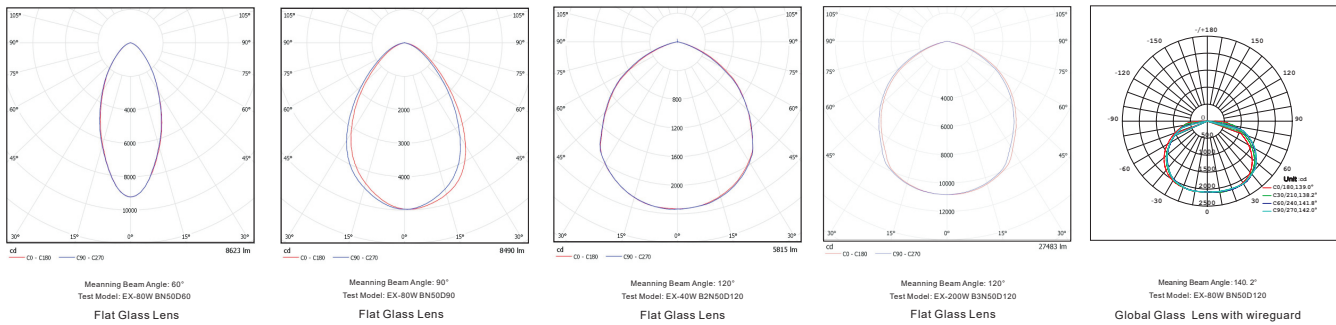
Dome Reflector

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

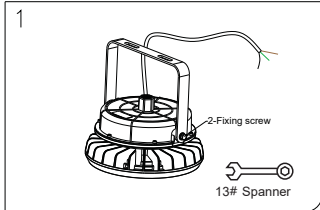


This structure can make the lighting distribution more concentrated.

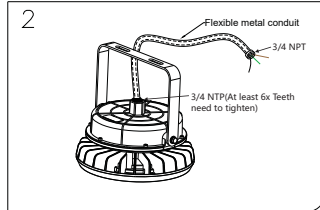
Lighting Distribution



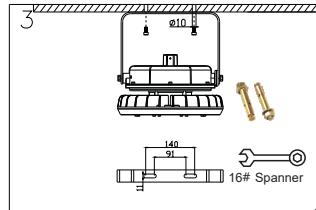
Ceiling Mounting



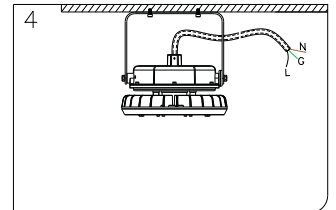
1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screw as Fig.1.



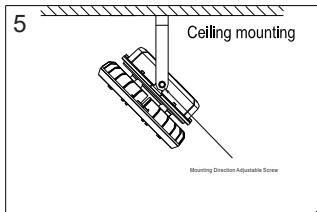
2. Flexible metal conduit install and tighten with the fixture.



3. Drill 2x hole as Fig.2, the distance can be 91~140mm, fixing $\varnothing 10$ expanded crews and bracket on ceiling.

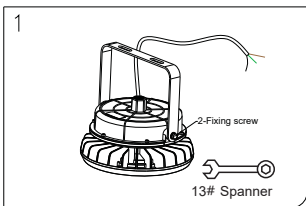


4. Connect the AC cable, Black cable connect to L, white cable connect to N, green cable connect to grounding.

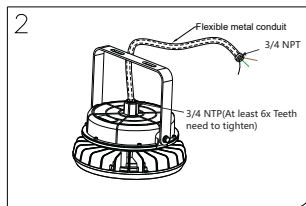


5. Adjust the beam angle from 0-180°.

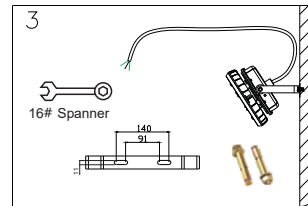
Wall Mounting



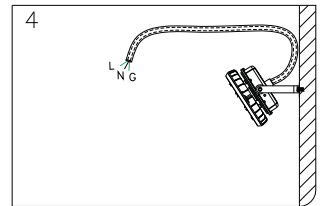
1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screw as Fig.1.



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

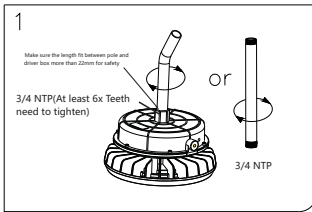


3. Drill 2x hole as Fig.2, the distance can be 91~140mm, fixing $\varnothing 10$ expansion screws and bracket on ceiling.

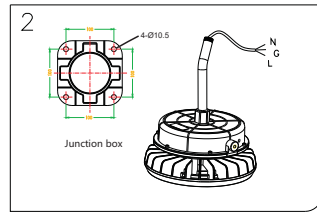


4. Connect the AC cable, Black cable connect to L, white cable connect to N, green cable connect to grounding.

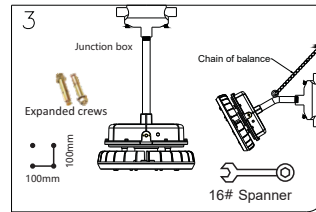
Pole Pendant



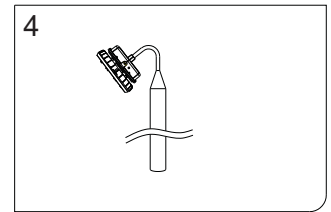
1. Take the fixture and pole accessory out from cartoon box, tighten pole as Fig.1.



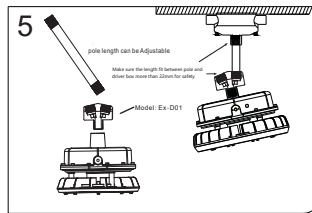
2. Connect the AC cable to junction box, black cable connect to L, white cable connect to N, green cable connect to grounding.



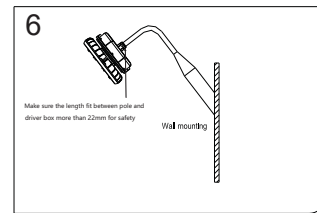
3. Drill 4x Ø10mm holes, as 100mm distance, install the junction box to the wall or ceiling as Fig.3, tighten the pole to the box, and adjust the chain of balance.



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

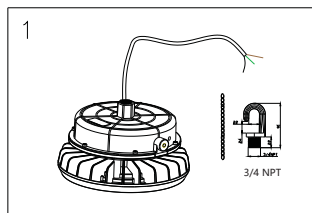


1. Adjustable pole installation. With this adjustable kit, you can Make any light distribution direct as you want.

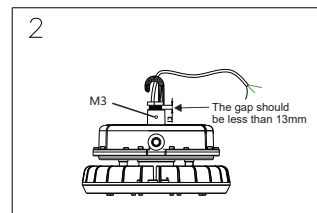


Optional: Install the fixture to the long pole and mount to the wall.

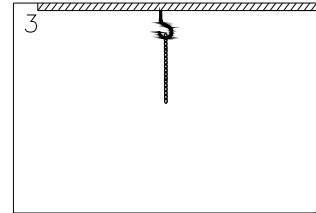
Hook Pendant



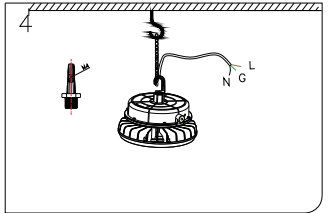
1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screw as Fig.1.



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

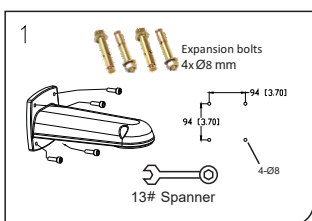


3. Drill 1 expansion screw hole and install it, and hang the chain as Fig.3.

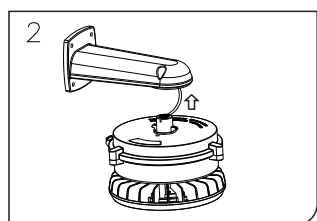


4. Hang the fixture to the hook as above, connect the AC cable, Black cable connect to L, white cable connect to N, green cable connect to grounding.

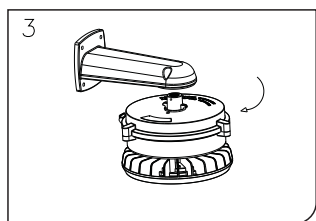
Quick Arm Mounting without open driver box



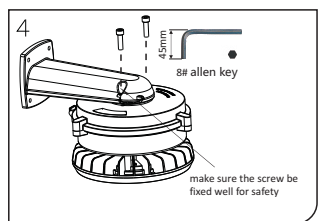
1. Drill 4x holes as above distance, and fix the arm on the wall, tighten 4x screws as Fig.1.



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

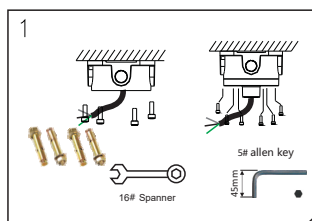


3. Match the circle part with arm, and rotate it to right.

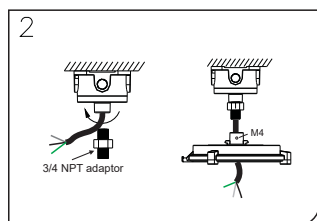


4. Tighten 2x screws to avoid the lamp loosed.

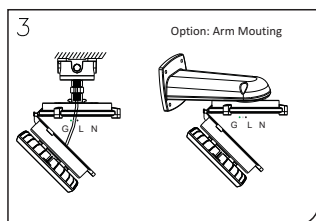
Arm or Ceiling Mounting by opening driver box



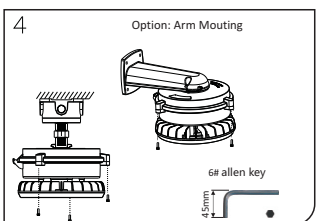
1. Install the junction box to ceiling via 4x expansion bolts, tighten the junction box cover screws by 5# allen key.



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 loosening.



3. 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. Tighten 3x M8 screws for driver enclosure as above.