Standard Trunnion
&
Pendant Mounting

Hazardous Location LED Luminaire

FME MOON Series

Product description

The MOON Series LED Luminaire can be used locations made hazardous by the presence of flammable vapors, gases, or combustible dusts as defined by the NEC, Atex, CNEX, and CSA. The ambient temperature rating of 60ºC (145ºF). The product is marine rated and IP66 rated. Available with emergency battery backup. Trunion bracket included.

Features

- -High efficacy: up to 140lm/W
- -CRI>70
- -Surface mounting and pendant installation
- -Wide and narrow optics for uniform illumination
- -Available with battery backup
- -High vibration resistance
- -Copper free aluminum
- -Stainless steel hardware
- -Stainless steel trunion bracket included
- -Comes standard with a 3 ft cord
- -IP66
- -10KV surge protected
- -Operating temperature:

  20 - 80W : -40ºC - 50ºC (-40ºF - 122ºF)
  100 - 200W : -40ºC - 40ºC (-40ºF - 104ºF)

Explosion Protection

Marking Atex	II2 G Ex db IIB T6 Gb
	IID Ex db IIIC T80 Gb IP66
Marking IECEX	Ex db IIB T6 Gb
	Ex db IIIC T80 Gb IP66
Marking UL844 (North American)	Class I,Division 2,Group A,B,C,D
	Class II,Division 1,Group E,F,G
	Class II,Division 2,Group E,F,G
	Class III
Marine Marking	UL 1598A
	ABS Type Approved
Other Rating	IP 66
	IK 10

Application

- -Power Plants / Heavy Industrials
- -Paper mills
- -Wastewater Treatment Plants
- -Food and Beverage Industry
- -Chemical Processing Facility
- -Oil and Gas
- -Ocean Marine
- -Tunnels
- -LNG Facilities

Warranty

5-Year Standard Warranty

Ceiling Mounted Bracket
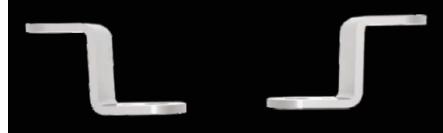
Side View   Top View

Ceiling mounted bracket comes standard with the Moon, Star, Venus, Space and Mars Series.**

Explosion Proof Junction Box

**** EX-JBOX can be used with the Moon, Star, Venus, Space and Mars Series.****

25º Wall Mount

25 wall mount can be used with the Moon, Star, Venus, Space and Mars Series.

90º Wall Mount

90 wall mount can be used with the Moon, Star, Venus, Space and Mars Series.

25º Stanchion

90º Stanchion

Stanchion mount can be used with the Moon, Star, Venus, Space and Mars Series.

Conduit 47(in)

Ordering Information and Mounting Accessories

FME-MOO	—	4	—	52	—	B	—	C	—	XX	—	XX	—	XX
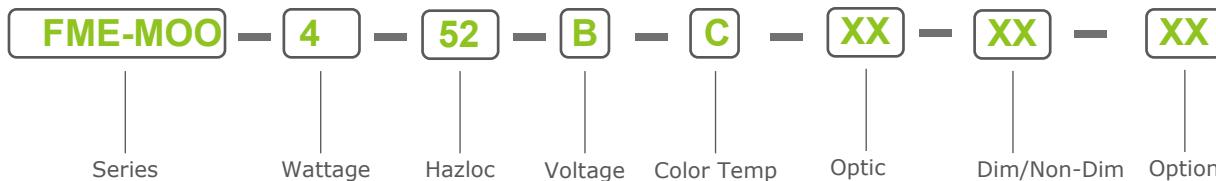
Series — Wattage — Hazloc — Voltage — Color Temp — Optic — Dim/Non-Dim — Option

SERIES
FME-MOO

WATTAGE
2=20W
4=40W
6=60W
8=80W
10=100W
12=120W
15=150W
20= 200W

HAZLOC
52=listed ratings

VOLTAGE
A=AC100-277V
B=AC277-480V

COLOR TEMP
S= 4000K
I= 5000K
C= 6000K

OPTIC
M=40^0
N= 60^0
O= 90^0
P= 100^0
Q= 110^0
R= 120^0

DIM/NON-DIM
D=Dimmable
ND=Non-Dimmable

OPTION
OPDPS=25^0 Stanchion
OPPS=Stanchion
OPWA=Wall Arm Mount
OPCB=Ceiling Mount
OPPP=Pendant Mount
OPDPP=12^0 Pendant
OPEB=Junction Box
DREF = Dome Reflector
AREF = Angle Reflector
WG = Wire Guard
FG = Frosted Globe
*GG = Globe & Guard

* GG = 180^0 Optic

Stock Items

FME-MOO-4-52-A-I-R-ND
FME2*-MOO-6-52-A-I-R-ND
FME-MOO-6-52-A-I-R-ND
FME-MOO-8-52-A-I-R-ND
FME-MOO-10-52-A-I-R-ND
FME-MOO-15-52-A-I-R-ND
FME-MOO-20-52-A-I-R-ND

*Use 20-40W dimensions

Photometric
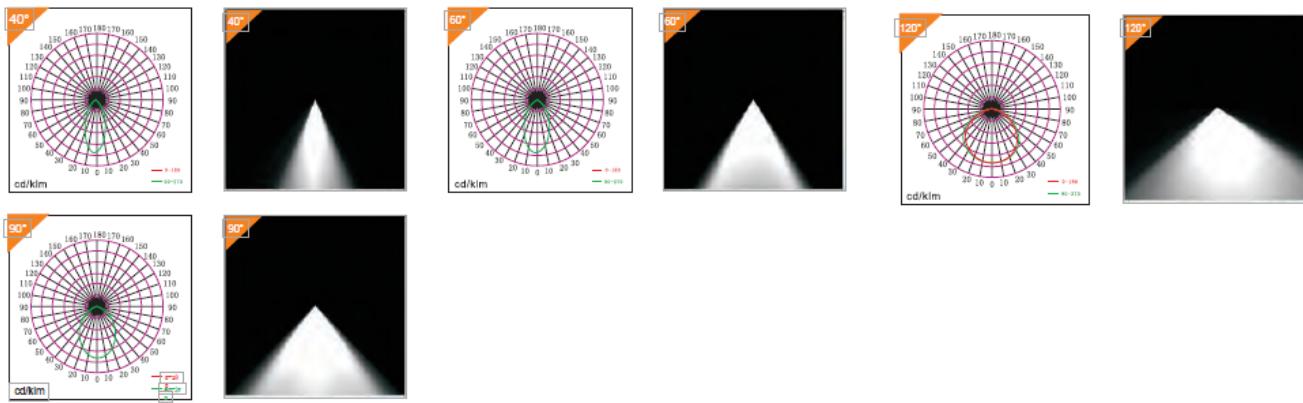
Technical Parameter

Item No.	FME-MOO-2	FME-MOO-4	FME-MOO-6	FME-MOO-8	FME-MOO-10	FME-MOO-12	FME-MOO-15	FME-MOO-20
Power	20W	40W	60W	80W	100W	120W	150W	200W
Input Voltage	120-277V OR 347-480V							
Lumen	2,600	5,200	7,800	10,400	13,000	15,600	19,500	26,000
Light Efficency	140lm/W							
CCT	4000K / 5000K							
CRI	>70							
IP	IP66							
Certification	ETL listed, UL844, UL 1598, UL 1598A, CSA standard, ABS, ATEX, IECEx certified, IP 66							

Mechanical Structure

Unit: mm or inch

20 Watt & 40 Watt Version

Standard Bracket and Flat Glass Lens
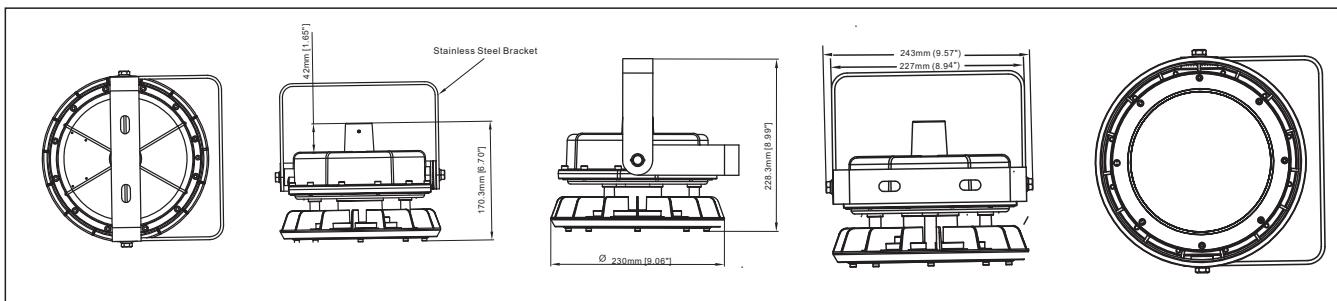
Standard Bracket and Wireguard

1.Bracket, Glass Lens, Wireguard and flat LED module.
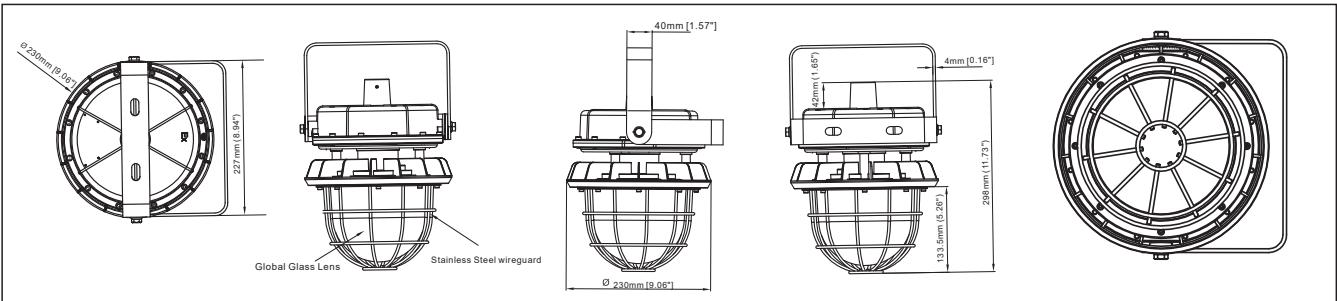
This structure type with bracket, global glass lens and wireguard to generate 180° light distribution.

30° Angle Dome Reflector

1, Bracket, Global Glass Lens, flat LED module and 30° cut off angle reflector.
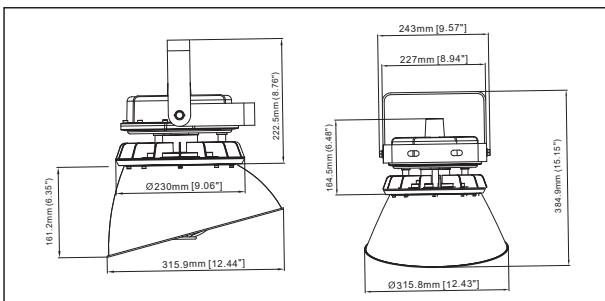
This structure can make the lighting distribution more concentrated for special beam angle.

Dome Reflector

1, Bracket, Global Glass Lens, flat LED module and dome reflector
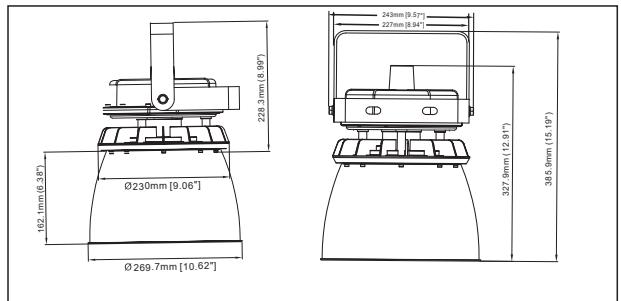
This structure can make the lighting distribution more concentrated.

60 Watt & 80W Version

Standard Bracket and Flat Glass Lens
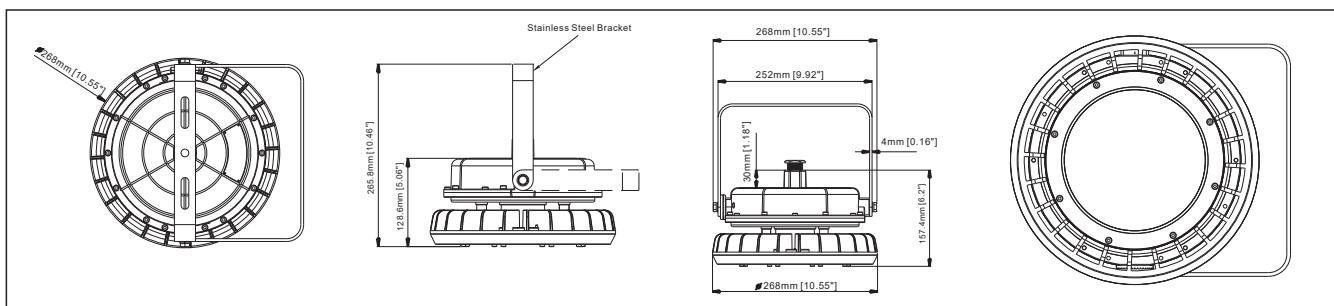
Stainless Steel Bracket

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.

Global Glass Lens
Stainless Steel wireguard
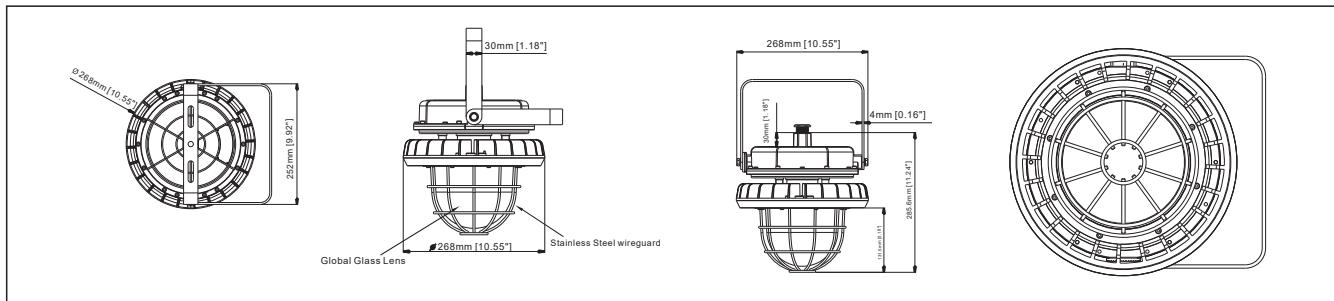
30° Angle Dome Reflector
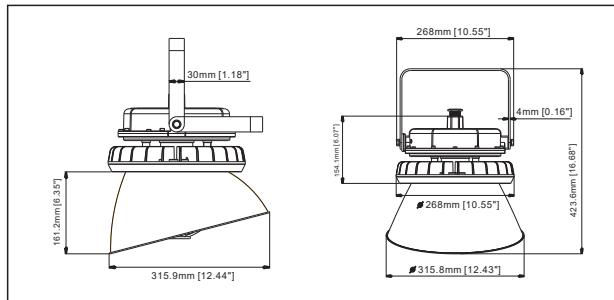
This structure can make the lighting distribution more concentrated for special beam angle.

Dome Reflector
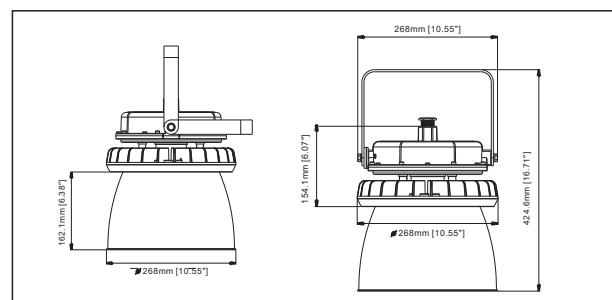
This structure can make the lighting distribution more concentrated.

100 Watt - 200 Watt Versions

Standard Bracket and Flat Glass Lens
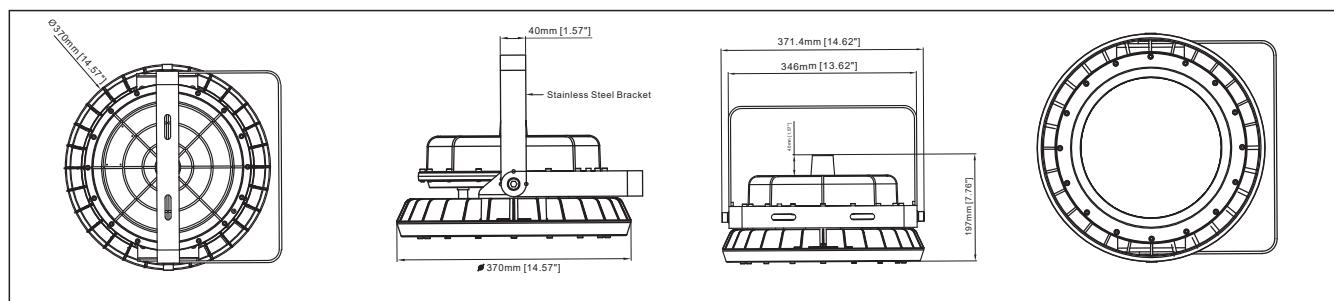
Stainless Steel Bracket

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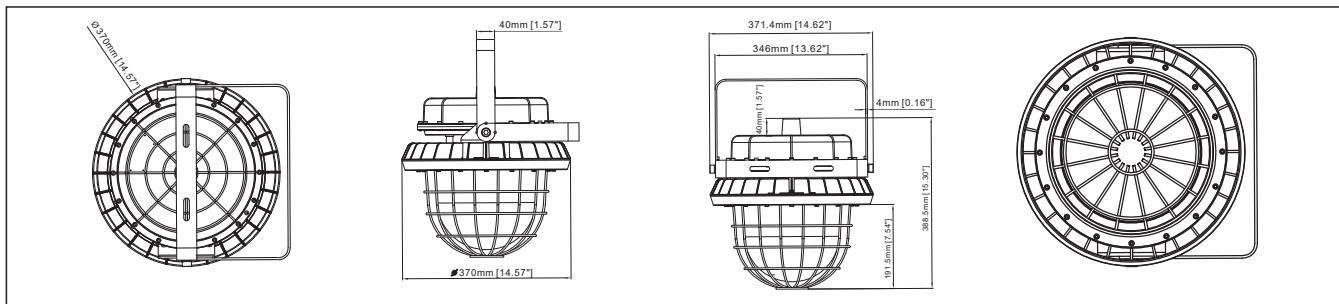
This structure type with bracket, global glass lens and wireguard to generate 180° light distribution. We also can put corn bulb In the global glass lens to make this beam angle up to 360°.

30° Angle Dome Reflector

1, Bracket, Global Glass Lens, flat LED module and 30° cut off angle reflector.
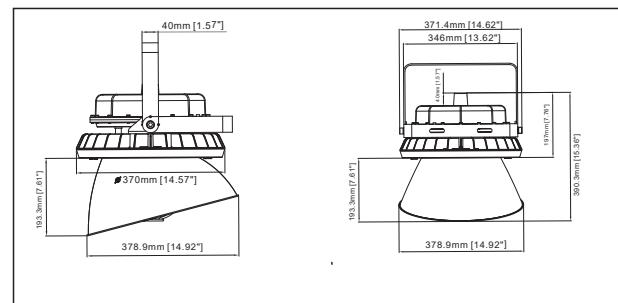
This structure can make the lighting distribution more concentrated for special beam angle.

Dome Reflector

1, Bracket, Global Glass Lens, flat LED module and dome reflector
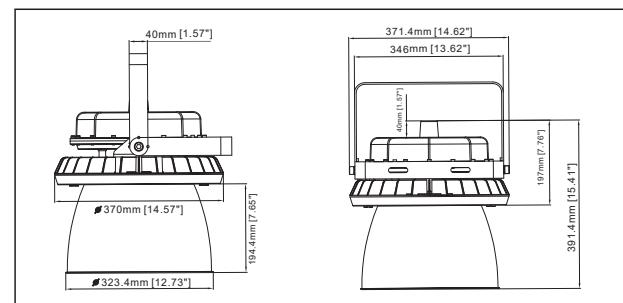
This structure can make the lighting distribution more concentrated.

Lighting Distribution
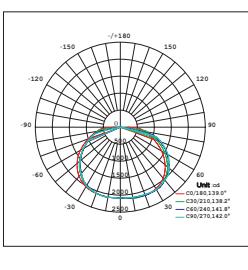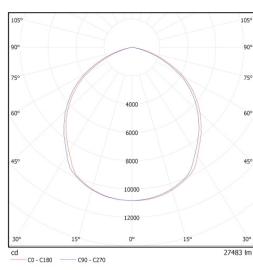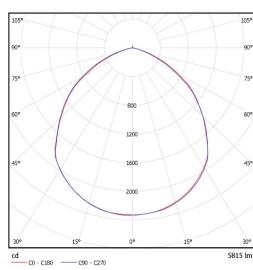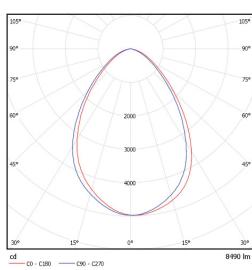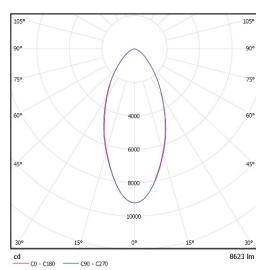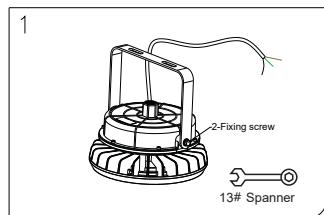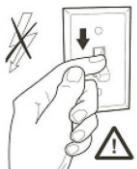
Meanning Beam Angle: 60°
Test Model: EX-80W BN50D60

Flat Glass Lens

Meanning Beam Angle: 90°
Test Model: EX-80W BN50D90

Flat Glass Lens

Meanning Beam Angle: 120°
Test Model: EX-40W B2N50D120

Flat Glass Lens

Meanning Beam Angle: 120°
Test Model: EX-200W B3N50D120

Flat Glass Lens

Meanning Beam Angle: 140. 2°
Test Model: EX-80W BN50D120

Global Glass Lens with wireguard

Ceiling Mounting

1
2-Fixing screw
13# Spanner

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

2
Flexible metal conduit
3/4 NPT
3/4 NTP(At least 6x Teeth need to tighten)

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

3
Ø10
140
91
16# Spanner
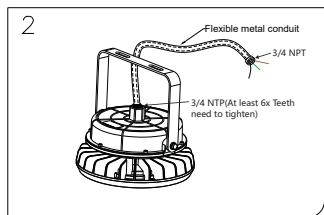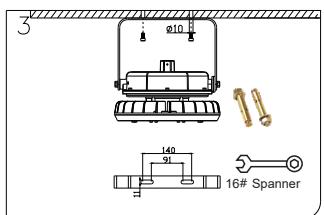
3. Drill 2x hole as Fig.2, the distance can be 91~140mm, fixing Ø10 expanded crews and bracket on ceiling.
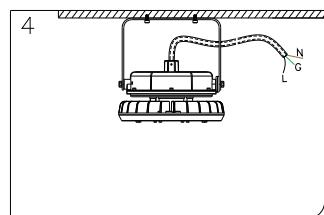
4
N
G
L

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

5
Ceiling mounting
Mounting Direction Adjustable Screw
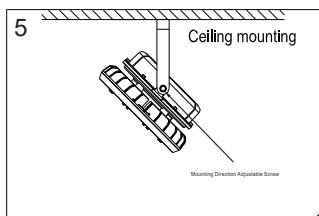
5. Adjust the beam angle from 0-180°.

Wall Mounting
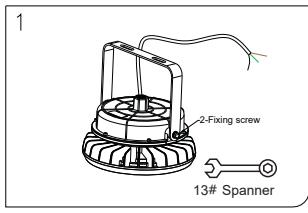
1
2-Fixing screw
13# Spanner

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

2
Flexible metal conduit
3/4 NPT
3/4 NTP(At least 6x Teeth need to tighten)

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

3
16# Spanner
140
91
11
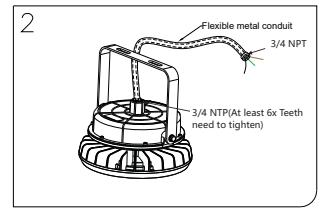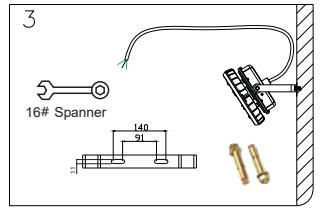
3. Drill 2x hole as Fig.2, the distance can be 91~140mm, fixing Ø10 expansion screws and bracket on ceiling.
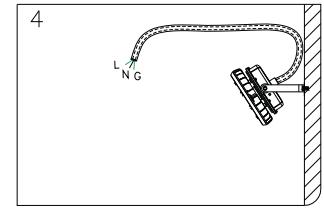
4
L
N
G

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

Pole Pendant

1

Make sure the length fit between pole and driver box more than 22mm for safety

3/4 NTP(At least 6x Teeth need to tighten)

or

3/4 NTP
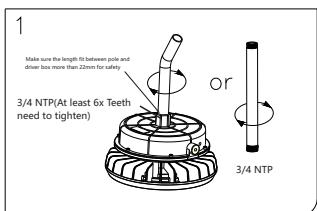
1. Take the fixture and pole accessory out from cartoon box, tighten pole as Fig.1.

2

4-Ø10.5

N
G
L
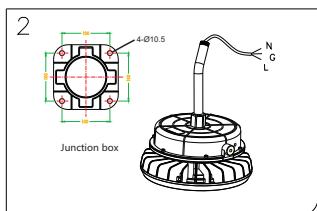
Junction box

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

3

Junction box

Chain of balance

Expanded crews

100mm

100mm

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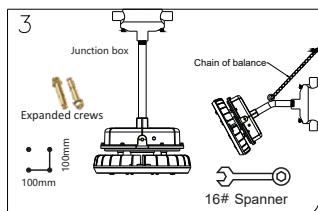
3. Drill 4x Ø10mm holes, as 100mm distance, install the junction box to the wall or ceiling as Fig.3, tighten the pole to the box, and adjust the chain of balance.
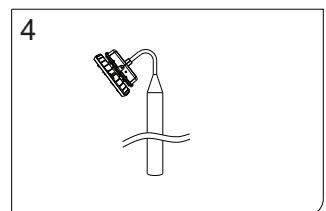
4

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

5

pole length can be Adjustable

Make sure the length fit between pole and driver box more than 22mm for safety

Model: Ex-D01
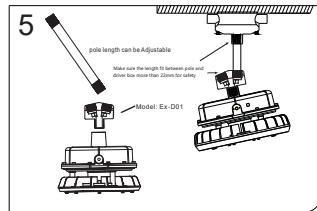
1. Adjustable pole installation. With this adjustable kit, you can Make any light distribution direct as you want.

6

Make sure the length fit between pole and driver box more than 22mm for safety

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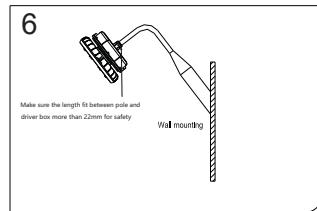
Optional: Install the fixture to the long pole and mount to the wall.

Hook Pendant
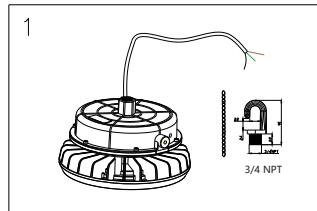
1

3/4 NPT

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

2

M3

The gap should be less than 13mm
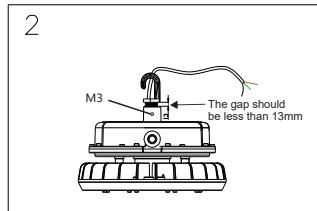
2. Tighten the hook with the fixture, at least 6x teeth need to tighten, fix the M3 screw to avoid the hook loosing .

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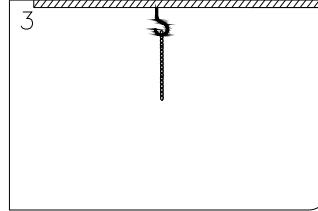
3. Drill 1 expansion screw hole and install it, and hang the chain as Fig.3.

4

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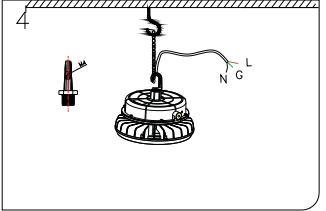
4. Hang the fixture to the hook as above, connect the AC cable, Black cable connect to L, white cable connect to N, green cable connect to grounding.

# Quick Arm Mounting without open driver box

1

Expansion bolts
4x Ø8 mm

94 [3.70]

94 [3.70]

4-Ø8

13# Spanner
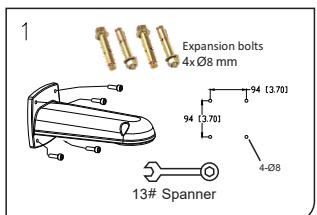
1. Drill 4x holes as above distance, and fix the arm on the wall, tighten 4x screwes as Fig.1.

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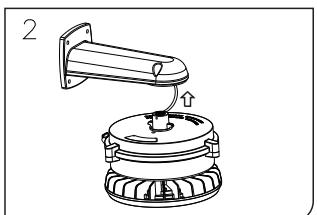
2. Contact the power AC wire with lamp, put the terminal into the arm.

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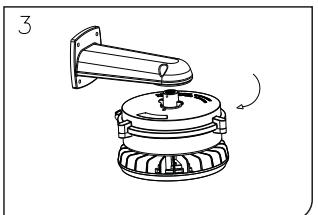
3. Match the circle part with arm, and rotate it to right.

4

45mm

8# allen key

make sure the screw be fixed well for safety
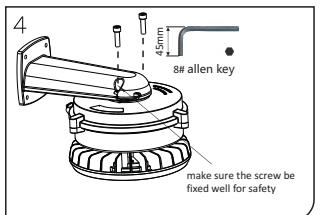
4. Tighten 2x screws to avoid the lamp loosed.

Arm or Ceiling Mounting by openning driver box

1

5# allen key

16# Spanner

45mm
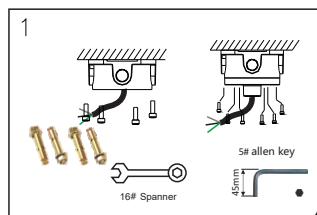
1 . Install the junction box to ceiling the via 4x expansion bolts, tighten the junction box cover screws by 5# allen key.

2

3/4 NPT adaptor

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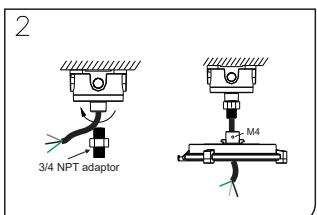
2. Through the cable to the hole of adaptor, install the 3/4" NPT adaptor and tighten it. Tighten the driver enclosure cover to adaptor. Finally, tighten M4 screw to avoid loosing.
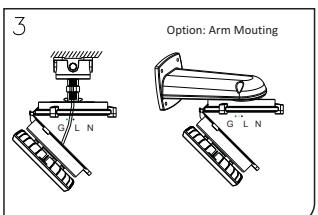
3

Option: Arm Mouting

G L N

G L N

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.
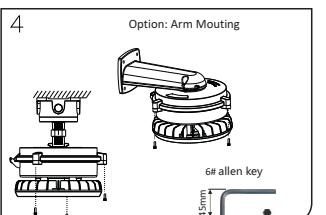
4

Option: Arm Mouting

6# allen key

45mm

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

Stanchion Mounting
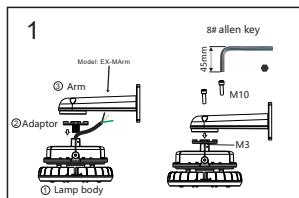
1

8# allen key
45mm
Model: EX-MArm
③ Arm
M10
②Adaptor
M3
① Lamp body

1. Tighten part 2 and assembly 1, and fix the M3 screw, install, arm to the adaptor, tighten the M10 via 8# allen key.

2

Alternative
Pole fitter
25° pole fitter
G N L
Max pole Ø50mm
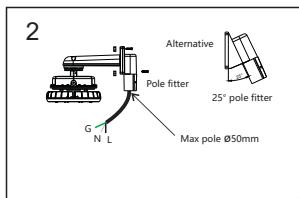
2. Install the pole fitter with arm via 4x M8 screws, the max suitable pole diameter 50mm, the alternative 25 degrss pole fitter.

3

G N L
Lamppost
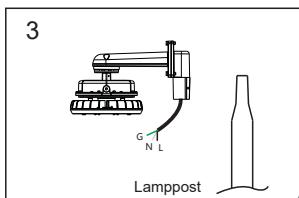
3. Contact the cable to AC wire, black one contact to live wire, white one contact to null wire, green one contact to grounding.

4

6# allen key
45mm
M8
Lamppost
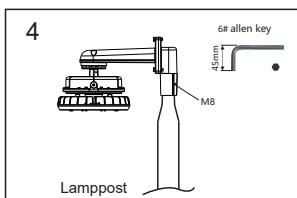
4. Slip the fitter to the lamppost and tighten M8 inner hexagonal screw.

Wall Mounting to junction box
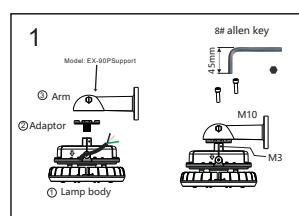
1

8# allen key
45mm
Model: EX-90PSupport
③ Arm
M10
②Adaptor
M3
① Lamp body

1. Tighten part 2 and assembly 1, and fix the M3 screw,install arm to the adaptor, tighten the M10 via 8# allen key.

2

Model: Ex-Junction01
100
100
16# Spanner
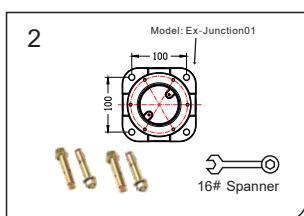
2. Drill 4x Ø10mm holes Install the junction box to the wall via M10 expanded screw.

3

L
N
G
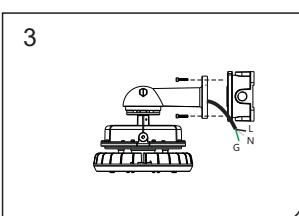
3. Contact the AC wire to power system, black one to Live wire, white one to Null wire, green one to grounding.

4

Alternative: 25° Arm
Model: EX-25PSupport
5# allen key
45mm
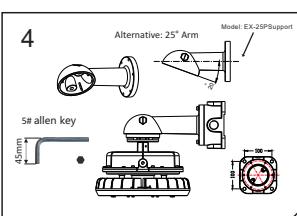
4. Tighten 6 x screws between arm and junction box, turn on the power to test the luminaires is work.

Accessories

● Name: Junction Box
  Material: Aircraft Aluminum A383

● Name: Hook Mount
  Material: Aircraft Aluminum A383

● Name: Metal Conduit
  Material: Stainless Steel and Aluminum

● Name: 12 Degree Conduit Mount
  Material: Iron with Power Coating

● Name: Conduit
  Material: Iron with Power Coating

● Name: Pendant Adapter
  Material: Aircraft Aluminum A383

● Name:Wall Arm Mount
  Material: Aircraft Aluminum A383

● Name: 25 Degree Pole Support
  Material: Aircraft Aluminum A383

● Name: 90 Degree Pole Support
  Material: Aircraft Aluminum A383

● Name: Dome Reflector
  Material: Aluminum A6061

● Name: Angle Reflector
  Material: Aluminum A6061

● Name: Safety Chain
  Material: Stainless Steel S30400