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Total Quality. Assured. IECEx IEC Ex ABS

ExplosionProof

LED High Bay/Low Bay

Model B2

Model B

Model B3

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

Applications

Oil and Gas industry

★ All petroleum production and refining
★ Petroleum loading and transportation
★ Petroleum storage and retail
★ LNG industry
★ All mining operations and service

Chemical industry

★ All types of paint facilities
★ Chemical production and storage

Ocean, marine and aerospace field

★ Ocean platform operation facilities and structure
★ Aerospace clean room and production
★ Ocean vessel operations

Metal treatment

★ Steel and aluminum factories
★ Pumping stations in any environment
★ Metal smelting, foundry and fabrication

Food and alcohol industry

★ Flour and fine particle production and storage
★ Food and distilling production
★ alcohol industry

Other high humidity, high dust, high temperature,vapor locations

Materials

★ Housing: copper free aluminum
★ Lens: glass
★ Hardware: stainless steel
★ Mounting Bracket: stainless steel

Basic Data

Product Number	Wattage	Color Temperature	Voltage	Lumens	Working Hours	CRI
EX-20W B2YZDA	20	4000K-5700K	AC100-277V	2800	5 years	70
EX-40W B2YZDA	40	4000K-5700K	AC100-277V	5600	5 years	70
EX-60W BYZDA	60	4000K-5700K	AC100-277V or AC200-480V	8400	5 years	70
EX-80W BYZDA	80	4000K-5700K	AC100-277V or AC200-480V	11200	5 years	70
EX-100W B3YZDA	100	4000K-5700K	AC100-277V or AC200-480V	14000	5 years	70
EX-120W B3YZDA	120	4000K-5700K	AC100-277V or AC200-480V	16800	5 years	70
EX-150W B3YZDA	150	4000K-5700K	AC100-277V or AC200-480V	21000	5 years	70
EX-200W B3YZDA	200	4000K-5700K	AC100-277V or AC200-480V	28000	5 years	70

"B, B2, B3"=Product series "Y"=D or N:Dimmable or non-dimmable "Z"= CCT, from 4000~5700K "D"=Beam angle: 40°, 60°, 90°, 120°

Key Features

- High quality SMT LED and Meanwell Driver.
- Light-weight design by aircraft aluminum.
- Heavy-duty and high impact resistance.
- Three connection cable entry points.
- Replaceable LED board and drivers.
- Integrated junction box for driver with emergency back up.
- Dimmable and battery back up function available.
- Marine rating powder coated appearance treatment.
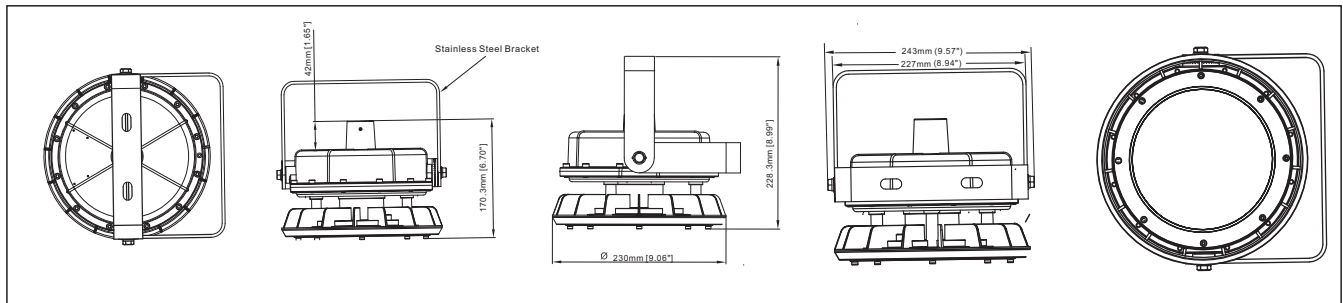
Value-Added Features

- 10kV surge protection.
- up to ten years limited warranty option.
- Emergency Battery back up.
- Working temperature can be more than 85°C.
- Various installation ways for different applications.
- Glass lens or Glass with polycarbonate lens to make bigger beam angle.

Mechanical Structure

Unit: mm or inch

B2 Series

Housing Option A: Bracket and Flat Glass Lens

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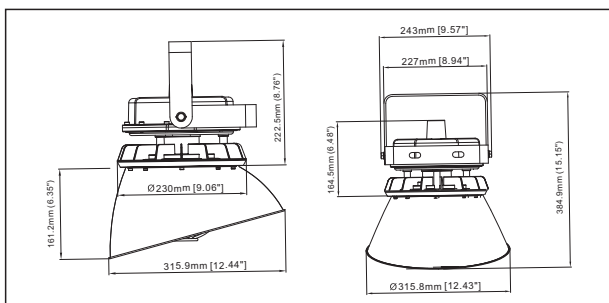
Housing Option B:

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

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°.
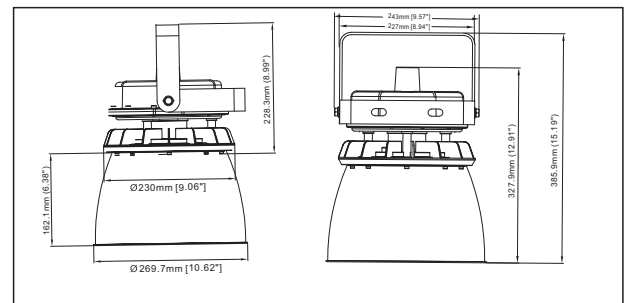
Housing Option C

1, Bracket, Global Glass Lens, flat LED module and 30° cut off lampshade.
2, Bracket, Global Glass Lens, LED corn bulb and 30° cut off lampshade.

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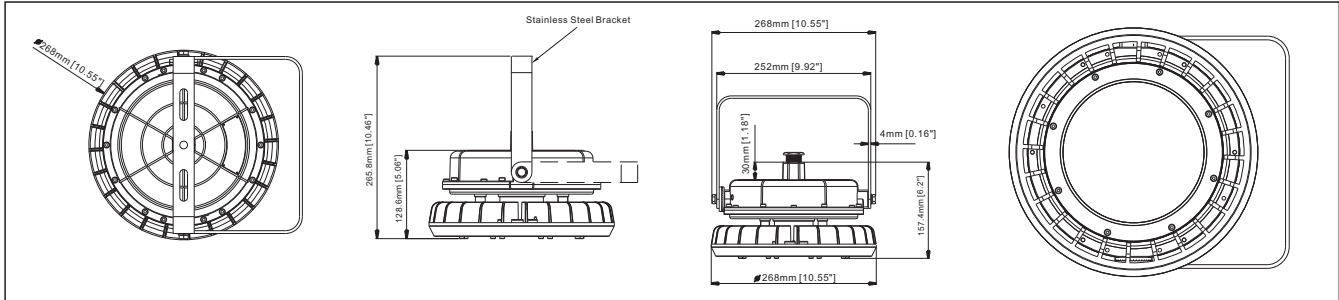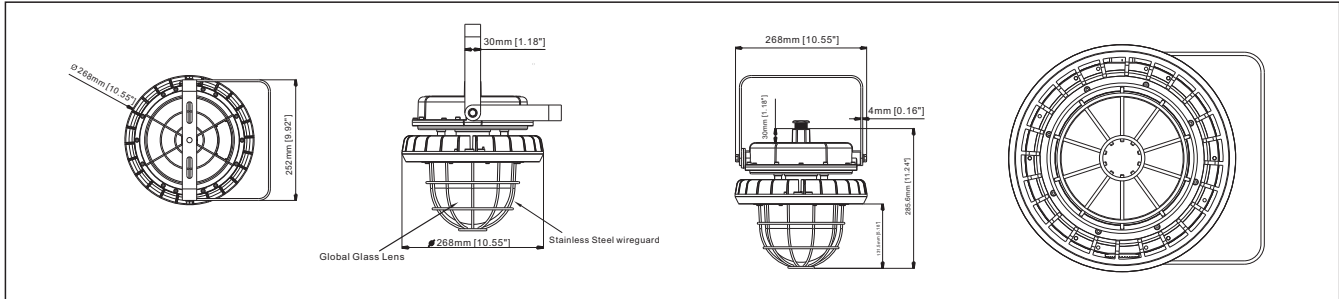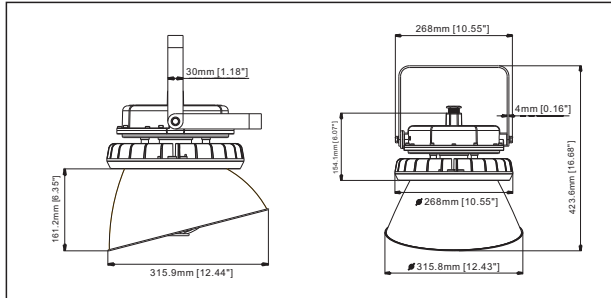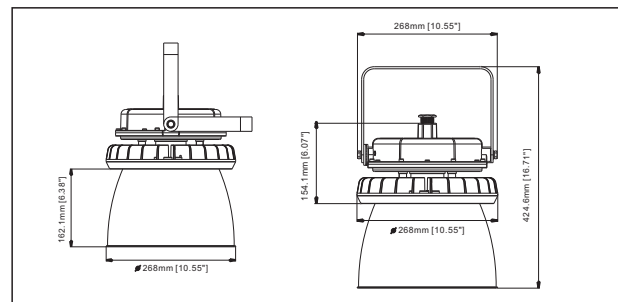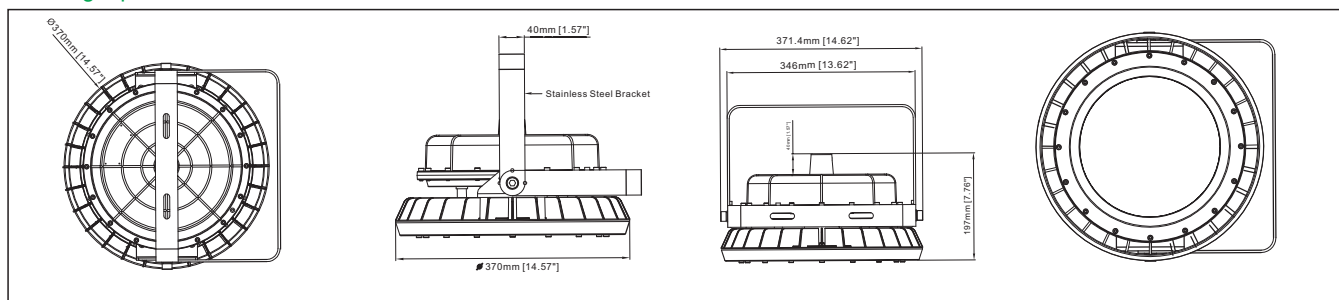
Housing Option D

1, Bracket, Global Glass Lens, flat LED module and lampshade.
2, Bracket, Global Glass Lens, LED corn bulb and lampshade.

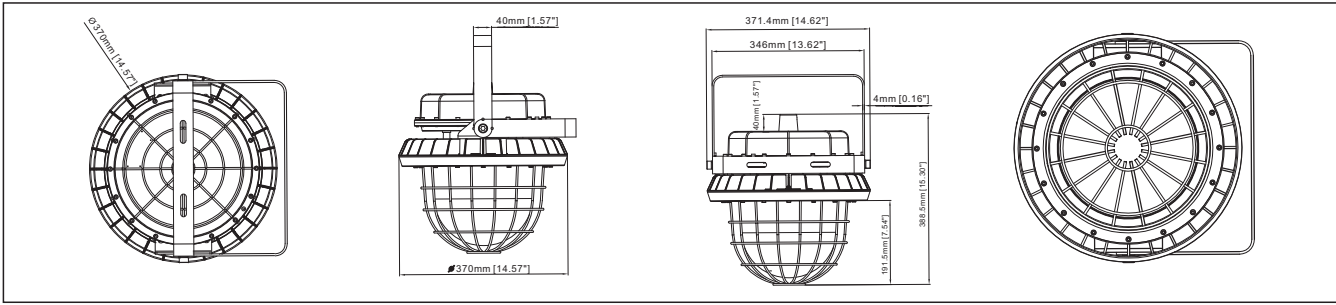This structure can make the lighting distribution more concentrated.

B Series

Housing Option A: Bracket and Flat Glass Lens

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

Housing Option B:

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

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°.

Housing Option C

1, Bracket, Global Glass Lens, flat LED module and 30° cut off lampshade.
2, Bracket, Global Glass Lens, LED corn bulb and 30° cut off lampshade.

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

Housing Option D

1, Bracket, Global Glass Lens, flat LED module and lampshade.
2, Bracket, Global Glass Lens, LED corn bulb and lampshade.

This structure can make the lighting distribution more concentrated.

B3 Series

Housing Option A: Bracket and Flat Glass Lens

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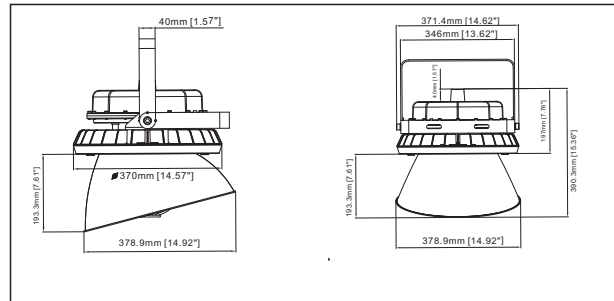
Housing Option B:

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

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°.
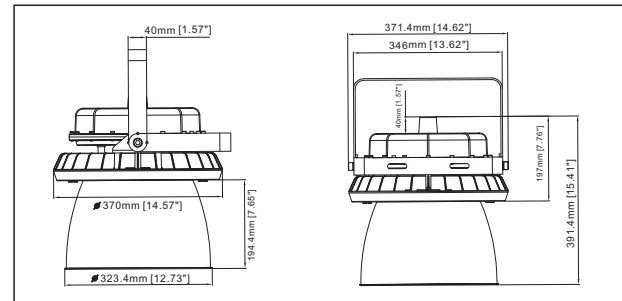
Housing Option C

1, Bracket, Global Glass Lens, flat LED module and 30° cut off lampshade.
2, Bracket, Global Glass Lens, LED corn bulb and 30° cut off lampshade.

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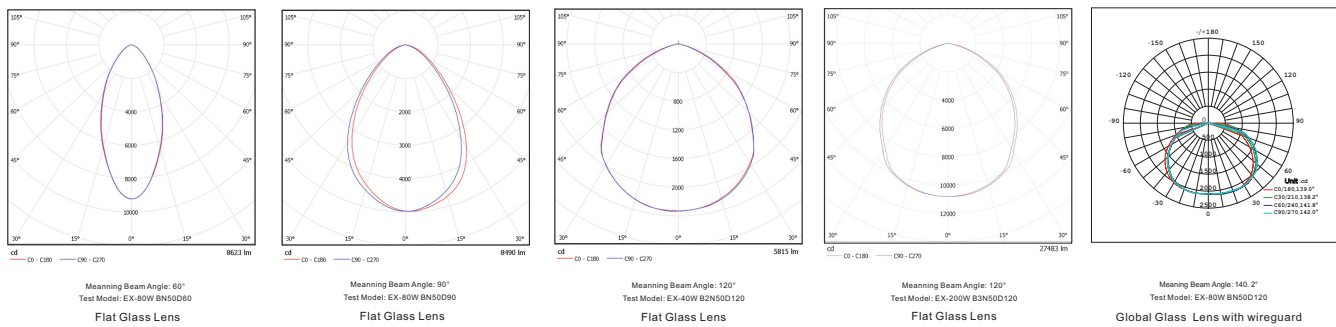
Housing Option D

1, Bracket, Global Glass Lens, flat LED module and lampshade.
2, Bracket, Global Glass Lens, LED corn bulb and lampshade.

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

Installation Manual

WARNING

READ INSTRUCTIONS CAREFULLY BEFORE INSTALLING. KEEP THIS INSTRUCTIONS FOR FUTURE REFERENCE.

Fixtures must be wired in accordance with the National electrical code and all applicable local codes. Proper grounding is required for safety.

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A QUALIFIED ELECTRICIAN WHO IS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

Warning: Risk of fire or electric shock. High bay Light installation requires knowledge of luminaires and electrical systems. If not qualified, DO NOT try to install. Please contact an electrician.

Warning: Risk of fire or electric shock. Suitable for wet locations. Make sure the power is off premier to install.

Warning: Risk of fire or electric shock. Suitable for non-insulated surface and frame.DO NOT cover fixture with insulation liner or similar material.

Warning: DO NOT install in unstable, loose or breakable surfaces.

Warning: DO NOT let objects impact or exert force on the surface of the fixture.
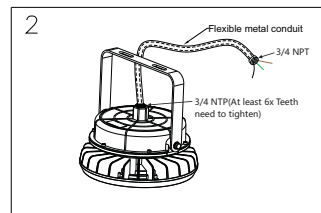
Ceiling Mounting

⚠ **WARNING**
Risk of fire, Electric shock or personal injury
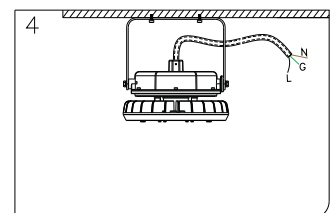Before installation, turn off power!
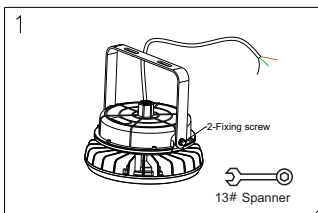
1
2-Fixing screw
13# Spanner

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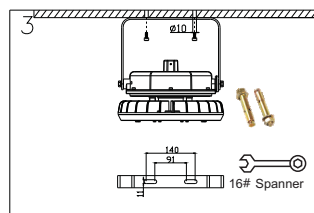
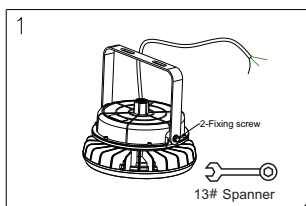3. Drill 2x hole as Fig.2, the distance can be 91~140mm, fixing Ø10 expanded crews and bracket on ceiling.

4
N
G
L

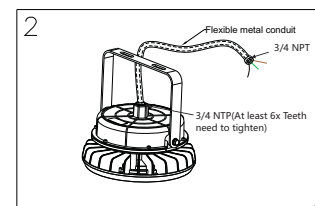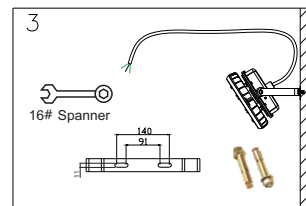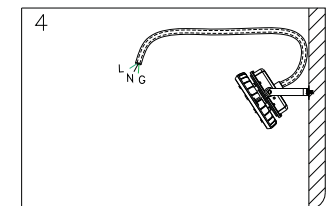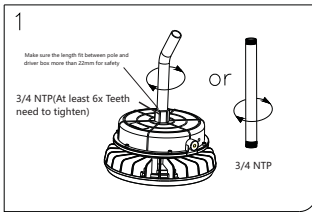4. Connect the AC cable, Black cable conect to L, white cable connect to N, green cable connect to grounding.

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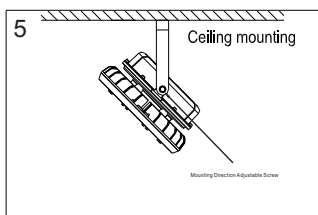
5. Adjust the beam angle from 0-180°.

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

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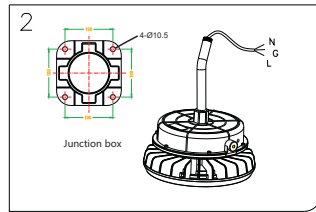
4
L
N
G

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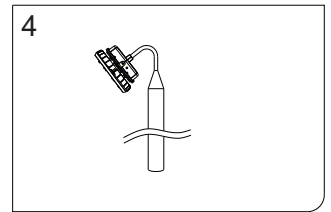
Pole Pendant

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.
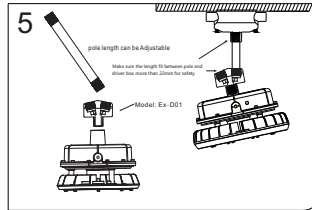
2

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.
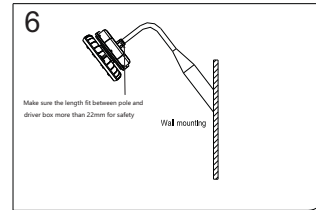
3

Junction box

Chain of balance

Expanded crews

100mm

100mm

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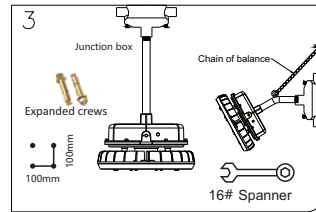
3. Drill 4x Ø10mm holes, as 100mm distance, install the junction box to the wall or ceiling as Fig.3, tighten the pole to the box, and adjust the chain of balance.

4

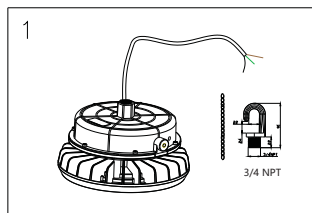Optional: Install the fixture to the long pole after cable connecting.

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
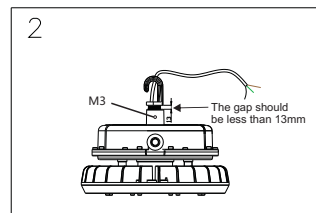
Wall mounting

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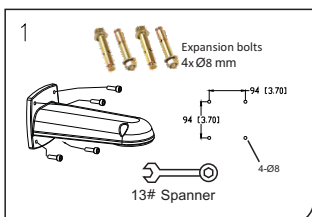
3
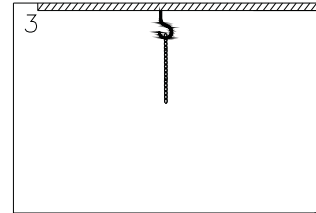
3. Drill 1 expansion screw hole and install it, and hang the chain as Fig.3.

4

N
G
L
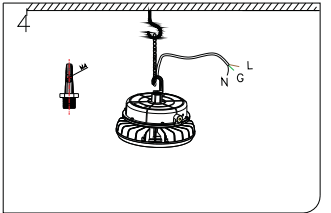
4. Hang the fixture to the hook as above, connect the AC cable, Black cable connect to L, white cable connect to N, green cable connect to grounding.
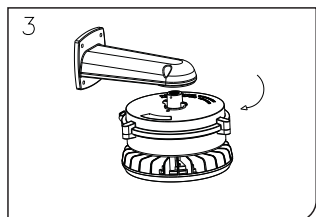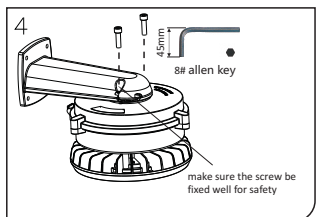
Quick Arm Mounting without open driver box

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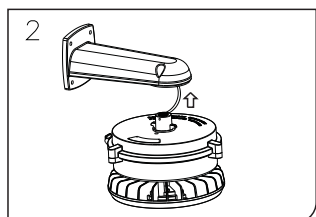
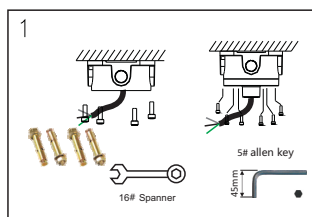2. Contact the power AC wire with lamp, put the terminal into the arm.

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

2

M4

3/4 NPT adaptor

45mm
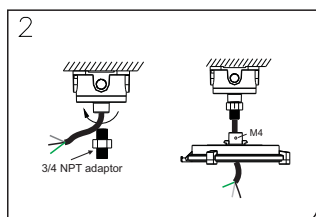
2. Through the cable to the hole of adaptor, install the 3/4" NPT adaptor and tighten it. Tighten the driver enclosure cover to adaptor. Finally, tighten M4 screw to avoid loosing.

3

Option: Arm Mouting

G L N

G L N
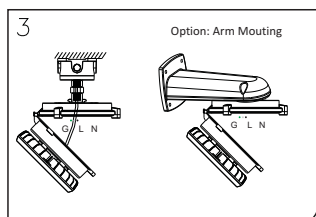
3. Hang the lamp housing to the driver enclosure cover, contact the AC wire as black one to live wire, white one to null wire, green one to grounding.
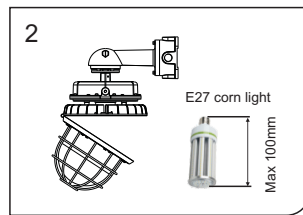
4

Option: Arm Mouting

6# allen key

45mm
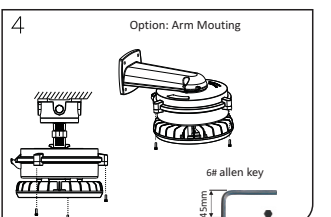
4. Tighten 3x M8 screws for driver enclosure as above.

● The advantage of this arm or ceiling mounting installation is that it only requires one engineer for installation to save labor.
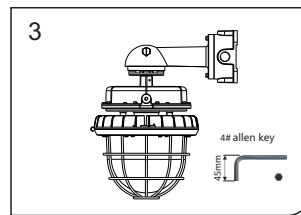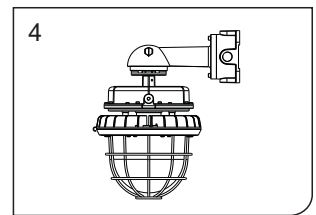
Corn Bulb Exchange

1
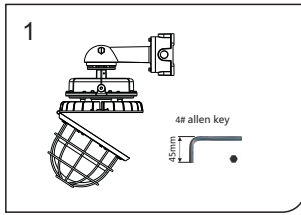
4# allen key
45mm

1. Undo the M5 screws via 4# allen key, rotate the spherical glass as above fig.

2

E27 corn light
Max 100mm

2. Tighten The E27 corn light to lamp holder, length shall be less than 100 mm, close the spherical glass.
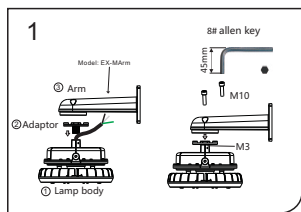
3

4# allen key
45mm

3. Tighten M5 screws via 4# allen key, double check the gap is less than 0.5mm.

4

4. Turn on the power to test replacement corn light works.

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
Max pole Ø50mm
G N L
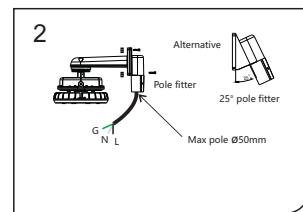
2. Install the pole fitter with arm via 4x M8 screws, the max suitable pole diameter 50mm, the alternative 25 degress pole fitter.
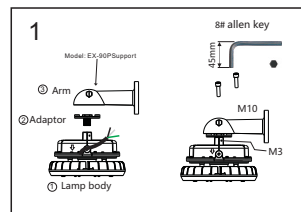
3

G N L
Lamppost
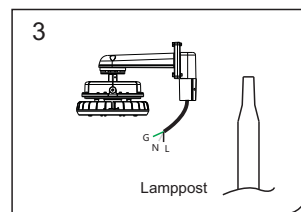
3. Contact the cable to AC wire, black one contact to live wire, white one contact to null wire, green one contact to grounding.
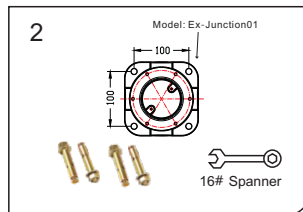
4

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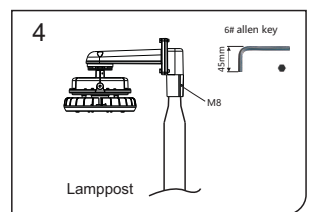
4. Slip the fitter to the lamppost and tighten M8 inner hexagonal screw.

Wall mounting to junction box

1

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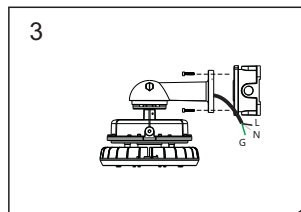① Lamp body

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
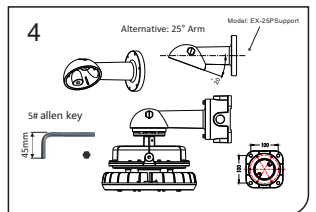
4. Tighten 6 x screws between arm and junction box, turn on the power to test the luminaires is work.

Accessories

● Model: Ex-Junction01
Name: Junction Box
Material: Aircraft Aluminum A383

● Model: EX-Hook
Name: Installation Hook
Material: Aircraft Aluminum A383

● Model: Ex-Conduit01
Name: Metal Conduit
Material: Stainless Steel and Aluminum

● Model: EX-WPipe
Name: Winding Swing Pipe
Material: Iron with Power Coating

● Model: EX-SPipe
Name: Winding Swing Pipe
Material: Iron with Power Coating

● Model: Ex-D01
Name: Pendant Direction Adapter
Material: Aircraft Aluminum A383

● Model: EX-MArm
Name: Surface Mounting Arm
Material: Aircraft Aluminum A383

● Model: EX-25PSupport
Name: 25 Degree Pole Support
Material: Aircraft Aluminum A383

● Model: EX-90PSupport
Name: 90 Degree Pole Support
Material: Aircraft Aluminum A383

● Model: Ex-Junction01
Name: Junction Box
Material: Aluminum A6061

● Model: Ex-Junction01
Name: Junction Box
Material: Aluminum A6061

● Model: Ex-Junction01
Name: Junction Box
Material: Stainless Steel S30400