

# ExplosionProof

## LED High Bay/Low Bay



Model B2



Model B



Model B3



### 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
YB-20W B2YZDA	20	4000K-5700K	AC100-277V	2800	5 years	70
YB-40W B2YZDA	40	4000K-5700K	AC100-277V	5600	5 years	70
YB-60W BYZDA	60	4000K-5700K	AC100-277V or AC200-480V	8400	5 years	70
YB-80W BYZDA	80	4000K-5700K	AC100-277V or AC200-480V	11200	5 years	70
YB-100W B3YZDA	100	4000K-5700K	AC100-277V or AC200-480V	14000	5 years	70
YB-120W B3YZDA	120	4000K-5700K	AC100-277V or AC200-480V	16800	5 years	70
YB-150W B3YZDA	150	4000K-5700K	AC100-277V or AC200-480V	21000	5 years	70
YB-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°

### Explosion Protection

Marking ATEX	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, Groups A, B, C, D Class II, Division 1, Groups E, F, G Class II, Division 2, Groups 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

## 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

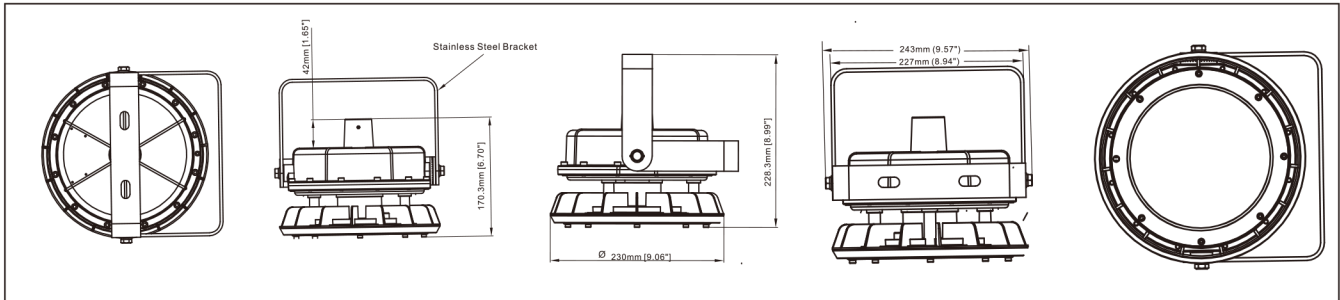
- 10kV surge protection.
- Up to ten years limited warranty option.
- Emergency Battery back up.
- Working temperature can be more than 85°C.
- Various installation ways for different applications.
- Glass lens or Glass with polycarbonate lens to make bigger beam angle.

## Mechanical Structure

Unit: mm or inch

### B2 Series

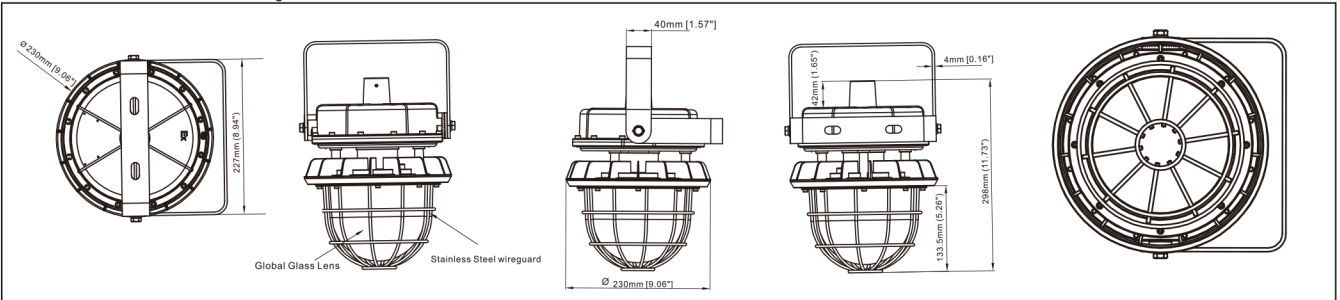
#### Housing Option A: Bracket and Flat Glass Lens



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

#### Housing Option B:

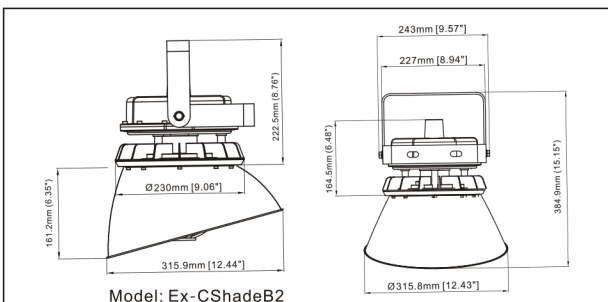
- 1, Bracket, Global Glass Lens, Wireguard and flat LED module.
- 2, Bracket, Global Glass Lens, Wireguard and LED corn bulb.



This structure type with bracket, global glass lens and wireguard generates 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

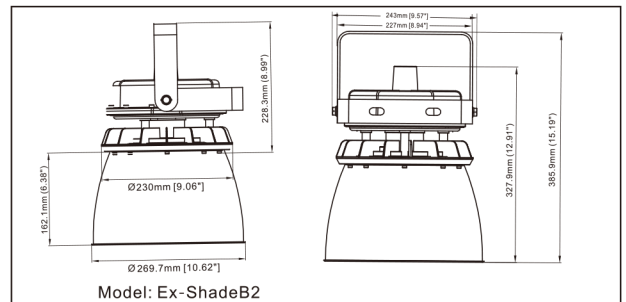
- 1, Bracket, Global Glass Lens, flat LED module and 30° cut off lampshade.
- 2, Bracket, Global Glass Lens, LED corn bulb and 30° cut off lampshade.



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

#### Housing Option D

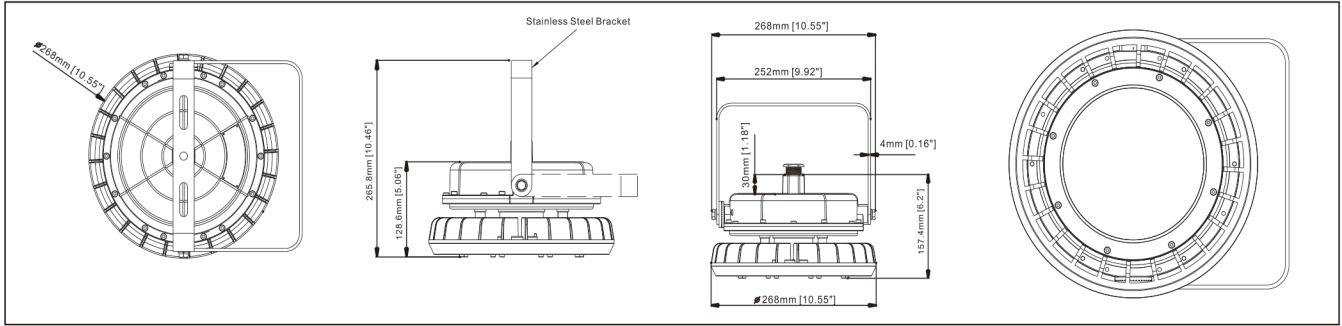
- 1, Bracket, Global Glass Lens, flat LED module and lampshade.
- 2, Bracket, Global Glass Lens, LED corn bulb and lampshade.



This structure can make the lighting distribution more concentrated.

## B Series

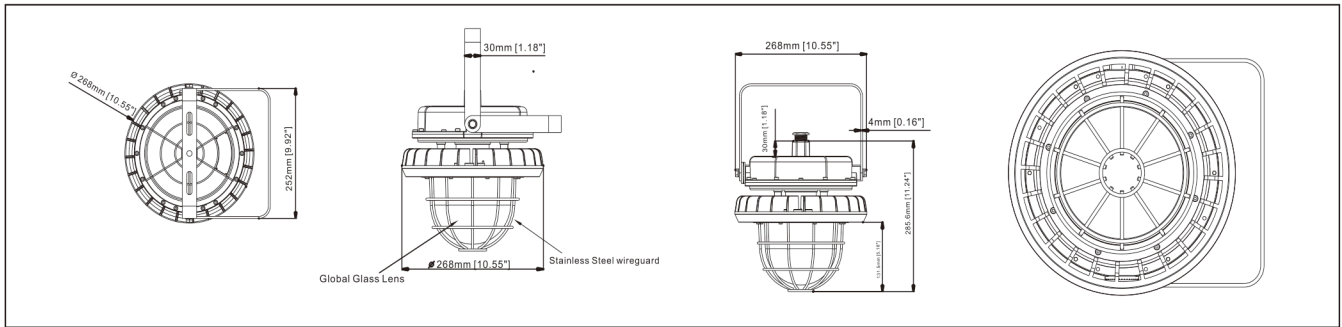
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This structure type with bracket, flat glass and optics lens generates 40°, 60°, 90° and 120° light distribution.

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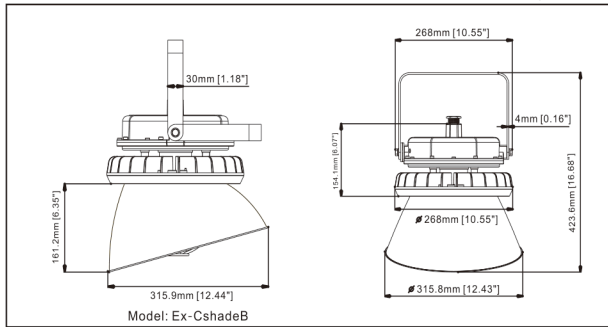
- 1, Bracket, Global Glass Lens, Wireguard and flat LED module.
- 2, Bracket, Global Glass Lens, Wireguard and LED corn bulb.



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### Housing Option C

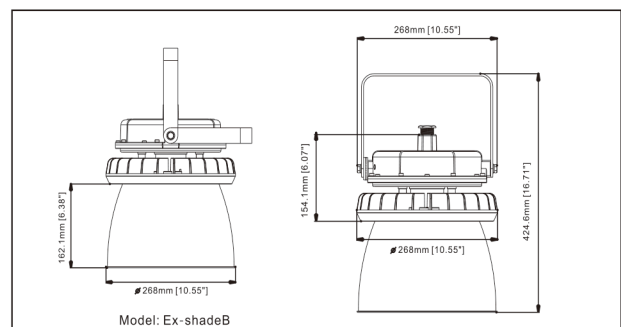
- 1, Bracket, Global Glass Lens, flat LED module and 30° cut off lampshade.
- 2, Bracket, Global Glass Lens, LED corn bulb and 30° cut off lampshade.



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

### Housing Option D

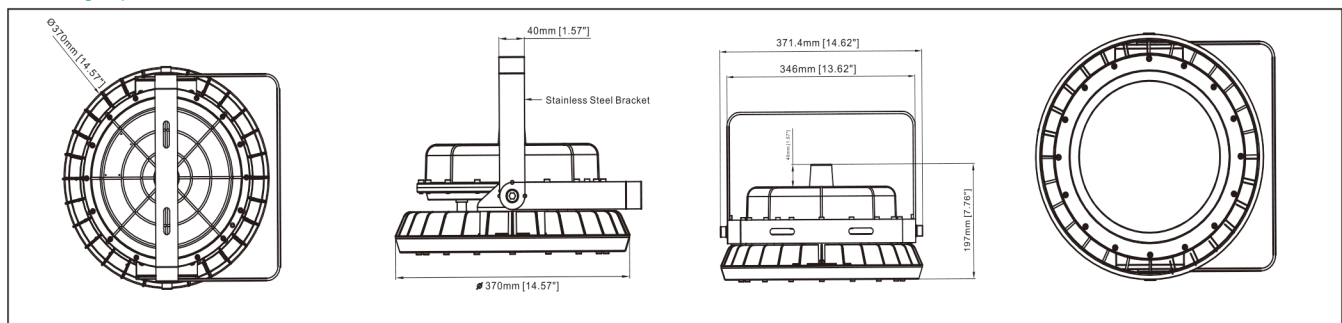
- 1, Bracket, Global Glass Lens, flat LED module and lampshade.
- 2, Bracket, Global Glass Lens, LED corn bulb and lampshade.



This structure can make the lighting distribution more concentrated.

## B3 Series

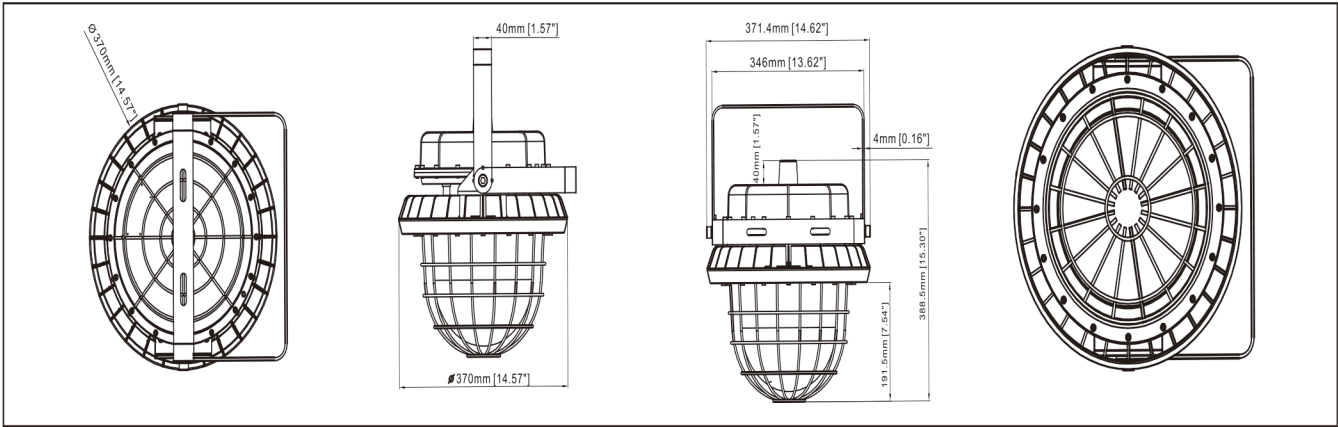
### Housing Option A: Bracket and Flat Glass Lens



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

## Housing Option B:

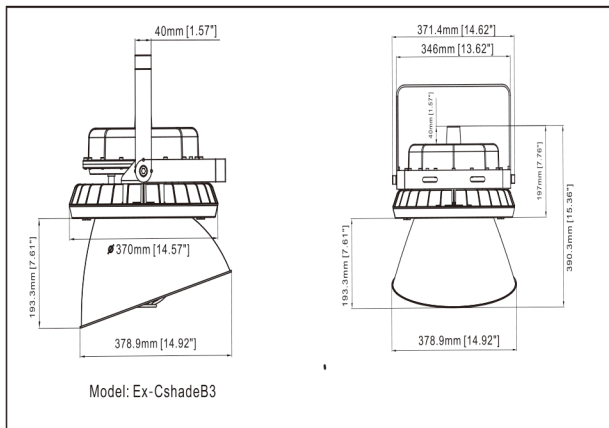
- 1, Bracket, Global Glass Lens, Wireguard and flat LED module.
- 2, Bracket, Global Glass Lens, Wireguard and LED corn bulb.



This structure type with bracket, global glass lens and wireguard generate S 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

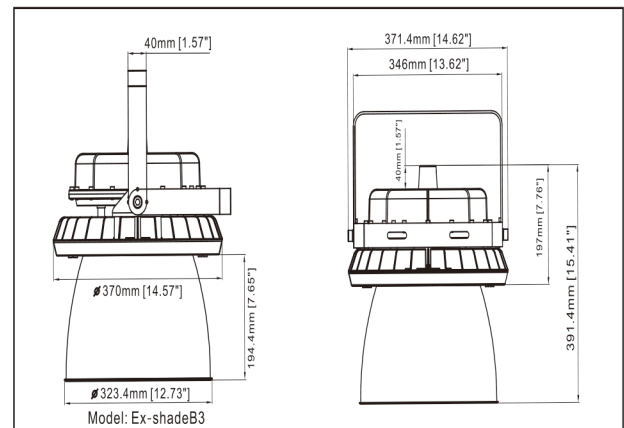
- 1, Bracket, Global Glass Lens, flat LED module and 30° cut off lampshade.
- 2, Bracket, Global Glass Lens, LED corn bulb and 30° cut off lampshade.



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

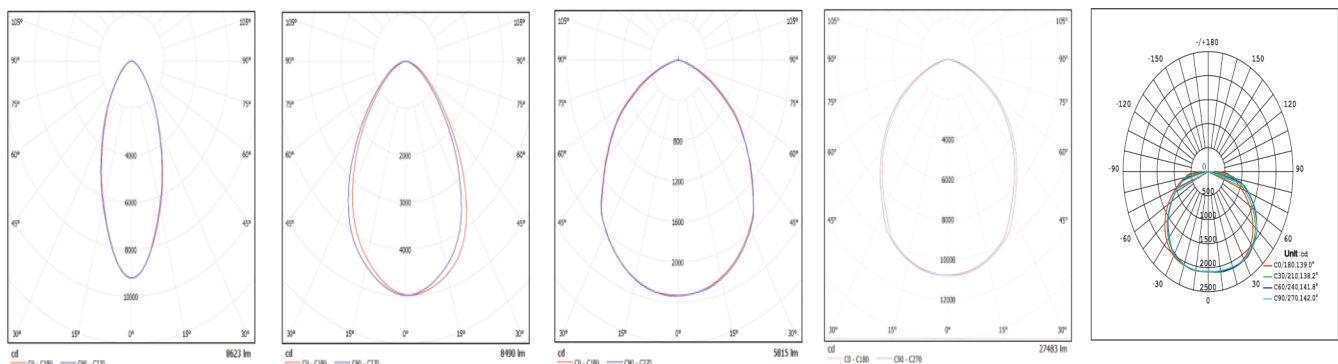
## Housing Option D

- 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





# Installation Manual

## WARNING

READ THIS INSTRUCTION CAREFULLY BEFORE INSTALLING. KEEP THIS INSTRUCTION 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 prior 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.

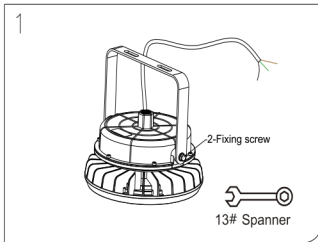
**Warning:** DO NOT install in unstable, loose or breakable surfaces.

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

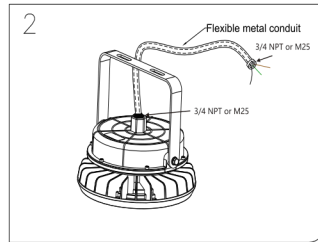
## Ceiling Mounting



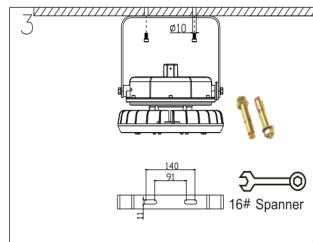
**WARNING**  
Risk of fire, Electric shock or personal injury  
Before installation, turn off power!



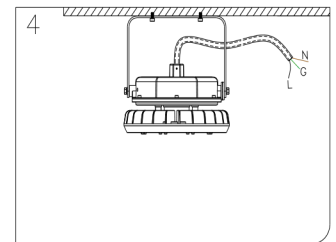
1. Take the fixture and accessory out from carton box, tighten 2x angle holder screw as Fig.1.



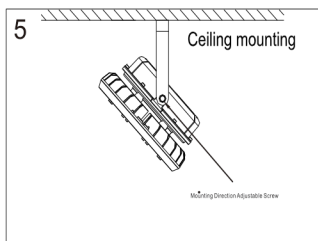
2. Install and tighten flexible metal conduit with the fixture.



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

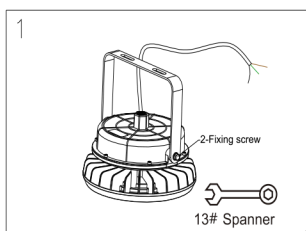


4. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

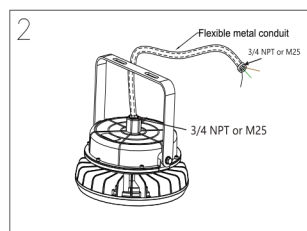


5. Adjust the beam angle from 0-180°.

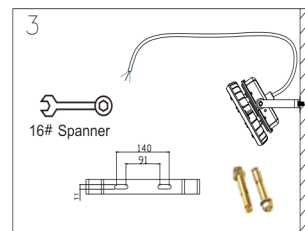
## Wall Mounting



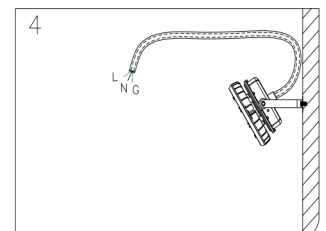
1. Take the fixture and accessory out from carton box, tighten 2x angle holder screw as Fig.1.



2. Install and tighten flexible metal conduit with the fixture.

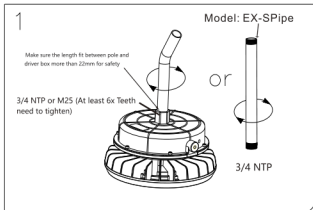


3. Drill 2x hole as Shown in Fig.2, the distance can be 91~140mm, fixing  $\varnothing 10$  expansion screws and bracket on ceiling.

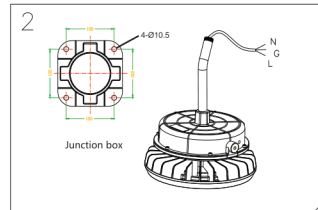


4. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

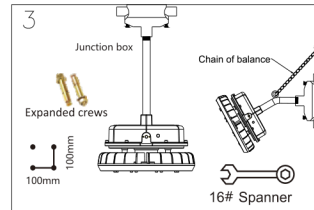
# Pole Pendant



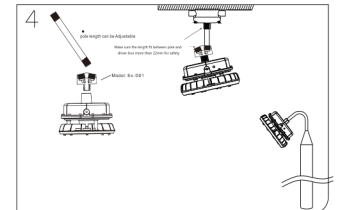
1. Take the fixture and pole accessory out from carton box, tighten pole as shown in Fig.1.



2. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

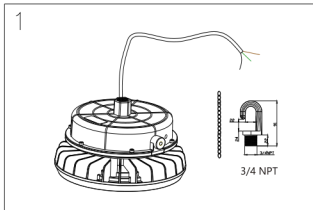


3. Drill 4x Ø10mm holes, as 100mm distance, install the junction box to the wall or ceiling as shown in Fig.3, tighten the pole to the box, and adjust the chain of balance.

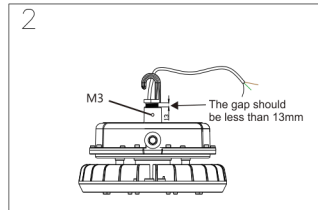


4. Adjustable pole installation. With this adjustable kit, you can Make any light distribution direct as you want. Optional: Install the fixture to the long pole after cable connecting cable.

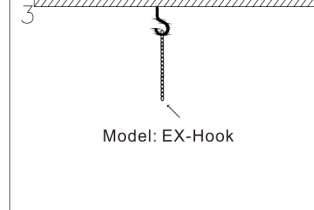
# Hook Pendant



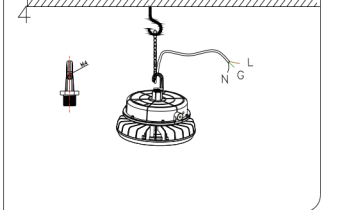
1. Take the fixture and accessory out from carton box, tighten 2x angle holder screw as Fig.1.



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



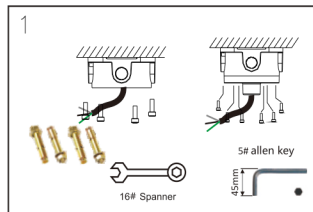
3. Drill 1 expansion screw hole and install it, and hang the chain as shown in Fig.3.



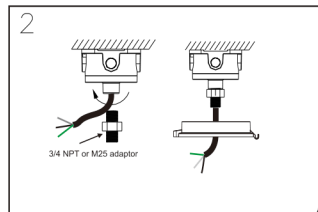
4. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

# Ceiling Mounting with junction box

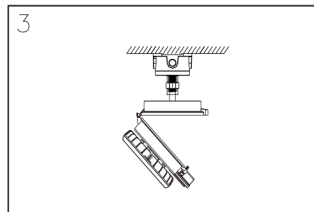
- This installation method is only for Model B2 and Model B. It can not be applied on model B3 because model B3 is too heavy.
- Only one electrician is required for this installation.



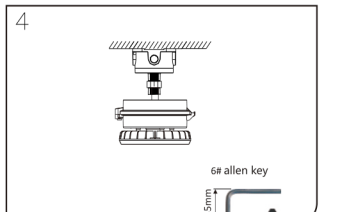
1. Install the junction box to ceiling via the 4x expansion bolts, tighten the junction box cover screws by 5# allen key.



2. Install the 3/4" NPT adapter through the cable to the hole of adaptor tighten the driver enclosure cover to adaptor via M4 screw to prevent loosening.

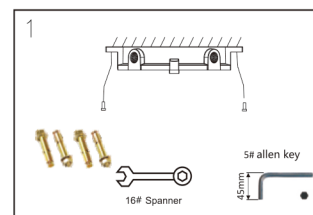


3. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

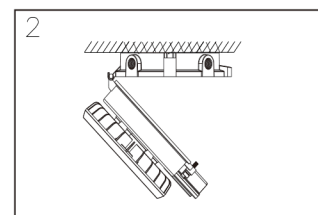


4. Tighten 3x M8 screws for driver enclosure as shown above.

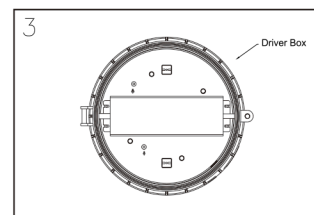
# Ceiling Direct Mounting



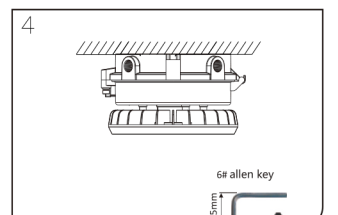
1. Install the junction box to ceiling via the 4x expansion bolts, tighten the junction box cover screws by 5# allen key.



2. Install the 3/4" NPT or M25 adaptor through the cable to the hole of adaptor tighten the driver enclosure cover to adaptor via M4 screw to prevent loosening.



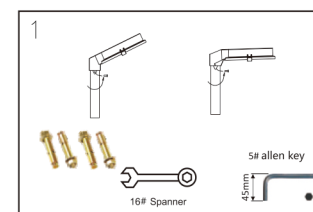
3. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.



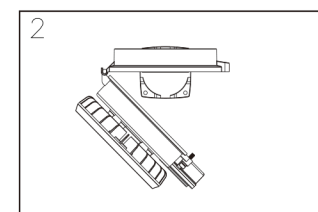
4. Tighten 3x M8 screws for driver enclosure as shown above.

# Arm Mounting by opening driver box 1

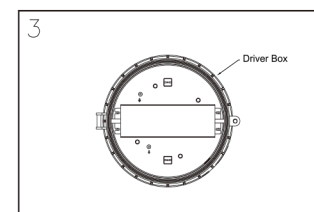
- This installation method is only for Model B2 and Model B. It can not be applied on model B3 because model B3 is too heavy.
- Only one electrician is required for this installation.



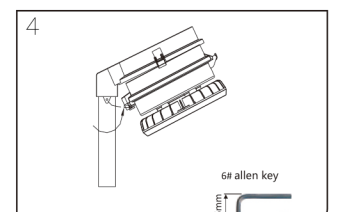
1. Install the driver enclosure to the pole.



2. Hang the luminaire to the back cover.



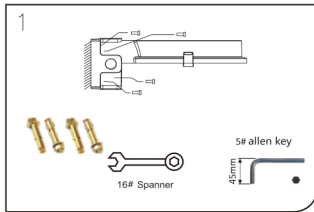
3. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.



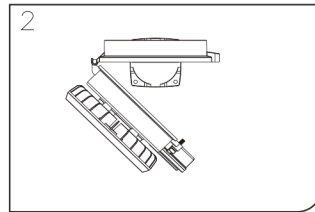
4. Tighten 3x M8 screws for driver enclosure as shown above.

## Arm Mounting by opening driver box 2

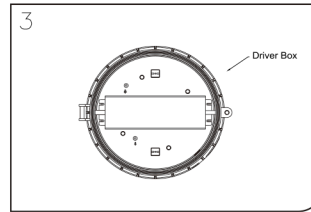
- This installation method is only for Model B2 and Model B. It can not be applied on model B3 because model B3 is too heavy.
- Only one electrician is required for this installation.



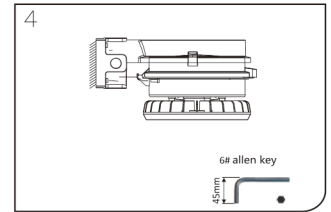
1. Install the arm to the bar by four screws.



2. Hang the luminaire to the arm.

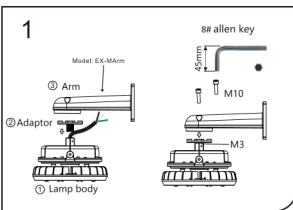


3. Connect black cable to L, Connect White cable to N, Connect green cable to grounding.

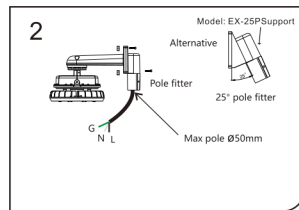


4. Tighten 3x M8 screws for driver enclosure as shown above.

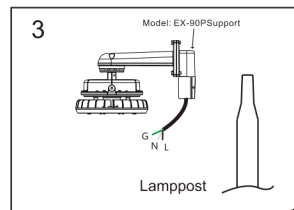
## Stanchion Mounting



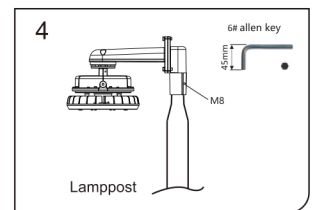
1. Tighten part 2 and assembly 1, and fix the M3 screw, install arm to the adaptor, tighten the M10 via 8# allen key.



2. Install the pole fitter with arm via 4x M8 screws, the max suitable pole diameter 50mm, the alternative 25 degree pole fitter.

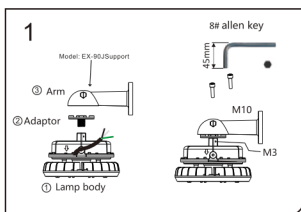


3. Contact the cable to AC wire, black one contact to live wire, white one contact to null wire, green one contact to grounding.

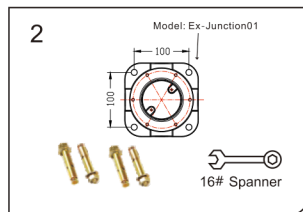


4. Slip the fitter to the lamppost and tighten M8 inner hexagonal screw.

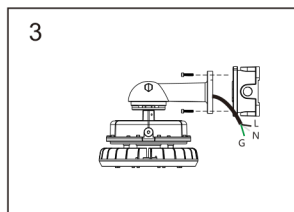
## Wall Mounting to junction box



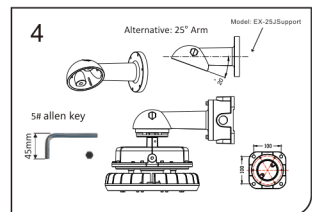
1. Tighten part 2 and assembly 1, and fix the M3 screw, install arm to the adaptor, tighten the M10 via 8# allen key.



2. Drill 4x Ø10mm holes. Install the junction box to the wall via M10 expanded screw.



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



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

## Accessories



- Model: YB-Junction01  
Name: Junction Box  
Material: Aircraft Aluminum A383



- Model: YB-Hook  
Name: Installation Hook  
Material: Aircraft Aluminum A383



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



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



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



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



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



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



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



- Model: YB-90JSupport  
Name: 90° Arm to Junction box  
Material: Aircraft Aluminum A383



- Model: YB-25JSupport  
Name: 25° Arm to Junction box  
Material: Aircraft Aluminum A383



- Model: YB-DArm  
Name: Direct Mounting Arm  
Material: Aircraft Aluminum A383