EVE

EVERY INDUSTRY

LED EXPLOSION PROOF LIGHT EXPERT

Series A
Rated Power: 20-100W
Input: 100-277VAC/200-480VAC

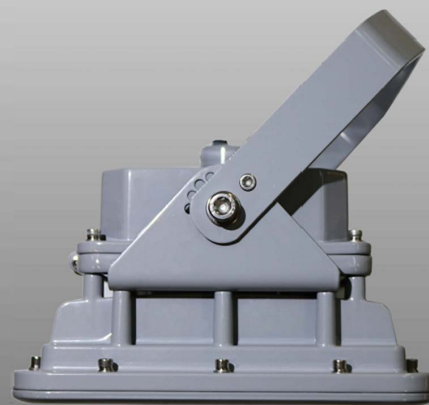**Ratings and protection level**

INGRESS PROTECTION: IP66
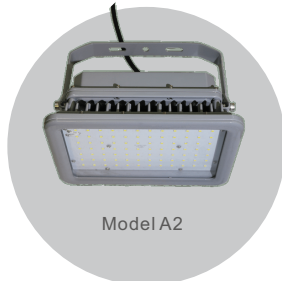EN60079/IEC60079
Zone 2/22

Model A3 up to 200W

0 ~180 degree adjustable installation

LED INDUSTRIAL

Ex / IECEx

Series A Specification

EVE

Explosion Proof

LED Flood Light

Model A2

Model A

Model A3

Explosion Protection

Marking Atex	II3 G Ex eb IIC T5/T6 Gb
	II2 D Ex op is tb IIIC T95°C/T80°C Db IP66
Marking IECEX	Ex eb IIC T5/T6 Gb
	Ex op is tb IIIC T95°C/T80°C Db IP66
Other Rating	IP 66

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 painting 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 manufacturing

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

Other high humidity, dust, high temperature, vapor locations

Materials

- ★ Housing: Die-casting aluminum
- ★ Diffuser: Tempered glass
- ★ Bolts: Stainless steel
- ★ Mounting Bracket: Stainless steel

Basic Data

Product Number	Wattage	CCT	Voltage Options	Lumens	Warranty	CRI	Emergency Time(Option)
EX-20W A2YZDA	20			2800			
EX-40W A2YZDA	40			5600			
EX-60W AYZDA	60		AC: 100-277V ☐	8400			
EX-80W AYZDA	80	2700K-7000K	AC: 200-480V ☐	11200	5 years	70+	3 hours
EX-100W AYZDA	100		DC: 12-36V ☐	14000			
EX-120W A3YZDA	120			16800			
EX-150W A3YZDA	150			21000			
EX-200W A3YZDA	200			28000			

"A2, A, A3"=Product series; "Y"=D or N: Dimmable or non-dimmable; "Z"=CCT, from 2700K-7000K; "D"=Beam angle: 40°, 60°, 90°, 120°; A for glass info., blank for flat glass, C for spherical glass.

Series A Specification

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.
- Dimmable and battery back up function available.
- Marine rating powder coated appearance treatment.
- Tempered glass resistant from high-energy impact.
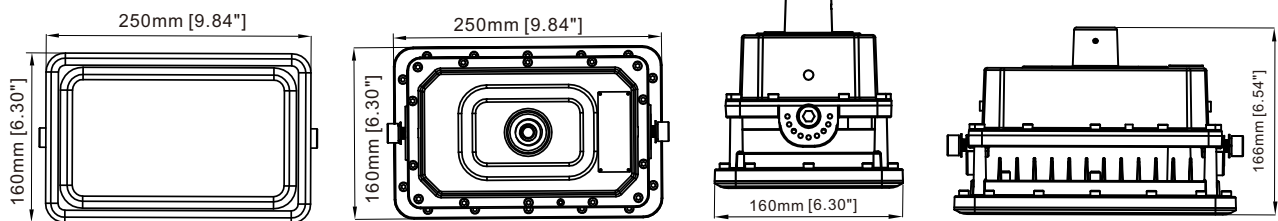- Stainless steel exposed fasteners.

Value-Added Features

- 10kv surge protection.
- Up to ten years limited warranty option.
- Emergency Battery back up(Option).
- Working temperature can be more than 85°C.
- Various installation ways for different applications.
- Glass lens or Glass with polycarbonate lens to make wider beam angle.
- Customized motion sensor(Option).
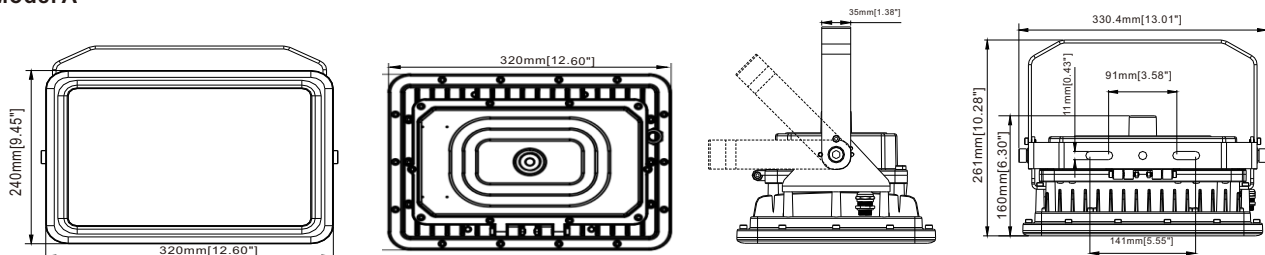- Advanced smart system: WIFI & BLUE-TOOTH(Option).
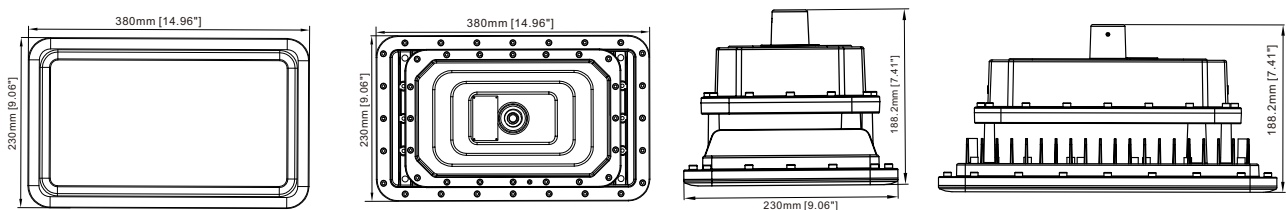
Mechanical Structure

Unit: mm or inch

Model A2

250mm [9.84"] · 160mm [6.30"] · 250mm [9.84"] · 160mm [6.30"] · 160mm [6.30"] · 166mm [6.54"]

Model A

240mm[9.45"] · 320mm[12.60"] · 320mm[12.60"] · 35mm[1.38"] · 330.4mm[13.01"] · 261mm[10.28"] · 11mm[0.43"] · 91mm[3.58"] · 160mm[6.30"] · 141mm[5.55"]

Model A3

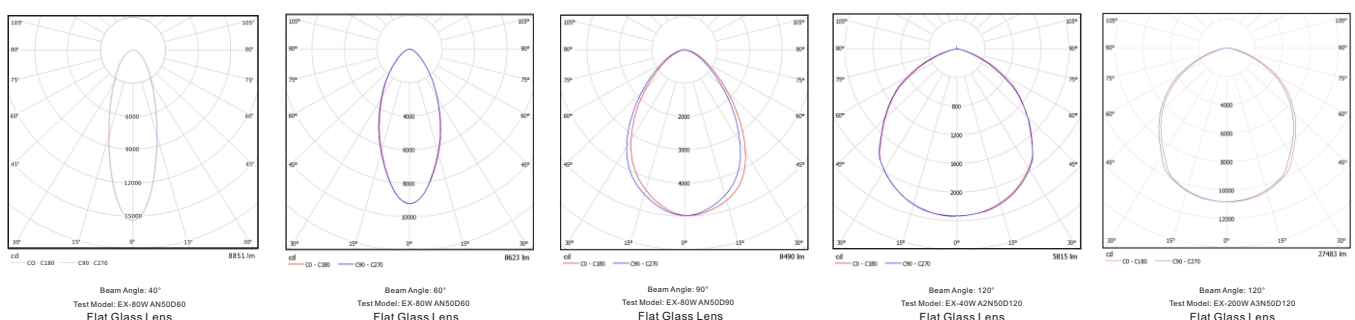380mm [14.96"] · 230mm [9.06"] · 380mm [14.96"] · 230mm [9.06"] · 188.2mm [7.41"] · 230mm [9.06"] · 188.2mm [7.41"]

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

Lighting Distribution

Beam Angle: 40°
Test Model: EX-80W AN50D60
Flat Glass Lens

Beam Angle: 60°
Test Model: EX-80W AN50D60
Flat Glass Lens

Beam Angle: 90°
Test Model: EX-80W AN50D90
Flat Glass Lens

Beam Angle: 120°
Test Model: EX-40W A2N50D120
Flat Glass Lens

Beam Angle: 120°
Test Model: EX-200W A3N50D120
Flat Glass Lens

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Series A Specification

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 QUALIFIED ELECTRICIAN WHO IS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDOUS INVOLVED.

Warning: Risk of fire or electric shock. Flood light installation requires knowledge of luminaires and electrical systems. DO NOT open the enclosure when energized. DO NOT try to install if not qualified. Please contact a professional electrician.
Warning: Risk of fire or electric shock. Suitable for wet locations. Make sure the power is off prior to installation.
Warning: Risk of fire or electric shock. Suitable for non-insulated surface and frame. DO NOT cover fixture with insulation liner or similar material.
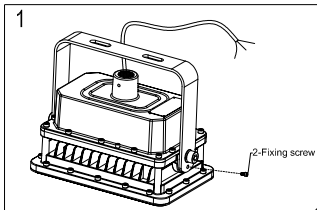**Warning:** DO NOT install in unstable, loose or breakable surfaces.
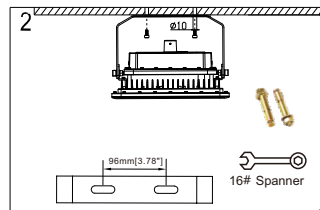**Warning:** DO NOT let objects impact or exert force on the surface of the fixture.
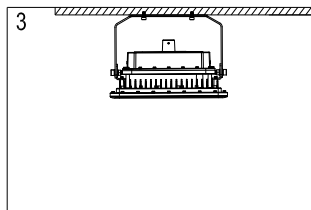
Ceiling Mounting

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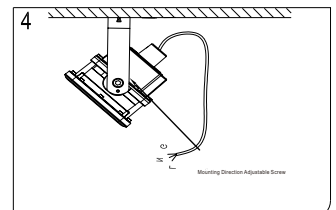**Please turn off power before installation!**

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

2. Drill 2x hole as shown in Fig.2, the distance can be 91~140mm. Then fixing φ10 expanded crews and bracket on ceiling.
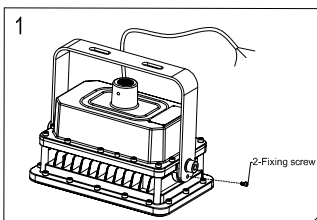
96mm[3.78"]   16# Spanner

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

4. Adjust the beam angle from 0 to 180°.

Mounting Direction Adjustable Screw
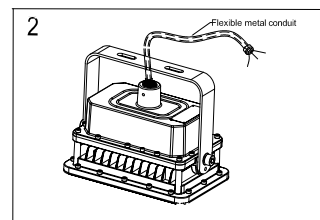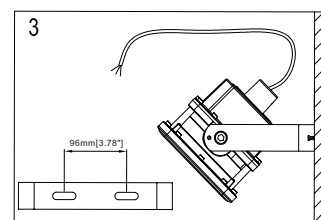
Wall Mounting

1. Take the fixture and accessory out from carton box, and tighten 2 fixing screws as Fig.1.

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

Flexible metal conduit

3. Drill 2x hole as Shown in Fig.2. The distance can be 91~140mm. Then fix φ10 expansion screws and bracket on ceiling.

96mm[3.78"]
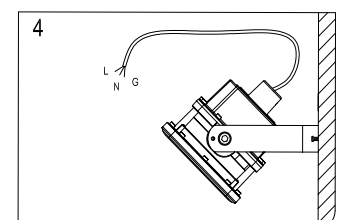
4. Connect black cable to L, white cable to N, and green cable to grounding.

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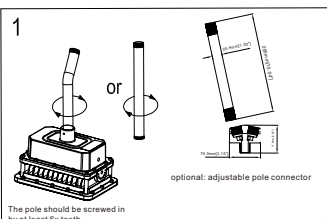
1. Take the fixture and pole accessory out from carton box, then tighten the pole as shown in Fig.1.

or   optional: adjustable pole connector

The pole should be screwed in by at least 6x teeth.
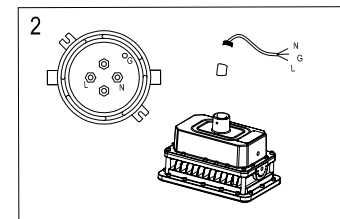
2. Connect black cable to L, white cable to N, and green cable to grounding.
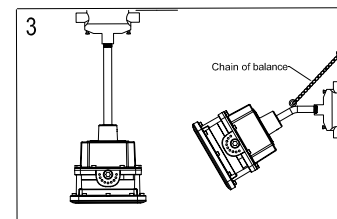
3. Drill 4x φ10mm holes separated by 100mm, install the junction box to the wall or ceiling as shown in Fig.3, tighten the pole to the box, and then adjust the chain of balance.

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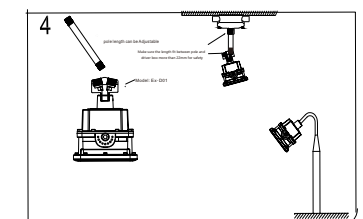
4. Adjustable pole installation. With this adjustable kit, you can make any light distribution direct as you want.
Optional: Install the fixture to the long pole after connecting the cable.

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Series A Specification

Hook Pendant

1

3/4 NPT

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

2

M3
The gap should be less than 13mm

2. Tighten the hook with the fixture, at least 6x teeth need to be screwed in. Fix the M3 screw to prevent the hook from loosening.

3

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

4

L
N
G

4. Hang the fixture to the hook as above. Connect black cable to L, white cable to N, and green cable to grounding.

Installation a

1

Expanded crews 4x Ø8 mm
94 [3.70]
94 [3.70]
4-Ø8
13# Spanner

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

2

2. Connect the power AC wire with lamp, and 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 to loosen.

● This installation method is only for Model A2 and Model A. It can not be applied on model A3 because model A3 is too heavy.
● Only one electrician is required for this installation.

Stanchion Mounting

1

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

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

2

Model: EX-25PSupport
Alternative
Pole fitter
25° pole fitter
L N G
Max pole Ø50mm

2. Install the pole fitter with arm via 4x M8 screws (The max suitable pole diameter is 50mm). The 25 degree pole fitter could be an alternative.

3

Model: EX-90PSupport
L N G
Lamppost

3. Connect the cable to AC wire, black cable to L, white cable to N, and green cable to grounding.

4

6# allen key
45mm
M8
Lamppost

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

● This installation method is only for Model A2 and Model A. It can not be applied on model A3 because model A3 is too heavy.
● Only one electrician is required for this installation.

Wall Mounting to junction box

1

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

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

2

Model: Ex-Junction01
100
100
16# Spanner

2. Drill 4x Φ10mm holes and install the junction box to the wall with M10 expanded screw.

3

L
N
G

3. Connect the AC wire to power system. Connect black cable to L, white cable to N, and green cable to grounding.

4

Alternative: 25° Arm
Model: EX-25JSupport
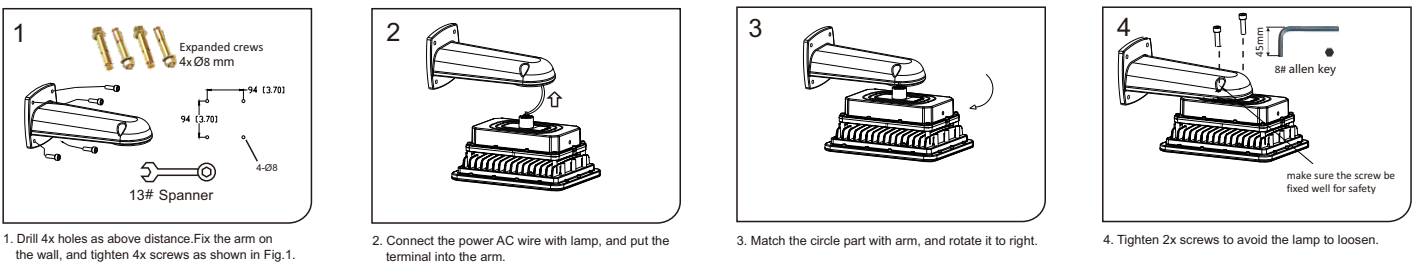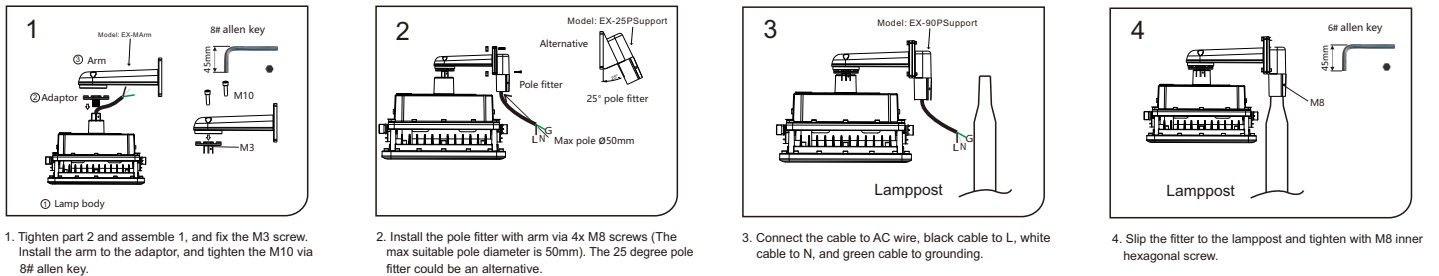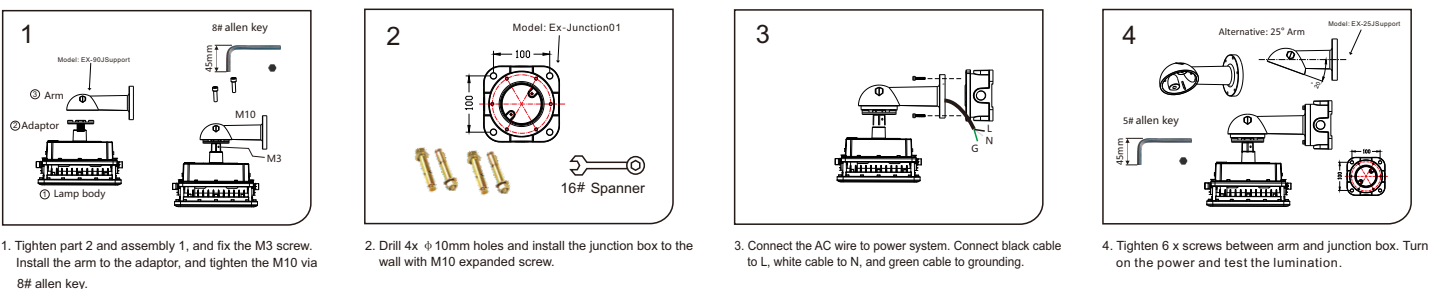5# allen key
45mm

4. Tighten 6 x screws between arm and junction box. Turn on the power and test the lumination.

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Series A Specification

Packing Information

Model	Quantity/Ctn	Length(cm)	Width(cm)	Height(cm)	Net weight(kg)	Gross weight (kg)
A2	1	36.5	27	30.5	4.15	5.3
A	1	37.5	34	21.5	6.95	7.9
A3	1	48.5	34	36.5	8.3	10.3

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 Powder Coating

Model: EX-SPipe
Name: Winding Swing Pipe
Material: Iron with Powder 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-25JSupport
Name: 25° Arm to Junction box
Material: Aircraft Aluminum A383

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

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

Model: Ex-PCH
Name: Pendant Chain
Material: Stainless Steel S30400

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