

Focus on High-end
Industrial Lights Manufacture



Born for Industrial Safety

FlameProof Lighting Explosion Proof Lighting



II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66



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EP-01-G1



EP-01-G3



EP-02-G1



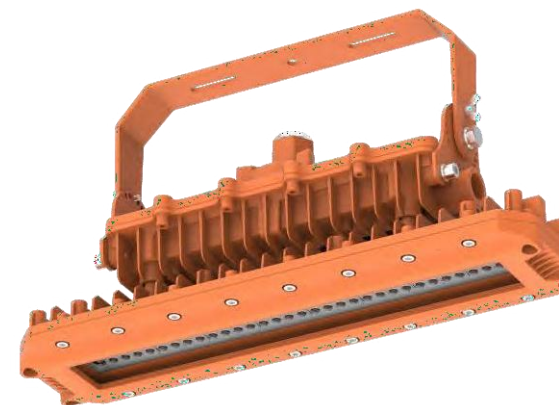
EP-02-G2



EP-02-G3



EP-02-G4



EP-02-G5



ATEX

II 2G Ex db IIC T6 Gb
 II 2D Ex tb IIIC T80°C Db IP66



LED Explosion-proof Light

EP-01-G1 IP66 | IK08

Beam Angle: 120°

100W,120W,150W,180W,200W



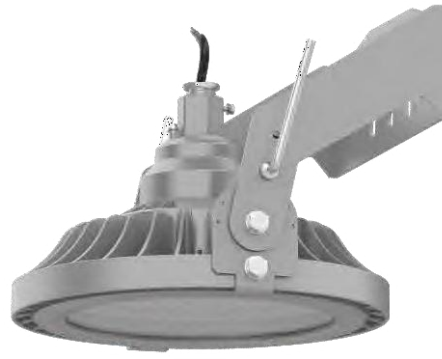
EP-01(ID:G1-P1)



EP-01(ID:G1-P2)



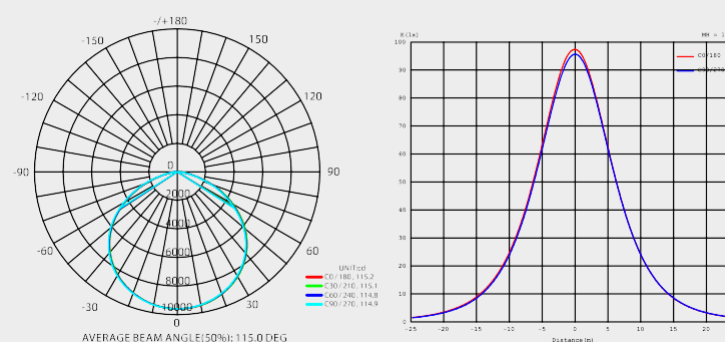
EP-01(ID:G1-P3)



CLASSIFICATIONS & RATINGS

- Class I, Division 1, Groups C, D
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 2, Groups E, F, G
- Class III
- Zone 1, Zone 2, Zone 21, Zone 22.

Photometry / Planar Illuminance Curve » 120°



LED Explosion-proof Light

EP-01-G3 IP66 | IK08

Beam Angle: 30°/60°/90°/120°

60W,80W,100W,120W,150W,180W,200W,400W,800W



P1



60W/80W/100W/120W/150W/180W/200W

P2



60W/80W/100W/120W/150W/180W/200W

P1



400W

800W

P3



60W/80W/100W/120W/150W/180W/200W

The Explosion Proof Light can be widely used in Refineries, Fuel depots, Marine vessels, Chemical production processing, Food processing, Wineries, and other high humidity, high temperature dusty places.



Ceiling ring



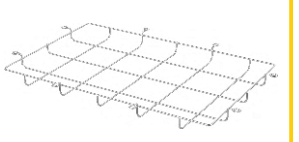
American hook



Chain



Safety Rope



Explosion-proof cover



FlameProof Lighting Explosion Proof Lighting

EP-02-G1 IP66 | IK08

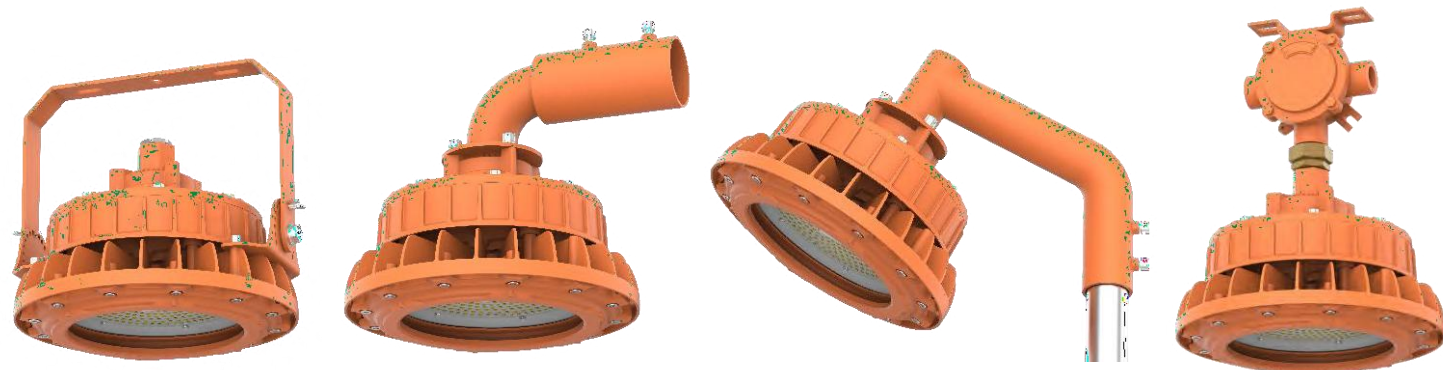
Beam Angle: 60°/90°/120°

30W,50W,60W,80W,100W



II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66

140
lm/W

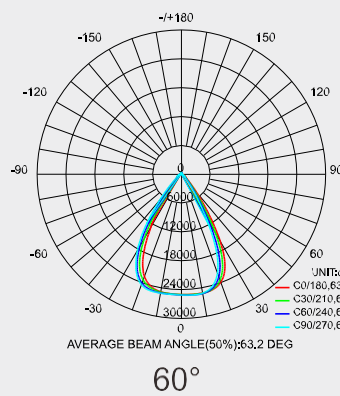


P1 Bracket Mount

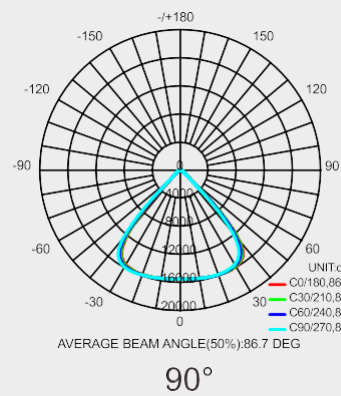
P2 Street Mount

P3 Flanged Mount

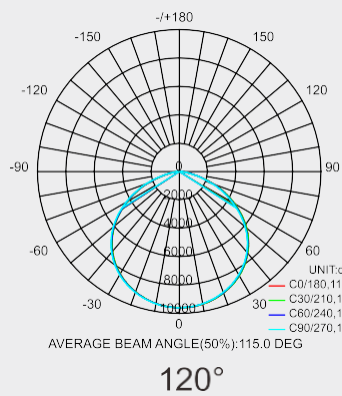
P4 Hanging Mount



60°



90°



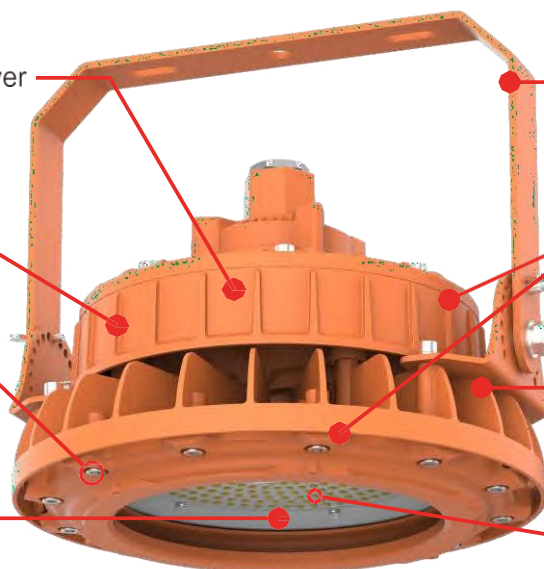
120°



Dual Protection of High voltage electrostatic spray lamp surface

M6 SUS 304 screw

10mm ultra white floating tempered glass



SUS 304 Bracket

≥10mm ADC12 Flameproof surface

IECex compliant ADC12 Private housing



FlameProof Lighting Explosion Proof Lighting

EP-02-G2 IP66 | IK08

Beam Angle: 60°/90°/120°

100W,120W,150W,180W,200W,240W



II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66

140
lm/W



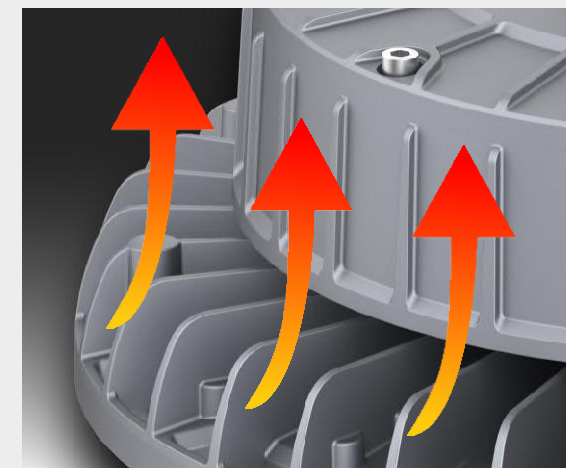
P1 Bracket Mount

P2 Street Mount

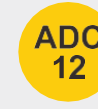
P3 Flanged Mount

P4 Hanging Mount

Perfect Heatsink



The Light Source Space and Quality Driver Space are designed separately, it helps better heat dissipation and longer lifespan.



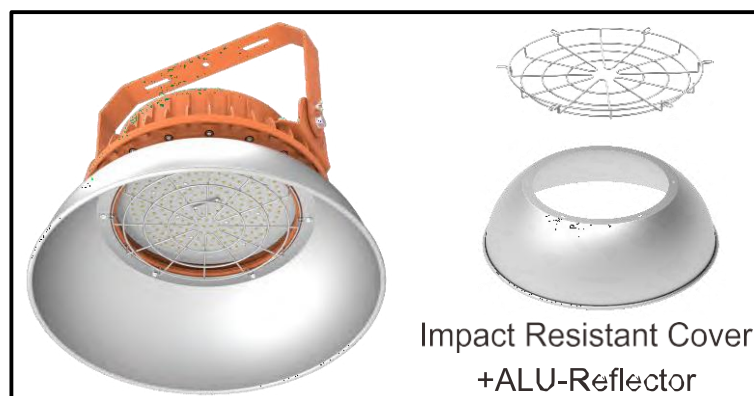
EP-02-G2 uses ADC12 Die-casting housing, with nicely 3D heat dissipation.



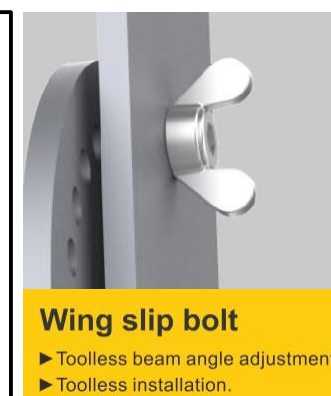
EP-02-G2 uses air convection design, which speeds up the heat dissipation of the lamp.



EP-02-G2 uses more 50% larger dissipation area to dissipate.

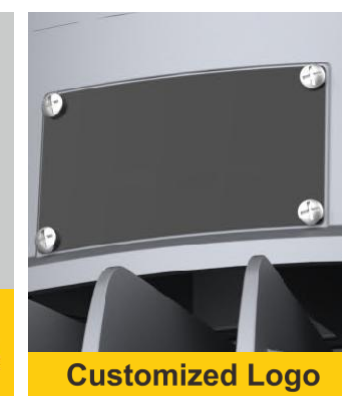


Impact Resistant Cover
+ALU-Reflector



Wing slip bolt

► Toolless beam angle adjustment;
► Toolless installation.



Customized Logo



FlameProof Lighting Explosion Proof Lighting

EP-02-G3 IP66 | IK08

Beam Angle: 30°/60°/90°/120°

30W,50W,60W,80W,100W



II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66

140
lm/W

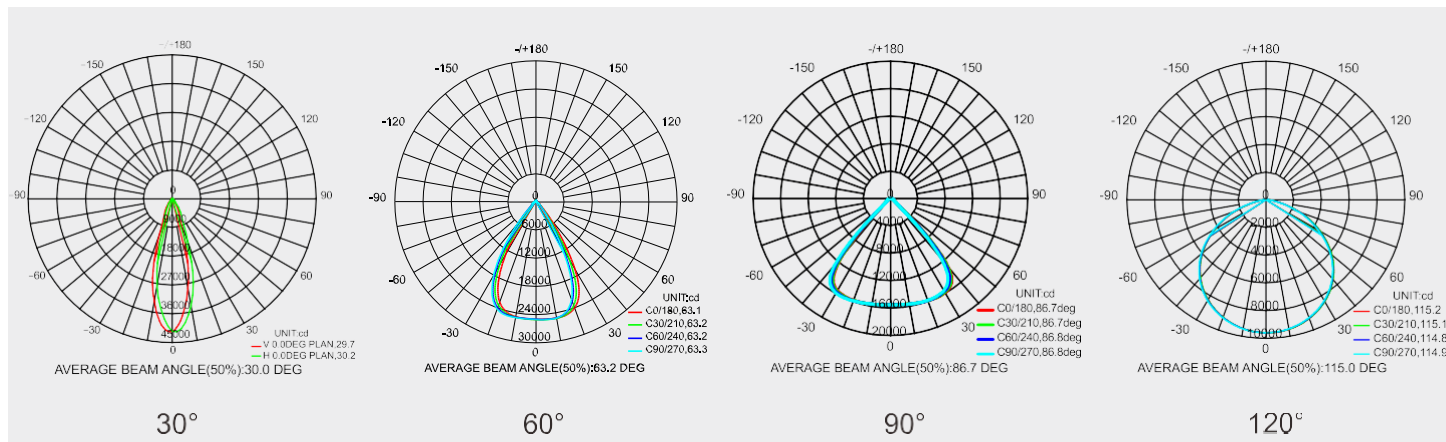


P1 Bracket Mount

P2 Street Mount

P3 Flanged Mount

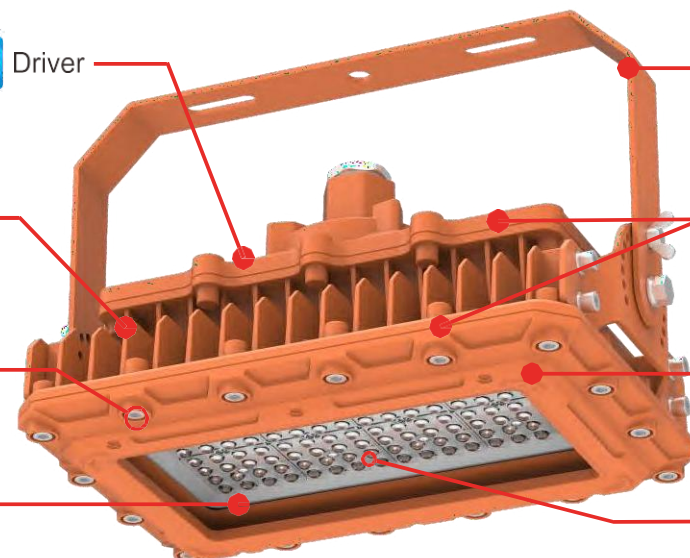
P4 Hanging Mount



Dual Protection of High voltage
electrostatic spray lamp surface

M6 SUS 304 screw

10mm ultra white floating
tempered glass



SUS 304 Bracket

≥10mm ADC12
Flameproof surface

IECex compliant ADC12
Private housing



FlameProof Lighting Explosion Proof Lighting

EP-02-G4 IP66 | IK08

Beam Angle: 30°/60°/90°/120°

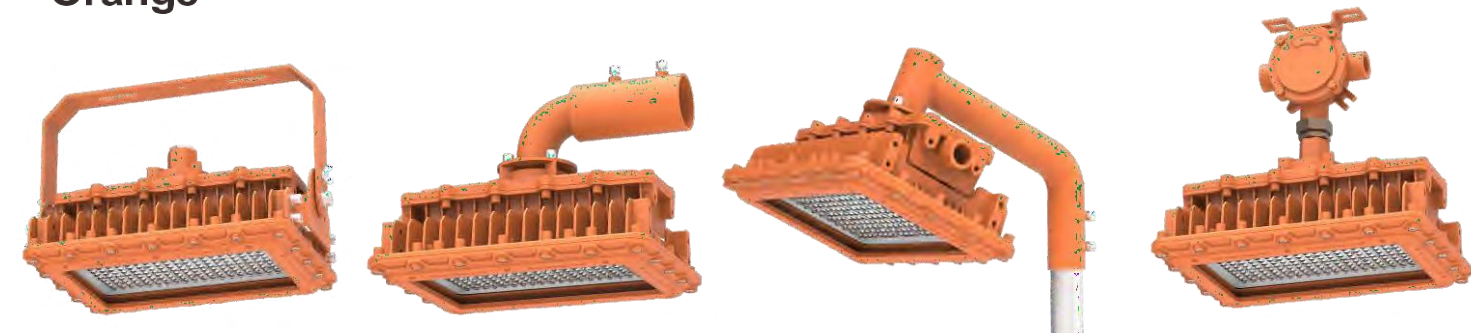
100W,120W,150W,180W,200W,240W,400W,500W,800W,1000W



II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66

140
lm/W

Orange



100W~240W-P1

100W~240W-P2

100W~240W-P3

100W~240W-P4

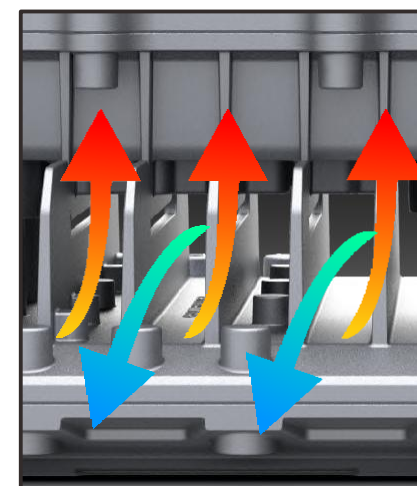
Grey



400W/500W-P1



800W/1000W-P1



The Light Source Space and
Quality Driver Space are
designed separately, it helps
better heat dissipation and
longer lifespan.

IP66 Waterproof





FlameProof Lighting Explosion Proof Lighting

EP-02-G5 IP66 | IK08

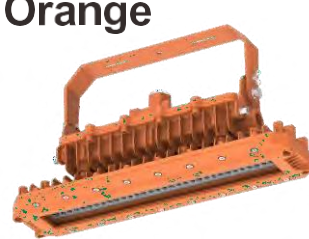
Beam Angle: 30°/60°/90°/120°
60W,80W,100W,120W,150W,200W



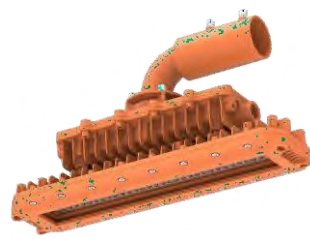
II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66

140
lm/W

Orange



60W/80W/100W-P1



60W/80W/100W-P2



60W/80W/100W-P3

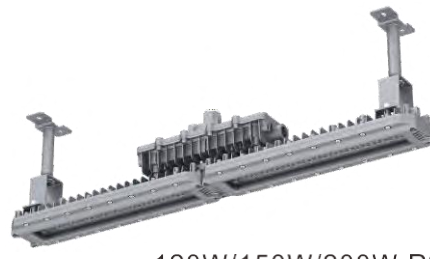


60W/80W/100W-P4

Grey



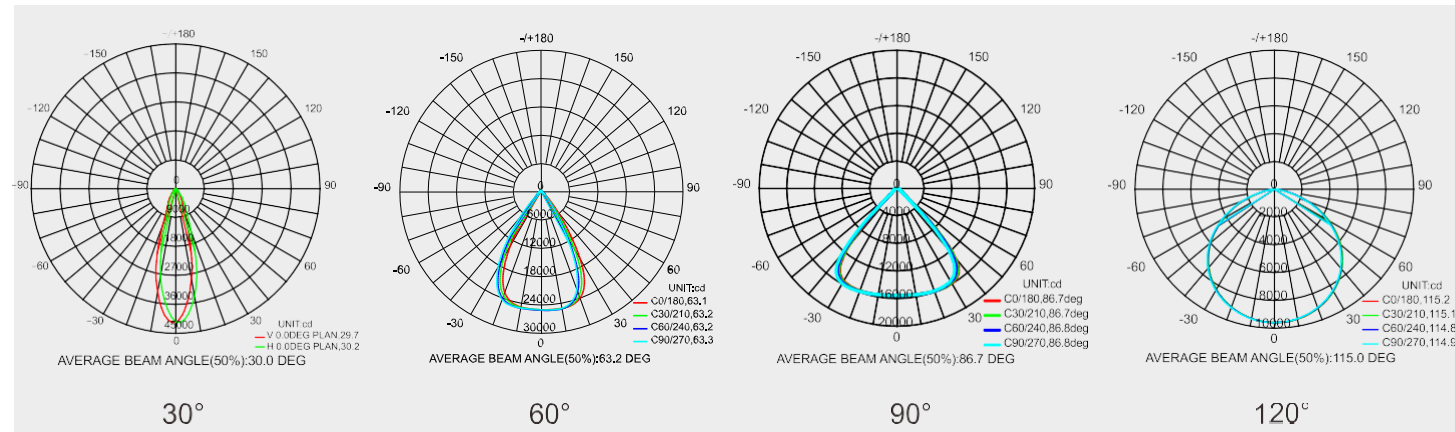
120W/150W/200W-P1



120W/150W/200W-P2



120W/150W/200W-P3

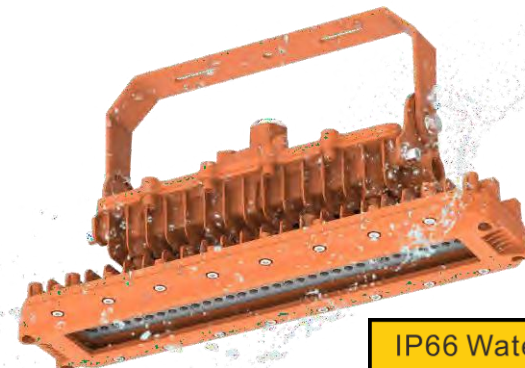


Customized Logo



Wing slip bolt

- ▶ Toolless beam angle adjustment;
- ▶ Toolless installation.



IP66 Waterproof



Driver

SUS 304 Bracket

Dual Protection of High voltage
electrostatic spray lamp surface

≥10mm ADC12
Flameproof surface

M6 SUS 304 screw

IECex compliant ADC12
Private housing

10mm ultra white floating
tempered glass



Product description

EP-02 series LED explosion-proof luminaires are suitable for moisture, dirt, dust, corrosion and vibration conditions, or for hazardous locations where flammable gases and dusts as specified by NEC and IEC. For example: They can be widely used in Refineries, Fuel depots, Marine vessels, Chemical production processing, Food processing, Wineries, and other high humidity, high temperature dusty places. EP-02 series LED explosion-proof lamps have higher efficacy, energy savings, lower maintenance costs and longer lifespan.



► EP-02 Series uses External Explosion Proof Construction. Strictly according to EN 60079-0-2018, EN 60079-28-2015, EN 60079-1-2014, EN 60079-31-2014, IEC60079-0-2017, IEC60079-1-2014, IEC 60079-28-2015, IEC60079-31-2021's standard requirements.

► The Light Source Space and Quality Driver Space are designed separately to make the volume of each space smaller, so it is much safer and reliable.

► EP-02 Series uses Wing slip bolt. Toolless beam angle adjustment. Toolless installation;

► 10mm Tempered Glass (resist 4 Joule impact).

► IP66 Waterproof

► All connectors of lamp are made of SUS 304 material;

► EP-02 Series are suitable for use in the following hazardous areas:

- Class I, Division 1, Groups C, D
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 2, Groups E, F, G
- Class III
- Zone 1, Group IIC
- Zone 2, Group IIC
- Zone 21, Group IIIC
- Zone 22, Group IIIC

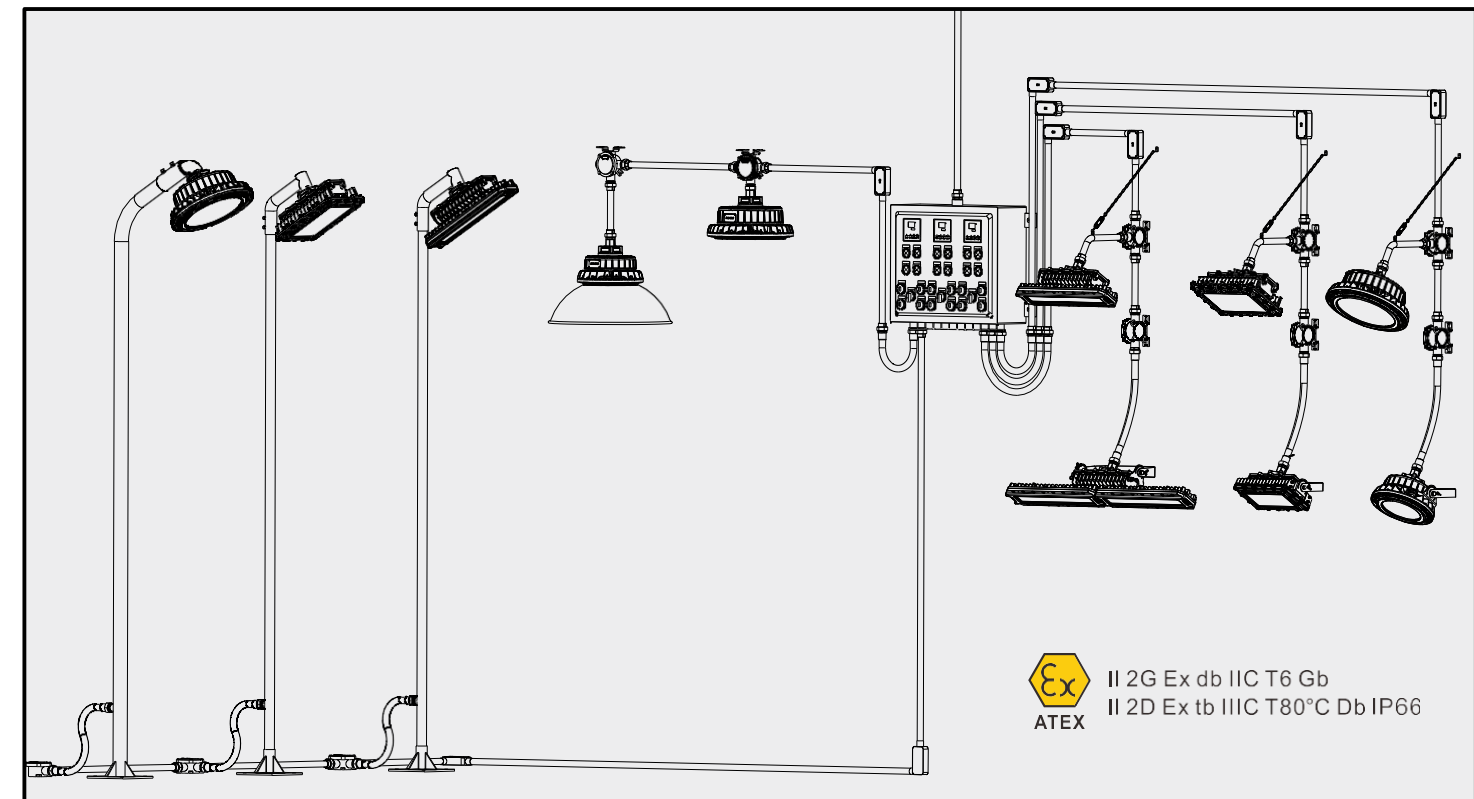


Product description

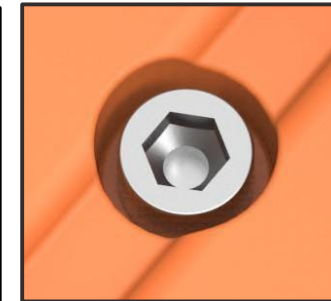
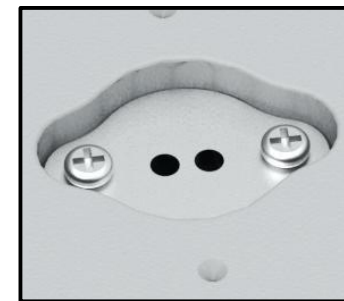
EP-02 series LED explosion-proof luminaires are suitable for moisture, dirt, dust, corrosion and vibration conditions, or for hazardous locations where flammable gases and dusts as specified by NEC and IEC. For example: They can be widely used in Refineries, Fuel depots, Marine vessels, Chemical production processing, Food processing, Wineries, and other high humidity, high temperature dusty places. EP-02 series LED explosion-proof lamps have higher efficacy, energy savings, lower maintenance costs and longer lifespan.



Application Diagram



Ex
ATEX II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66



External Explosion Proof Construction

The Light Source Space and Quality Driver Space are designed separately to make the volume of each space smaller, so it is much safer and reliable. Also it helps the heat dissipation of the light source and longer lifespan.

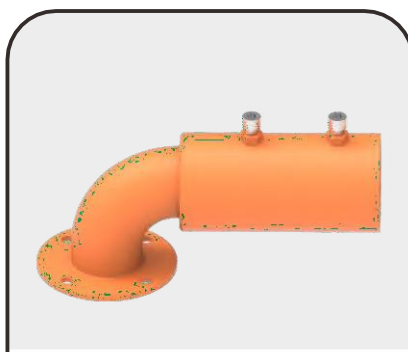
Each space uses threads and potting to completely separate. Strictly follow the External Explosion Proof Designs.

Temperature classes	Ignition temperature range of the mixture	Permissible surface temperature of the electrical equipment
T1	> 450 °C	450 °C
T2	>300 °C ... ≤ 450 °C	300 °C
T3	>200 °C ... ≤ 300 °C	200 °C
T4	>135 °C ... ≤ 200 °C	135 °C
T5	>100 °C ... ≤ 135 °C	100 °C
T6	>85 °C ... ≤ 100 °C	85 °C

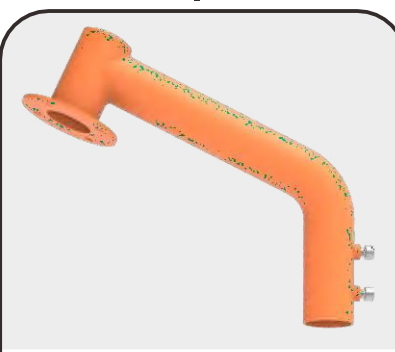
EP-02 series LED explosion-proof luminaires are suitable for T1-T6 environments.



Others Optional



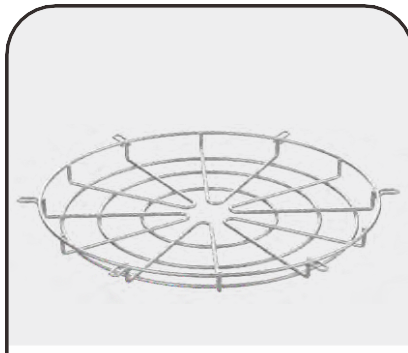
P2 Street Mount



P3 Flanged Mount



Explosion-proof connection box



Impact Resistant Cover



ALU-Reflector



Explosion-proof flexible connecting tube



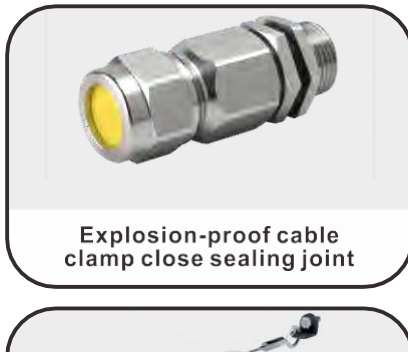
NPT 3/4"



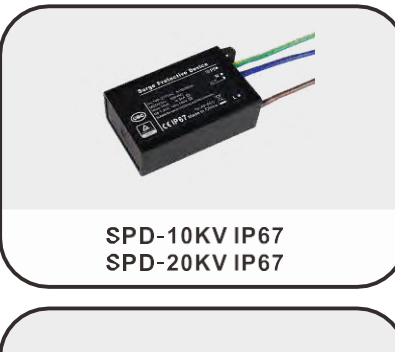
Explosion-proof elbow



Explosion-proof joint



Explosion-proof cable clamp close sealing joint



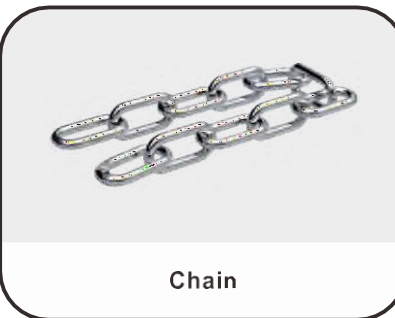
SPD-10KV IP67
SPD-20KV IP67



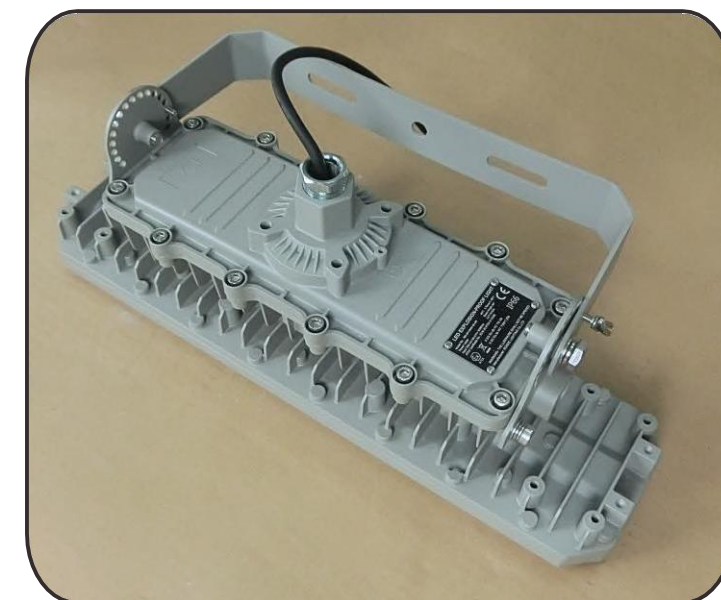
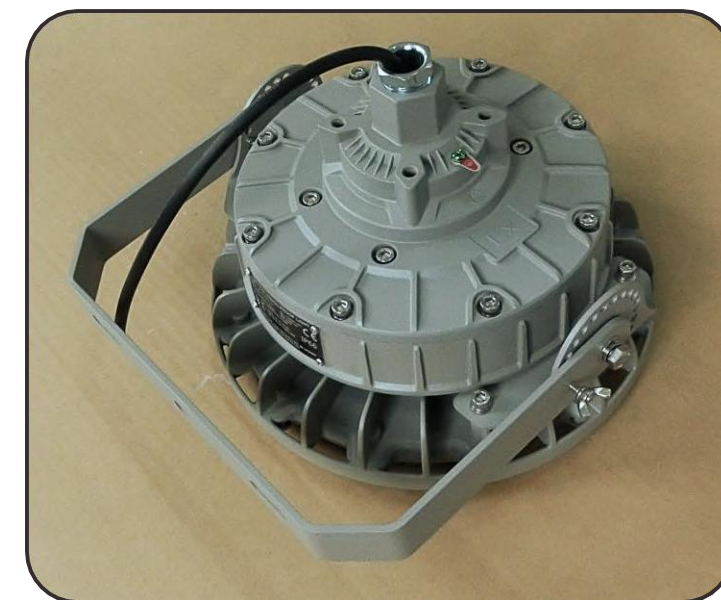
Ceiling ring



Safety Rope



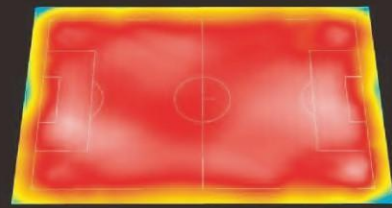
Chain



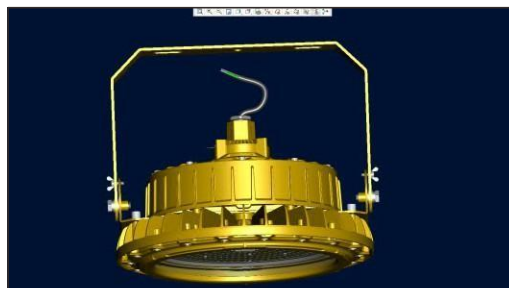
Focus on High-end Industrial Lights
Manufacture Since 2008



Services Example



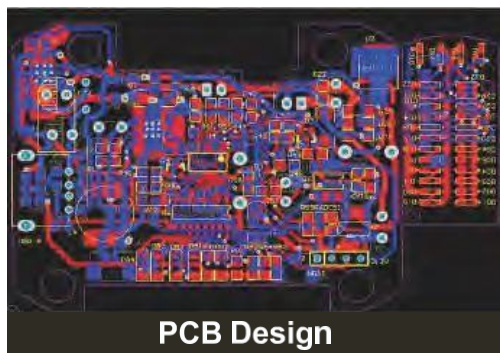
Light Simulation



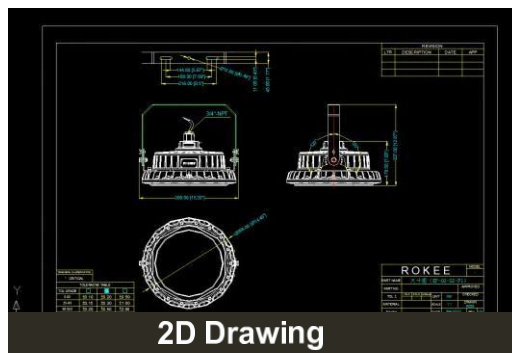
3D Structure Design



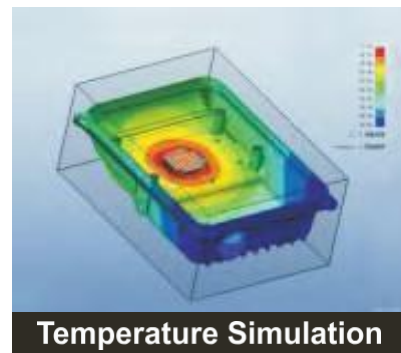
3D Structure Design



PCB Design



2D Drawing



Temperature Simulation



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