

Product Features

- ◆ The fixture housing is made of high-quality aluminum alloy die-casting, with the outer surface treated by shot blasting and high-pressure electrostatic powder coating; all exposed fasteners are made of stainless steel, with refined and elegant appearance;
- ◆ The fixture adopts a three-cavity separation structure with independent wiring cavity, power cavity, and light source cavity; the cavities are completely isolated with zone protection, providing excellent explosion-proof safety performance;
- ◆ The fixture adopts threaded and spigot explosion-proof structure with reliable explosion-proof performance, meeting the requirements for use in IIC-class explosive gas environments;
- ◆ The wiring cavity is compatible with wireless terminal quick-connect structure; optional quick wireless connectors available, with simple structure, stable electrical connection, easy disassembly and assembly, facilitating on-site installation and subsequent maintenance;
- ◆ All joint surfaces of the fixture are equipped with complete sealing structure, using high-quality silicone rubber gaskets with high temperature resistance and anti-aging properties, effectively extending the fixture's service life;
- ◆ The transparent cover is made of high-strength tempered glass material with high light transmittance, featuring excellent properties of impact resistance, high temperature resistance, and resistance to rapid temperature changes;
- ◆ The inner surface of the transparent cover is treated with optical micro-structure, effectively suppressing glare with soft and uniform light distribution;
- ◆ LED light source uses internationally renowned brand chips with high brightness, long service life, and stable and reliable luminous performance;
- ◆ Wide voltage input, constant power output, power factor > 0.98, with constant voltage, constant current, over-current, open circuit, short circuit, and surge protection functions.



Type I

20W/30W/40W/50W/60W



Type II

80W/100W/110W/120W

Scope of Application

- ☆ Suitable for Zone 1 and Zone 2 hazardous areas in explosive gas environments of Class IIA, IIB, and IIC;
- ☆ Suitable for Zone 21 and Zone 22 hazardous areas in explosive dust environments of Class IIIA, IIIB, and IIIC;
- ☆ Suitable for locations with gas temperature groups T1-T6; Suitable for ambient temperatures of -40°C to 55°C, resistant to high/low temperatures and high humidity, meeting high protection level requirements;
- ☆ Suitable for lighting in flammable and explosive environments such as petroleum, natural gas, chemical, pharmaceutical, food, warehouses, etc.



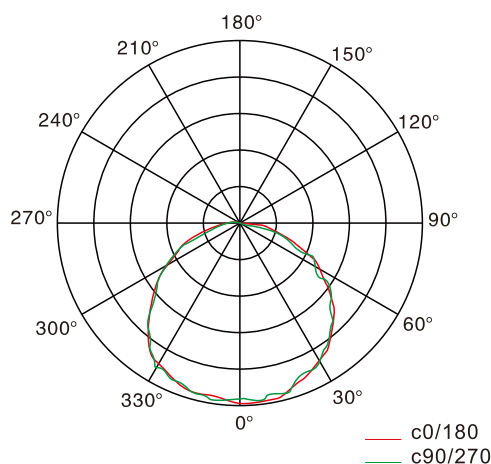


DATA SHEET(Single Lamp)

Power	Model	Type	Luminous Flux	Working Voltage (V)	Protection Level	Explosion-Proof Mark
20W	BB-GKD-20W-MHRA	I	2400lm	AC100~240V 50/60Hz	IP 66 WF2	Ex db II C T6 Gb / Ex tb IIIC T80°C Db
30W	BB-GKD-30W-MHRA		3600lm			
40W	BB-GKD-40W-MHRA		4800lm			
50W	BB-GKD-50W-MHRA		6000lm			
60W	BB-GKD-60W-MHRA		7200lm			
80W	BB-GKD-80W-MHRA	II	9600lm			Ex db IIC T6 Gb / Ex tb IIC T80°C Db
100W	BB-GKD-100W-MHRA		12000lm			
110W	BB-GKD-110W-MHRA		13200lm			
120W	BB-GKD-120W-MHRA		14400lm			

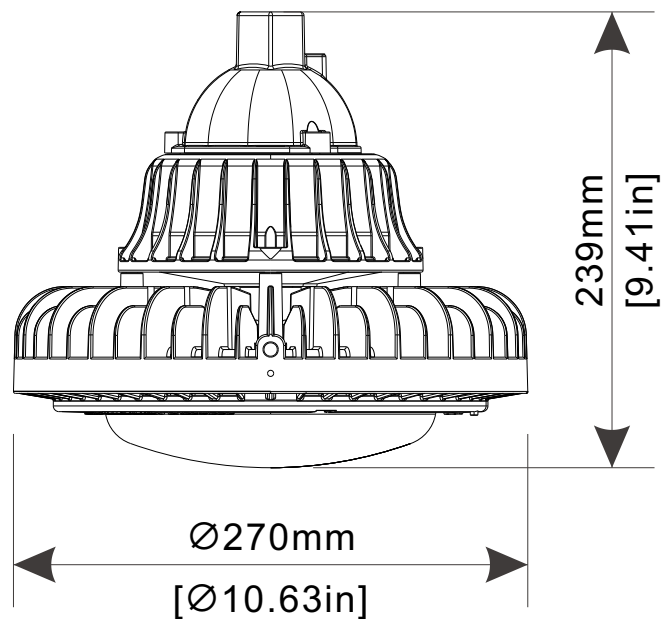
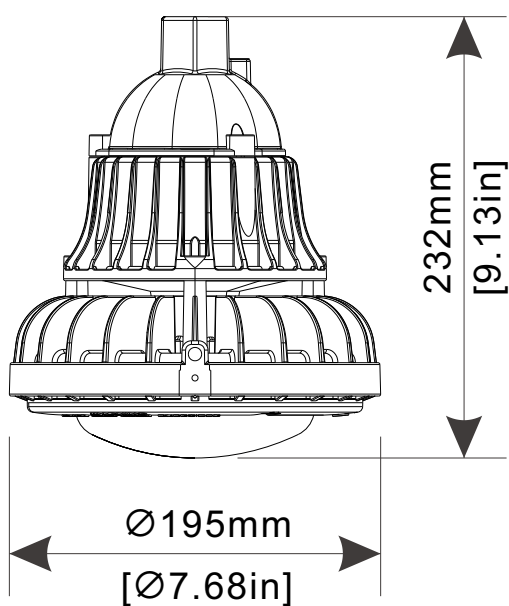
Fixture Type	Type I	Type II
Executed Standards	GB/T 3836.1、GB/T 3836.2、GB/T 3836.31、GB/T 3836.35、GB7000.1、GB7000.201、IEC 60079-0、IEC 60079-1、IEC 60079-31、EN 60079-0、EN 60079-1、EN 60079-31	
Rated Power	20W,30W,40W,50W,60W	80W,100W,110W,120W
Power Factor	>0.95	
Luminous Efficacy	120LM/W	
Correlated Color Temperature	5000±500K	
Color Rendering Index	Ra ≥ 80	
Working Temperature	-40°C to + 55°C	
Working Humidity	10~90% RH	
Service Life	≥50000h	
Entry Port Specification	G3/4" suitable for cable outer diameter Φ9mm~Φ14mm	
Fixture Weight	3.3kg	5.1kg
Lightning Surge	Differential mode ±4kv, Common mode ±6kV	

Light Distribution Curve

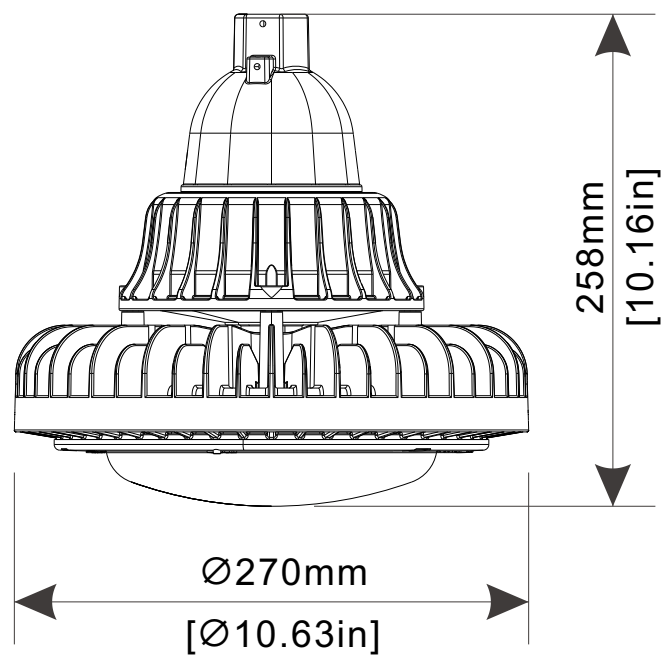
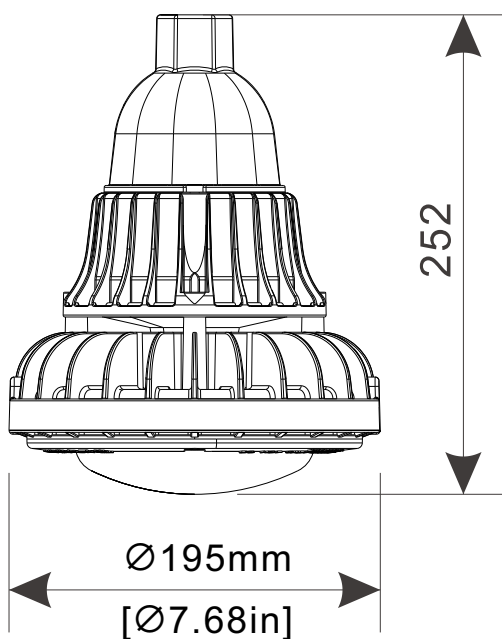


Product Dimensions

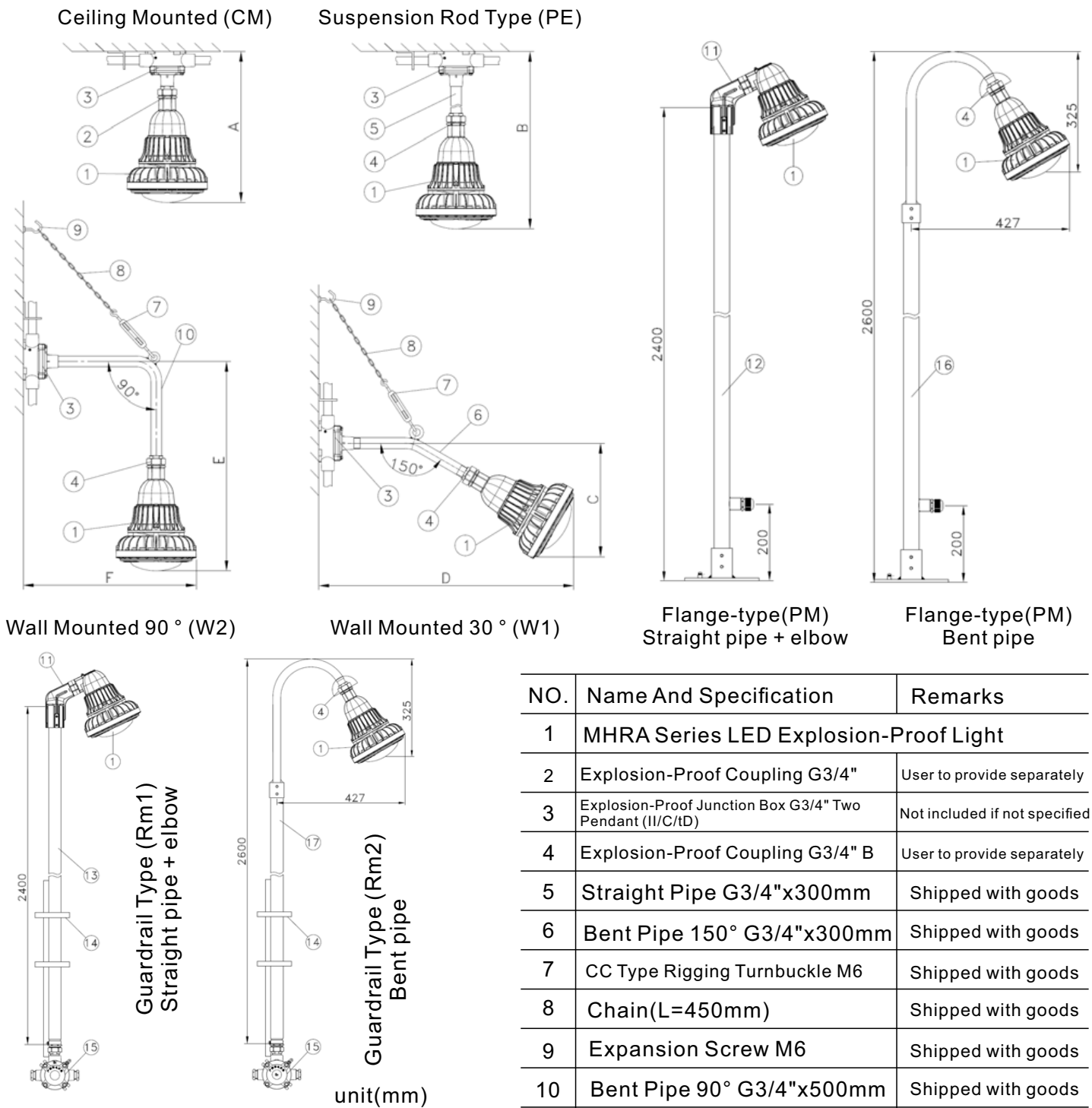
Overall Dimensions- Wiring Terminal Connection



Overall Dimensions- Coupler Quick Connection



Dimensions And Installation Diagram



NO.	Name And Specification	Remarks
1	MHRA Series LED Explosion-Proof Light	
2	Explosion-Proof Coupling G3/4"	User to provide separately
3	Explosion-Proof Junction Box G3/4" Two Pendant (II/C/tD)	Not included if not specified
4	Explosion-Proof Coupling G3/4" B	User to provide separately
5	Straight Pipe G3/4"x300mm	Shipped with goods
6	Bent Pipe 150° G3/4"x300mm	Shipped with goods
7	CC Type Rigging Turnbuckle M6	Shipped with goods
8	Chain(L=450mm)	Shipped with goods
9	Expansion Screw M6	Shipped with goods
10	Bent Pipe 90° G3/4"x500mm	Shipped with goods
11	Elbow Assembly	In packaging
12	Flange-type Lamp Pole - Straight Type -G1/4"	Shipped with goods
13	Guardrail-type Lamp Pole-Straight Type -G1/4"	Shipped with goods
14	U-shaped Pipe Clamp - G1/4"	User to provide separately
15	Explosion-Proof Junction Box G3/4" Three Flat (II/C/tD)	Not included if not specified
16	Flange-type Lamp Pole-Bent Type -G1/4"-G3/4"	Shipped with goods
17	Guardrail-type Lamp Pole-Bent Type-G1/4"-G3/4"	Shipped with goods

Model	A	B	C	D	E	F
BB-GKD-20W-MHRA	365	665	275	620	510	420
BB-GKD-30W-MHRA						
BB-GKD-40W-MHRA						
BB-GKD-50W-MHRA						
BB-GKD-60W-MHRA						
BB-GKD-80W-MHRA	372	672	315	635	517	458
BB-GKD-100W-MHRA						
BB-GKD-110W-MHRA						
BB-GKD-120W-MHRA						

Ordering Notes

- ◆ When selecting, please follow the model designation and select item by item:
- ◆ The fixture ships with complete light source pre-installed; user only needs to connect power for immediate use;
- ◆ Please refer to "Installation Accessories Selection Table" for configuration of installation accessories.

Application Case

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

