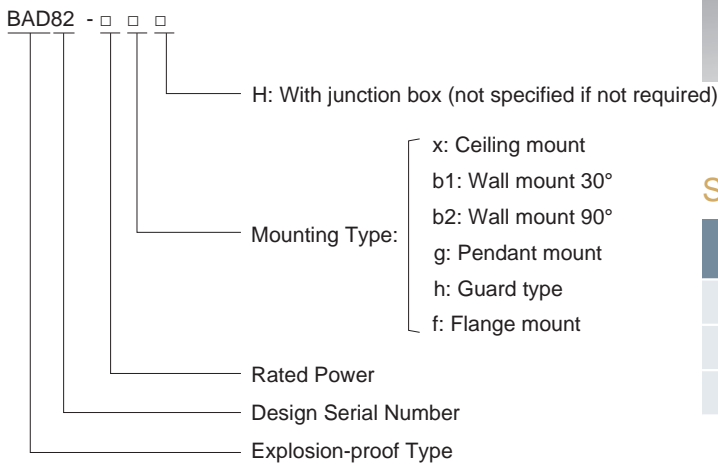


Applications

- Widely used in hazardous environments such as petroleum extraction, oil refining, chemical industry, military facilities, offshore oil platforms, and tanker operations for general lighting and task lighting
- Suitable for energy-saving retrofit projects and locations where maintenance is difficult
- Applicable for environments requiring high protection levels, humidity, and corrosive conditions
- Suitable for hazardous areas with explosive gas atmospheres in Zone 1 and Zone 2
- Applicable for explosive gas groups IIA, IIB, and IIC
- Suitable for temperature classes T1–T6

Model Code Description



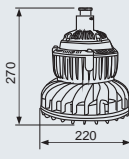
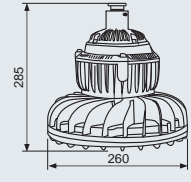
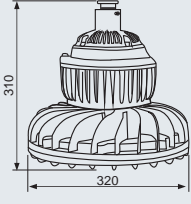
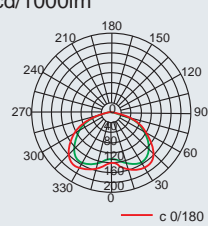
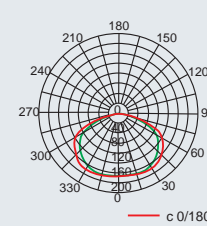
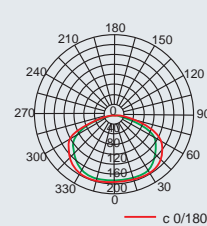
Specifications

Model	Rated Power (w)	Explosion-proof Marking	Housing Type
BAD82-□□□	30~50	Ex d e mb IIC T5 Gb	I
BAD82-□□□	60~100		II
BAD82-□□□	120~150		III

Product Features

Optical System Features	<ul style="list-style-type: none"> • Equipped with high-quality imported LED chips, offering excellent lumen maintenance and high luminous efficiency • Advanced SMT (Surface Mount Technology) improves thermal conductivity and overall performance • Optimized reflector and optical structure design enhances lighting efficiency
Driver System Features	<ul style="list-style-type: none"> • Constant current driver with short-circuit and over-voltage protection • EA type: works as normal lighting with emergency function • EB type: dedicated emergency lighting, normally off and automatically activated during power failure • Compatible with external switch control for manual emergency activation • Excellent electromagnetic compatibility (EMC), no interference to other equipment or power networks • Wide voltage input range, supporting ±20% voltage fluctuation • Fully potted driver design ensures protection against moisture and corrosion
Thermal Management Features	<ul style="list-style-type: none"> • Three-chamber independent structure ensures stable operation of all components • Efficient airflow-guided heat dissipation design extends LED lifespan • Independent power supply chamber isolates heat impact, ensuring long-term stable operation
Structural Features	<ul style="list-style-type: none"> • Explosion-proof structure with Class II protection and IP66 rating, providing superior dustproof and waterproof performance • High-strength tempered glass, resistant to impact and thermal shock • All fasteners and accessories are made of corrosion-resistant stainless steel • Integrated emergency chamber design, eliminating the need for an additional emergency box, simplifying installation and maintenance • Hinged cover structure allows easy wiring and maintenance • Multiple mounting options available to meet different installation requirements
Unique Advantages	<ul style="list-style-type: none"> • Patented three-chamber independent structure combined with airflow cooling design • Special anti-loosening structure ensures convenient installation, inspection, and maintenance

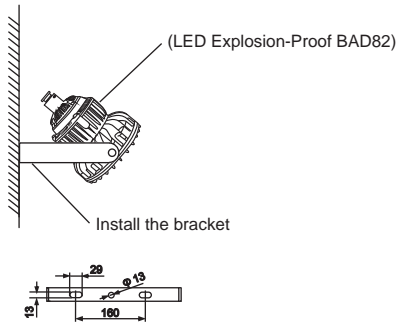
Main Technical Parameters

Dimensions		
		
I	II	III
Explosion-proof Marking: Ex d e mb IIC T5 Gb		
Rated Power: 30~50W	60~100W	120~150W
Operating Voltage: AC/DC 220V± 20% 50Hz		
Power Factor: 0.98		
Luminous Flux: 3000~4500Lm	5500~8500Lm	10000~14500Lm
Protection Rating: IP65		*IP66
Corrosion Protection: WF1		*WF2
Cable Entry: G3/4" (suitable for φ10~14 mm cables)		
Terminal: Suitable for ≤2.5 mm² wiring connection		
Mounting Options: Ceiling mount (x), Wall mount 30° (b1), Wall mount 90° (b2), Pendant mount (g), Guard type (h), Flange mount (f)		
Installation Height: 2~3.5 m	3~4 m	3.5~5 m
Installation Spacing: 2~3 m	3~4 m	3~5 m
Average Illuminance: 90 lx (at 3 m height)	100 lx (at 4 m height)	100 lx (at 5 m height)
Standards: GB3836.1, GB3836.2, IEC60079-0, IEC60079-1, EN60079-0, EN60079-1		
Weight: 4kg	7kg	9kg
Light Distribution Curve cd/1000lm		
		

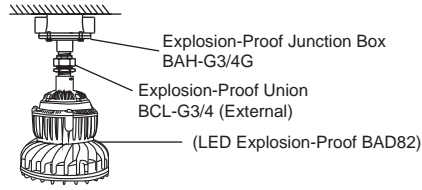
Ordering Information

- Please specify the model, system configuration, and explosion-proof rating when placing an order.
Example: For 40W, 220V, pendant mounting, with junction box, gas explosion-proof type
→Model: BAD82-40CH Ex d e mb IIC T5 Gb
- If a junction box is required, please clearly indicate it when ordering
- The lamp is supplied without cable by default. If cables are required, please specify in advance
- For special voltage requirements, please indicate when ordering (Optional: AC/DC 36V / 24V)
- For any other special requirements or urgent delivery requests, please inform us in advance

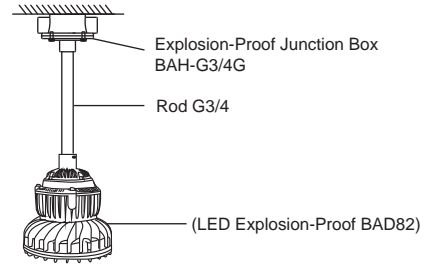
Mounting Options



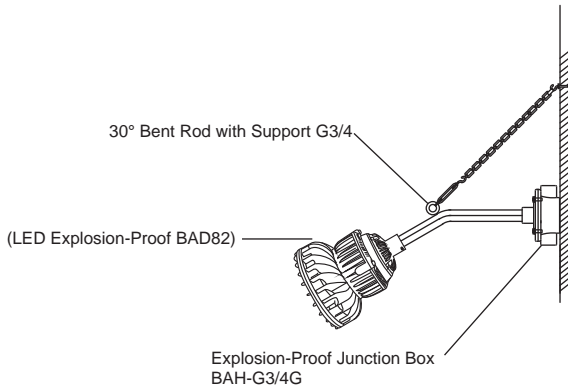
Bracket Mount (b)



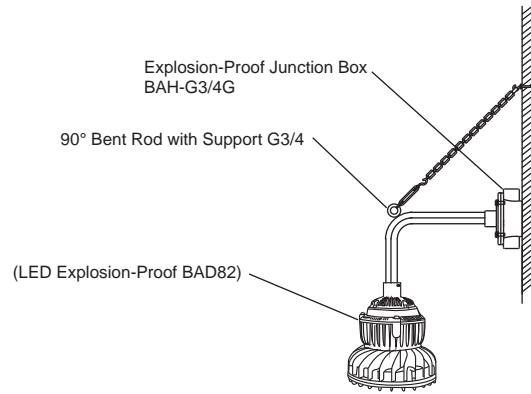
Ceiling Mount (x)



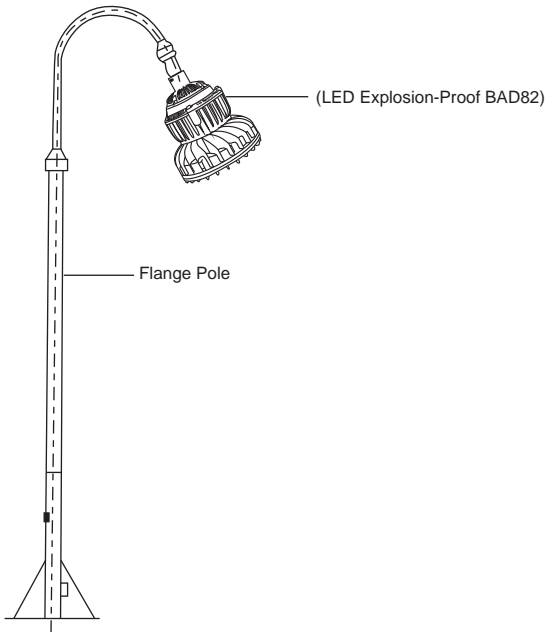
Pendant Mount (g)



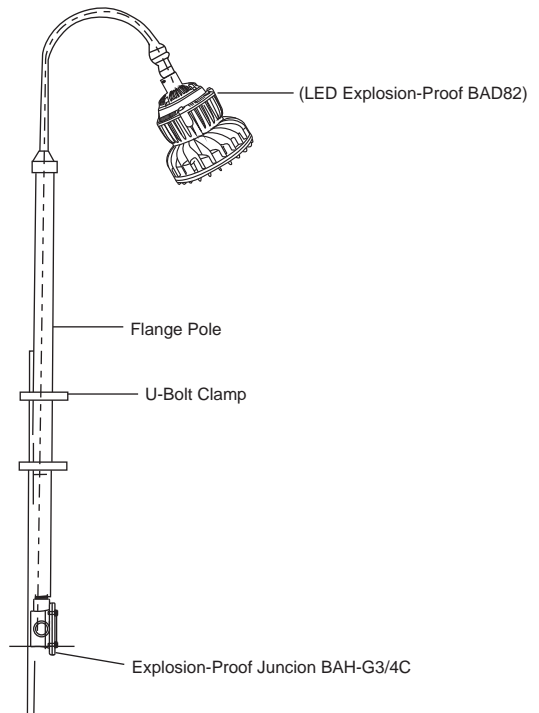
Wall Mount 30° (b1)



Wall Mount 90° (b2)



Flange Mount (f)



Handrail Mount (h)