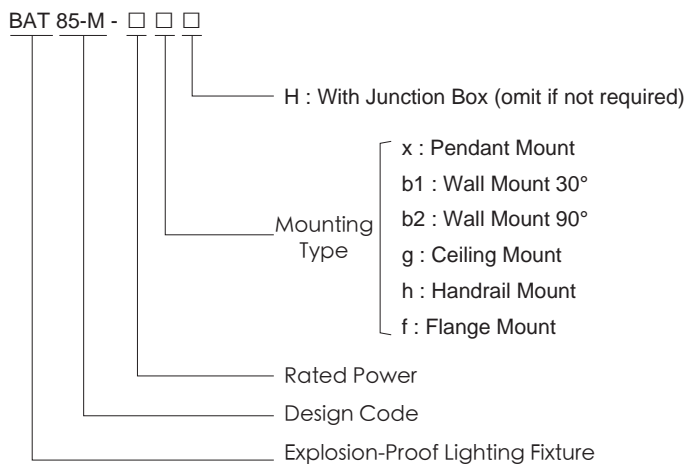


Applications

- Suitable for hazardous environments such as oil extraction, refining, chemical plants, military facilities, offshore platforms, and tank farms for general illumination and task lighting.
- Ideal for energy-saving retrofit projects and locations where maintenance or lamp replacement is difficult.
- Suitable for humid or high-corrosion environments requiring enhanced protection performance.
- Applicable for hazardous gas environments in Zone 1 and Zone 2.
- Suitable for explosive gas groups IIA, IIB, and IIC.
- Suitable for T1–T6 temperature classes.

Model Designation






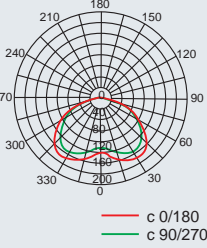
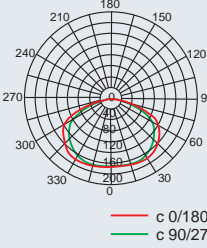
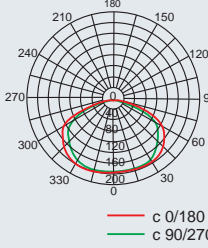
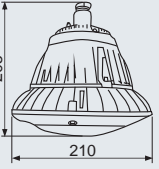
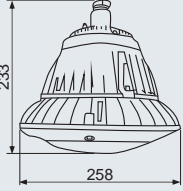
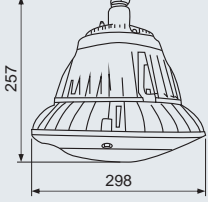
Product Specifications

Model	Rated Power	Explosion-Proof Marking	Enclosure Type
BAD85-M□□□	30W~50W	Exdem b II CT5 Gb	I
BAD85-M□□□	60W~80W		II
BAD85-M□□□	100W~150W		III

Product Features

Optical System Features	<ul style="list-style-type: none"> ◆ Uses premium imported LED chips with excellent luminous maintenance and high luminous efficiency. ◆ Surface Mount Technology (SMT) design significantly improves thermal conductivity performance. ◆ Optimized honeycomb optical structure effectively enhances lighting efficiency and illumination performance.
Driver System Features	<ul style="list-style-type: none"> ◆ Equipped with constant-current driver featuring short-circuit and over-voltage protection. ◆ EA type can operate as both normal lighting and emergency lighting. ◆ EB type is dedicated emergency lighting and remains off during normal operation. ◆ Type A and Type B automatically activate emergency lighting when the main power supply fails and can also be externally controlled. ◆ Wide voltage input design ensures stable operation without flickering and provides excellent EMC performance. ◆ Supports voltage fluctuation tolerance up to ±20%. ◆ Driver module adopts encapsulation technology to prevent component corrosion.
Heat Dissipation System Features	<ul style="list-style-type: none"> ◆ Special three-cavity independent structure ensures stable operation of electronic components. ◆ Air-convection heat dissipation channels effectively extend LED service life. ◆ Independent power supply chamber prevents heat from affecting driver stability and lifespan.
Lamp Structure Features	<ul style="list-style-type: none"> ◆ Adopts IIC explosion-proof structure with IP66 protection grade for excellent safety performance. ◆ Uses high-strength tempered glass resistant to high-energy impact. ◆ All exposed fasteners and accessories are made of corrosion-resistant stainless steel. ◆ Integrated emergency module design eliminates the need for external emergency boxes, simplifying installation ◆ Side-opening structure provides convenient wiring and maintenance. Multiple mounting options are available.
Patent Design Advantages	<ul style="list-style-type: none"> ◆ Patented three-cavity independent structure combined with convection ventilation design provides efficient airflow, reduced contact heat transfer, larger heat dissipation area, attractive appearance, and versatile industrial applications.

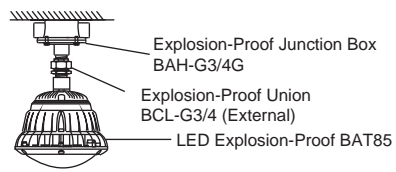
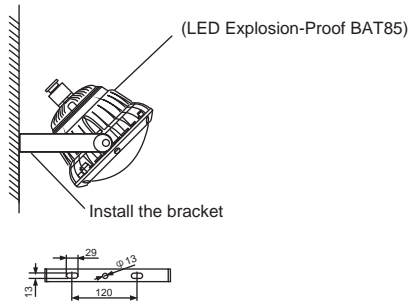
Main Technical Parameters

								
I			II			III		
Explosion-Proof Marking			Exdemb II CT5 Gb					
Rated Power: 30~50W			60~80W			100~150W		
Operating Voltage:			AC/DC 220V± 20% 50Hz					
Power Factor:			0.98					
LED Luminous Flux: 3000~4500Lm			5500~8500Lm			10000~14500Lm		
Protection Grade:			IP65 *IP66					
Anti-Corrosion Grade:			WF1 *WF2					
Cable Entry:			G3/4 cable entry thread, suitable for Ø10~Ø14 mm cable					
Wiring Method:			≤2.5mm ² conductor direct connection					
Mounting Methods:			Pendant Mount (x), Wall Mount 30° (b1), Wall Mount 90° (b2), Ceiling Mount (g), Handrail Mount (h), Flange Mount (f)					
Installation Height: 2~3.5 m			2~5 m			3~6 m		
Recommended Pole Spacing: 2~3 m			3~4 m			3~5 m		
Average Illuminance: 85 lx (at 3 m)			100 lx (at 4.5 m)			100 lx (at 5 m)		
Equivalent Conventional Light Sources:			60W~100W Energy-Saving Lamp, 40W~80W Fluorescent Lamp, 125W Mercury Lamp, 250W Mercury Lamp, 70W~250W Metal Halide Lamp					
Standards:			GB3836.1, GB3836.2, IEC60079-0, IEC60079-1, EN60079-0, EN60079-1					
Product Weight: 5kg			5.2kg			5.7kg		
<p>Distribution Curve cd/1000lm</p>  <p>— c 0/180 — c 90/270</p>			 <p>— c 0/180 — c 90/270</p>			 <p>— c 0/180 — c 90/270</p>		
<p>Outline Dimensions</p>  <p>205 210</p>			 <p>233 258</p>			 <p>257 298</p>		

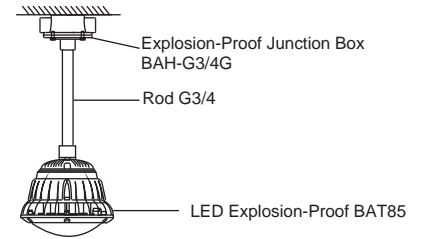
Ordering Information

- ◆ Please select the explosion-proof marking according to the product model designation. Example: For 40W, 220V, pendant mount, with junction box, gas explosion-proof type, the recommended model is: BAD85-M40gH Ex d IIC T6 Gb
- ◆ If IIC junction box configuration is required, please specify clearly when ordering.
- ◆ The luminaire is supplied without cable by default. Please specify cable requirements separately if needed.
- ◆ For special voltage requirements, please specify when ordering. Optional voltages include AC/DC 36V and 24V.
- ◆ Please specify any other special requirements or emergency lighting functions when ordering.

Mounting Options

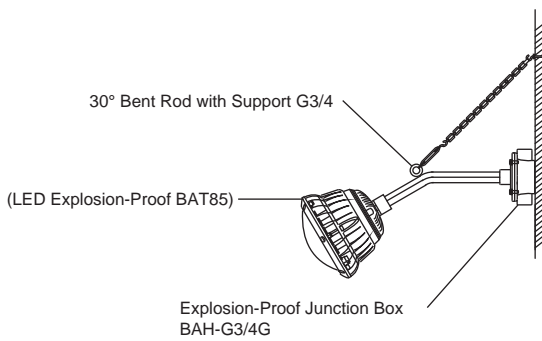


Ceiling Mount (x)

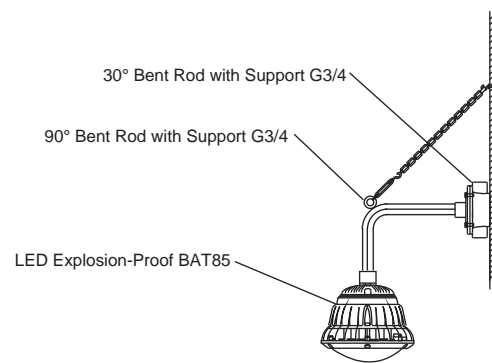


Pendant Mount (g)

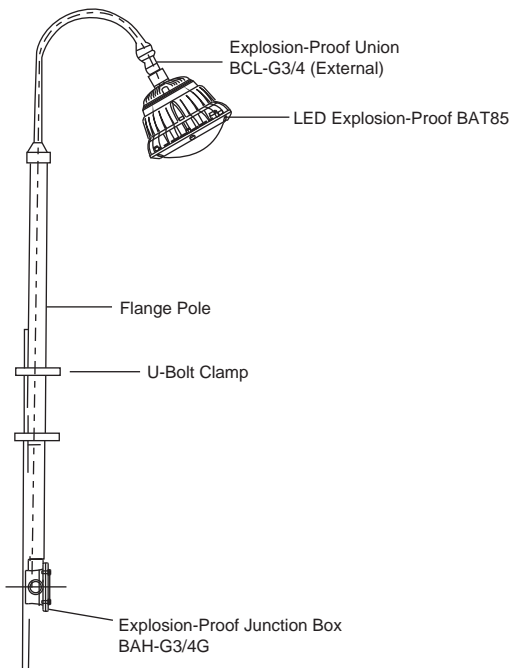
Bracket Mount (b)



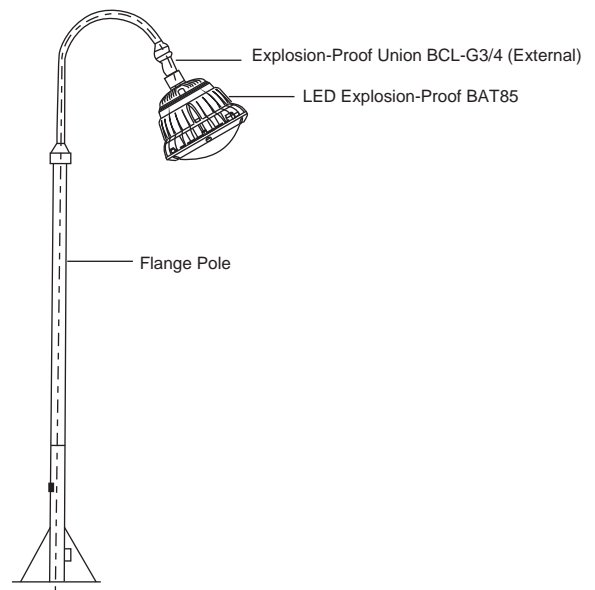
Wall Mount 30° (b1)



Wall Mount 90° (b2)



Handrail Mount (h)



Flange Mount (f)