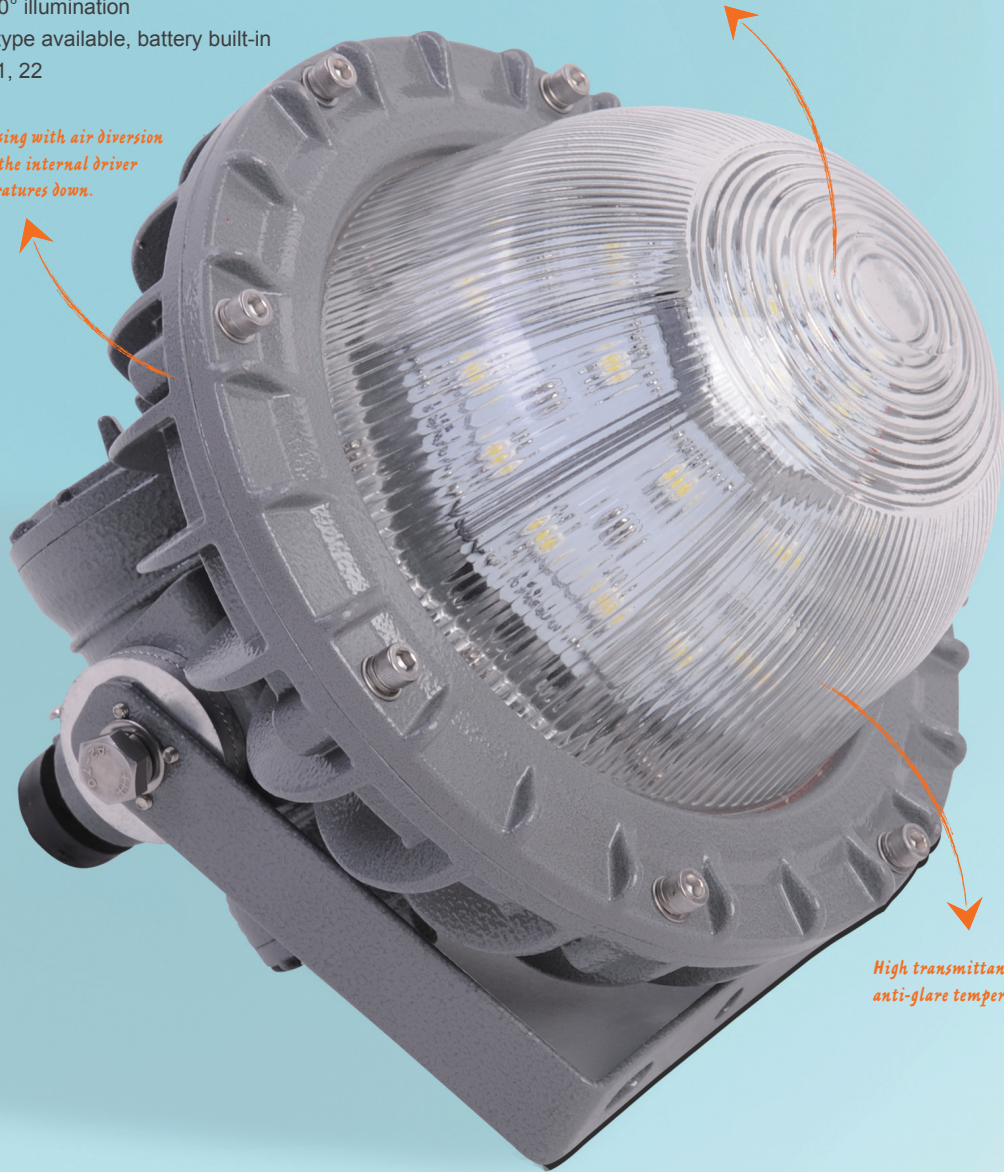


BLD230 Series LED Explosion-Proof Lighting

- Service life over 60,000 hours
- Over 50% less energy consumption comparing to HID
- Easy to install, low maintenance costs
- Unique horizontal tri-chamber structure
- Excellent 180° illumination
- Emergency type available, battery built-in
- Zone 1, 2, 21, 22

Aluminum housing with air diversion structure keeps the internal driver and LED temperatures down.

Excellent 180° illumination



High transmittance anti-glare tempered glass



Housing type II for 20-40W



Housing type III for 50-80W



BLD230 Series LED Explosion-Proof Lighting

FEATURES

- Energy-efficient: compared with conventional lighting, LED consumes up to 85% less energy.
- Long life: last to 60,000h rated life or more, 50 times of incandescent bulbs, 8 times of fluorescent lamps.
- High light efficiency: dedicated honeycomb mirror enhance bigger lighting area, uniform illumination.
- Horizontal tri-chamber structure, ensures LED heat will not affect driver and wiring parts.
- Optimized heat sink: aluminum housing with air diversion structure removes heat from the LEDs and driver to ensure longer life.
- Excellent 180° illumination, meet high illumination demand.
- Wide voltage range: AC220V type can operate within 90-260V range.
- Multi-protection: constant current with short-circuit and overvoltage protection.
- Good EMC: excellent electromagnetic compatibility and anti-interference.
- SMT technology: surface mounting technology keeps low working temperature of LED chip.
- Standard material: copper-free Aluminum housing, surface with epoxy powder coating, tempered glass and stainless steel external hardware.
- Emergency type: 20/30W can be battery built-in, last to 60 min working after power cut.

Application sectors



Oil refineries



Chemical and petrochemical plants



Onshore plants



Offshore plants



Low temperatures



Fuel depots



Fuel tanker loading/unloading areas

SPECIFICATION

Classification	Group II Category 2GD							
Installation EN 60079-14	Zone 1 - Zone 2 (Gas) & Zone 21 - Zone 22 (Dust)							
Standards	IEC60079-0, IEC60079-1, EN60079-0, EN60079-1, IEC60079-31							
Ex-mark	Exd II CT6 Gb/Ext III BT85°C Db							
Rated Voltage	AC/DC 220V(*1) 50/60Hz							
Housing Type	I		II			III		
Rated Wattage	5W	10W	20W(*2)	30W(*2)	40W	50W	60W	70W 80W
Luminous Flux	500Lm	1000Lm	2000Lm	3000Lm	4000Lm	5000Lm	6000Lm	7000Lm 8000Lm
Color Temperature	5000-5500K(3000K optional)							
IP Grade	IP66							
Corrosion-proof Grade	WF2							
Ambient temperature	-20°C~ +60°(-40°C optional)							
Cable Entry	G3/4" or NPT 3/4" or M25x1.5							
Terminals	wires≤2.5mm²							
Installation	Ceiling/pendant/bracket/wall/fence/flange							

Remark:

1:AC/DC 12V/24/36V/48/110V are available. 2: Emergency type is available.

BLD230 Series LED Explosion-Proof Lighting

MECHANICAL FEATURES

Body: Copper-free content aluminum alloy

Globe: Shock and temperature resistant borosilicate glass with aluminum shade ring

Gaskets: Acid/hydrocarbon resistant silicone gasket for temperatures of -50°C

Guard(optional): Electro-polished stainless steel

Bolts and screws: Stainless steel

Entries: G3/4" or NPT 3/4" or M25x1.5

Coating: Epoxy coating(grey)

Corrosion resistance: The STANDARD of the Aluminum alloy used by Qinsun has passed the tests required by standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)

PRODUCT SPECIFICATION

Standard Type						
Product Code	Rated Power	Rated Voltage	Cable Entry	Ex Mark	Housing Type	Weight (kg)
BLD230-5	5W	AC220V	G3/4" or NPT 3/4" or M25x1.5	ExdIIC T6	I	1.7
BLD230-10	10W					
BLD230-20	20W	AC220V	G3/4" or NPT 3/4" or M25x1.5	ExdIIC T6	II	7.0
BLD230-30	30W					
BLD230-40	40W					
BLD230-50	50W	AC220V	G3/4" or NPT 3/4" or M25x1.5	ExdIIC T6	III	8.0
BLD230-60	60W					
BLD230-70	70W					
BLD230-80	80W					
Emergency Type						
Product Code	Rated Power	Emergency Power	Emergency Duration	Battery Capacity	Housing Type	Weight (kg)
BLD230E-20	20W	10W	60min	12V, 1500mAH Li	II	7.5
BLD230E-30	30W	10W	60min	12V, 1800mAH Li		

▫ Housing dimension see BLD230 series dimensional drawings.

ORDERING REQUEST/ACCESSORIES AVAILABLE

Different rated voltages/power

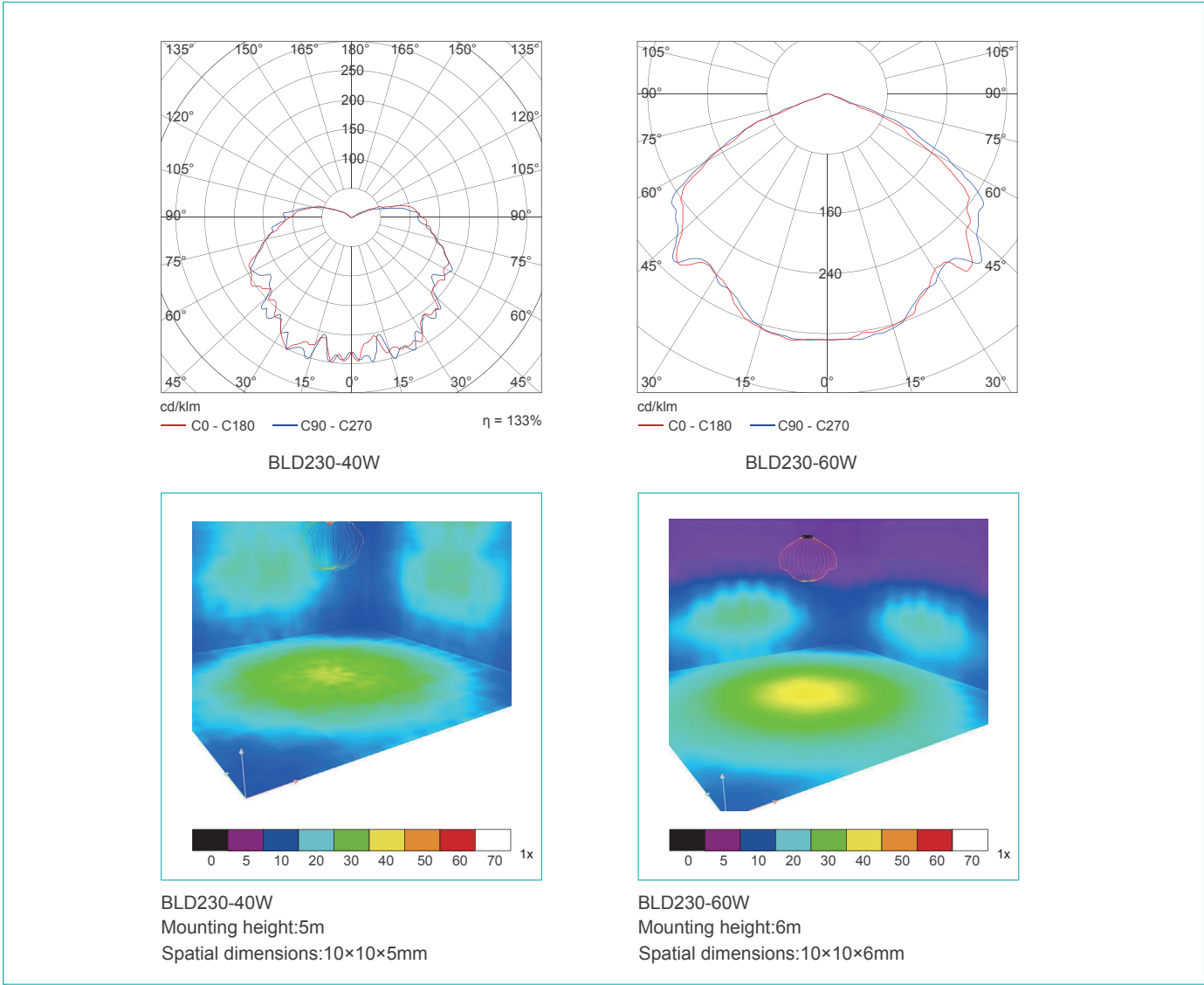
Different installation method

Different color temperature

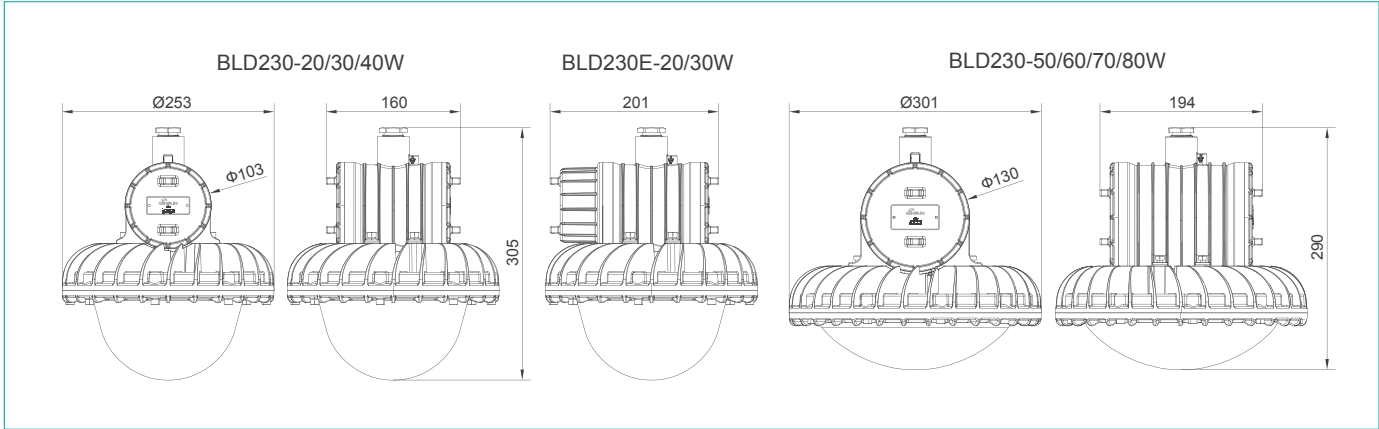
Metal guard/cable gland/terminal box

BLD230 Series LED Explosion-Proof Lighting

LIGHT DISTRIBUTION CURVE



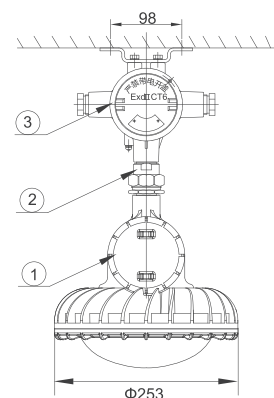
DIMENSIONS



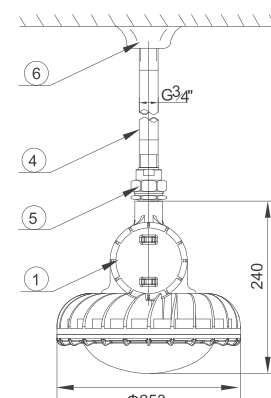
BLD230 Series LED Explosion-Proof Lighting

INSTALLATION

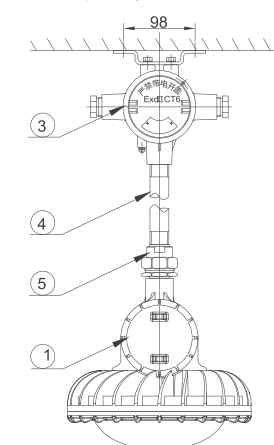
Ceiling (Junction box IIC/IIB)



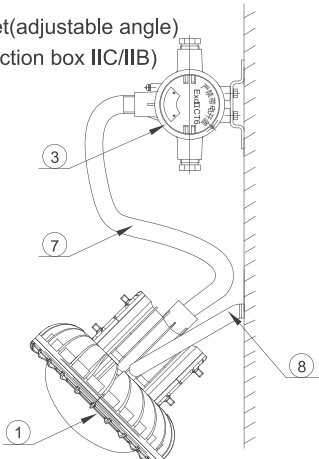
Pendant-pole(sucker)



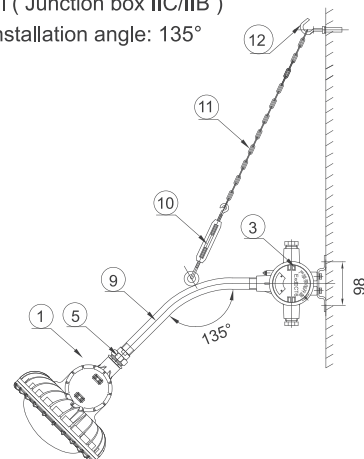
Pendant-pole (Junction box IIC/IIB)



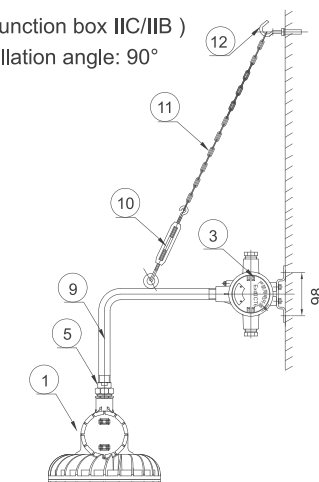
Bracket(adjustable angle)
(Junction box IIC/IIB)



Wall (Junction box IIC/IIB)
Installation angle: 135°



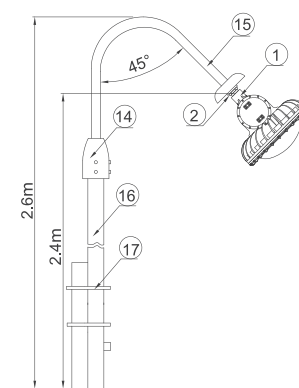
Wall (Junction box IIC/IIB)
Installation angle: 90°



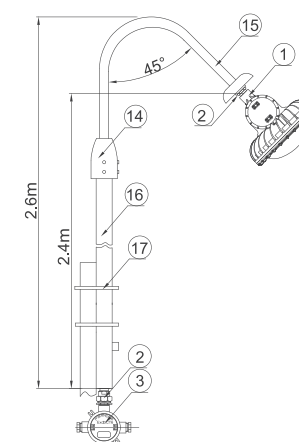
BLD230 Series LED Explosion-Proof Lighting

INSTALLATION

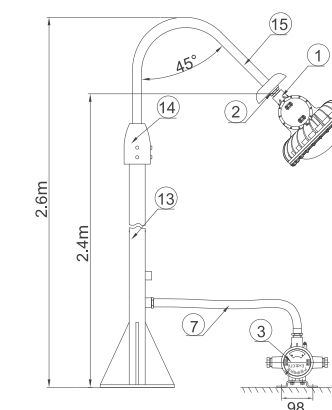
Fence



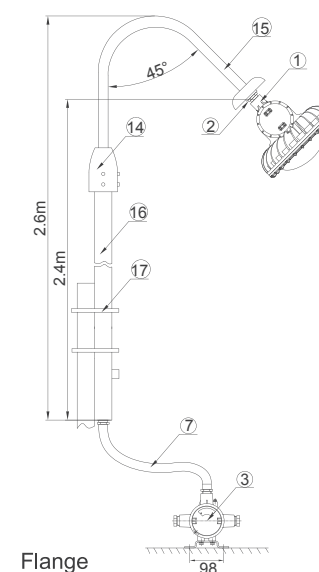
Fence(Junction box IIC/IIB -Integral type)



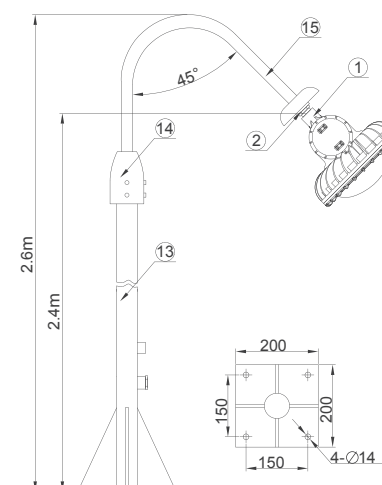
Flange (Junction box IIC/IIB)



Fence(Junction box IIC/IIB -Integral type)



Flange



>Table of Spare parts

No.	Item	Remark
①	LED Ex-proof Light Fitting (LED Ex-proof Emergency Light Fitting)	
②	Ex union coupling G3/4"(M) G3/4"(M)	
③	Ex Junction box(IIC/IIB)	
④	Straight Pipe G3/4"	300mm
⑤	Ex union coupling G3/4"(F)	Supplied by user
⑥	G3/4"(M)G3/4" sucker	
⑦	Ex flexible connecting pipe G3/4" both Male	Supplied by user
⑧	Mounting bracket	
⑨	Bent pipe G3/4"	300mm
⑩	CC type rigging screw buckle	
⑪	Chain	450mm
⑫	Expansion screw	
⑬	Upright pole G1 1/2"	Flange type
⑭	Reducer	
⑮	Bent pipe G1"	
⑯	Upright pole G1 1/2"	Flange type
⑰	U type clamp	Supplied by user

>Table of Spare parts

Installation	Accessories supplied
Ceiling	Please refer to ② in Outline and Installation Dimension Table
Pendant-pole	Please refer to ④ in Outline and Installation Dimension Table
Bracket	Please refer to ⑧ in Outline and Installation Dimension Table
Wall	Please refer to ⑨ ⑩ ⑪ ⑫ in Outline and Installation Dimension Table
Flange	Please refer to ② ⑬ ⑭ ⑮ in Outline and Installation Dimension Table
Fence	Please refer to ② ⑭ ⑮ ⑯ in Outline and Installation Dimension Table