



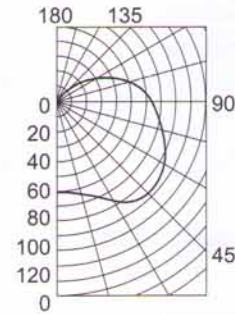
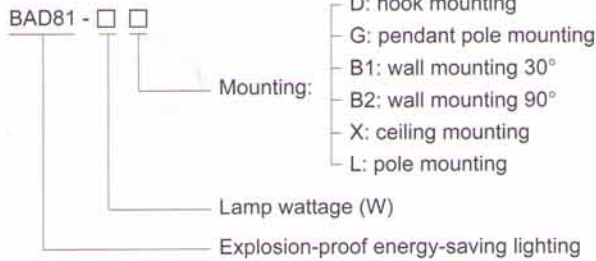
BAD81-□□ Series

Flameproof Energy-saving Lighting

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used
 - in Zone 1 and Zone 2
 - in Zone 21 and Zone 22
- ◆ Two housing versions, usable for compact light fittings of 42W, 68W energy-saving lamp. Quick start, no dizzy light, high light efficiency, long service life and great brightness, meeting the requirements for energy-saving and environment protection.
- ◆ The luminous intensity of 42W compact light fittings equals to that of 80W mercury lamp; the luminous intensity of 68W compact light fittings equals to that of 125W mercury lamp.
- ◆ Wire guard of zinc-coated
- ◆ Toughened glass cover, anti impact and high light transmission

BAD81-□□ series explosion-proof energy-saving lighting is usable for lighting in the petrochemical factory, where is filled with II A, II B, II C explosive gas mixture and flammable and explosive dust.

Catalogue number logic



Luminous intensity distribution
(cd/1000lm)

Selection table

Type/Ordering code	Lamp wattage (W)	Weight	Type/Ordering code	Lamp wattage (W)	Weight
BAD81-42D	42W	2.9 kg	BAD81-68D	68W	3.8 kg
BAD81-42G	42W	5.4 kg	BAD81-68G	68W	6.3 kg
BAD81-42B1	42W	5.6 kg	BAD81-68B1	68W	6.5 kg
BAD81-42B2	42W	5.8 kg	BAD81-68B2	68W	6.7 kg
BAD81-42X	42W	5.1 kg	BAD81-68X	68W	6.0 kg
BAD81-42L	42W	3.9 kg	BAD81-68L	68W	4.8 kg

Note: The light fittings are supplied according to "type/ordering code", with accessories and spare parts listed in "installation accessories and spare parts table".

Zones 1&2 ; 21&22

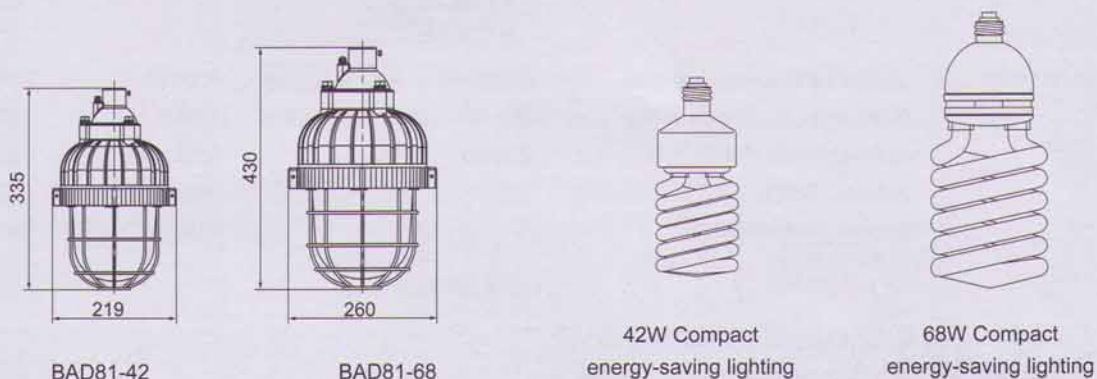
Technical Data

Explosion-proof energy-saving lighting		BAD81-□□
Explosion protection	Gas explosion protection Dust explosion protection	⊕ II 2G Exd II CT4 Ex tD A21 IP65 T135°C
Certificates	For gas explosion protection For dust explosion protection	LCIE 07 ATEX 6037; IECEx CQM 08.0002 PCEC (China)
Conformity to standards		EN 60079-0:2006; EN 60079-1:2004; IEC 60079-0:2004 ; IEC 60079-1:2003
Material	Housing Guard Transparent cover Reflector	IEC 61241-0:2004 ; IEC 61241-1:2004 Aluminum alloy, powder-coated, yellow Metal of zinc-powder, white Toughened glass Pure aluminum
Lamps	Lamp holder Lamp Wattage (W)	E27 TCP from America 42W 68W
Rated voltage		AC 230V 50Hz (207V ~ 253V)
Earthing protection		M5 (earthing bolt inside and outside the light fittings)
Degree of protection		IP65
Ambient temperature		-20°C ~ +55°C
Connection		Terminals 3 x 1.5 ~ 2.5mm ² (L+N+PE)
Hub		M25 x 1.5
Cable gland		With a cable seal and plastic nut, the plastic nut used to protect the connection thread when ex-works, but it is not used when the user install the equipment.
Available cable outer diameter		ø10 ~ ø14 (mm)

Lamp data

Energy-saving lamp	Input rated voltage	Voltage range	Working current	Luminous flux	Service life
42W	220V	207V ~ 253V	380mA	2800lm	10000h
68W	220V	207V ~ 253V	618mA	4200lm	10000h

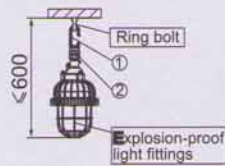
Dimension drawings (all dimensions in mm)-subject to alteration



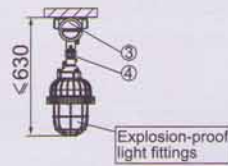
Mounting versions

As a reference to the installation on the site

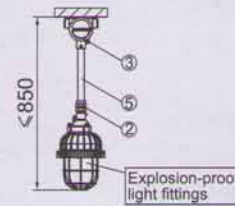
D: hook mounting



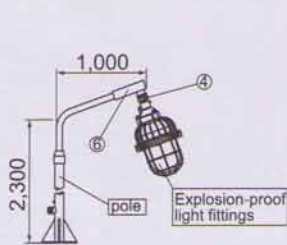
X: ceiling mounting



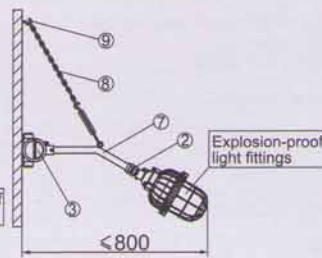
G: pendant pole mounting



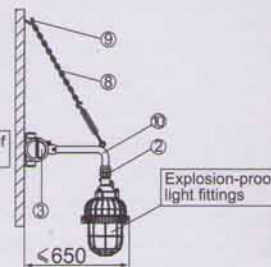
L: pole mounting



B1: wall mounting 30°


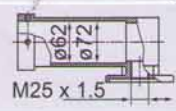



B2: wall mounting 90°



Installation accessories and spare parts table

Supplied according to the mounting version

Mounting version	Accessories supplied with the light fittings			Ordering code	Weight
	Name	Qty	Remark		
D: hook mounting	①.Hook, stainless steel	1		61020	0.200 kg
	②.BGJ-03 explosion-proof connector (female M25 x 1.5, male G3/4")	1	Carbonate steel	81D02	0.301 kg
X: ceiling mounting	③.BHD explosion-proof pendant light Junction box	1	Aluminum alloy (II C)	BHD-F	0.964 kg
	④.BGJ-03 explosion-proof connector	1	M25 x 1.5 male/G3/4" male	81X01	0.285 kg
G: pendant pole mounting	②.BGJ-03 explosion-proof connector	1	The same as hook mounting	81D02	0.301 kg
	③.BHD explosion-proof pendant light Junction box	1	The same as ceiling mounting	BHD-F	0.964 kg
	⑤.Straight pipe (M25 x 1.5)	1	300mm	81G01	0.500 kg
L: pole mounting	④.BGJ-03 explosion-proof connector	1	The same as ceiling mounting	81X01	0.285 kg
	⑥.Casted iron	1		81L01	1.010 kg
B1: Wall mounting 30°	②.BGJ-03 explosion-proof connector	1	The same as hook mounting	81D02	0.301 kg
	③.BHD explosion-proof pendant light Junction box	1	The same as ceiling mounting	BHD-F	0.964 kg
	⑦.Bent pipe 30°(M25 x 1.5)	1	290mm	51021	0.474 kg
	⑧.Chain fittings	1	580mm	80B11	0.206 kg
	⑨.Hook expansion bolt	1		51017	0.060 kg

Note: 1. Accessories not in the table should be supplied by user.

2. The quantity in the table is for one set of light fittings.

Installation accessories and spare parts table

Supplied according to the mounting version

Mounting version	Accessories supplied with the light fittings			Ordering code	Weight
	Name	Qty	Remark		
B2: wall mounting 90°	② .BGJ-03Explosion-proof connector	1	The same as hook mounting	81D02	0.301 kg
	③ .BHD explosion-proof pendant light Junction box	1	The same as ceiling mounting	BHD-F	0.964 kg
	④ .chain fittings	1	The same as wall mounting 30°	80B11	0.206 kg
	⑤ .hook expansion bolt	1	The same as wall mounting 30°	51017	0.060 kg
	⑥ .bent pipe 90° (M25 x 1.5)	1	400mm	51022	0.648 kg

Note: 1. Accessories not in the table should be supplied by user.
2. The quantity in the table is for one set of light fittings.

Power connection and relamp



- ◆ Screw out the bolt of the connection box, power cable connected to the lamp holder through the connection box entry.



- ◆ Open the transparent cover and screw the lamp into the holder, tighten, ensuring good contact, and then close the transparent cover.

Accessories and spare parts

Picture	Accessories	Ordering code	Weight
	42W wire guard	81001	0.276 kg
	68W wire guard	81002	0.403 kg
	E27 lamp holder	81003	0.059 kg
	42W lamp	81004	0.177 kg
	68W lamp	81005	0.437 kg