

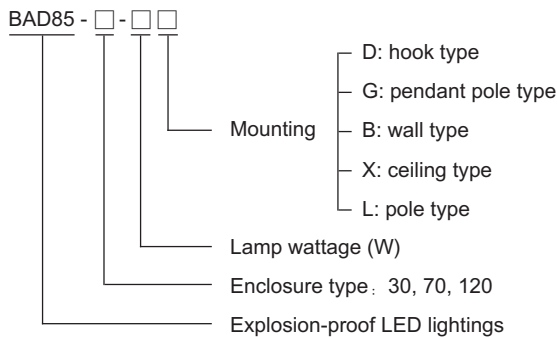


Energy-saving Lightings

BAD85 Sereis Explosion-proof LED Lightings

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Applicable lamp and wattage (max.120W)
 - LED lamps, energy-saving and long service life
 - 20W, 30W, 50W, 70W, 100W, 120W
- ◆ Three enclosure types: 30, 70, 120
- ◆ Isolated LED lamp compartment, CC-CV (constant current - constant voltage) power controller compartment, terminal compartment; wind-convection heat dissipation structure.

Catalogue number logic



Selection table

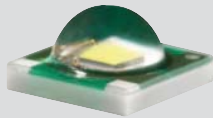
Type/Ordering code	Lamp wattage(W)
BAD85-30-□ □	20, 30
BAD85-70-□ □	50, 70
BAD85-120-□ □	100, 120

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/37).
2. The product is supplied according to "Type/Ordering code" in the table with mounting accessories.

Zones 1&2; 21&22

Technical data	
Explosion-proof LED lightings	BAD85-□ - □□
Explosion protection	⊕ II 2 GD Ex d IIC T6 Gb / Ex tD A21 T80°C IP66
Certificates	DNV 11 ATEX____; FM (USA); GOST.R (Russia); IECEx
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 61241-0:2006, EN 61241-1:2004 IEC 60079-0:2007, IEC 60079-1:2007, IEC 61241-0:2004, IEC 61241-1:2004
Material	
Enclosure	Copper-free aluminium, powder coated external surface, rape yellow (RAL1021)
Transparent cover	Toughened glass, stands 4J impact
Power controller	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.98 , with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit
Exposed fastener	Stainless steel
Lamp	
Lamp specification	CREE pural white LED modules
Lamp wattage (W)	20W, 30W 50W, 70W 100W, 120W
Rated voltage	187~265V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolt)
Degree of protection	IP66
Ambient temperature	-40°C ~ +55°C
Terminal	3 x 1.5~4mm ² (L+N+PE)
Mounting	Ceiling type, pole type, pendant pole type, wall type, hook type
Cable entries	G3/4", (NPT3/4" or M25 x 1.5 with reducer on request)
Cable gland	See Mounting Accessories and Spare Parts Table
Applicable cable outer diameter	Ø10~Ø14 (mm)



Energy-saving description		
Name	Metal halide lamp 150W	BAD85-120
Rated wattage (W)	150	120
Working current (A)	1.80/220V	0.55/220V
Power factor (cos ϕ)	0.56	0.95
Effective luminous flux (lm)	11000	10800
Service life (h)	15000	50000
Energy-saving effect	Similar luminous flux, electricity saved by over 70%, LED lamp service life extended by over 3 times, less maintenance expense, and less electric energy loss.	 <p>Elaboration of pural white LED modules, unidirectional illumination, soft and balanced light, luminous efficiency>90lm/W, high colour rendering, long service life (50000h), environmental.</p>

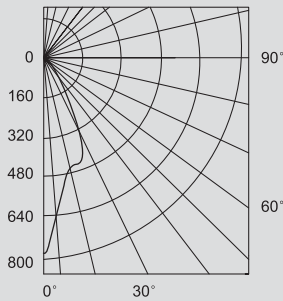
Photometric data



BAD85-30

Photometric data of 20W LED lamp

Rated luminous flux:1800lm;
The data from CREE lamp;
Luminous intensity distribution cd/1000lm



30W LED lamp*1.5

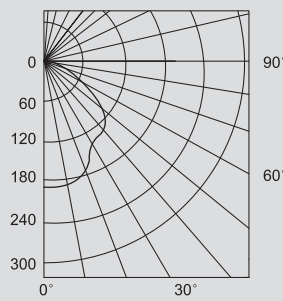
Angle	CP	Angle	CP	Angle	CP
0	1254	60	75	120	0
5	1013	65	60	125	0
10	766	70	51	130	0
15	668	75	45	135	0
20	675	80	30	140	0
25	525	85	17	145	0
30	310	90	10	150	0
35	165	95	6	155	0
40	128	100	0	160	0
45	105	105	0	165	0
50	85	110	0	170	0
55	80	115	0	175	0
				180	0



BAD85-70

Photometric data of 50W LED lamp

Rated luminous flux:4500lm;
The data from CREE lamp;
Luminous intensity distribution cd/1000lm



70W LED lamp*1.4

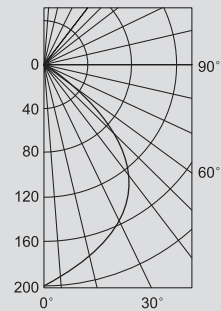
Angle	CP	Angle	CP	Angle	CP
0	864	60	303	120	0
5	815	65	235	125	0
10	765	70	155	130	0
15	690	75	78	135	0
20	715	80	39	140	0
25	725	85	18	145	0
30	639	90	11	150	0
35	640	95	8	155	0
40	606	100	5	160	0
45	462	105	4	165	0
50	415	110	0	170	0
55	410	115	0	175	0
				180	0



BAD85-120

Photometric data of 100W LED lamp

Rated luminous flux:9000lm;
The data from CREE lamp;
Luminous intensity distribution cd/1000lm



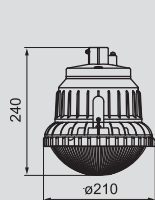
120W LED lamp*1.2

Angle	CP	Angle	CP	Angle	CP
0	1750	60	502	120	0
5	1615	65	273	125	0
10	1387	70	154	130	0
15	1269	75	55	135	0
20	1215	80	32	140	0
25	1245	85	19	145	0
30	1195	90	13	150	0
35	1124	95	10	155	0
40	910	100	6	160	0
45	789	105	5	165	0
50	665	110	4	170	0
55	475	115	3	175	0
				180	0

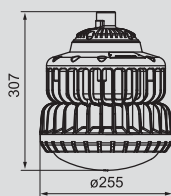


We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

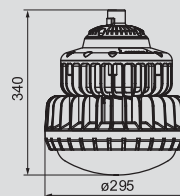
Mounting type (all dimensions in mm) - subject to alteration



BAD85-30

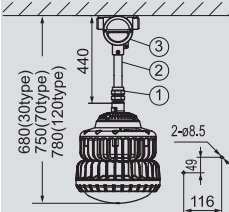


BAD85-70



BAD85-120

G: pendant pole type

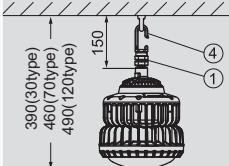


Weight: 4.70kg (30type)
7.80kg (70type)
8.80kg (120type)

Accessories supplied with the light fittings:

- ①. BGJ-III explosion-proof connector G3/4" (M)/M25 x 1.5 (F), carbon steel.
- ②. Straight pipe(M25 x 1.5), 300mm long.
- ③. BHD51-F(Ex d IIC, copper-free aluminium), see P3/6.

D: hook type

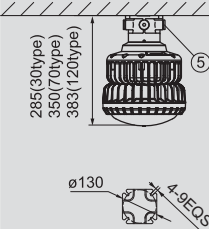


Weight: 3.40kg (30type)
6.50kg (70type)
7.50kg (120type)

Accessories supplied with the light fittings:

- ①. BGJ-III explosion-proof connector G3/4" (M)/M25 x 1.5 (F), carbon steel.
- ②. Hook (stainless steel).

X: ceiling type

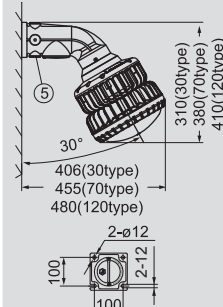


Weight: 4.30kg (30type)
7.40kg (70type)
8.40kg (120type)

Accessories supplied with the light fittings:

- ③. 4 x M25 x 1.5 Plug; Ex d cable gland (optional): DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20 - 25.

B: wall type

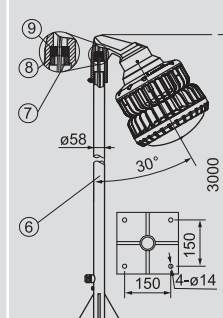


Weight: 6.10kg (30type)
9.20kg (70type)
10.20kg (120type)

Accessories supplied with the light fittings:

- ④. 4 x M25 x 1.5 Plug; Ex d cable gland (optional): DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20 - 25.

L: pole type



Weight: 4.60kg (30type)
7.70kg (70type)
8.70kg (120type)

Accessories supplied with the light fittings:

- ⑥. Pole shall be provided by user.
- ⑦. Locking bolt, 1 No.
- ⑧. Washer, 2 Nos.
- ⑨. Seal ring, 1 No.

Accessories

Picture	Name	Ordering code	Weight (kg)
	Power controller 20W	85001	0.20
	Power controller 30W	85002	0.20
	Power controller 50W	85003	0.45
	Power controller 70W	85004	0.45
	Power controller 100W	85005	0.58
	Power controller 120W	85006	0.58
	LED Lamp module 20W	85007	0.10
	LED Lamp module 30W	85008	0.10
	LED Lamp module 50W	85009	0.15
	LED Lamp module 70W	85010	0.15
	LED Lamp module 100W	85011	0.27
	LED Lamp module 120W	85012	0.27
	30 Type transparent cover with fixing-ring	85013	1.20
	70 Type transparent cover with fixing-ring	85014	1.84
	120 Type transparent cover with fixing-ring	85015	2.90

