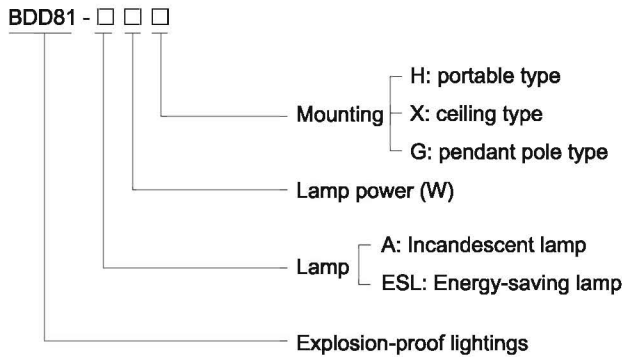




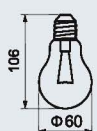
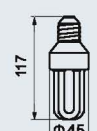
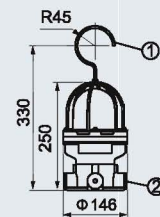
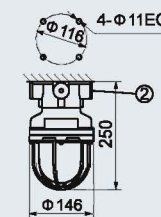
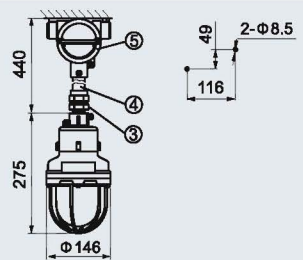
Energy-saving Lightings BDD81 Series Explosion-proof Lightings

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 1, Groups A, B, C, D
- ◆ Available lamp and power:
 - Low power incandescent lamp (max.100W)
 - Compact energy-saving lamp (max.11W)
- ◆ Enclosure in copper-free aluminium, powder coated surface, yellow (RAL1021).
- ◆ The light fittings are supplied without lamp. PHILIPS lamps are recommended.

Catalogue number logic



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

Installation reference	H: portable type	X: ceiling type	G: pendant pole type
 <p>100W Incandescent lamp</p>  <p>11W Energy-saving lamp</p>	 <p>Weight: 2.70kg Accessories supplied with the light fittings: ①.Hook ②.4 x M25 x1.5 Plug; Ex d cable gland (optional); DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20-25.</p>	 <p>Weight: 2.50kg Accessories supplied with the light fittings: ②.4 x M25 x1.5 Plug; Ex d cable gland (optional); DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20-25.</p>	 <p>Weight: 4.50kg Accessories supplied with the light fittings: ③.BGJ-III explosion-proof connector M25 x 1.5(M)/M25 x 1.5(F), carbon steel. ④.Straight pipe(M25 x 1.5),300mm long. ⑤.BHD51-F (Ex d IIC, copper-free aluminium), see P3/6.</p>

Zones 1&2; 21&22

Technical data

Explosion-proof lightings BDD81 - □ □ □

Explosion protection

- Gas explosion protection
- Dust explosion protection

Certificates

Conformity to standards

Material

- Enclosure
- Transparent cover
- Wire guard (optional)
- Exposed fastener

Lamp

- Lamp holder
- Available lamp and lamp power (W)

Rated voltage

Earthing protection

Degree of protection

Ambient temperature

Terminal

Mounting

Cable entries

Cable gland (optional)

Applicable cable outer diameter

⊕ II 2 G Ex d IIC T4 Gb

⊕ II 2 D Ex t IIIC T130°C Db IP66

LCIE 11 ATEX 3110X; IECEx CQM 12.0036X; FM (USA); GOST.R (Russia)

EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009

IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-31: 2008

Copper-free aluminium, powder coated surface, yellow (RAL1021)

Toughened glass, stands 4J impact

Powder coated carbon steel (white) or stainless steel

Stainless steel

E27

Incandescent lamp: 25W, 40W, 60W, 100W

Energy-saving lamp: 9W, 11W (for sealed atmosphere)

220~240V AC 50/60Hz

M5 (internal & external earth bolts)

IP66

-40°C~+55°C

3 x 1.5~4mm² (L+N+PE)

Portable type, ceiling type, pendant pole type

4 x M25 x 1.5 for ceiling type and portable type, 1 x M25 x 1.5 for pendant pole type

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.

Φ 10~Φ 14 (mm)

Photometric data

Photometric data of 100W

incandescent lamp

Rated luminous flux:1025lm;

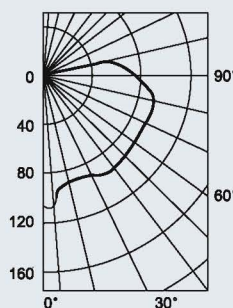
The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm

25W Incandescent lamp*0.2

40W Incandescent lamp*0.27

60W Incandescent lamp*0.49



Angle	CP	Angle	CP	Angle	CP
0	104	60	88	120	3
5	85	65	85	125	2
10	108	70	86	130	2
15	91	75	88	135	2
20	88	80	84	140	2
25	90	85	77	145	1
30	94	90	68	150	1
35	89	95	66	155	1
40	92	100	67	160	0
45	90	105	51	165	0
50	89	110	15	170	0
55	82	115	5	175	0
				180	0

Photometric data of 11W

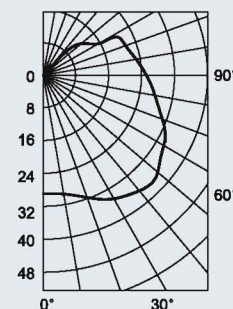
energy-saving lamp

Rated luminous flux:600lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm

9W Energy-saving lamp*0.7



Angle	CP	Angle	CP	Angle	CP
0	20	60	19	120	10
5	19	65	19	125	9
10	18	70	17	130	6
15	20	75	16	135	3
20	20	80	15	140	2
25	21	85	15	145	0
30	22	90	14	150	0
35	22	95	14	155	0
40	23	100	13	160	0
45	23	105	13	165	0
50	21	110	12	170	0
55	20	115	12	175	0
				180	0

