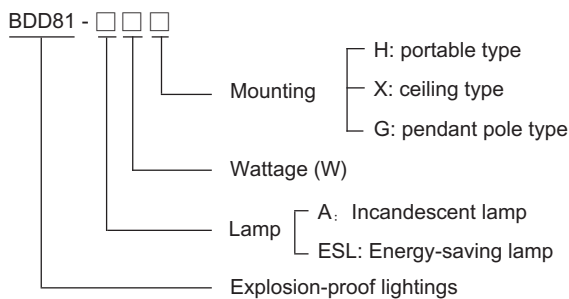




Energy-saving Lightings BDD81 Series Explosion-proof Lightings

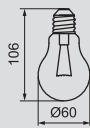
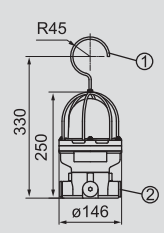
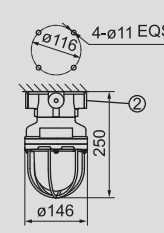
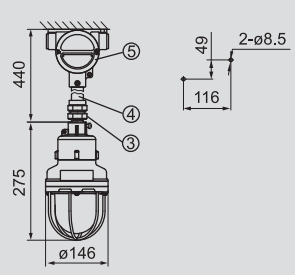

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Available lamp and wattage :
 - Low power incandescent lamp (max.100W)
 - Compact energy-saving lamp (max.11W)
- ◆ Enclosure in copper-free aluminium, powder coated external surface, rape 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
 106 Ø60 100W Incandescent lamp	 R45 330 250 Ø146	 Ø116 4-Ø11 EQS 250 Ø146	 440 275 Ø146 49 2-Ø8.5 116
 117 Ø45 11W Energy-saving lamp	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.	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.	Weight: 4.50kg Accessories supplied with the lightings: 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.

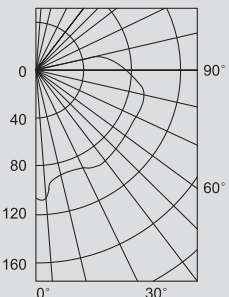
Zones 1&2; 21&22

Technical data	
Explosion-proof lightings	BDD81-□□□
Explosion protection	⊕ II 2 GD Ex d IIC T4 Gb / Ex tD A21 T130°C IP66
Certificates	LCIE 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
Wire guard (optional)	Powder coated carbon steel (white) or stainless steel
Exposed fastener	Stainless steel
Lamp	
Lamp holder	E27
Available lamp and lamp wattage (W)	Incandescent lamp: 25W, 40W, 60W, 100W Energy-saving lamp: 9W, 11W (for sealed atmosphere)
Rated voltage	220~240V 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	Portable type, ceiling type, pendant pole type
Cable entries	4 x M25 x 1.5 for ceiling type and portable type, 1 x M25 x 1.5 for pendant pole type
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.
Applicable cable outer diameter	Ø10~Ø14 (mm)

Photometric data

Photometric data of 100W incandescent lamp

Rated luminous flux:1025lm;
The data from PHILIPS lamp;
Luminous intensity distribution cd/1000lm

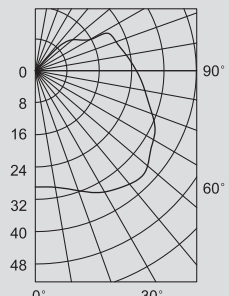


Angle	CP	Angle	CP	Angle	CP
0	104	60	88	120	3
5	85	65	85	125	2
10	108	70	86	130	2
15	91	75	88	135	2
20	88	80	84	140	2
25	90	85	77	145	1
30	94	90	68	150	1
35	89	95	66	155	1
40	92	100	67	160	0
45	90	105	51	165	0
50	89	110	15	170	0
55	82	115	5	175	0
				180	0

25W Incandescent lamp*0.2
40W Incandescent lamp*0.27
60W Incandescent lamp*0.49

Photometric data of 11W energy-saving lamp

Rated luminous flux:600lm;
The data from PHILIPS lamp;
Luminous intensity distribution cd/1000lm



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

9W Energy-saving lamp*0.7

