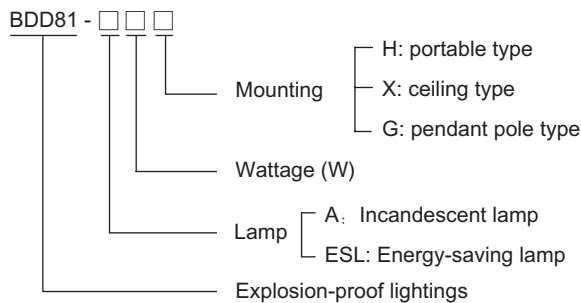




## Energy-saving Lightings BDD81 Series Explosion-proof Lightings

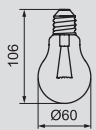
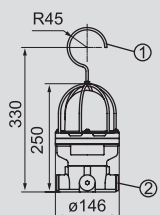
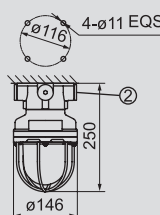
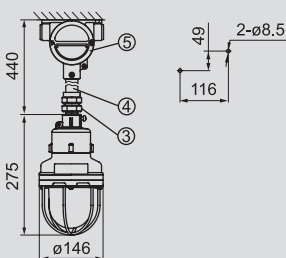

- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ Available lamp and wattage :
  - Low power incandescent lamp (max.100W)
  - Compact energy-saving lamp (max.11W)
- ◆ Enclosure in copper-free aluminium, powder coated external 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
 100W Incandescent lamp	 Weight: 2.70kg Accessories supplied with the light fittings: ①. Hook ②. 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.	 Weight: 2.50kg Accessories supplied with the light fittings: ②. 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.	 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.
 11W Energy-saving lamp			

# 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<sup>2</sup> (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)

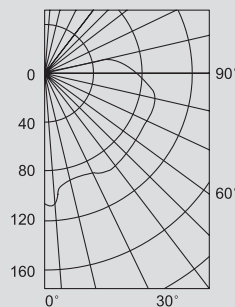
### Photometric data

#### 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

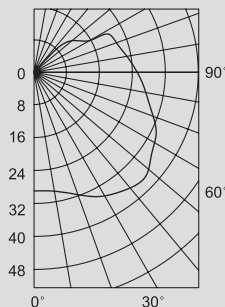
60W Incandescent lamp\*0.49

#### 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

