

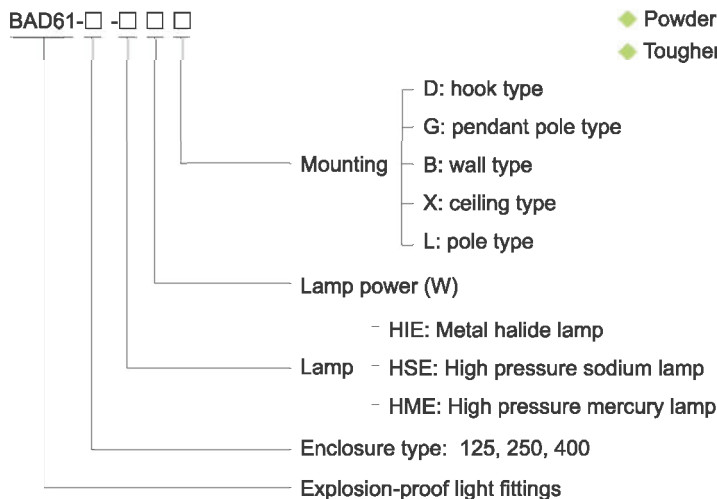


Pendant Light Fittings

BAD61 Series Explosion-proof Light Fittings

- ◆ 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 (max. 400W)
 - Metal halide lamp (HIE)
 - High pressure mercury lamp (HME)
 - High pressure sodium lamp (HSE)
- ◆ Three enclosure types: 125, 250, 400.
- ◆ Integral control gear, easy installation and maintenance.
- ◆ Explosion-proof trigger, rapid starting, stable performance and long service life.
- ◆ Wireless connection between body and top cover, easy installation and maintenance.
- ◆ Powder coated wire guard, white.
- ◆ Toughened glass cover resistant to temperature changes.

Catalogue number logic



Selection table

Type/Ordering code	Available lamp power (W)			Lamp holder
	HIE	HSE	HME	
BAD61-125	70, 100, 150	70, 100	80, 125	E27
BAD61-250	175, 250	150, 250	175, 250	E40
BAD61-400	400	400	400	E40

Note

1. The light fittings are supplied without lamp. PHILIPS lamps are recommended.
2. HPI European standard ballast is supplied with HIE light fitting. HPI European standard lamps are recommended.
3. The light fittings are supplied without external reflector. Please specify when ordering.

Zones 1&2; 21&22

Pendant Light Fittings BAD61 Series Explosion-proof Light Fittings

Technical data

Explosion-proof light fittings

BAD61-400-□□□

Explosion protection

Gas explosion protection
Dust explosion protection

Ex II 2 G Ex d IIC T3 Gb
Ex II 2 D Ex tb IIIC T190°C Db IP65

Certificates

LCIE 07 ATEX 6085; IECEx CQM 08.0004; FM (USA); GOST.R (Russia)

Conformity to standards

EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009
IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008

Material

Enclosure
Wire guard
Transparent cover
Ballast
Trigger
Capacitor
Internal reflector
External reflector (optional)
Exposed fastener

Copper-free aluminium, powder coated surface, yellow (RAL1021)
Powder coated carbon steel, white
Toughened glass, stands 4J impact
Choke ballast, rapid starting, stable performance
General trigger
Power factor ≥ 0.90 (compensated)
High-purity aluminium
Pure aluminium, anodicoxidation treatment for surface
Stainless steel

Lamp

Lamp holder
Available lamp and lamp power (W)

E40
Metal halide lamp (HIE): 400W
High pressure mercury lamp (HME): 400W
High pressure sodium lamp (HSE): 400W
Note: HPI European standard ballast is available in general
220~240V AC 50Hz (60Hz is optional)
208V, 250V, 277V AC 50Hz (60Hz is optional)

Rated voltage

M5 (internal & external earth bolts)

Earthing protection

Degree of protection

Ambient temperature

Terminal

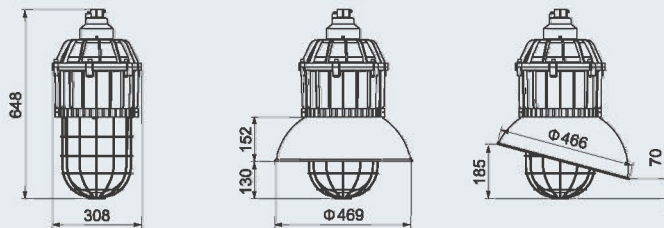
Cable entries

Cable gland

Available cable outer diameter

IP65
-20°C~+55°C
3 x 1.5~2.5mm² (L+N+PE)
1 x G3/4" (pendant pole type and hook type); 4 x M25x1.5 (wall type and ceiling type); 1 x G1" (pole type)
See Mounting Accessories and Spare Parts Table
Φ 10~Φ 14 (mm)

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



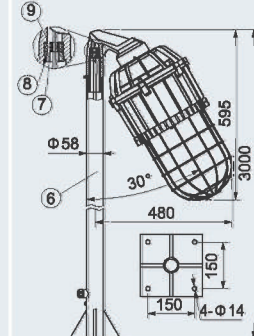
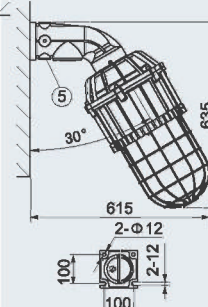
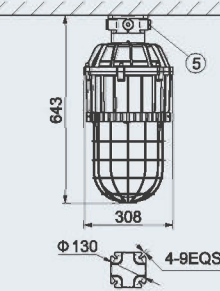
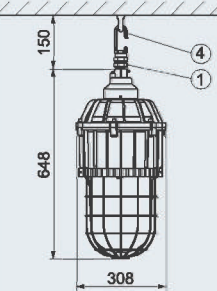
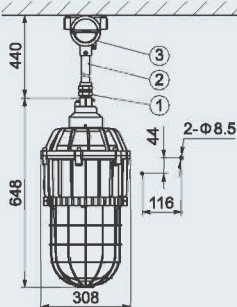
G: pendant pole type

D: hook type

X: ceiling type

B: wall type

L: pole type



Weight: 23.85kg
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, castiron), see P3/6.

Weight: 20.85kg
Accessories supplied with the light fittings:

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

Weight: 21.50kg
Accessories supplied with the light fittings:

- ⑤.4 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: 23.25kg
Accessories supplied with the light fittings:

- ⑤.4 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: 21.80kg
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.

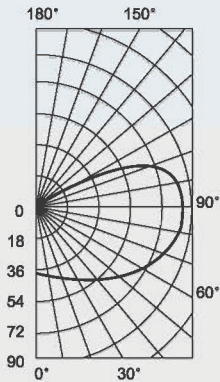
Pendant Light Fittings BAD61 Series Explosion-proof Light Fittings

Photometric data (BAD61-400)



Photometric data of 400W metal halide lamp

Rated luminous flux:38000lm;
The data from PHILIPS lamp;
Luminous intensity distribution cd/1000lm



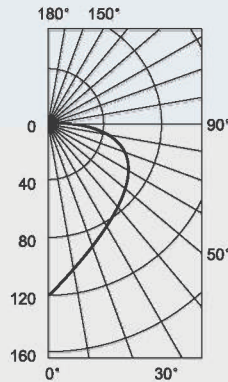
400W High pressure sodium lamp*1.26
400W High pressure mercury lamp*0.58

Angle	CP	Angle	CP	Angle	CP
0	1373	60	2538	120	139
5	1324	65	2431	125	110
10	1501	70	2576	130	98
15	1640	75	2838	135	82
20	1531	80	2794	140	70
25	1398	85	2437	145	67
30	1787	90	2318	150	60
35	1961	95	2483	155	55
40	2054	100	2498	160	49
45	1738	105	2197	165	38
50	2255	110	1129	170	28
55	2428	115	215	175	13
				180	7



Photometric data of 400W metal halide lamp (with wide reflector)

Rated luminous flux:38000lm;
The data from PHILIPS lamp;
Luminous intensity distribution cd/1000lm



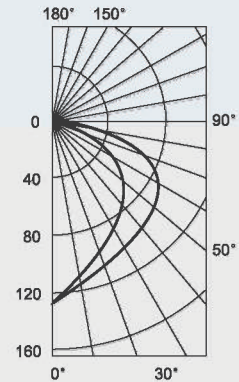
400W High pressure sodium lamp*1.26
400W High pressure mercury lamp*0.58

Angle	CP	Angle	CP	Angle	CP
0	4480	60	2137	120	5
5	4884	65	2143	125	5
10	4922	70	1981	130	6
15	4821	75	1711	135	6
20	4682	80	819	140	6
25	4224	85	248	145	0
30	3880	90	91	150	0
35	3394	95	59	155	0
40	3087	100	36	160	0
45	3138	105	19	165	0
50	2935	110	8	170	0
55	2335	115	7	175	0
				180	0



Photometric data of 400W metal halide lamp (with angle reflector)

Rated luminous flux:38000lm;
The data from PHILIPS lamp;
Luminous intensity distribution cd/1000lm








400W High pressure sodium lamp*1.26
400W High pressure mercury lamp*0.58

0°	Reflection angle	CP	90°	Reflection angle	CP		
0	4948	95	59	0	4948	95	6
5	5312	105	20	5	4900	105	6
15	5523	115	0	15	4809	115	0
25	4992	125	0	25	3987	125	0
35	4021	135	0	35	3431	135	0
45	3569	145	0	45	3515	145	0
55	2559	155	0	55	2149	155	0
65	2194	165	0	65	1626	165	0
75	1541	175	0	75	119	175	0
85	216	180	0	85	130	180	0
90	95			90	14		



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

Accessories

Picture	Name	Ordering code	Weight (kg)
	125 Wide reflector	61001	0.15
	250 Wide reflector	61002	0.27
	400 Wide reflector	61003	0.53
	125 Angle reflector	61004	0.15
	250 Angle reflector	61005	0.36
	400 Angle reflector	61006	0.52
	Hook	61020	0.20
	Explosion-proof electronic trigger (125, 250 type)	61034	0.34
	125 Explosion-proof capacitor	61037	0.45
	250 Explosion-proof capacitor	61038	0.50

Note: Ballast, 400 type trigger, 400 type capacitor see P1/19

Power connection lamp replacement



- ◆ Unscrew lock bolt at top cover, remove top cover and circlip, and take terminal block out.
- ◆ Connect the cable to terminal block, put terminal block and circlip back to ensure proper connection.



- ◆ Screw top cover at light fitting, keep two arrows on two parts in line to ensure proper connection between two spring contact plates.



- ◆ Unscrew bolts at transparent cover, open the transparent cover and screw lamp into lamp holder. Close cover and screw bolts.