

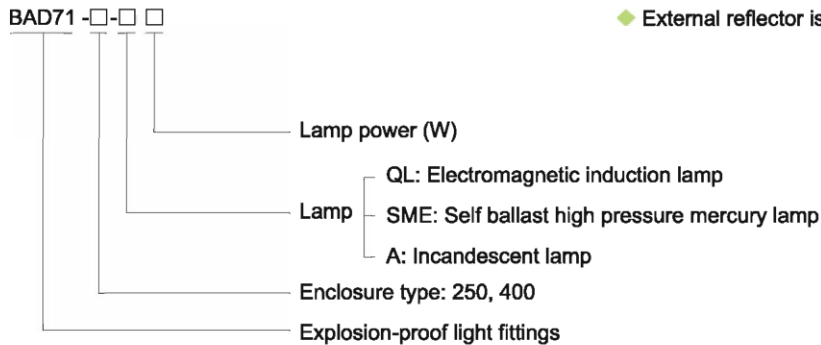


## Pendant Light Fittings

### BAD71 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 2, Groups A, B, C, D
- ◆ Available lamp (max. 500W)
  - Self ballast high pressure mercury lamp (SME)
  - Incandescent lamp (A)
  - Electromagnetic induction lamp (QL)
- ◆ External terminal compartment, easy connection and maintenance.
- ◆ Two enclosure types: 250, 400.
- ◆ External reflector is optional, to increase lighting intensity.

### Catalogue number logic



### Selection table

Type/Ordering code	Available lamp power (W)		
	QL	SME	A
BAD71-250	85	160, 250	200, 300
BAD71-400	135	500 (450)	500

### Note

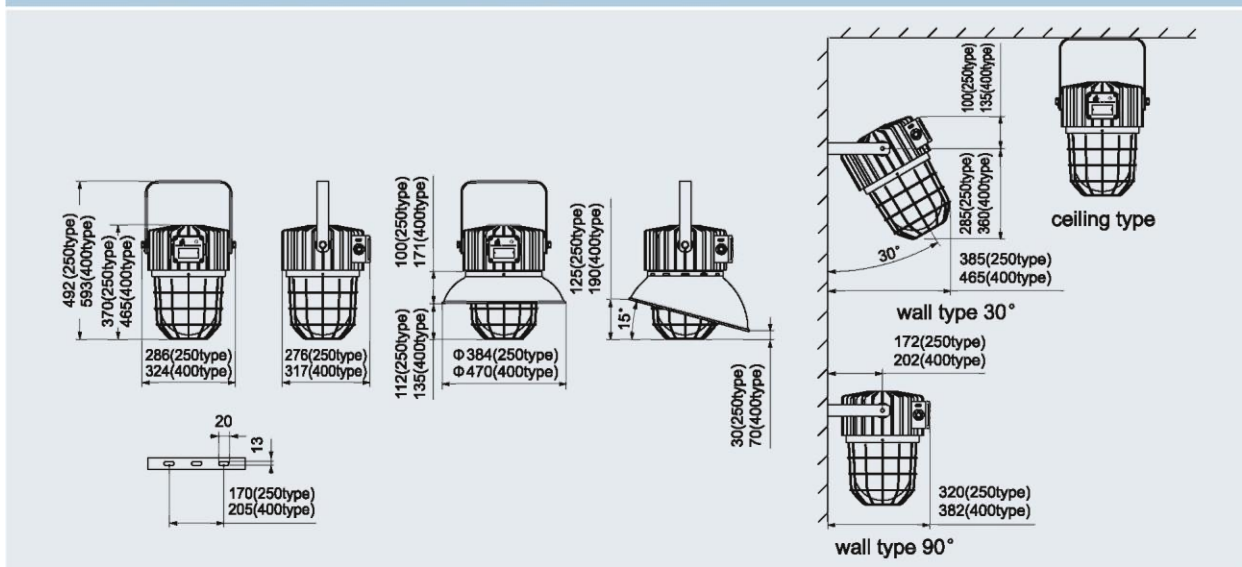
1. The light fittings are supplied without lamp. PHILIPS lamps are recommended.
2. The light fittings are supplied without external reflector. Please specify when ordering.

Zones 1&2; 21&22

Technical data																														
Explosion-proof light fittings	BAD71-250-□□	BAD71-400-□□																												
<b>Explosion protection</b> Gas explosion protection	⊕ II 2 G Ex de IIC T3	⊕ II 2 G Ex de IIC T3																												
Dust explosion protection	Ex tD A21 T190°C IP65	Ex de IIC T3 Gb Ex tD A21 T190°C IP65																												
<b>Certificates</b> For gas explosion protection	LCIE 08 ATEX 6105 IECEX CQM 08.0018	LCIE 08 ATEX 6111 IECEX CQM 11.0030																												
For dust explosion protection	PCEC (China)	PCEC (China)																												
<b>Conformity to standards</b>	EN 60079-0: 2004, EN 60079-1: 2004 EN 60079-7: 2003 IEC 60079-0: 2004, IEC 60079-1: 2003 IEC 60079-7: 2001, IEC 61241-0: 2004 IEC 61241-1: 2004	EN 60079-0: 2004, EN 60079-1: 2004 EN 60079-7: 2003 IEC 60079-0: 2007, IEC 60079-1: 2007 IEC 60079-7: 2006, IEC 61241-0: 2004 IEC 61241-1: 2004																												
<b>Material</b> Enclosure Transparent cover Internal reflector External reflector (optional) Wire guard Exposed fastener	Copper-free aluminium, powder coated surface, yellow (RAL1021) Toughened glass, stands 4J impact High-purity aluminium Pure aluminium, anodicoxidation treatment for surface Stainless steel Stainless steel																													
<b>Lamp</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Available lamp</th> <th>Lamp power</th> <th>Lamp holder</th> <th>Available lamp</th> <th>Lamp power</th> <th>Lamp holder</th> </tr> </thead> <tbody> <tr> <td rowspan="2">SME</td> <td>160W</td> <td>E27</td> <td rowspan="2">SME</td> <td rowspan="2">500(450)W</td> <td rowspan="2">E40</td> </tr> <tr> <td>250W</td> <td>E40</td> </tr> <tr> <td rowspan="2">A</td> <td>200W</td> <td>E27</td> <td rowspan="2">A</td> <td rowspan="2">500W</td> <td rowspan="2">E40</td> </tr> <tr> <td>300W</td> <td>E40</td> </tr> <tr> <td>QL</td> <td>85W</td> <td>-</td> <td>QL</td> <td>135W</td> <td>-</td> </tr> </tbody> </table>		Available lamp	Lamp power	Lamp holder	Available lamp	Lamp power	Lamp holder	SME	160W	E27	SME	500(450)W	E40	250W	E40	A	200W	E27	A	500W	E40	300W	E40	QL	85W	-	QL	135W	-
Available lamp	Lamp power	Lamp holder	Available lamp	Lamp power	Lamp holder																									
SME	160W	E27	SME	500(450)W	E40																									
	250W	E40																												
A	200W	E27	A	500W	E40																									
	300W	E40																												
QL	85W	-	QL	135W	-																									
<b>Rated voltage</b>	220~240V AC 50/60Hz																													
<b>Earthing protection</b>	M5 (internal & external earth bolts)																													
<b>Degree of protection</b>	IP65																													
<b>Ambient temperature</b>	-20°C~+55°C																													
<b>Terminal</b>	3 x 1.5~2.5mm <sup>2</sup> (L+N+PE)																													
<b>Cable entries</b>	2 x M25 x 1.5 plug																													
<b>Cable gland (optional)</b>	DQM-I (Ex e) is recommended. Please see P7/17~18.																													
<b>Weight</b>	9.25kg	13.45kg																												



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



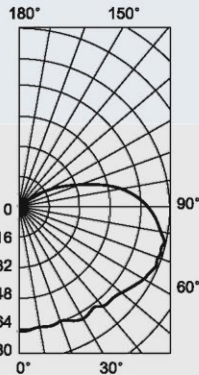
## Pendant Light Fittings BAD71 Series Explosion-proof Light Fittings

### Photometric data (BAD71-250)



Photometric data of 250W self ballast high pressure mercury lamp

Rated luminous flux:4900lm;  
The data from PHILIPS lamp;  
Luminous intensity distribution cd/1000lm



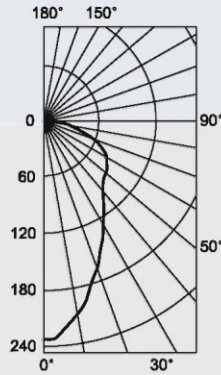
160W Self ballast high pressure mercury lamp\*0.64  
200W Incandescent lamp\*0.41  
300W Incandescent lamp\*0.83

Angle	CP	Angle	CP	Angle	CP
0	315	60	317	120	45
5	314	65	317	125	45
10	309	70	313	130	23
15	304	75	306	135	9
20	299	80	291	140	0
25	300	85	270	145	0
30	303	90	243	150	0
35	298	95	213	155	0
40	293	100	180	160	0
45	296	105	143	165	0
50	303	110	107	170	0
55	310	115	73	175	0
				180	0



Photometric data of 250W self ballast high pressure mercury lamp (with wide reflector)

Rated luminous flux:4900lm;  
The data from PHILIPS lamp;  
Luminous intensity distribution cd/1000lm



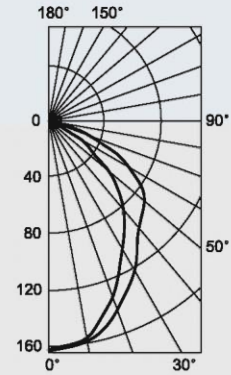
160W Self ballast high pressure mercury lamp\*0.64  
200W Incandescent lamp\*0.41  
300W Incandescent lamp\*0.83

Angle	CP	Angle	CP	Angle	CP
0	1117	60	337	120	0
5	1109	65	308	125	0
10	1070	70	251	130	0
15	980	75	192	135	0
20	875	80	131	140	0
25	763	85	77	145	0
30	666	90	37	150	0
35	587	95	13	155	0
40	506	100	5	160	0
45	443	105	4	165	0
50	401	110	2	170	0
55	364	115	1	175	0
				180	0



Photometric data of 250W self ballast high pressure mercury lamp (with angle reflector)

Rated luminous flux:4900lm;  
The data from PHILIPS lamp;  
Luminous intensity distribution cd/1000lm



160W Self ballast high pressure mercury lamp\*0.64  
200W Incandescent lamp\*0.41  
300W Incandescent lamp\*0.83

0°	Reflection angle	CP	90°	Reflection angle	CP		
0	829	95	0	0	829	95	0
5	730	105	0	5	800	105	0
15	615	115	0	15	707	115	0
25	509	125	0	25	573	125	0
35	467	135	0	35	460	135	0
45	387	145	0	45	337	145	0
55	267	155	0	55	169	155	0
65	129	165	0	65	50	165	0
75	34	175	0	75	6	175	0
85	11	180	0	85	2	180	0
90	6			90	1		



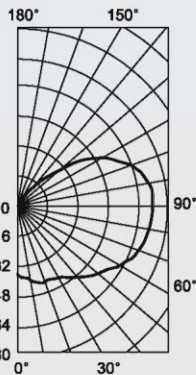
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

### Photometric data (BAD71-400)



Photometric data of 500W self ballast high pressure mercury lamp

Rated luminous flux:13000lm;  
The data from PHILIPS lamp;  
Luminous intensity distribution cd/1000lm



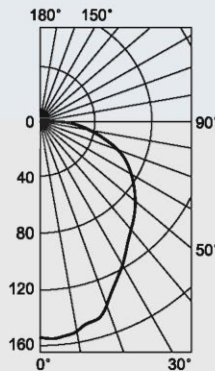
500W Incandescent lamp\*0.57

Angle	CP	Angle	CP	Angle	CP
0	451	60	718	120	731
5	453	65	765	125	649
10	481	70	805	130	533
15	488	75	836	135	402
20	494	80	862	140	179
25	488	85	882	145	178
30	492	90	896	150	94
35	514	95	904	155	37
40	548	100	907	160	18
45	578	105	891	165	12
50	617	110	857	170	0
55	666	115	803	175	0
				180	0



Photometric data of 500W self ballast high pressure mercury lamp (with wide reflector)

Rated luminous flux:13000lm;  
The data from PHILIPS lamp;  
Luminous intensity distribution cd/1000lm



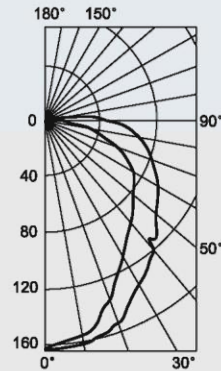
500W Incandescent lamp\*0.57

Angle	CP	Angle	CP	Angle	CP
0	1979	60	956	120	0
5	1903	65	878	125	0
10	1918	70	768	130	0
15	1815	75	626	135	0
20	1619	80	493	140	0
25	1450	85	327	145	0
30	1386	90	180	150	0
35	1272	95	87	155	0
40	1191	100	38	160	0
45	1107	105	16	165	0
50	1045	110	9	170	0
55	998	115	5	175	0
				180	0



Photometric data of 500W self ballast high pressure mercury lamp (with angle reflector)

Rated luminous flux:13000lm;  
The data from PHILIPS lamp;  
Luminous intensity distribution cd/1000lm



500W Incandescent lamp\*0.57

0°	Reflection angle	CP	90°	Reflection angle	CP		
0	2064	95	12	0	2064	95	39
5	2025	105	0	5	2179	105	0
15	1719	115	0	15	1919	115	0
25	1371	125	0	25	1609	125	0
35	1068	135	0	35	1337	135	0
45	887	145	0	45	1148	145	0
55	765	155	0	55	1012	155	0
65	537	165	0	65	827	165	0
75	219	175	0	75	534	175	0
85	62	180	0	85	195	180	0
90	26			90	93		

