Pendant Light Fittings
BAD71 Series Explosion-proof Light Fittings

- Explosion protection to
  -CENELEC
  -IEC
- Can be used in
  Zone 1 and Zone 2
  Zone 21 and Zone 22
- Available lamp (max. 500W)
  -Self ballast high pressure mercury lamp (SME)
  -Incandescent lamp (A)
- External terminal compartment, easy connection and maintenance.
- Two enclosure types: 250, 400.
- External reflector is optional, to increase lighting intensity.

Catalogue number logic

BAD71 - □ - □ □

- Lamp wattage (W)
- Lamp: SME: Self ballast high pressure mercury lamp; A: Incandescent lamp
- Enclosure type: 250,400
- Explosion-proof light fittings

Selection table

Type/Ordering code	Available lamp wattage (W)	
	SME	A
BAD71-250	160, 250	200, 300
BAD71-400	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

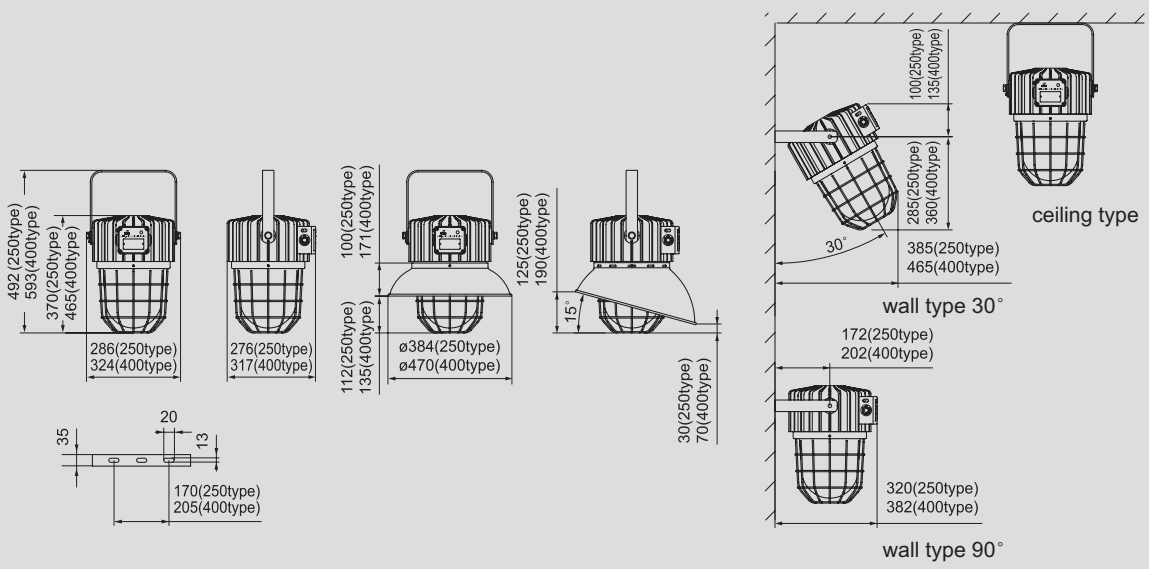
Technical data

Explosion-proof light fittings	BAD71-250-□□	BAD71-400-□□
Explosion protection		
Gas explosion protection	Ⓔx II 2 G Ex de IIC T3	
Dust explosion protection	Ex tD A21 T195℃ IP65	
Certificates		
For gas explosion protection	LCIE 08 ATEX 6105 IECEx CQM 08.0018	LCIE 08 ATEX 6111 IECEx
For dust explosion protection	PCEC (China)	
Conformity to standards	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	
Material		
Enclosure	Copper-free aluminium, powder coated external surface, rape yellow (RAL1021)	
Transparent cover	Toughened glass, stands 4J impact	
Internal reflector	High-purity aluminium	
External reflector (optional)	Pure aluminium, anodicoxidation treatment for surface	
Wire guard	Stainless steel	
Exposed fastener	Stainless steel	
Lamp		
Rated voltage	220～240V AC 50/60Hz	
Earthing protection	M5 (internal & external earth bolt)	
Degree of protection	IP65	
Ambient temperature	-20℃～+55℃	
Terminal	3 x 1.5～2.5mm² (L+N+PE)	
Cable entries	2 x M25 x 1.5 plug	
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/17～18.	
Weight	9.25kg	13.45kg

Available lamp	Lamp wattage	Lamp holder
SME	160W	E27
	250W	E40
A	200W	E27
	300W	E40

Available lamp	Lamp wattage	Lamp holder
SME	500(450)W	E40
A	500W	E40

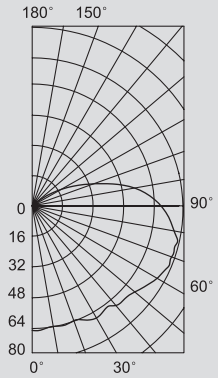
Mounting type (all dimensions in mm) - subject to alteration



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

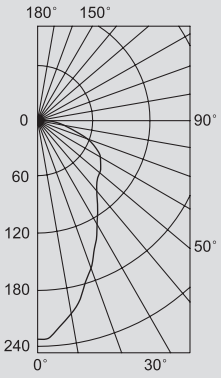


160W Self ballast high pressure mercury lamp*0.64
200W Incandescent lamp*0.41
300W Incandescent lamp*0.83

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

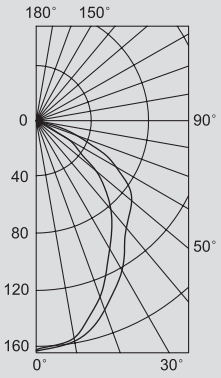


160W Self ballast high pressure mercury lamp*0.64
200W Incandescent lamp*0.41
300W Incandescent lamp*0.83

Angle	CP	Angle	CP	Angle	CP
0	1117	60	337	120	0
5	1109	65	306	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

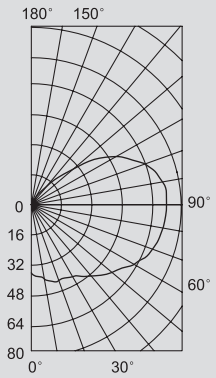
0° Reflection angle CP				90° Reflection angle CP			
0	829	95	0	0	829	95	0
5	730	105	0	5	800	105	0
15	615	115	0	15	707	115	0
25	509	125	0	25	573	125	0
35	467	135	0	35	460	135	0
45	387	145	0	45	337	145	0
55	267	155	0	55	169	155	0
65	129	165	0	65	50	165	0
75	34	175	0	75	6	175	0
85	11	180	0	85	2	180	0
90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

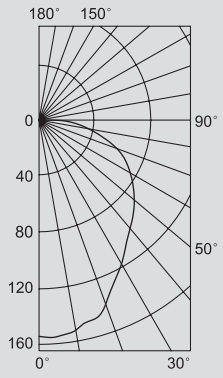
Angle	CP
0	451
5	453
10	481
15	488
20	494
25	488
30	492
35	514
40	548
45	578
50	617
55	666

Angle	CP
60	718
65	765
70	805
75	836
80	862
85	882
90	896
95	904
100	907
105	891
110	857
115	803

Angle	CP
120	731
125	649
130	533
135	402
140	179
145	178
150	94
155	37
160	18
165	12
170	0
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

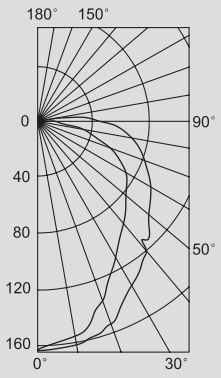
Angle	CP
0	1979
5	1903
10	1918
15	1815
20	1619
25	1450
30	1386
35	1272
40	1191
45	1107
50	1045
55	998

Angle	CP
60	956
65	878
70	768
75	626
80	493
85	327
90	180
95	87
100	38
105	16
110	9
115	5

Angle	CP
120	0
125	0
130	0
135	0
140	0
145	0
150	0
155	0
160	0
165	0
170	0
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		
0	2064	95	12
5	2025	105	0
15	1719	115	0
25	1371	125	0
35	1066	135	0
45	887	145	0
55	765	155	0
65	537	165	0
75	219	175	0
85	62	180	0
90	26		

90° Reflection angle	CP		
0	2064	95	39
5	2179	105	0
15	1919	115	0
25	1609	125	0
35	1337	135	0
45	1148	145	0
55	1012	155	0
65	827	165	0
75	534	175	0
85	195	180	0
90	93		

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