

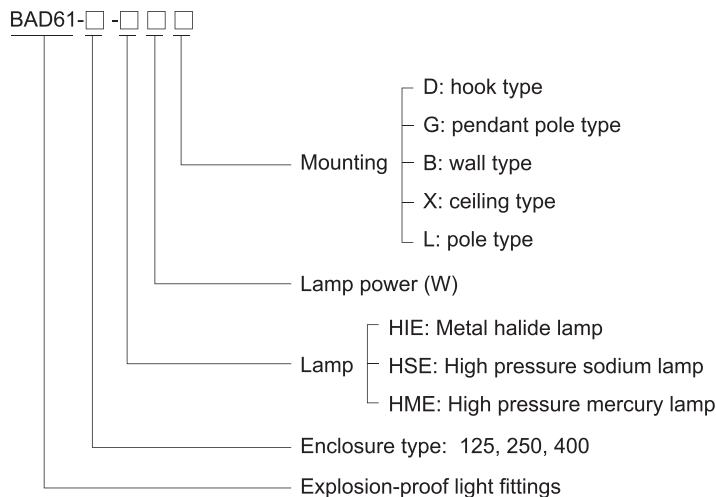
Pendant Light Fittings

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.

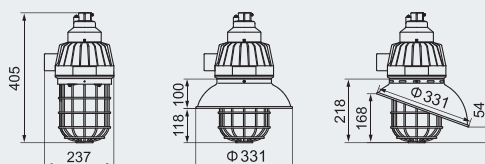
Zones 1&2; 21&22

Pendant Light Fittings

BAD61 Series Explosion-proof Light Fittings

Technical data	
Explosion-proof light fittings	BAD61-125-□□□
Explosion protection Gas explosion protection Dust explosion protection	Ex II 2 G Ex d IIC T4/T3 Gb Ex II 2 D Ex tD A21 T135°C/T200°C IP66
Certificates	DNV 10 ATEX 85533X; IECEx CQM 11.0010; RU C-CN.ГБ05.В.00344 (CU-TR)
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 surface, yellow (RAL1021)
Wire guard	Powder coated carbon steel, white
Transparent cover	Toughened glass, stands 4J impact
Ballast	Electromagnetic ballast, rapid starting, stable performance
Trigger	Explosion-proof trigger
Capacitor	Power factor ≥ 0.90 (compensated)
Internal reflector	High-purity aluminium
External reflector(optional)	Pure aluminium, anodic-oxidation treatment for surface
Exposed fastener	Stainless steel
Lamp	
Lamp holder	E27
Available lamp and lamp power (W)	Metal halide lamp (HIE): 70W, 100W, 150W High pressure mercury lamp (HME): 80W, 125W High pressure sodium lamp (HSE): 70W, 100W Note: HPI European standard ballast is available in general
Rated voltage	220~240V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66, IP67(optional)
Ambient temperature	T4/T135°C for Tamb: -60°C~+40°C; T3/T200°C for Tamb: -60°C~+55°C
Terminal	3 x 1.5~2.5mm ² (L+N+PE)
Cable entries	1 x G3/4" (pendant pole type and hook type); 4 x M25x1.5 (wall type and ceiling type); 1 x G1"(pole type)
Cable gland	See Mounting type
Available cable outer diameter	$\Phi 10\sim\Phi 14$ (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: 10.35kg 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), length: 300mm. ③.BHD51-F (Ex d IIC, copper-free aluminium), see P3/4.	Weight: 9.30kg Accessories supplied with the light fittings: ①.BGJ-III explosion-proof connector G3/4" (M)/M25 x 1.5 (F), carbon steel. ④. Hook (carbon steel)	Weight: 9.45kg Accessories supplied with the light fittings: ⑤.4 x M25 x 1.5 Plugs; Ex d cable gland (optional); DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.	Weight: 11.20kg Accessories supplied with the light fittings: ⑤.4 x M25 x 1.5 Plugs; Ex d cable gland (optional); DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.	Weight: 9.70kg Accessories supplied with the light fittings: ⑥.Pole shall be provided by user. ⑦.Locking bolt, 1No. ⑧.Washer, 2 Nos. ⑨.Seal ring, 1No.

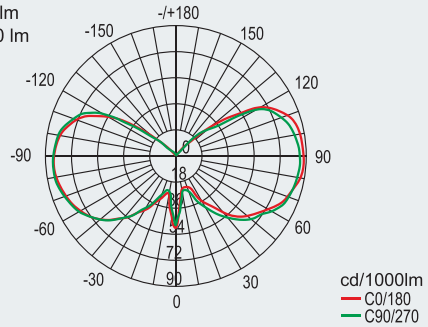


Pendant Light Fittings BAD61 Series Explosion-proof Light Fittings

Photometric data

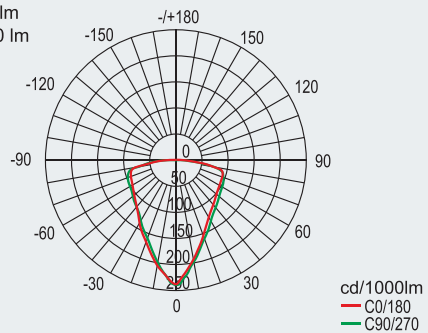
BAD61-125-□□□(Without external reflector)

Rated luminous flux
 70W High pressure sodium lamp: 6000 lm
 100W High pressure sodium lamp: 9000 lm
 70W Metal halide lamp: 5000 lm
 100W Metal halide lamp: 9000 lm
 150W Metal halide lamp: 13500 lm
 80W High pressure mercury lamp: 3700 lm
 125W High pressure mercury lamp: 6200 lm
 The data from Philips lamp



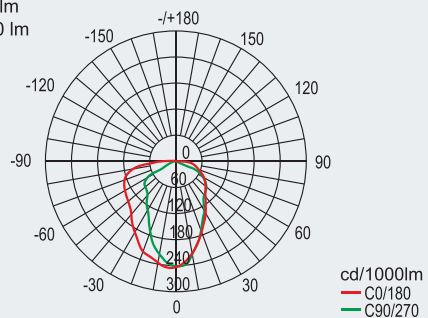
BAD61-125-□□□(With wide reflector)

Rated luminous flux
 70W High pressure sodium lamp: 6000 lm
 100W High pressure sodium lamp: 9000 lm
 70W Metal halide lamp: 5000 lm
 100W Metal halide lamp: 9000 lm
 150W Metal halide lamp: 13500 lm
 80W High pressure mercury lamp: 3700 lm
 125W High pressure mercury lamp: 6200 lm
 The data from Philips lamp



BAD61-125-□□□(With angle reflector)

Rated luminous flux
 70W High pressure sodium lamp: 6000 lm
 100W High pressure sodium lamp: 9000 lm
 70W Metal halide lamp: 5000 lm
 100W Metal halide lamp: 9000 lm
 150W Metal halide lamp: 13500 lm
 80W High pressure mercury lamp: 3700 lm
 125W High pressure mercury lamp: 6200 lm
 The data from Philips lamp

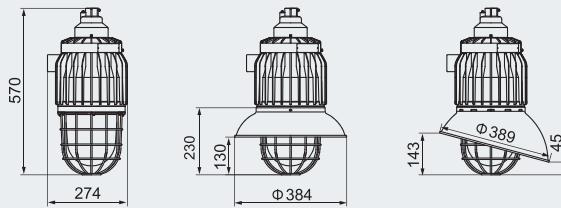


We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Pendant Light Fittings BAD61 Series Explosion-proof Light Fittings

Technical data	
Explosion-proof light fittings	BAD61-250-□□□
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 IP66
Certificates	LCIE 05 ATEX 6142; IECEx CQM 07.0003; CU-TR
Conformity to standards	EN 60079-0: 2012, 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 Electromagnetic ballast, rapid starting, stable performance Explosion-proof trigger Power factor ≥ 0.90 (compensated) High-purity aluminium Pure aluminium, anodic-oxidation treatment for surface Stainless steel
Lamp Lamp holder Available lamp and lamp power (W)	E40 Metal halide lamp (HIE): 175W, 250W High pressure mercury lamp (HME): 175W, 250W High pressure sodium lamp (HSE): 150W, 250W Note: HPI European standard ballast is available in general
Rated voltage	220~240V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-20°C ~ +55°C
Terminal	3 x 1.5~2.5mm ² (L+N+PE)
Cable entries	1 x G3/4" (pendant pole type and hook type); 4 x M25x1.5 (wall type and ceiling type); 1 x G1"(pole type)
Cable gland	See Mounting type
Available cable outer diameter	$\Phi 10 \sim \Phi 14$ (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: 17.20kg 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), length: 300mm. ③. BHD51-F (Ex d IIC, cast iron), see P3/4.	Weight: 14.55kg Accessories supplied with the light fittings: ①. BGJ-III explosion-proof connector G3/4" (M)/M25 x 1.5 (F), carbon steel. ④. Hook (carbon steel)	Weight: 15.20kg Accessories supplied with the light fittings: ⑤. 4 x M25 x 1.5 Plugs; Ex d cable gland (optional); DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.	Weight: 16.95kg Accessories supplied with the light fittings: ⑤. 4 x M25 x 1.5 Plugs; Ex d cable gland (optional); DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.	Weight: 15.50kg 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, 1No.



Pendant Light Fittings

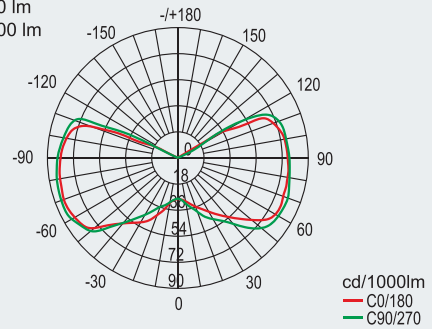
BAD61 Series Explosion-proof Light Fittings

Photometric data

BAD61-250-□□□(Without external reflector)



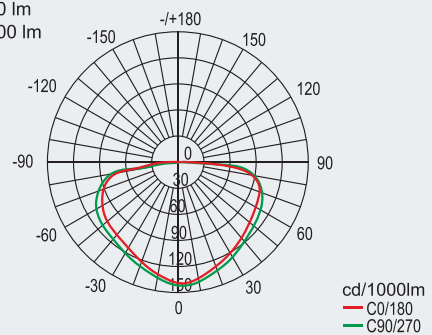
Rated luminous flux
 150W High pressure sodium lamp: 15000 lm
 250W High pressure sodium lamp: 28000 lm
 175W Metal halide lamp: 14000 lm
 250W Metal halide lamp: 23000 lm
 175W High pressure mercury lamp: 7350 lm
 250W High pressure mercury lamp: 12700 lm
 The data from Philips lamp



BAD61-250-□□□(With wide reflector)



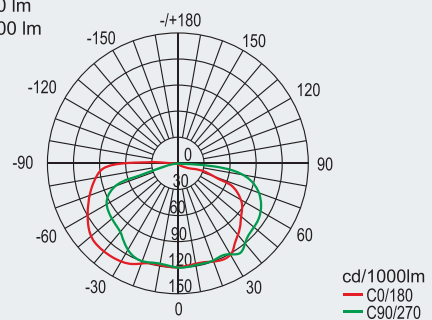
Rated luminous flux
 150W High pressure sodium lamp: 15000 lm
 250W High pressure sodium lamp: 28000 lm
 175W Metal halide lamp: 14000 lm
 250W Metal halide lamp: 23000 lm
 175W High pressure mercury lamp: 7350 lm
 250W High pressure mercury lamp: 12700 lm
 The data from Philips lamp



BAD61-250-□□□(With angle reflector)



Rated luminous flux
 150W High pressure sodium lamp: 15000 lm
 250W High pressure sodium lamp: 28000 lm
 175W Metal halide lamp: 14000 lm
 250W Metal halide lamp: 23000 lm
 175W High pressure mercury lamp: 7350 lm
 250W High pressure mercury lamp: 12700 lm
 The data from Philips lamp



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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 IP66
Certificates	LCIE 07 ATEX 6085; IECEx CQM 08.0004; CU-TR
Conformity to standards	EN 60079-0: 2012, 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 Electromagnetic ballast, rapid starting, stable performance General trigger Power factor ≥ 0.90 (compensated) High-purity aluminium Pure aluminium, anodic-oxidation 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
Rated voltage	220~240V AC 50Hz (60Hz is optional) 208V, 250V, 277V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-20°C ~ +55°C
Terminal	3 x 1.5~2.5mm ² (L+N+PE)
Cable entries	1 x G3/4" (pendant pole type and hook type); 4 x M25x1.5 (wall type and ceiling type); 1 x G1"(pole type)
Cable gland	See Mounting type
Available cable outer diameter	$\Phi 10$ ~ $\Phi 14$ (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
<p>Weight: 23.65kg Accessories supplied with the light fittings: ①. BGD-III explosion-proof connector G3/4" (M)/M25 x 1.5 (F), carbon steel. ②. Straight pipe (M25 x 1.5), length: 300mm. ③. BHD51-F (Ex d IIC, cast iron), see P3/4.</p>	<p>Weight: 20.85kg Accessories supplied with the light fittings: ①. BGD-III explosion-proof connector G3/4" (M)/M25 x 1.5 (F), carbon steel. ④. Hook (carbon steel)</p>	<p>Weight: 21.50kg Accessories supplied with the light fittings: ⑤. 4 x M25 x 1.5 Plugs; Ex d cable gland (optional); DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.</p>	<p>Weight: 23.25kg Accessories supplied with the light fittings: ⑤. 4 x M25 x 1.5 Plugs; Ex d cable gland (optional); DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.</p>	<p>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.</p>



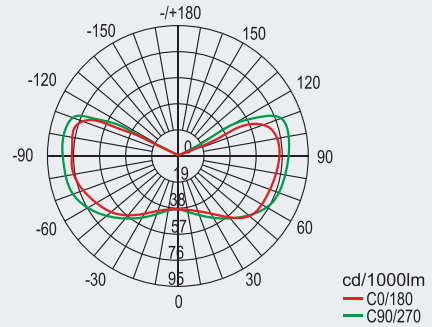
Pendant Light Fittings BAD61 Series Explosion-proof Light Fittings

Photometric data

BAD61-400-□□□(Without external reflector)



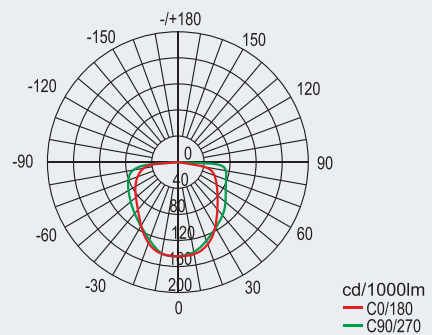
Rated luminous flux
 400W Metal halide lamp: 38000 lm
 400W High pressure sodium lamp: 48000 lm
 400W High pressure mercury lamp: 22000 lm
 The data from Philips lamp



BAD61-400-□□□(With wide reflector)



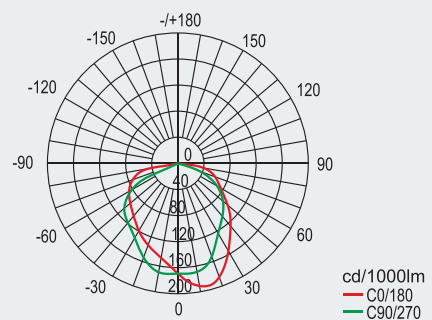
Rated luminous flux
 400W Metal halide lamp: 38000 lm
 400W High pressure sodium lamp: 48000 lm
 400W High pressure mercury lamp: 22000 lm
 The data from Philips lamp



BAD61-400-□□□(With angle reflector)



Rated luminous flux
 400W Metal halide lamp: 38000 lm
 400W High pressure sodium lamp: 48000 lm
 400W High pressure mercury lamp: 22000 lm
 The data from Philips lamp







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Pendant Light Fittings

BAD61 Series Explosion-proof Light Fittings

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
	BAD61-h Explosion-proof electronic trigger (For BAD61-125 type, BAD61-250 type)	61034	0.34

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.

