

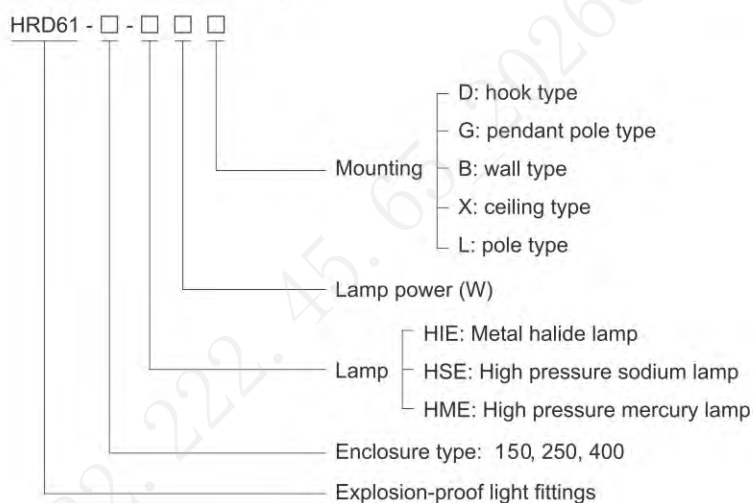
Pendant Light Fittings

HRD61 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: 150, 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	
HRD61-150	70, 100, 150	70, 100	80, 125	E27
HRD61-250	250	150, 250	250	E40
HRD61-400	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

HRD61 Series Explosion-proof Light Fittings

Technical data

Explosion-proof light fittings

HRD61-150-□□□

Explosion protection

Global (IECEx)
Gas and dust

IECEx CQM 11.0010X
Ex db IIC T4 or T3 Gb
Ex tb IIIC T130°C or T190°C Db IP66
TÜV CY 20 ATEX 0206281 X

Europe (ATEX)
Gas and dust

Ex II 2 G Ex db IIC T4 or T3 Gb
Ex II 2 D Ex tb IIIC T130°C or T190°C Db
IECEx; ATEX

Certificates

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-31

Material

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

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)
Stainless steel
Toughened glass, stands 4J impact
Electromagnetic ballast, rapid starting, stable performance
Explosion-proof trigger
COSΦ ≥0.90 (compensated)
High-purity aluminium
Pure aluminium, anodic-oxidation treatment for surface
Stainless steel

Lamp

Lamp holder
Available lamp and lamp power (W)

E27
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
220~240V AC 50Hz (60Hz is optional)

Rated voltage

Earthing protection

Degree of protection

Ambient temperature

M5 (internal & external earth bolts)
IP66
T4 or T130°C for Tamb: -60°C~+40°C (HIE, HME)
T3 or T190°C for Tamb: -60°C~+55°C (HIE, HME)
T4 or T130°C for Tamb: -60°C~+55°C (HSE)

Terminal

Cable entries

3×1.5~4mm² (L+N+PE)
1×G3/4" (pendant pole type and hook type); 4×M25×1.5 (wall type)
2×M25×1.5 (ceiling type); 1×G1" (pole type)

Cable gland

Available cable outer diameter

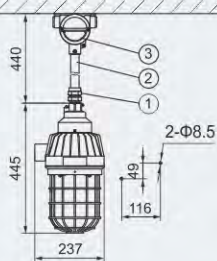
See Mounting type
Φ10~Φ14 (mm)



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



G: pendant pole type

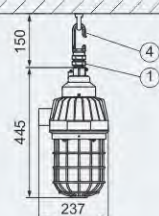


Weight: 10.35kg

Accessories supplied with the light fittings:

1. BGJ-III explosion-proof connector G3/4"(M)/M25×1.5(F), Stainless steel.
2. Straight pipe (M25×1.5), length: 300mm.
3. BHD51-F(Ex d IIC, copper-free aluminium), see P3/4.

D: hook type

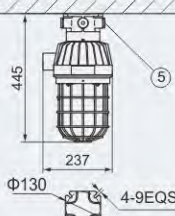


Weight: 9.30kg

Accessories supplied with the light fittings:

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

X: ceiling type



Weight: 9.45kg

Accessories supplied with the light fittings:

5. 2×M2.5×1.5 Plugs; Ex d cable gland (optional): DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39.

B: wall type

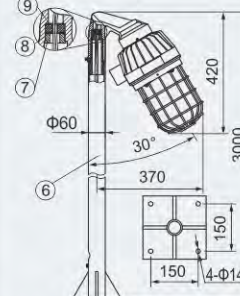


Weight: 11.20kg

Accessories supplied with the light fittings:

5. 4×M2.5×1.5 Plugs; Ex d cable gland (optional): DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39.

L: pole type



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

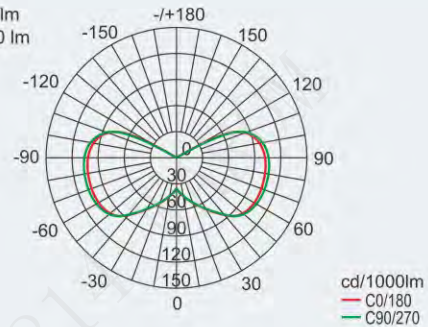
HRD61 Series Explosion-proof Light Fittings

Photometric data

HRD61-150-□□□(Without external reflector)

Rated luminous flux

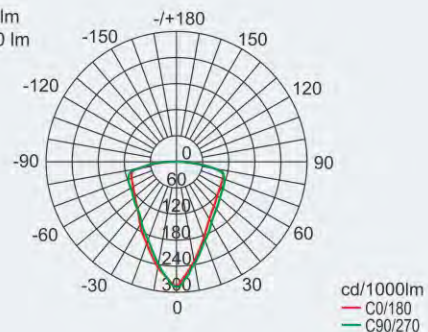
70W High pressure sodium lamp: 6600 lm
 100W High pressure sodium lamp: 10200 lm
 70W Metal halide lamp: 5800 lm
 100W Metal halide lamp: 8700 lm
 150W Metal halide lamp: 13500 lm
 80W High pressure mercury lamp: 3800 lm
 125W High pressure mercury lamp: 6300 lm
 The data from Philips lamp



HRD61-150-□□□(With wide reflector)

Rated luminous flux

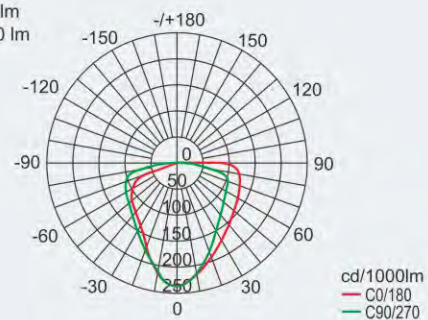
70W High pressure sodium lamp: 6600 lm
 100W High pressure sodium lamp: 10200 lm
 70W Metal halide lamp: 5800 lm
 100W Metal halide lamp: 8700 lm
 150W Metal halide lamp: 13500 lm
 80W High pressure mercury lamp: 3800 lm
 125W High pressure mercury lamp: 6300 lm
 The data from Philips lamp



HRD61-150-□□□(With angle reflector)

Rated luminous flux

70W High pressure sodium lamp: 6600 lm
 100W High pressure sodium lamp: 10200 lm
 70W Metal halide lamp: 5800 lm
 100W Metal halide lamp: 8700 lm
 150W Metal halide lamp: 13500 lm
 80W High pressure mercury lamp: 3800 lm
 125W High pressure mercury lamp: 6300 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

HRD61 Series Explosion-proof Light Fittings

Technical data

Explosion-proof light fittings

HRD61-250-□□□

Explosion protection

Global (IECEX)
Gas and dust

IECEX CQM 07.0003X
Ex d IIC T3 Gb
Ex tb IIIC T190°C Db IP66

Europe (ATEX)
Gas and dust

TÜV CY 18 ATEX 0206012 X
Ex II 2 G Ex db IIC T3 Gb
Ex II 2 D Ex tb IIIC T190°C Db IP66

Certificates

Conformity to standards

IECEX; ATEX
EN 60079-0, EN 60079-1, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-31

Material

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

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)
Stainless steel
Toughened glass, stands 4J impact
Electromagnetic ballast, rapid starting, stable performance
Explosion-proof trigger
COS Φ $\geq$ 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): 250W
High pressure mercury lamp (HME): 250W
High pressure sodium lamp (HSE): 150W, 250W
Note: HPI European standard ballast is available in general
220~240V AC 50Hz (60Hz is optional)

Rated voltage

Earthing protection

Degree of protection

Ambient temperature

Terminal

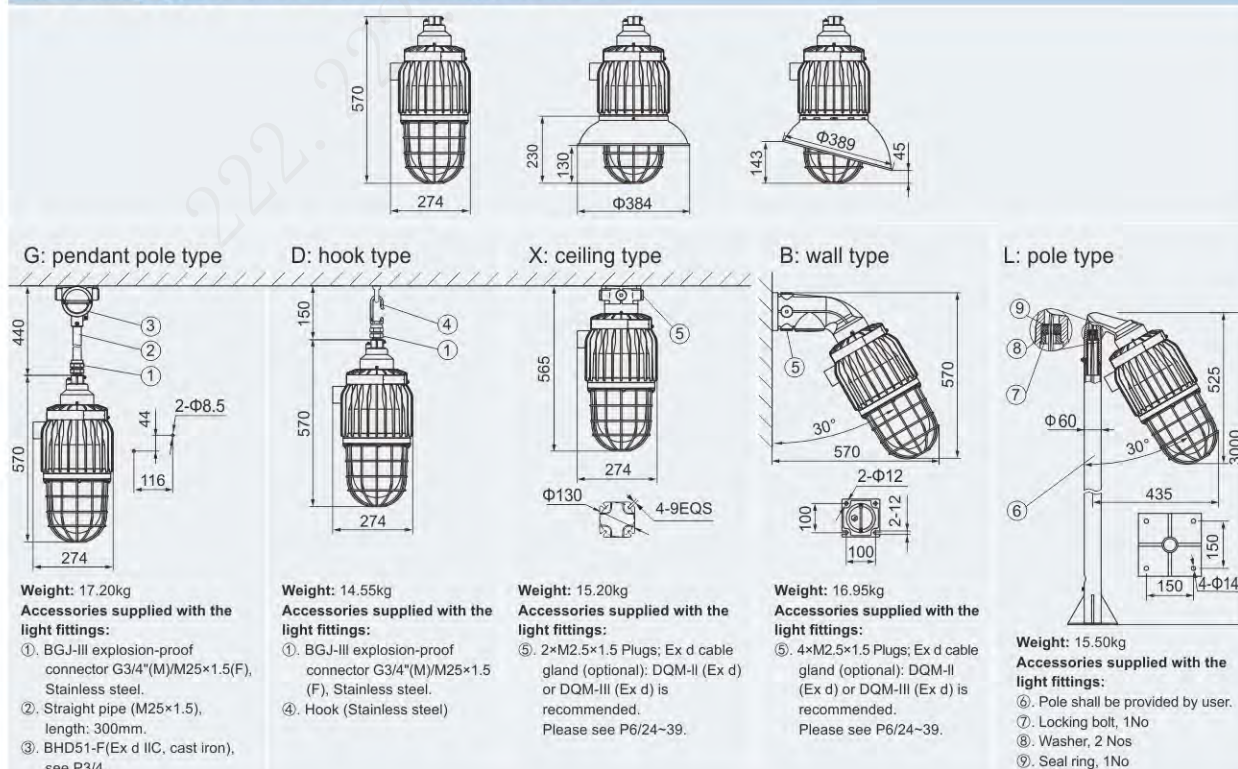
Cable entries

Cable gland

Available cable outer diameter

M5 (internal & external earth bolts)
IP66
-20°C~+55°C
3 $\times$ 1.5~4mm² (L+N+PE)
1 $\times$ G3/4" (pendant pole type and hook type); 4 $\times$ M25 $\times$ 1.5 (wall type);
2 $\times$ M25 $\times$ 1.5 (ceiling type); 1 $\times$ G1"(pole type)
See Mounting type
 Φ 10~ Φ 14 (mm)

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



Pendant Light Fittings

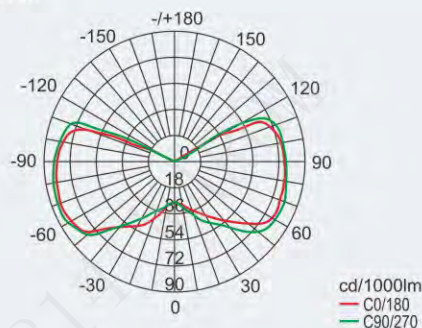
HRD61 Series Explosion-proof Light Fittings

Photometric data

HRD61-250-□□□(Without external reflector)



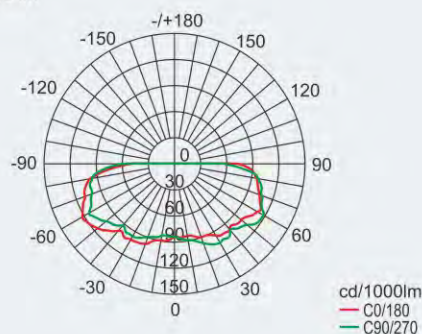
Rated luminous flux
 150W High pressure sodium lamp: 18000 lm
 250W High pressure sodium lamp: 33200 lm
 250W Metal halide lamp: 23200 lm
 250W High pressure mercury lamp: 13000 lm
 The data from Philips lamp



HRD61-250-□□□(With wide reflector)



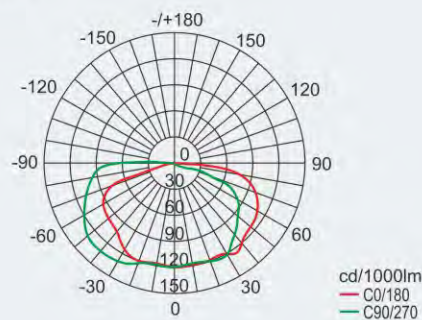
Rated luminous flux
 150W High pressure sodium lamp: 18000 lm
 250W High pressure sodium lamp: 33200 lm
 250W Metal halide lamp: 23200 lm
 250W High pressure mercury lamp: 13000 lm
 The data from Philips lamp



HRD61-250-□□□(With angle reflector)



Rated luminous flux
 150W High pressure sodium lamp: 18000 lm
 250W High pressure sodium lamp: 33200 lm
 250W Metal halide lamp: 23200 lm
 250W High pressure mercury lamp: 13000 lm
 The data from Philips lamp



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Pendant Light Fittings

HRD61 Series Explosion-proof Light Fittings

Technical data

Explosion-proof light fittings

HRD61-400-□□□

Explosion protection

Global (IECEx)
Gas and dust

Europe (ATEX)
Gas and dust

IECEx CQM 08.0004; CU-TR

Ex d IIC T3 Gb

Ex tb IIIC T194°C Db IP66

TÜV CY 18 ATEX 0206013 X

Ex II 2 G Ex db IIC T3 Gb

Ex II 2 D Ex tb IIIC T194°C Db IP66

IECEx; ATEX

EN 60079-0, EN 60079-1, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-31

Certificates

Conformity to standards

Material

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

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Stainless steel

Toughened glass, stands 4J impact

Electromagnetic ballast, rapid starting, stable performance

General trigger

COS Φ $\geq$ 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

220~240V AC 50Hz (60Hz is optional)

208V, 250V, 277V AC 50Hz (60Hz is optional)

M5 (internal & external earth bolts)

Rated voltage

Earthing protection

Degree of protection

Ambient temperature

Terminal

Cable entries

Cable gland

Available cable outer diameter

IP66

-20°C~+55°C

3 $\times$ 1.5~4mm² (L+N+PE)

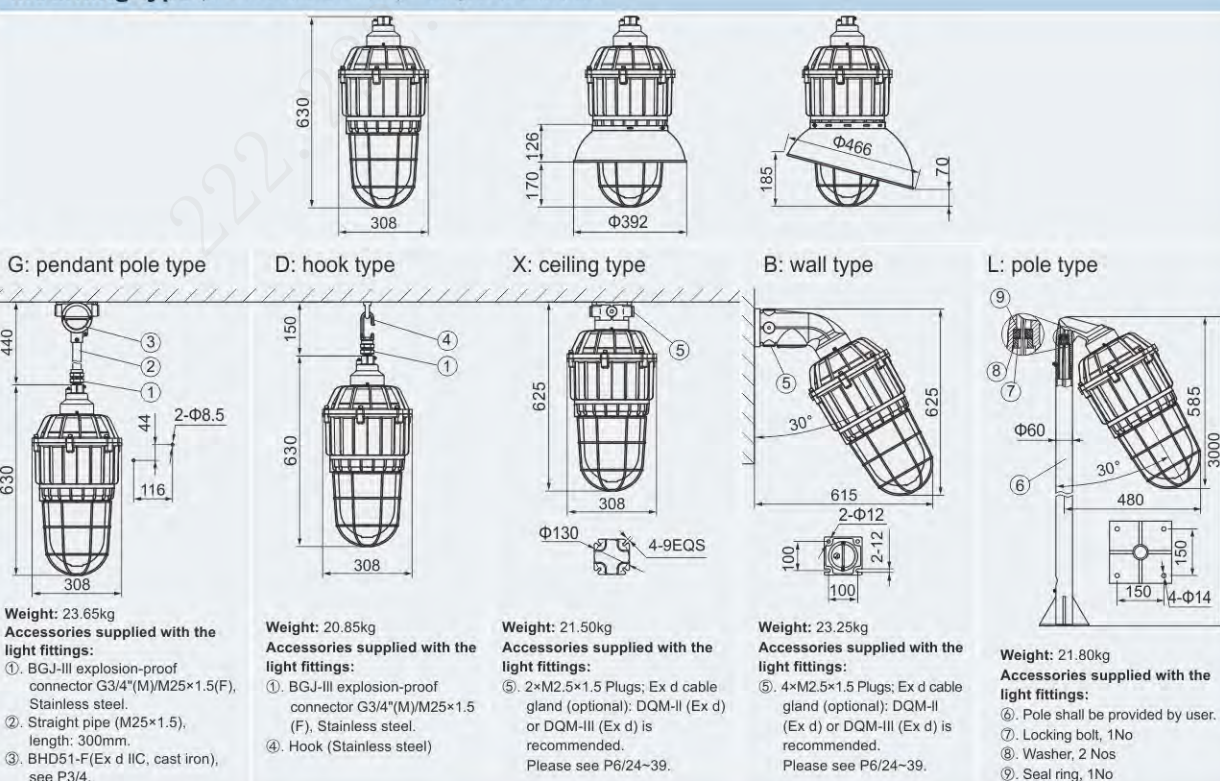
1 $\times$ G3/4" (pendant pole type and hook type); 4 $\times$ M25 $\times$ 1.5 (wall type)

2 $\times$ M25 $\times$ 1.5 (ceiling type); 1 $\times$ G1" (pole type)

See Mounting type

Φ 10~ Φ 14 (mm)

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



Pendant Light Fittings

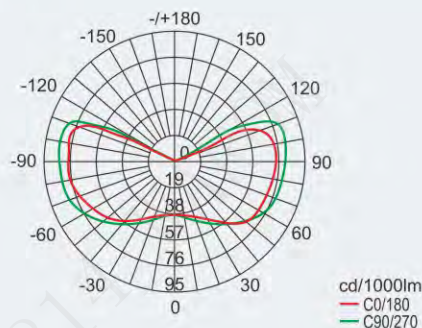
HRD61 Series Explosion-proof Light Fittings

Photometric data

HRD61-400-□□□(Without external reflector)



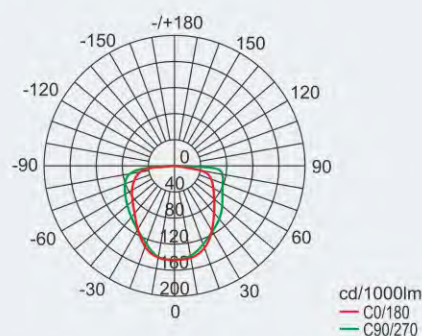
Rated luminous flux
 400W Metal halide lamp: 42000 lm
 400W High pressure sodium lamp: 56500 lm
 400W High pressure mercury lamp: 22000 lm
 The data from Philips lamp



HRD61-400-□□□(With wide reflector)



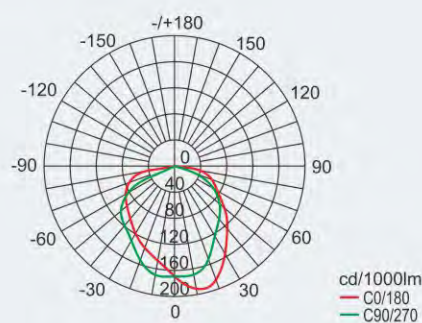
Rated luminous flux
 400W Metal halide lamp: 42000 lm
 400W High pressure sodium lamp: 56500 lm
 400W High pressure mercury lamp: 22000 lm
 The data from Philips lamp



HRD61-400-□□□(With angle reflector)



Rated luminous flux
 400W Metal halide lamp: 42000 lm
 400W High pressure sodium lamp: 56500 lm
 400W High pressure mercury lamp: 22000 lm
 The data from Philips lamp



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Pendant Light Fittings

HRD61 Series Explosion-proof Light Fittings

Accessories

Picture	Name	Ordering code	Weight (kg)
	150 Wide reflector	61001	0.15
	250 Wide reflector	61002	0.27
	400 Wide reflector	91003	0.45
	150 Angle reflector	61004	0.15
	250 Angle reflector	61005	0.36
	400 Angle reflector	71004	0.57
	Hook	61020	0.20
	Explosion-proof electronic trigger (For HRD61-150 type, HRD61-250 type)	61034	0.34

Note: Ballast, capacitor, 400 type trigger see P1/21

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.

