

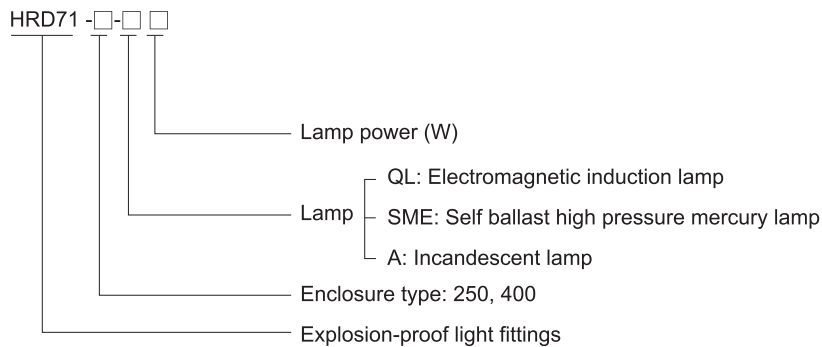
Pendant Light Fittings

HRD71 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
HRD71-250	85	160, 250	200, 300
HRD71-400	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

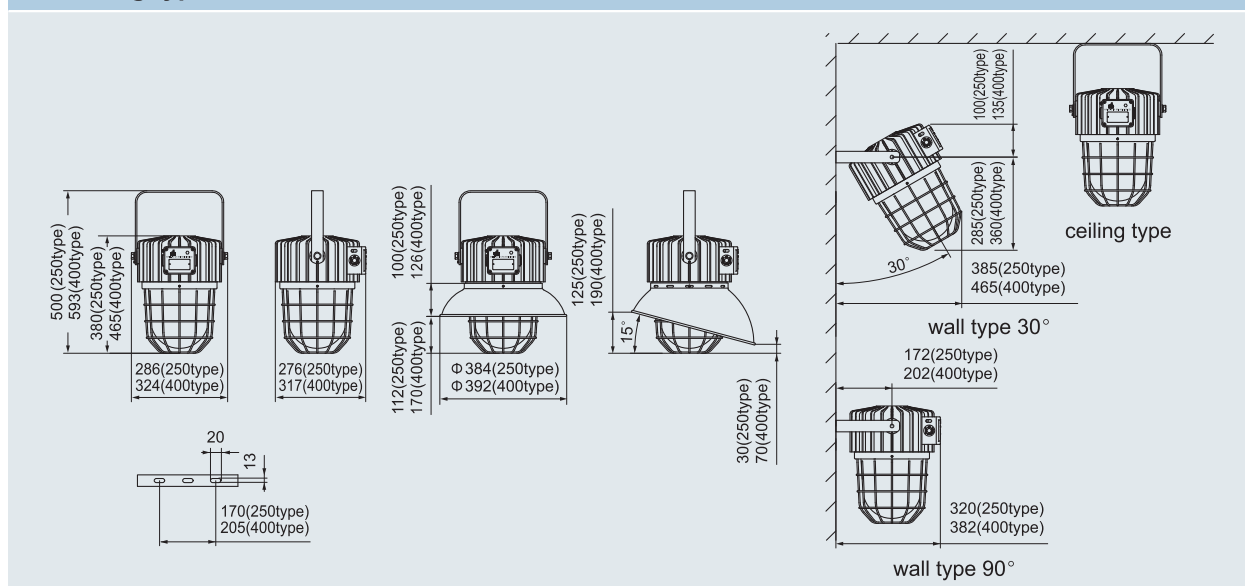
Pendant Light Fittings

HRD71 Series Explosion-proof Light Fittings

Technical data																														
Explosion-proof light fittings	HRD71-250-□□	HRD71-400-□□																												
Explosion protection																														
Gas explosion protection	⊕ II 2 G Ex d e IIC T3	⊕ II 2 G Ex d e IIC T3																												
Dust explosion protection	Ex tD A21 IP65 T190°C	Ex tD A21 IP65 T190°C																												
Certificates																														
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)																												
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-7 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1	EN 60079-0, EN 60079-1, EN 60079-7 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1																												
Material	Copper-free aluminium, powder coated surface, yellow (RAL1021)																													
Enclosure	Toughened glass, stands 4J impact																													
Transparent cover	High-purity aluminium																													
Internal reflector	Pure aluminium, anodic-oxidation treatment for surface																													
External reflector(optional)	Powder coated carbon steel, white																													
Wire guard	Stainless steel																													
Exposed fastener																														
Lamp	<table border="1"> <thead> <tr> <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> </tr> <tr> <td>250W</td> <td>E40</td> </tr> <tr> <td rowspan="2">A</td> <td>200W</td> <td>E27</td> </tr> <tr> <td>300W</td> <td>E40</td> </tr> <tr> <td>QL</td> <td>85W</td> <td>-</td> </tr> </tbody> </table>	Available lamp	Lamp power	Lamp holder	SME	160W	E27	250W	E40	A	200W	E27	300W	E40	QL	85W	-	<table border="1"> <thead> <tr> <th>Available lamp</th> <th>Lamp power</th> <th>Lamp holder</th> </tr> </thead> <tbody> <tr> <td>SME</td> <td>500(450)W</td> <td>E40</td> </tr> <tr> <td>A</td> <td>500W</td> <td>E40</td> </tr> <tr> <td>QL</td> <td>135W</td> <td>-</td> </tr> </tbody> </table>	Available lamp	Lamp power	Lamp holder	SME	500(450)W	E40	A	500W	E40	QL	135W	-
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Available lamp	Lamp power	Lamp holder																												
SME	500(450)W	E40																												
A	500W	E40																												
QL	135W	-																												
Rated voltage	Note: working frequency of QL (electromagnetic) is 2.65MHz. 220~240V AC 50/60Hz																													
Earthing protection	M5 (internal & external earth bolts)																													
Degree of protection	IP65																													
Ambient temperature	-20°C~+55°C																													
Terminal	3 x 1.5~2.5mm ² (L+N+PE)																													
Cable entries	2 x M25 x 1.5 plugs																													
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/17~19.																													
Weight	9.25kg	13.45kg																												



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



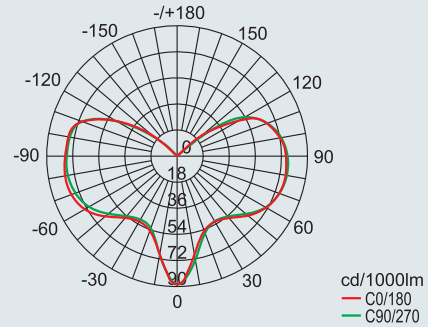
Pendant Light Fittings HRD71 Series Explosion-proof Light Fittings

Photometric data

HRD71-250-□□(Without external reflector)



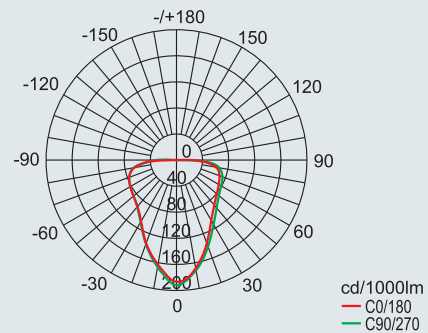
Rated luminous flux
 160W Self ballast high pressure mercury lamp: 3150 lm
 250W Self ballast high pressure mercury lamp: 5600 lm
 200W Incandescent lamp: 2000 lm
 300W Incandescent lamp: 4050 lm
 The data from Philips lamp



HRD71-250-□□(With wide reflector)



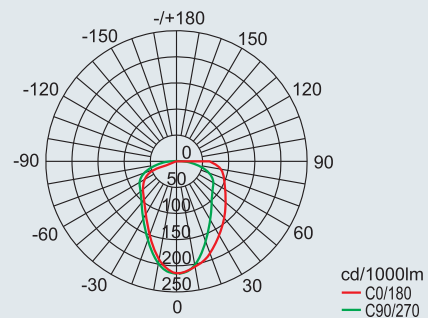
Rated luminous flux
 160W Self ballast high pressure mercury lamp: 3150 lm
 250W Self ballast high pressure mercury lamp: 5600 lm
 200W Incandescent lamp: 2000 lm
 300W Incandescent lamp: 4050 lm
 The data from Philips lamp



HRD71-250-□□(With angle reflector)



Rated luminous flux
 160W Self ballast high pressure mercury lamp: 3150 lm
 250W Self ballast high pressure mercury lamp: 5600 lm
 200W Incandescent lamp: 2000 lm
 300W Incandescent lamp: 4050 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.

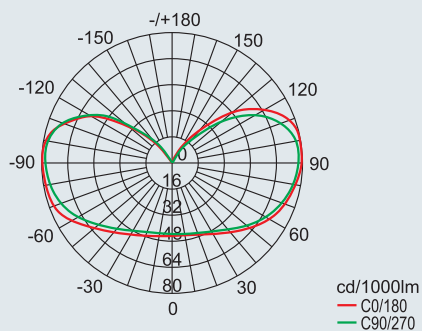
Pendant Light Fittings

HRD71 Series Explosion-proof Light Fittings

Photometric data

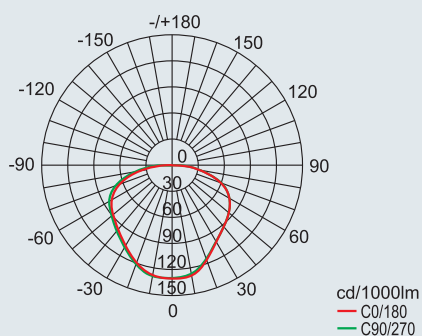
HRD71-400-□□(Without external reflector)

Rated luminous flux
 500W Self ballast high pressure mercury lamp: 14000 lm
 500W Incandescent lamp: 7630 lm
 The data from Philips lamp



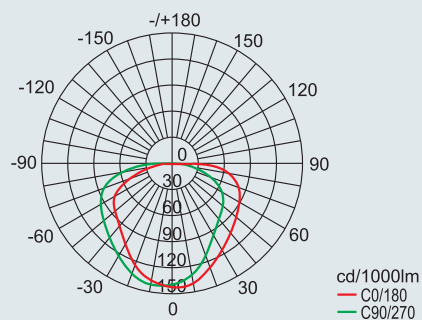
HRD71-400-□□(With wide reflector)

Rated luminous flux
 500W Self ballast high pressure mercury lamp: 14000 lm
 500W Incandescent lamp: 7630 lm
 The data from Philips lamp



HRD71-400-□□(With angle reflector)

Rated luminous flux
 500W Self ballast high pressure mercury lamp: 14000 lm
 500W Incandescent lamp: 7630 lm
 The data from Philips lamp



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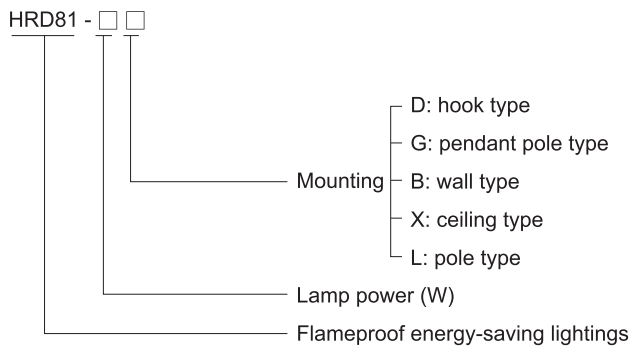
Pendant Light Fittings

HRD81 Series Flameproof Energy-saving Lightings



- ◆ 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
- ◆ Two enclosure types separately for 42W and 68W compact energy-saving lamps, with good performance including rapid starting, flash free, high lighting efficiency, long service life and energy saving, etc.
- ◆ The luminous intensity of 42W compact energy-saving lamp equals to 80W mercury lamp; the luminous intensity of 68W compact energy-saving lamp equals to 125W mercury lamp.
- ◆ Powder coated wire guard, white.
- ◆ Toughened glass cover resistant to temperature changes.

Catalogue number logic



Selection table

Type / Ordering code	Lamp power (W)	Weight (kg)	Type / Ordering code	Lamp power (W)	Weight (kg)
HRD81-42D	42	4.10	HRD81-68D	68	6.20
HRD81-42G	42	5.60	HRD81-68G	68	7.70
HRD81-42B	42	5.85	HRD81-68B	68	7.95
HRD81-42X	42	5.20	HRD81-68X	68	7.30
HRD81-42L	42	4.20	HRD81-68L	68	6.30

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/95).
 2. The light fittings are supplied without external reflector. Please specify when ordering.
 3. The light fittings are supplied with lamps.

Zones 1&2; 21&22

Pendant Light Fittings

HRD81 Series Flameproof Energy-saving Lightings

Technical data

Flameproof energy-saving lightings HRD81-□□

Explosion protection

- Gas explosion protection
- Dust explosion protection

II 2 G Ex d IIC T4
Ex tD A21 IP66 T130°C

Certificates

- For gas explosion protection
- For dust explosion protection

LCIE 07 ATEX 6037; IECEx CQM 08.0002
PCEC (China)

Conformity to standards

EN 60079-0, EN 60079-1
IEC 60079-0, IEC 60079-1, IEC 61241-0, IEC 61241-1

Material

- Enclosure
- Wire guard
- Transparent cover
- 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
High-purity aluminium
Pure aluminium, anodic-oxidation treatment for surface
Stainless steel

Lamp

- Lamp holder
- Lamp specification
- Lamp power (W)

E27
Compact energy-saving lamp (for sealed atmosphere)
42W
68W

Rated voltage

220~240V AC 50/60Hz

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66

Ambient temperature

-20°C~+55°C

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable entries

G3/4" (NPT3/4" or M25x1.5 with connector on request)

Cable gland

See Mounting Accessories & Spare Parts Table

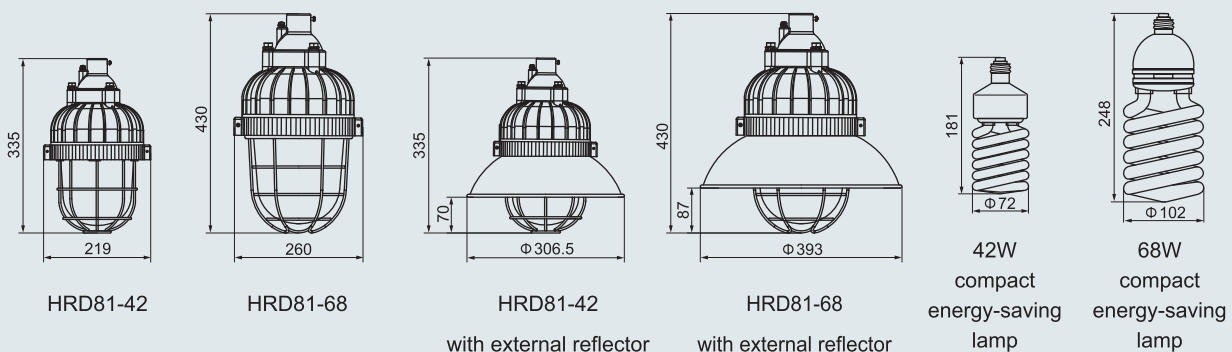
Available cable outer diameter

Φ 10~Φ 14 (mm)

Lamp data

Energy-saving lamp	Rated voltage	Working current	Luminous flux	Service life
42W	220~240V AC	380mA	2800lm	10000h
68W	220~240V AC	618mA	4200lm	10000h

Dimension drawings (all dimensions in mm) - subject to alteration



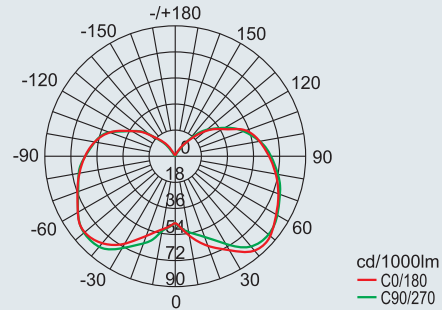
Pendant Light Fittings HRD81 Series Flameproof Energy-saving Lightings

Photometric data



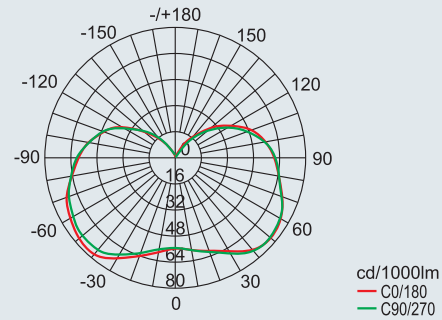
HRD81-42□(Without external reflector)

Rated luminous flux: 2800lm



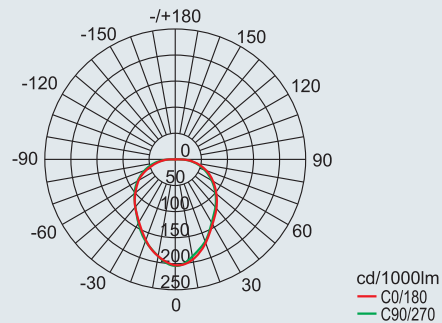
HRD81-68□(Without external reflector)

Rated luminous flux: 4200lm



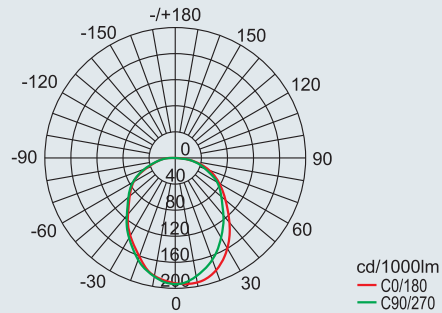
HRD81-42□(With external reflector)

Rated luminous flux: 2800lm



HRD81-68□(With external reflector)

Rated luminous flux: 4200lm



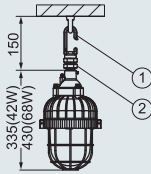
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Pendant Light Fittings HRD81 Series Flameproof Energy-saving Lightings

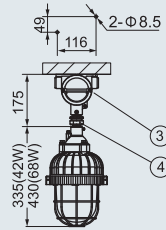
Mounting type (all dimensions in mm) – subject to alteration

Installation reference

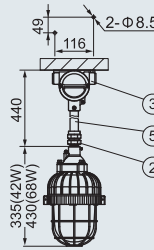
D: hook type



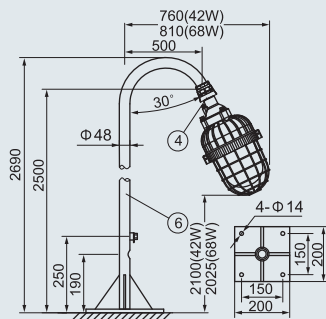
X: ceiling type



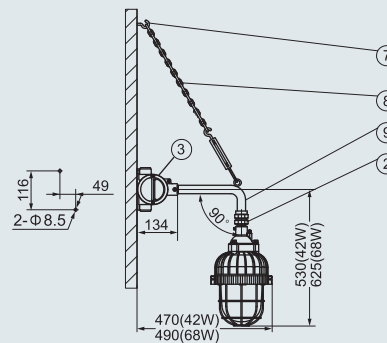
G: pendant pole type



L: pole type



B: wall type



Mounting Accessories & Spare Parts Table

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
D: hook type	①.Hook (carbon steel)	1		61020	0.20
	②.BGJ-III Explosion-proof connector	1	G3/4" (M)/M25 x 1.5(F) Carbon steel	81D02	0.26
X: ceiling type	③.BHD51 Explosion-proof junction box	1	Copper-free aluminium (Ex d IIC)	BHD51-F	0.80
	④.BGJ-III Explosion-proof connector	1	M25 x 1.5(M)/ G3/4" (M) Carbon steel	81X01	0.30
G: pendant pole type	②.BGJ-III Explosion-proof connector	1	G3/4" (M)/M25 x 1.5(F) Carbon steel	81D02	0.26
	③.BHD51 Explosion-proof junction box	1	Copper-free aluminium (Ex d IIC)	BHD51-F	0.80
	⑤.Straight pipe (M25 x 1.5)	1	Length: 300mm	81G01	0.41
L: pole type	④.BGJ-III Explosion-proof connector	1	M25 x 1.5(M)/ G3/4" (M) Carbon steel	81X01	0.30
	⑥.Pole	1	Φ48mm	81L01	-
B: wall type	②.BGJ-III Explosion-proof connector	1	G3/4" (M)/M25 x 1.5(F) Carbon steel	81D02	0.26
	③.BHD51 Explosion-proof junction box	1	Copper-free aluminium (Ex d IIC)	BHD51-F	0.80
	⑨.Elbow pipe 90° (M25 x 1.5)	1	Length: 400mm	51022	0.55
	⑧.Chain	1	Length: 450mm	80B11	0.08
	⑦.Hook expansion bolt	1		52017	0.03

Note: 1. Accessories not in the table shall be supplied by user.

2. Pole ⑥ shall not be supplied with light fittings; if required, please specify when ordering.

