

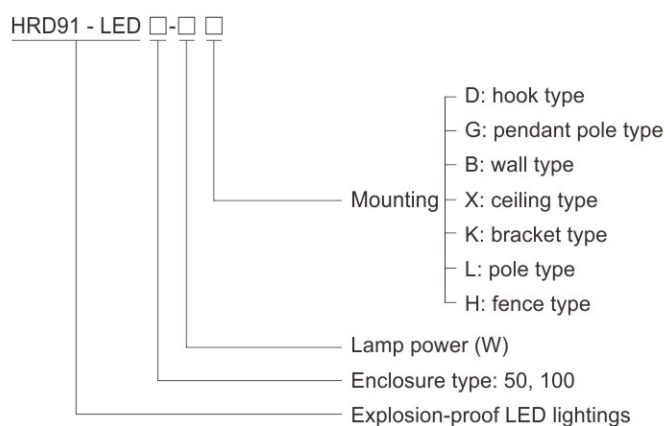
LED Light Fittings

HRD91-LED Series Explosion-proof LED 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: 50, 100
- ◆ Applicable lamp and power (max. 100W)
 - LED : 30W, 50W, 70W, 100W
- ◆ Isolated LED lamp compartment, CC-CV (constant current - constant voltage) power controller compartment and terminal compartment; Wind-convection heat dissipation structure
- ◆ Low-maintenance due to long service life is up to 100,000 operating hours.

Catalogue number logic



Selection table

Type / Ordering code	Lamp power(W)
HRD91-LED50-□ □	30, 50
HRD91-LED100-□ □	70, 100

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/53).
2. The product is supplied according to "Type/Ordering code" in the table with mounting accessories.

Zones 1&2; 21&22

LED Light Fittings

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Technical data

Explosion-proof LED lightings HRD91-LED□-□□

Explosion protection

Global (IECEx)

Gas and dust

Europe (ATEX)

Gas and dust

IECEx NEP 18.0022X

Ex db IIC T6 or T5 Gb

Ex tb IIIC T80°C or T95°C Db

TÜV CY 19 ATEX 0206175X

Ex II 2 G Ex db op is IIC T6...T5 Gb

Ex II 2 G Ex db eb op is IIC T6...T5 Gb

Ex II 2 D Ex tb op is IIIC T80°C...T95°C Db IP66

Certificates

Conformity to standards

IECEx; ATEX; CU-TR

EN 60079-0, EN 60079-1, EN60079-7, EN 60079-28, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC60079-7, IEC 60079-28, IEC 60079-31

Material

Enclosure

Transparent cover

Exposed fastener

LED driver

Copper-free aluminium alloy, powder coated surface, yellow (RAL1021)

Toughened glass, stands 4J impact

Stainless steel

Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95 , with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit

Lamp

Lamp specification

Lamp power (W)

Colour rendering index (Ra)

Colour temperature (CCT)

LED

30W, 50W, 70W, 100W

≥ 80

5700K

Note: cool white is available in general. Warm white or nature white is optional, please specify when ordering.

Rated voltage

220~240V AC 50/60Hz

100~277V AC 50/60Hz

Earthing protection

Degree of protection

Ambient temperature

M5 (internal & external earth bolts)

IP66

T6/T80°C for Tamb: -20°C~+43°C

T5/T95°C for Tamb: -20°C~+58°C

Terminal

Mounting

Cable entries

Cable gland

Available cable outer diameter

3 x 1.5~4mm² (L+N+PE)

Ceiling type, pole type, pendant pole type, wall type, bracket type, hook type, fence type

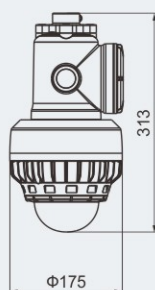
M25 x 1.5

See Mounting Accessories & Spare Parts Table

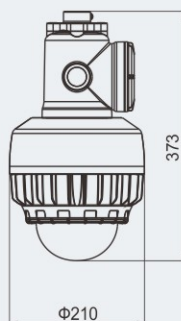
Φ 10~Φ 14(mm)



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



HRD91-LED50



HRD91-LED100

LED Light Fittings

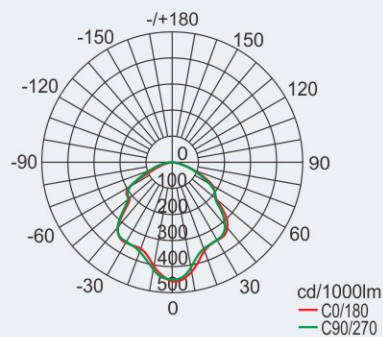
HRD91-LED Series Explosion-proof LED Lightings

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5700K



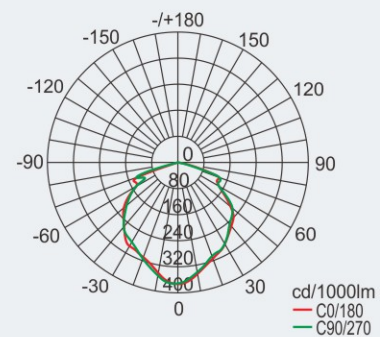
HRD91-LED50-30-□

Lamp power (W)	Luminous flux	Wattage
30	3600lm	30W



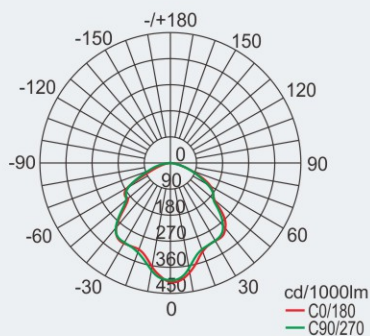
HRD91-LED100-70-□

Lamp power (W)	Luminous flux	Wattage
70	8400lm	70W



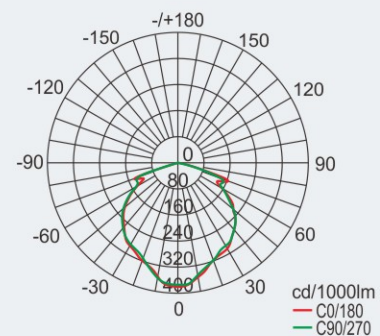
HRD91-LED50-50-□

Lamp power (W)	Luminous flux	Wattage
50	6100lm	50W



HRD91-LED100-100-□

Lamp power (W)	Luminous flux	Wattage
100	11200lm	100W



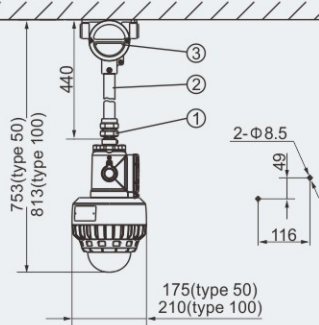
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

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

G: pendant pole type

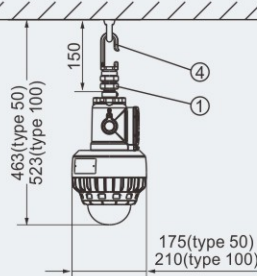


Weight: 3.75kg (type 50)
5.80kg (type 100)

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 x 1.5),length: 300mm.
- ③.BHD51-F(Ex d IIC, copper-free aluminium alloy), see P3/4.

D: hook type

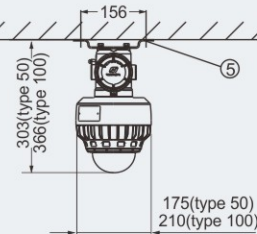


Weight: 2.75kg (type 50)
4.80kg (type 100)

Accessories supplied with the light fittings:

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

X: ceiling type

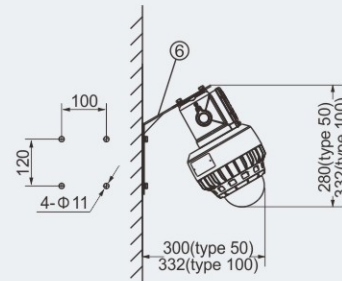


Weight: 3.30kg (type 50)
5.40kg (type 100)

Accessories supplied with the light fittings:

- ⑤.Mounting feet

B: wall type

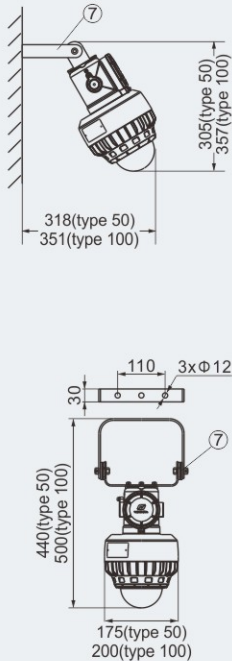


Weight: 3.30kg (type 50)
5.40kg (type 100)

Accessories supplied with the light fittings:

- ⑥.Wall bracket

K: bracket type

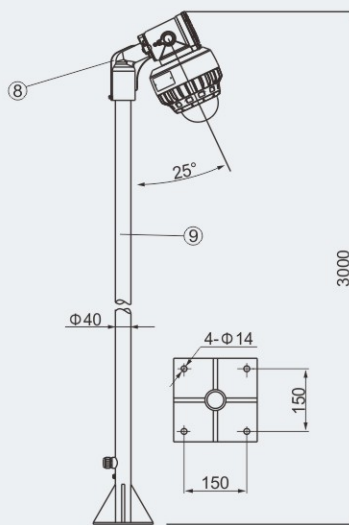


Weight: 4.00kg (type 50)
6.20kg (type 100)

Accessories supplied with the light fittings:

- ⑦. Mounting bracket, sheet steel, powder coated.

L: pole type

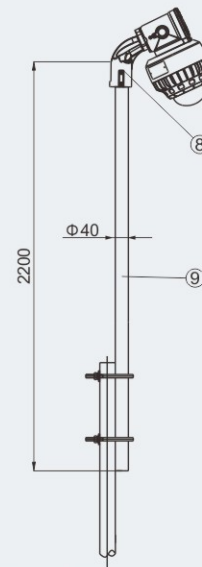


Weight: 2.75kg (type 50)
4.80kg (type 100)

Accessories supplied with the light fittings:

- ⑧. Pole type connector
- ⑨. Pole (shall be provided by user)

H: fence type



Weight: 2.75kg (type 50)
4.80kg (type 100)

Accessories supplied with the light fittings:

- ⑧. Pole type connector
- ⑨. Pole (shall be provided by user)