LED Light Fittings
HRD91-LED Series Explosion-proof LED Lightings

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- 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

HRD91 - LED □-□ □

- Explosion-proof LED lightings
- Enclosure type: 50, 100
- Lamp power (W)
- Mounting
  - D: hook type
  - G: pendant pole type
  - B: wall type
  - X: ceiling type
  - K: bracket type
  - L: pole type
  - H: fence type

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.

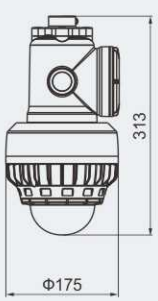
Zones 1&2; 21&22

Technical data

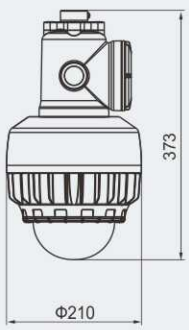
Explosion-proof LED lightings HRD91-LED□-□□

Explosion protection	
Global (IECEx)	IECEx NEP 18.0022X
Gas and dust	Ex db IIC T6 or T5 Gb Ex tb IIIC T80℃ or T95℃ Db
Europe (ATEX)	TÜV CY 19 ATEX 0206175X
Gas and dust	Ⓔx II 2 G Ex db op is IIC T6...T5 Gb Ⓔx II 2 G Ex db eb op is IIC T6...T5 Gb Ⓔx II 2 D Ex tb op is IIIC T80℃...T95℃ Db IP66
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	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	Copper-free aluminium alloy, powder coated surface, yellow (RAL1021)
Transparent cover	Toughened glass, stands 4J impact
Exposed fastener	Stainless steel
LED driver	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	LED
Lamp power (W)	30W, 50W, 70W, 100W
Colour rendering index (Ra)	≥80
Colour temperature (CCT)	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	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	T6/T80℃ for Tamb: -20℃~+43℃ T5/T95℃ for Tamb: -20℃~+58℃
Terminal	3 x 1.5~4mm^2 (L+N+PE)
Mounting	Ceiling type, pole type, pendant pole type, wall type, bracket type, hook type, fence type
Cable entries	M25 x 1.5
Cable gland	See Mounting Accessories & Spare Parts Table
Available cable outer diameter	Φ10~Φ14(mm)

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



HRD91-LED50



HRD91-LED100

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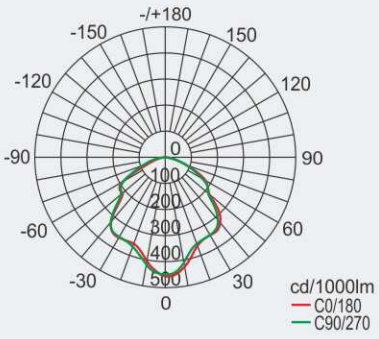
Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5700K

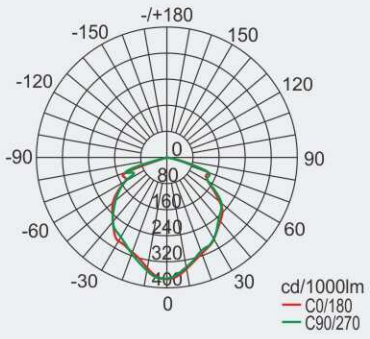
HRD91-LED50-30-□

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



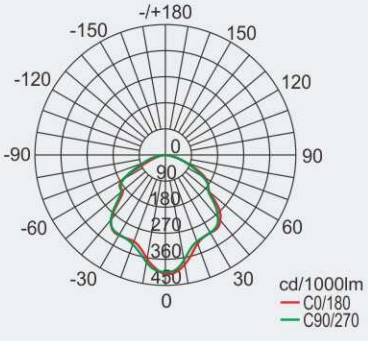
HRD91-LED100-70-□

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



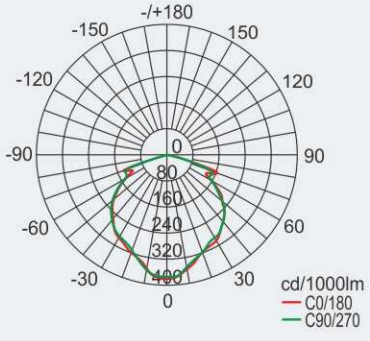
HRD91-LED50-50-□

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



HRD91-LED100-100-□

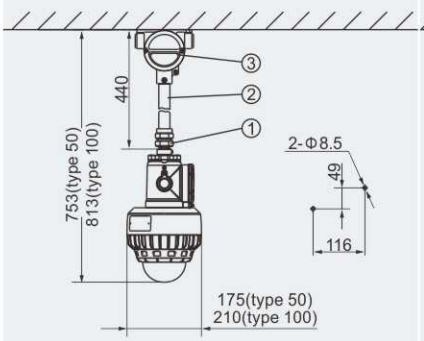
Lamp power (W)	Luminous flux	Wattage
100	11200lm	100W



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

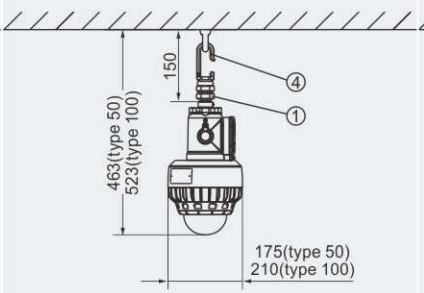
Mounting type (all dimensions in mm) - subject to alteration

G: pendant pole type



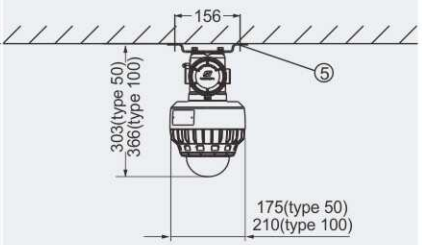
Weight: 3.75kg (type 50)
5.80kg (type 100)
Accessories supplied with the light fittings:
①.BGJ-III Explosion-proof connectorG3/4"(M)/ M25×1.5(F), Stainless steel.
②.Straight pipe(M25 x 1.5),length: 300mm.
③.BHD51-F(Ex d IIC, copper-free aluminium alloy), see P3/4.

D: hook type



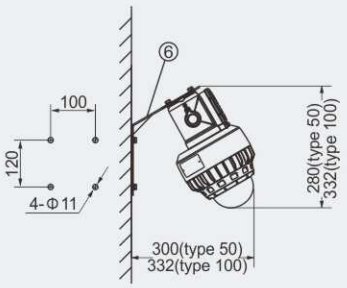
Weight: 2.75kg (type 50)
4.80kg (type 100)
Accessories supplied with the light fittings:
①.BGJ-III explosion-proof connector G3/4" (M)/M25 x 1.5(F), Stainless steel.
④.Hook (Stainless steel).

X: ceiling type



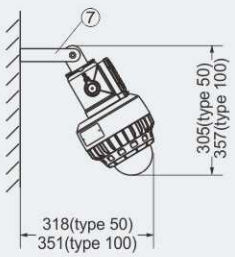
Weight: 3.30kg (type 50)
5.40kg (type 100)
Accessories supplied with the light fittings:
⑤.Mounting feet

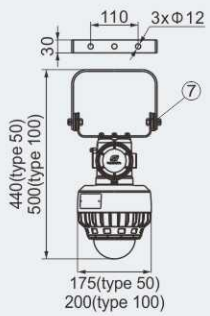
B: wall type



Weight: 3.30kg (type 50)
5.40kg (type 100)
Accessories supplied with the light fittings:
⑥.Wall bracket

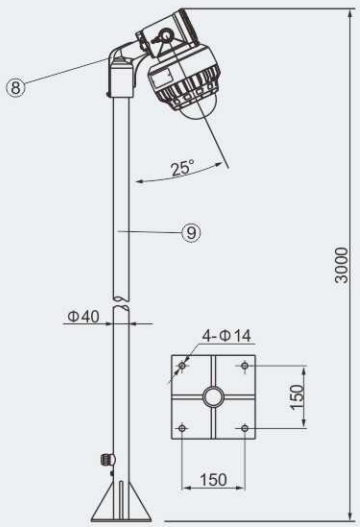
K: bracket type





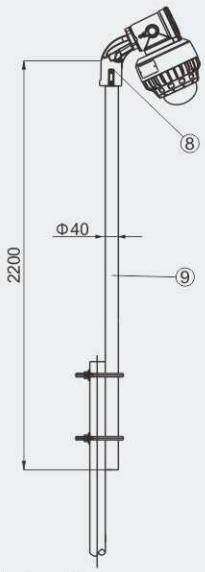
Weight: 4.00kg (type 50)
6.20kg (type 100)
Accessories supplied with the light fittings:
⑦. Mounting bracket, sheet steel, powder coated.

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)

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