LED Light Fittings
## HRD97 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
◆ Applicable lamp and power (max.20W)
   LED : 10W, 20W
◆ Isolated LED lamp compartment, CC-CV (constant current - constant voltage) power controller compartment and terminal compartment; Wind-convection heat dissipation structure
◆ Low-maintenance costs due to long service life, which is up to 100,000 operating hours.

■ Catalogue number logic

HRD97-□ □

Mounting ⎡ K: bracket type
        ⎣ X: ceiling type

Lamp power (W)
Explosion-proof LED lightings
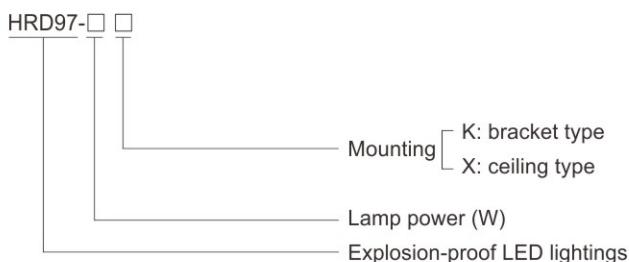
■ Selection table

Type / Ordering code	Lamp power(W)
HRD97-10 □	10
HRD97-20 □	20

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/69).
　　　 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   HRD97-☐☐

Explosion protection

Global (IECEx)	IECEx CQM 22.0036X
Gas and dust	Ex db IIC T6 Gb
	Ex tb IIIC T80℃ Db
Europe (ATEX)	UL 23 ATEX 3016X
Gas and dust	⟨Ex⟩ II 2 G Ex db IIC T6 Gb
	⟨Ex⟩ II 2 D Ex tb IIIC T80℃ Db
Certificates	IECEx; ATEX
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31
	IEC 60079-0, IEC 60079-1, 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	Integrated LED, Multiple LED
Lamp power (W)	10W, 20W
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	24V AC 50/60Hz, 36V AC 50/60Hz, 100~277V AC 50/60Hz, 24V DC, 36V DC
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-40℃~+60℃
Terminal	3 x 1.5~4mm^2 (L+N+PE)
Mounting	Bracket type, Ceiling 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
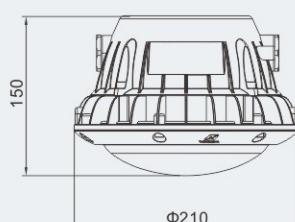
Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5700K

HRD97-10□

Lamp power (W)	Luminous flux	Wattage
10	1200lm	10W

cd/1000lm
— C0/180
— C90/270
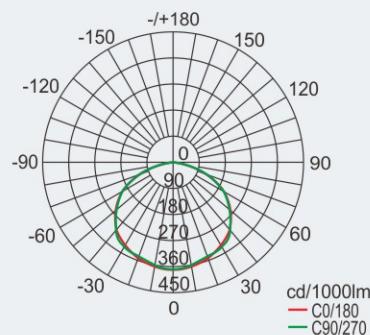
HRD97-20□

| Lamp power (W)	Luminous flux	Wattage
20	2500lm	20W

cd/1000lm
— C0/180
— C90/270
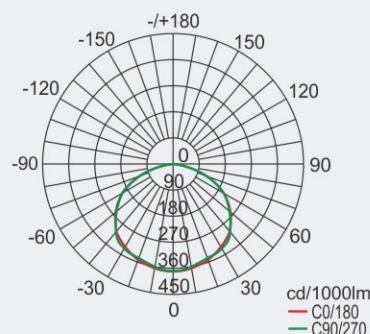
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

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

X: ceiling type

Φ210

155

Φ160

3xΦ7
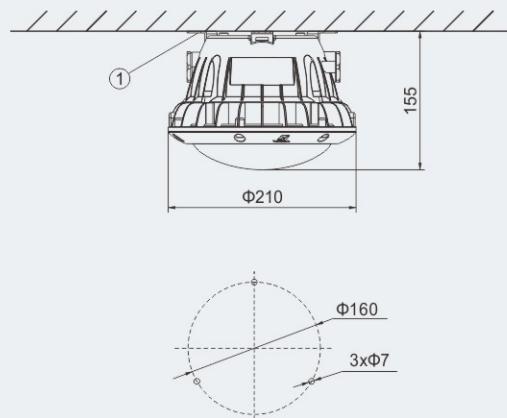
Weight: 3.30kg

Accessories supplied with the light fittings:
①. Mounting feet

K: bracket type

230

290

185

3-Φ11

100
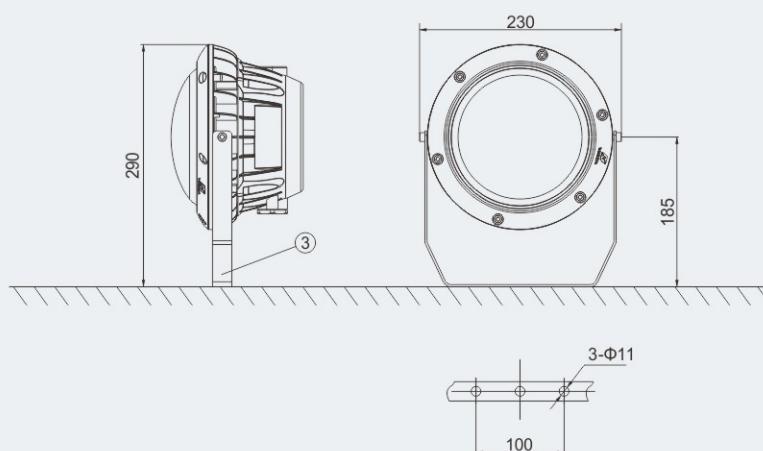
Weight: 3.80kg

Accessories supplied with the light fittings:
③. Wall bracket