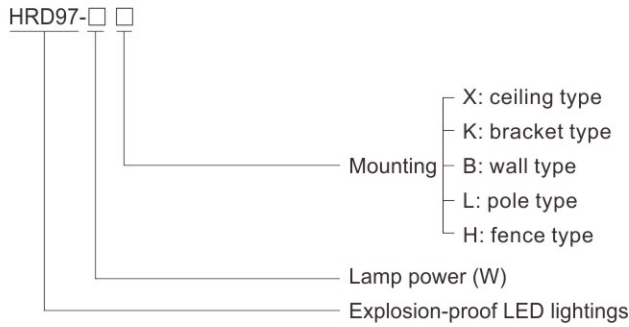◆ Explosion protection to
 -CENELEC
 -IEC
 -NEC
◆ Can be used in
 Zone 1 and Zone 2
 Zone 21 and Zone 22
 Class I, Zone 1 and Zone 2
 Class I, Division 1, Groups A, B, C, D
◆ Applicable lamp and power (max.20W)
 LED : 10W, 20W
◆ Isolated LED lamp compartment, CC-CV (constant current - constant voltage) power controller compartment and terminal compartment; Wind-convection heat dissipation structure
◆ Low-maintenance due to long service life is up to 100,000 operating hours.

WAROM

■ Catalogue number logic

HRD97-□ □

 X: ceiling type
 K: bracket type
 Mounting B: wall type
 L: pole type
 H: fence 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 P2/67).
 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)

ATEX (applied for)

Gas and dust

⟨Ex⟩ II 2 G Ex db IIC T6 Gb

⟨Ex⟩ II 2 D Ex tb IIIC T80℃ Db IP66

Certificates

IECEx; ATEX; CU-TR

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

Ceiling type, Bracket type, Wall type, Pole type, Fence type

Cable entries

M25 x 1.5

Cable gland
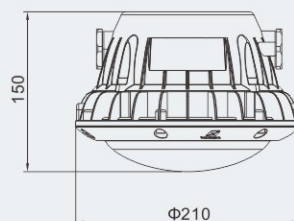
See Mounting Accessories & Spare Parts Table

Available cable outer diameter

Φ10~Φ14(mm)

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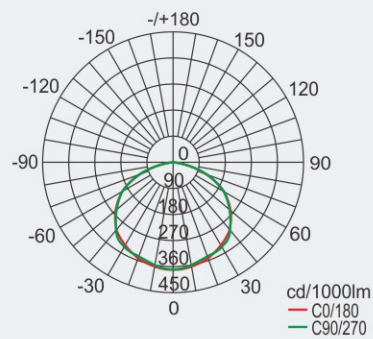

150

Φ210

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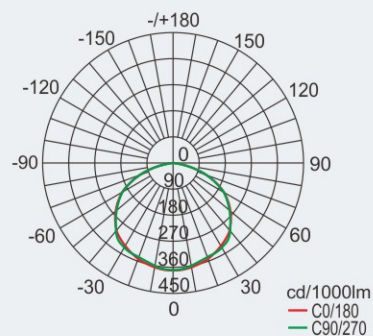Note: LED luminous flux is from the standard product of which colour temperature is 5700K

HRD97-10☐

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

cd/1000lm
— C0/180
— C90/270

HRD97-20☐

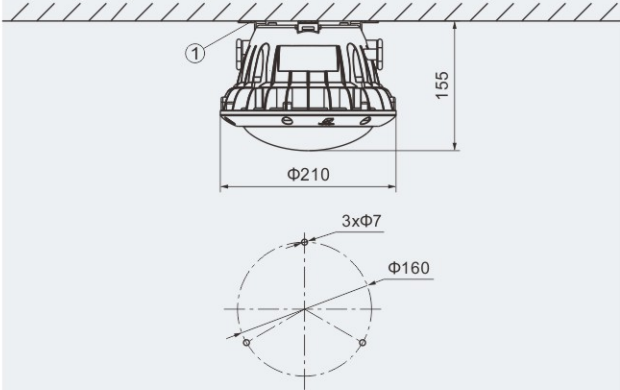| Lamp power (W)	Luminous flux	Wattage
20	2500lm	20W

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
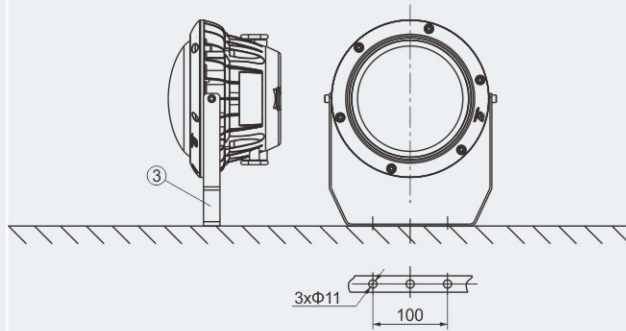
X: ceiling type

155

Φ210

3×Φ7

Φ160

Weight: 3.30kg
Accessories supplied with the light fittings:
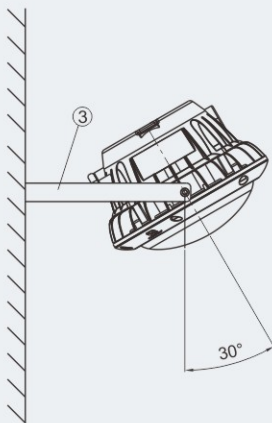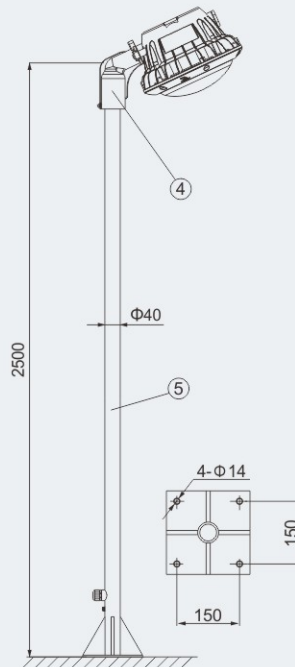①. Mounting feet

K: bracket type

③

3×Φ11

100

Weight: 3.80kg
Accessories supplied with the light fittings:
③. Wall bracket

B: wall type

③

30°

Weight: 3.80kg
Accessories supplied with the light fittings:
③. Wall bracket
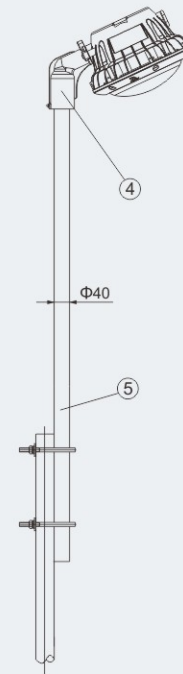
L: pole type

④

2500

Φ40

⑤

4-Φ14

150

150

Weight: 4.50kg
Accessories supplied with the light fittings:
④. Pole type connector
⑤. Pole (shall be provided by user)

H: fence type

④

Φ40

⑤

Weight: 4.50kg
Accessories supplied with the light fittings:
④. Pole type connector
⑤. Pole (shall be provided by user)
⑥. Pole (shall be provided by user)