

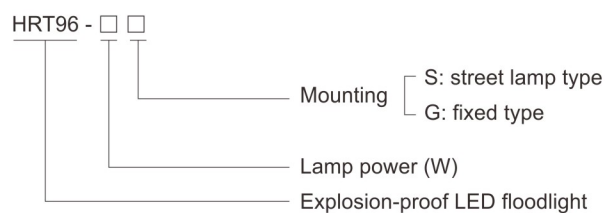
## LED Light Fittings

## HRT96 Series Explosion-proof LED Floodlights



- ◆ 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.240W)
  - LED: 80W, 100W, 120W, 160W, 200W, 240W
- ◆ Isolated LED lamp compartment, CC-CV (constant current-constant voltage) power controller compartment and terminal compartment; Wind-convection heat dissipation structure.

### Catalogue number logic



### Selection table

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
HRT96-80G	80	3.60	HRT96-80S	80	3.60
HRT96-100G	100	4.50	HRT96-100S	100	4.50
HRT96-120G	120	4.50	HRT96-120S	120	4.50
HRT96-160G	160	4.50	HRT96-160S	160	4.50
HRT96-200G	200	8.00	HRT96-200S	200	8.00
HRT96-240G	240	8.00	HRT96-240S	240	8.00

**Note:** The product is supplied according to "Type/Ordering code" in the table with mounting accessories.

## Zones 1&2; 21&22

## LED Light Fittings

### HRT96 Series Explosion-proof LED Floodlights

#### Technical data

#### Explosion-proof LED floodlights HRT96-□□

##### Explosion protection

Global (IECEX)

Gas and dust

Europe (ATEX)

Gas and dust

IECEX (applied for)

Ex db op is IIC T6 Gb

Ex tb op is IIIC T80°C Db IP66

ATEX (applied for)

Ex II 2 G Ex db op is IIC T6 Gb

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

##### Certificates

IECEX; ATEX

##### Conformity to standards

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

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

##### Material

Enclosure

Glass cover

LED driver

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Toughened glass, stands 4J impact

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

Exposed fastener

Stainless steel

##### Lamp

Lamp specification

Lamp power (W)

Colour Temperature (CCT)

LED module, Multiple LED

80W, 100W, 120W, 160W, 200W, 240W

Cool white: 5700K

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

##### Rated voltage

100~300V AC 50/60Hz

##### Earthing protection

M5 (internal & external earth bolts)

##### Degree of protection

IP66

##### Ambient temperature

-40°C~+55°C

##### Terminal

3 x 1.5~4mm<sup>2</sup> (L+N+PE)

##### Mounting

Fixed type, street lamp type

##### Cable entries

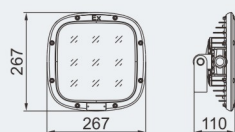
M25 x 1.5 plugs

##### Cable gland

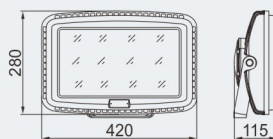
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27



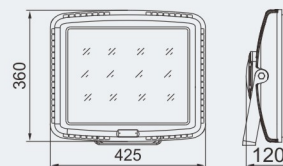
#### Dimension drawings (all dimensions in mm) - subject to alteration



HRT96-80□



HRT96-100□  
HRT96-120□  
HRT96-160□



HRT96-200□  
HRT96-240□

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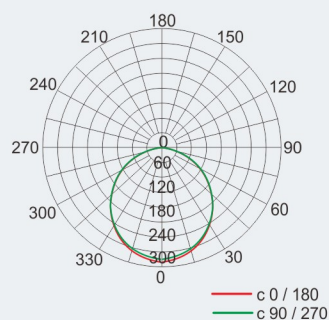
**Photometric data** Note: LED luminous flux is from the standard product of which colour temperature is 5700K (cool white).

**HRT96-80**

Rated luminous flux

80W LED: 8400lm

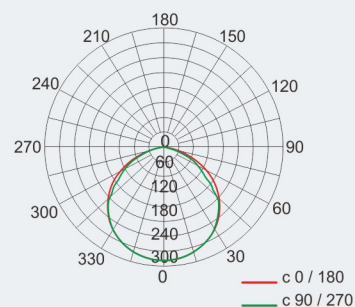
Luminous efficacy: 105lm/W

**HRT96-100**

Rated luminous flux

100W LED: 10500lm

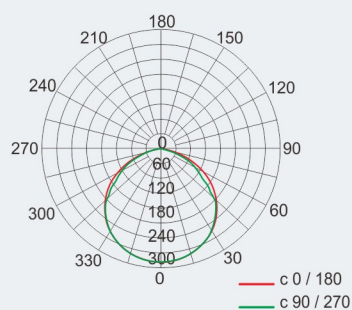
Luminous efficacy: 105lm/W

**HRT96-120**

Rated luminous flux

120W LED: 12600lm

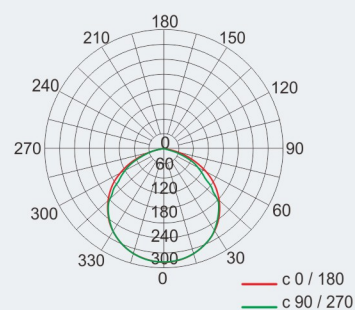
Luminous efficacy: 105lm/W

**HRT96-160**

Rated luminous flux

160W LED: 16800lm

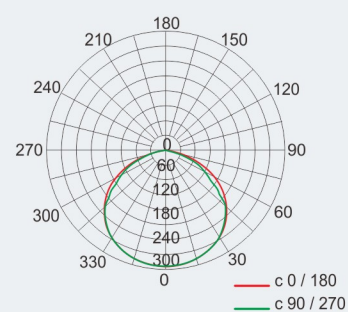
Luminous efficacy: 105lm/W

**HRT96-200**

Rated luminous flux

200W LED: 21000lm

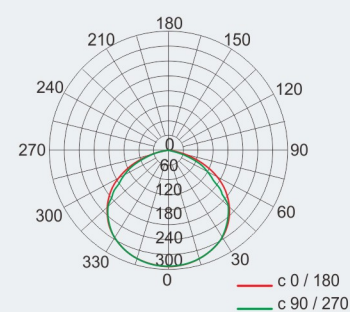
Luminous efficacy: 105lm/W

**HRT96-240**

Rated luminous flux

240W LED: 25200lm

Luminous efficacy: 105lm/W



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

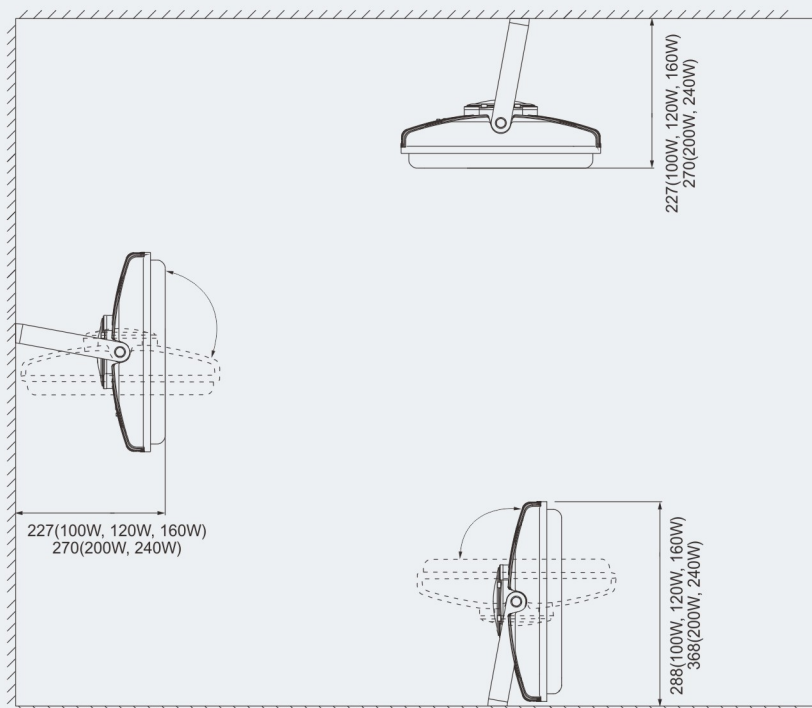


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#### Mounting type (all dimensions in mm) - subject to alteration

G: fixed type



S: street lamp type

