

LED Light Fittings

HRND95 Series Explosion-proof LED Lightings



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 2
 - Zone 22
 - Class I, Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Applicable lamp and power (max.300W)
 - LED: 40W, 60W, 80W, 120W, 160W, 200W, 240W, 300W
- ◆ International brand white light LED, reasonable arrangement of multi LED, high lighting efficiency and long service life.
- ◆ Two types of light distribution: spotlight and floodlight, which can be selected on request.
- ◆ Standard luminaries equip with 60° lens, without lens and 30° lens which are optional, please indicate when placing an order.
- ◆ Standard luminaries do not equip with external lampshade, if need, please specify.
- ◆ 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)	Weight (kg)	Type/Ordering code	Lamp power (W)	Weight (kg)
HRND95-40	40	3.50	HRND95-160	160	9.50
HRND95-60	60	4.00	HRND95-200	200	10.00
HRND95-80	80	6.00	HRND95-240	240	16.50
HRND95-120	120	6.50	HRND95-300	300	17.00

Note: 1. Standard products with 60° lens, without lens and 30° lens which are optional, please indicate when placing an order.
2. Standard luminaries do not equip with external lampshade if need, please specify.

Zones 2; 22

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Technical data

Explosion-proof LED Lightings HRND95-□

Explosion protection

Global (IECEX)	IECEX EUT 18.0002X
Gas and dust	Ex nR IIC T□ ¹⁾ Gc
	Ex tc IIIC T□ ¹⁾ Dc IP66
Europe (ATEX)	EPTI 18 ATEX 0346 X
Gas and dust	Ex II 3 G Ex nR IIC T□ ¹⁾ Gc
	Ex II 3 D Ex tc IIIC T□ ¹⁾ Dc IP66

¹⁾ See Selection Table

Certificates

IECEX; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-15, EN 60079-31
IEC 60079-0, IEC 60079-15, IEC 60079-31

Material

Enclosure	Copper-free Aluminium Alloy, powder coated surface,
Glass cover	Toughened glass, stands 4J impact
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.
Exposed fastener	Stainless steel

Lamp

Lamp specification	LED module, Multiple LED
Lamp power (W)	40W, 60W, 80W, 120W, 160W, 200W, 240W, 300W
Colour rendering index (Ra)	≥ 80
Colour temperature (CCT)	5000K
	Note: nature white is available in general. Warm white is optional, please specify when ordering.

Rated voltage

100~277V AC 50/60Hz, 130~250V DC

Degree of protection

IP66

Ambient temperature

-40℃ ~ +55℃

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable

1x M20 x 1.5 cable gland (DQM-I Ex e)



Selection table

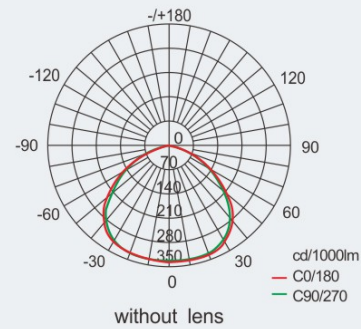
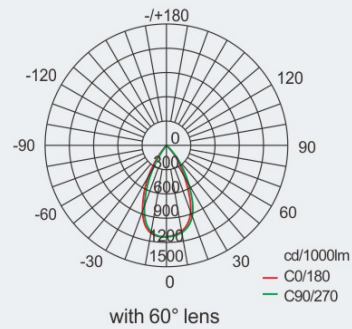
Rated power(W)	Temperature classification			
	-40℃ ≤ Ta ≤ +40℃		-40℃ ≤ Ta ≤ +55℃	
	Gas	Dust	Gas	Dust
40, 80	—	—	T6	T80℃
60, 120, 160, 200, 240, 300	T6	T80℃	T5	T95℃

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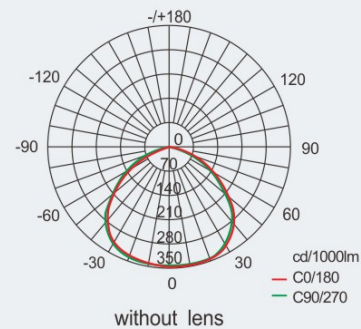
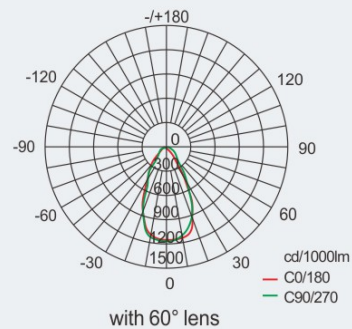
HRND95 Series Explosion-proof LED Lightings

Photometric data Note: Standard products without lens, 30° lens and 60° lens which are optional, please indicate when placing an order.

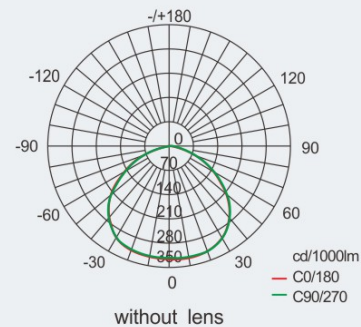
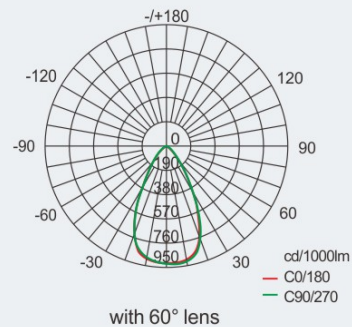
Lamp power (W)	Luminous flux	Wattage	Luminous efficacy
40W	4416lm	42W	105lm/W
60W	6472lm	63W	103lm/W



Lamp power (W)	Luminous flux	Wattage	Luminous efficacy
80W	8839lm	80.5W	110lm/W
120W	12014lm	120W	100lm/W



Lamp power (W)	Luminous flux	Wattage	Luminous efficacy
160W	16346lm	163W	100lm/W
200W	20400lm	202W	101lm/W



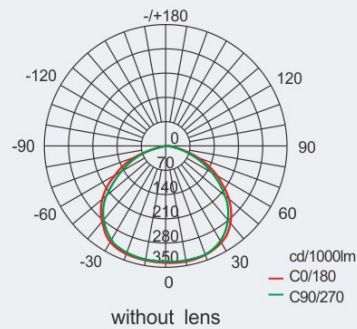
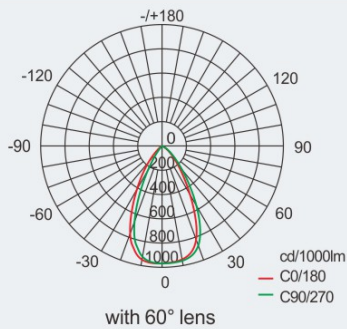
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

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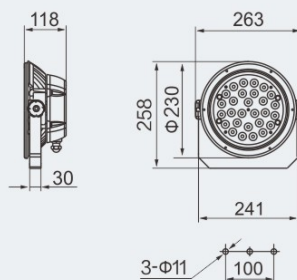
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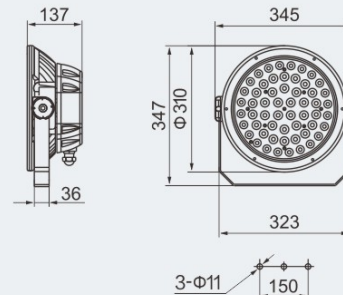
Lamp power (W)	Luminous flux	Wattage	Luminous efficacy
240W	25248lm	243W	104lm/W
300W	30665lm	303W	101lm/W



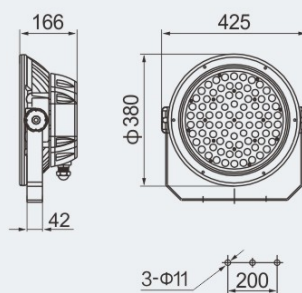
Dimension drawings (all dimensions in mm) - subject to alteration



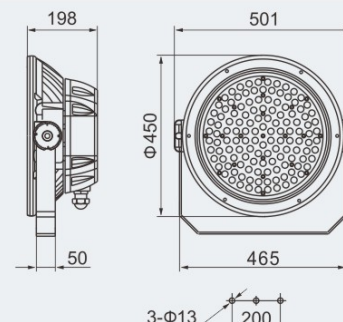
HRND95-40 / HRND95-60



HRND95-80 / HRND95-120



HRND95-160 / HRND95-200



HRND95-240 / HRND95-300



Accessories

Picture	Name	Ordering code	Weight (kg)
	40W/60W Reflector	95001	0.23
	80W/120W Reflector	95002	0.39
	160W/200W Reflector	95003	0.45
	240W/300W Reflector	95004	0.69