



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 2
 - Zone 21 and 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 reflector, if need, please specify.
- ◆ Low-maintenance costs due to long service life, which is up to 100,000 operating hours.

■ Catalogue number logic



■ Selection table for "ec" type

Type/Ordering code	Lamp power (W)	Weight (kg)	Type/Ordering code	Lamp power (W)	Weight (kg)
HRND95-40 (ec)	40	3.50	HRND95-160 (ec)	160	9.50
HRND95-60 (ec)	60	4.00	HRND95-200 (ec)	200	10.00
HRND95-80 (ec)	80	6.00	HRND95-240 (ec)	240	16.50
HRND95-120 (ec)	120	6.50	HRND95-300 (ec)	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.

■ Selection table for "nR" type

Type/Ordering code	Lamp power (W)	Weight (kg)	Type/Ordering code	Lamp power (W)	Weight (kg)
HRND95-40 (nR)	40	3.50	HRND95-160 (nR)	160	9.50
HRND95-60 (nR)	60	4.00	HRND95-200 (nR)	200	10.00
HRND95-80 (nR)	80	6.00	HRND95-240 (nR)	240	16.50
HRND95-120 (nR)	120	6.50	HRND95-300 (nR)	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; 21&22

LED Light Fittings

HRND95 Series Explosion-proof LED Lightings

Technical data		
Explosion-proof LED Lightings HRND95-□□		
Explosion protection	"ec" type	"nR" type
Global (IECEx)	IECEx NEP 24.0037X	IECEx EUT 18.0002X
Gas and dust	Ex ec mc IIC T□ ¹⁾ Gc	Ex nR IIC T□ ²⁾ Gc
	Ex tb IIIC T□ ¹⁾ Db	Ex tc IIIC T□ ²⁾ Dc
Europe (ATEX)	ATEX (applied for)	EPTI 18 ATEX 0346 X
Gas and dust	⊕ II 3 G Ex ec mc IIC T□ ¹⁾ Gc	⊕ II 3 G Ex nR IIC T□ ²⁾ Gc
	⊕ II 2 D Ex tb IIIC T□ ¹⁾ Db	⊕ II 3 D Ex tc IIIC T□ ²⁾ Dc
	¹⁾ See Selection Table 1	²⁾ See Selection Table 2
Certificates	IECEx; ATEX	IECEx; ATEX
Conformity to standards	EN 60079-0, EN 60079-7, EN 60079-18, EN 60079-31 IEC 60079-0, IEC 60079-7, IEC 60079-18, IEC 60079-31	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	110~277V AC 50/60Hz, 130~250V DC	100~277V AC 50/60Hz, 130~250V DC
Degree of protection	IP66	
Ambient temperature	-40℃~+58℃(+40℃)	-40℃~+55℃(+40℃)
Terminal	3 x 1.5~4mm ² (L+N+PE)	
Cable entries	1x M20 x 1.5 cable gland (DQM-I Ex e)	



Selection table 1

Rated power(W)	Temperature classification			
	-40℃ ≤ Ta ≤ +40℃		-40℃ ≤ Ta ≤ +58℃	
	Gas	Dust	Gas	Dust
40, 60, 80, 120, 160, 200, 240, 300	T5	T82℃	T4	T100℃

Selection table 2

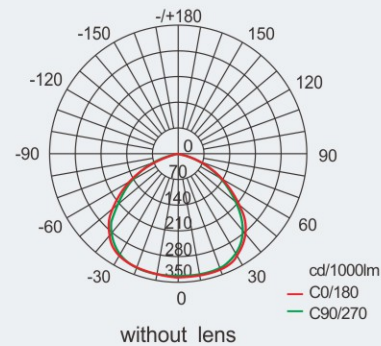
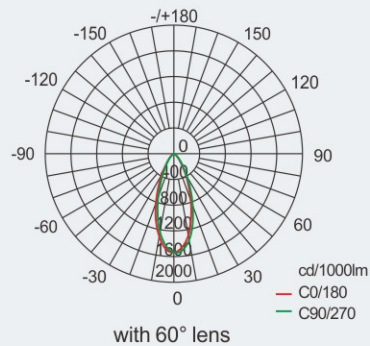
Rated power(W)	Temperature classification			
	-40℃ ≤ Ta ≤ +40℃		-40℃ ≤ Ta ≤ +55℃	
	Gas	Dust	Gas	Dust
40, 80	T6	T80℃	T6	T80℃
60, 120, 160, 200, 240, 300			T5	T95℃

LED Light Fittings

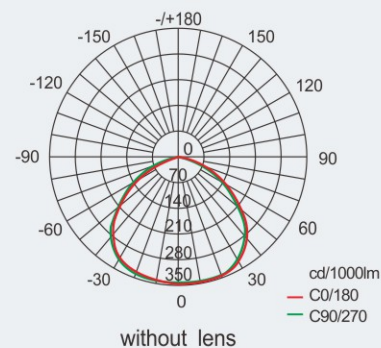
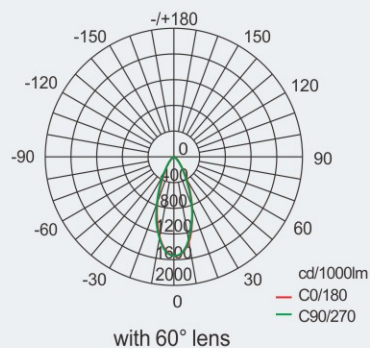
HRND95 Series Explosion-proof LED Lightings

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

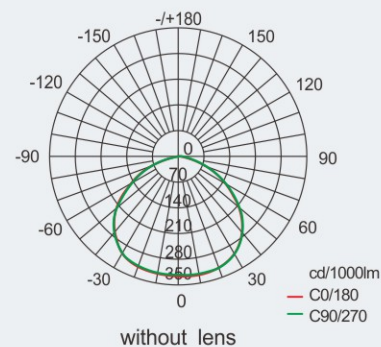
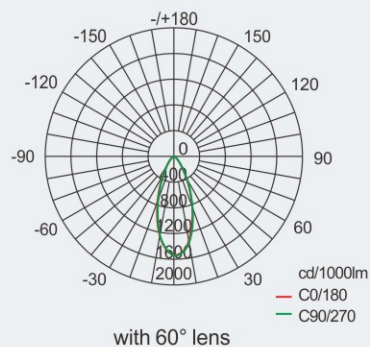
Lamp power (W)	Luminous flux	Wattage
40W	6400lm	40W
60W	8600lm	60W



Lamp power (W)	Luminous flux	Wattage
80W	12000lm	81W
120W	15000lm	122W



Lamp power (W)	Luminous flux	Wattage
160W	24000lm	160W
200W	30000lm	198W



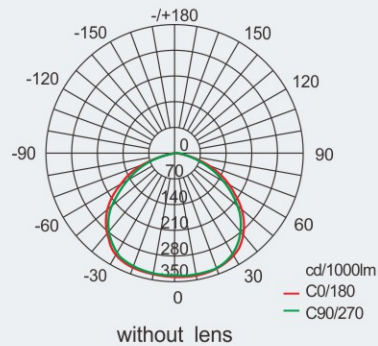
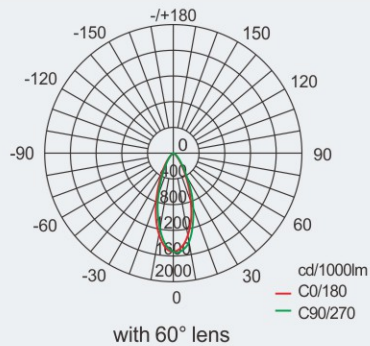
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

LED Light Fittings

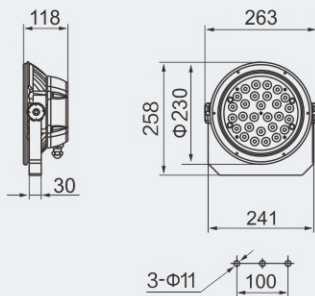
HRND95 Series Explosion-proof LED Lightings

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

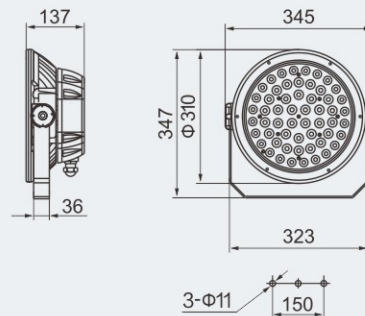
Lamp power (W)	Luminous flux	Wattage
240W	37000lm	241W
300W	46000lm	300W



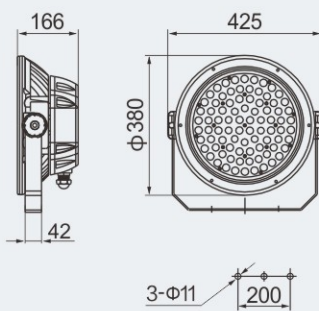
Dimension drawings (all dimensions in mm) - subject to alteration



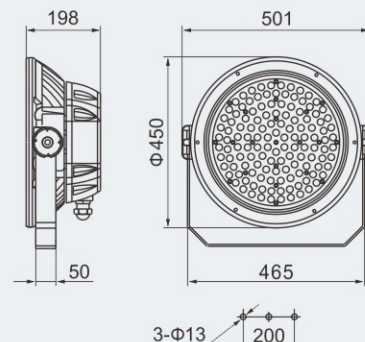
HRND95-40 / HRND95-60



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