

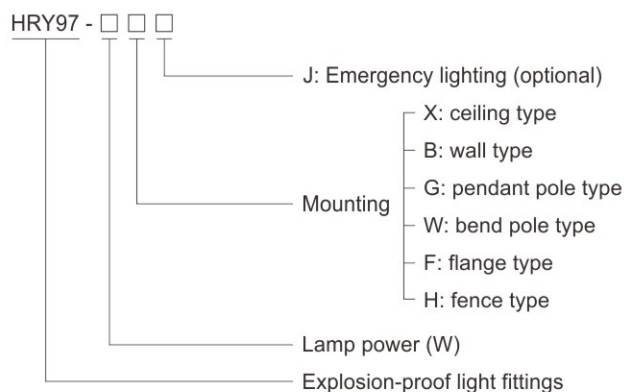
Light Fittings for Fluorescent Lamp

HRY97 Series Explosion-proof High Efficiency Energy-saving LED Lamps



- ◆ 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 B, C, D
- ◆ Three enclosure types: Type I, Type II and Type III
 - Available lamp and power
 - Type I: 20W
 - Type II: 40W
 - Type III: 60W
- ◆ Enclosure in Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021).
- ◆ Built-in LED driver, wide voltage input, CC-CV (constant current - constant voltage) output, power factor \geq 0.95.
- ◆ End of lamp life (EOL) rectification effect protection.
- ◆ The 40W lamps can be equipped with emergency device.
 - The emergency time is divided into 90min and 180min options.
 - No special instructions is 90min.

Catalogue number logic



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



Zones 1&2; 21&22

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Technical data

Explosion-proof high efficiency energy-saving LED lamps HRY97-□□□

Explosion protection	
Global (IECEX)	IECEX (applied for)
Gas and dust	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db
Europe (ATEX)	ATEX (applied for)
Gas and dust	⊕ II 2 G Ex db eb mb IIC T6 Gb ⊕ II 2 D Ex tb IIIC T80°C Db
Certificates	IECEX; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-18, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-18, IEC 60079-31
Material	
Enclosure	Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)
Diffuser	Polycarbonate, stands 4J impact
LED driver	Wide voltage input, CC-CV (constant current - constant voltage) output, 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 (supplied with the light fittings)
Lamp power (W)	20W, 40W, 60W
Colour rendering index (Ra)	≥ 80
LED Colour temperature (CCT)	5000K Note: nature white is available in general. Warm white or cool white is optional, please specify when ordering.
Rated voltage	100-277V AC 50/60Hz 130~250V DC
Earthing protection	M4 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-40°C~+60°C
Terminal	3 x 1.5~4mm ² (L+N+PE)
Cable entries	1 x M25 x 1.5 plugs+1 x M25 x 1.5 cable gland (DQM-I, Stainless steel)
Emergency data	
Emergency unit	Special emergency controller and battery pile, with protection against overcharge and overdischarge
Emergency power (W)	40W x 30%
Emergency starting time	0.3s
Charging time	24h
Emergency lighting time	90min (180min is optional)



Selection table

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
HR97-20X	20	2.90	HR97-40X	40	4.70	HR97-60X	60	5.50	HR97-40XJ	40	5.70
HR97-20G	20	3.90	HR97-40G	40	5.70	HR97-60G	60	6.50	HR97-40GJ	40	6.70
HR97-20B	20	3.30	HR97-40B	40	5.10	HR97-60B	60	5.90	HR97-40BJ	40	6.10
HR97-20W	20	3.00	HR97-40W	40	4.80	HR97-60W	60	5.60	HR97-40WJ	40	5.80
HR97-20H	20	3.00	HR97-40H	40	4.80	HR97-60H	60	5.60	HR97-40HJ	40	5.80
HR97-20F	20	3.00	HR97-40F	40	4.80	HR97-60F	60	5.60	HR97-40FJ	40	5.80

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/41).

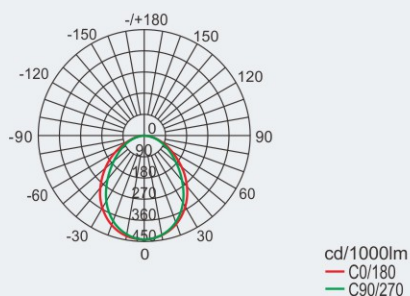
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Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5000K

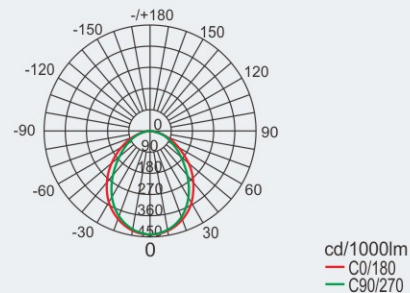
HR97-20□□

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



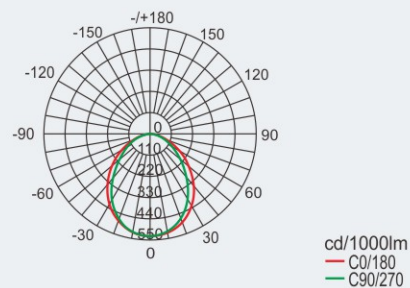
HR97-40□□

Lamp power (W)	Luminous flux	Wattage
LED 40	5300lm	40W



HR97-60□□

Lamp power (W)	Luminous flux	Wattage
LED 60	7500lm	60W



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



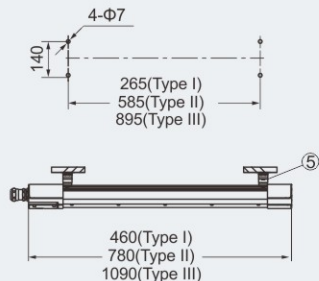
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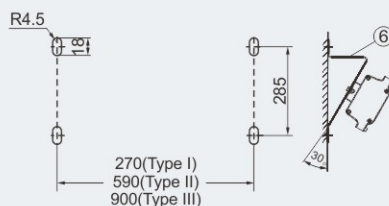
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

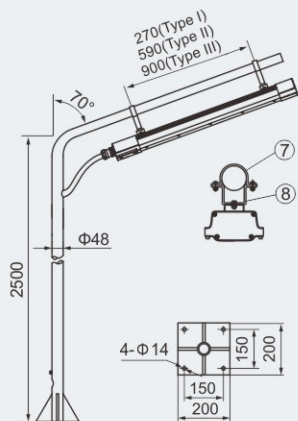
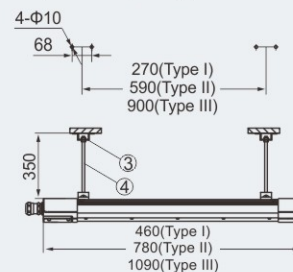
X: ceiling type



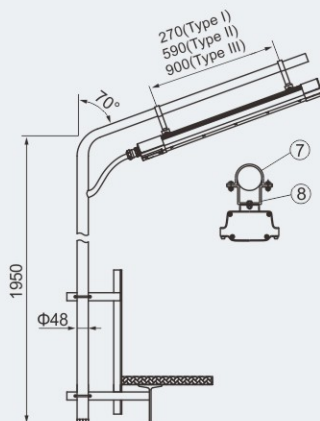
B: wall type



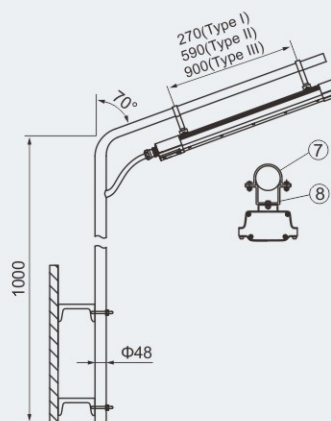
G: pendant pole type



F: flange type



H: fence type



W: bend pole type



Mounting Accessories & Spare Parts Table

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
G: pendant pole type	③.Mounting bracket	2	Stainless steel, see P2/6	51S01G1	0.04
	④.M8 Screw	2	Stainless steel, length: 350mm	51S01G2	0.12
X: ceiling type	⑤.Mounting bracket	2	Stainless steel	5136015	0.20
B: wall type	⑥.Wall bracket	2	Stainless steel, welded sheet steel	5236B02	0.25
F: flange type	⑦.G1 1/2" Pipe clamp	2	Stainless steel, see P2/7	5136014	0.04
	⑧.Mounting bracket	2	Stainless steel, see P2/7	5136012	0.04
H: fence type	⑦.G1 1/2" Pipe clamp	2	Stainless steel, see P2/7	5136014	0.04
	⑧.Mounting bracket	2	Stainless steel, see P2/7	5136012	0.04
W: bend pole type	⑦.G1 1/2" Pipe clamp	2	Stainless steel, see P2/7	5136014	0.04
	⑧.Mounting bracket	2	Stainless steel, see P2/7	5136012	0.04

Note: Accessories not in the table shall be supplied by user.