

Light Fittings for Fluorescent Lamp

HRY51-G/C LED Series Explosion-proof Pendant Lights



- ◆ 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 2, Groups A, B, C, D
- ◆ Clear polycarbonate transparent cover, high light transmittance, resistance to high energy impact and thermal fusion.
- ◆ Enclosure is formed of stainless steel.
- ◆ Built-in electronic ballast, power factor ≥ 0.95 .
- ◆ LED driver, wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95 .
- ◆ Emergency functions are available on request.

Catalogue number logic

With LED tubes:

HRY51-G/C LED □ × □ □ □

J: Emergency lighting(optional)

Mounting

- x: ceiling type
- g: pendant pole type
- b: wall type
- W: bend pole type
- f: flange type
- h: fence type
- L: pendant chain type

Lamp number

Lamp power (W)

Explosion-proof pendant light

With SMD LED:

HRY51-G/C LED □ □ □

J: Emergency lighting(optional)

Mounting

- x: ceiling type
- g: pendant pole type
- b: wall type
- W: bend pole type
- f: flange type
- h: fence type
- L: pendant chain type

Lamp power (W)

Explosion-proof pendant light

Zones 1&2; 21&22

Light Fittings for Fluorescent Lamp

HRY51-G/C LED Series Explosion-proof Pendant Lights

Technical data

Explosion-proof light fittings with LED tubes HRY51-G/C LED □×□□□

Explosion protection

Global (IECEx)

Gas and dust

IECEx CQM 25.0069X

Ex db eb IIC T□ Gb¹⁾

Ex db eb q IIC T□ Gb¹⁾

Ex tb IIIC T80°C Db

CML 20 ATEX 1296X

Europe (ATEX)

Gas and dust

Ex II 2 G Ex db eb IIC T□ Gb¹⁾

Ex II 2 G Ex db eb q IIC T□ Gb¹⁾

Ex II 2 D Ex tb IIIC T80°C Db

¹⁾ See ambient temperature

IECEx; ATEX; CU-TR; INMETRO

Certificates

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-5, EN 60079-7, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-5, IEC 60079-7, IEC 60079-31

Material

Enclosure

Stainless steel

Diffuser

Polycarbonate, stands 4J impact

Ballast

Electronic ballast, power factor ≥0.95

LED driver

Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥0.95

Exposed fastener

Stainless steel

Lamp

Lamp specification

LED tubes (supplied with the light fittings)

Lamp power (W)

9W×2, 18W×2, 14W×2, 28W×2

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

9W×2, 18W×2: 170~264V AC 50/60Hz

14W×2, 28W×2: 100~277V AC 50/60Hz, 200~250V DC

Degree of protection

IP66/IP67

Ambient temperature

Rated Power (W) Ex-mark Ambient temperature

9×2□

18×2□

Ex II 2 G Ex db eb IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db

-40°C~+57°C

Ex II 2 G Ex db eb IIC T5 Gb

Ex II 2 D Ex tb IIIC T80°C Db

-40°C~+58°C

14×2□

28×2□

Ex II 2 G Ex db eb q IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db

-40°C~+53°C

Ex II 2 G Ex db eb q IIC T5 Gb

Ex II 2 D Ex tb IIIC T80°C Db

-40°C~+58°C

14×2□J

28×2□J

Ex II 2 G Ex db eb q IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db

-40°C~+48°C

Ex II 2 G Ex db eb q IIC T5 Gb

Ex II 2 D Ex tb IIIC T80°C Db

-40°C~+53°C

Terminal

3×1.5~4mm² (L+N+PE)

Cable entries

4×Φ25.5: 4×M25×1.5 Plugs (Stainless steel)

Emergency data

Emergency unit

Special emergency controller and battery pile, with protection against over-charge and overdischarge

Emergency power (W)

14W×30%, 28W×30%

Emergency starting time

0.3s

Charging time

24h

Emergency lighting time

120min (180min is optional)



Light Fittings for Fluorescent Lamp

HRY51-G/C LED Series Explosion-proof Pendant Lights

Technical data

Explosion-proof light fittings with SMD LED HRY51-G/C LED □□□

Explosion protection

Global (IECEX)	IECEX PCET 24.0013X
Gas and dust	Ex db eb mb IIC T6/T5/T4 Gb ¹⁾ Ex tb IIIC T80°C Db
Europe (ATEX)	TÜV CY 25 ATEX 0207341X
Gas and dust	Ex II 2 G Ex db eb mb IIC T6/T5/T4 Gb ¹⁾ Ex II 2 D Ex tb IIIC T80°C Db

¹⁾ See Selection Table

Certificates

IECEX; ATEX

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	Stainless steel
Diffuser	Polycarbonate, stands 4J impact
Ballast	Electronic ballast, power factor ≥0.95
LED driver	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥0.95
Exposed fastener	Stainless steel

Lamp

Lamp specification	SMD LED (supplied with the light fittings)
Lamp power (W)	20W, 40W, 60W, 80W
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

Degree of protection

IP66/IP67

Ambient temperature

-40°C~+58°C(+40°C)

Terminal

3×1.5~4mm² (L+N+PE)

Cable entries

4×Φ25.5: 4×M25×1.5 Plugs (Stainless steel)

Emergency data

Emergency unit	Special emergency controller and battery pile, with protection against over-charge and overdischarge
Emergency power (W)	20W×70%, 40W×35%, 60W×23%
Emergency starting time	0.3s
Charging time	24h
Emergency lighting time	90min (180min is optional)

Selection table

Rated power(W)	Temperature classification			
	-40°C≤Ta≤+40°C		-40°C≤Ta≤+58°C	
	Gas	Dust	Gas	Dust
20, 40, 60	T6	T80°C	T5	T80°C
80	T5	T80°C	T4	T80°C



Light Fittings for Fluorescent Lamp

HR51-G/C LED Series Explosion-proof Pendant Lights

Selection table for explosion-proof light fittings with LED tubes

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
HR51-G/C LED 9×2x	9×2	7.20	HR51-G/C LED 14×2x	14×2	8.50	HR51-G/C LED 14×2xJ	14×2	8.80
HR51-G/C LED 9×2g	9×2	7.35	HR51-G/C LED 14×2g	14×2	8.65	HR51-G/C LED 14×2gJ	14×2	8.95
HR51-G/C LED 9×2b	9×2	7.55	HR51-G/C LED 14×2b	14×2	8.85	HR51-G/C LED 14×2bJ	14×2	9.15
HR51-G/C LED 9×2W	9×2	7.20	HR51-G/C LED 14×2W	14×2	8.50	HR51-G/C LED 14×2WJ	14×2	8.80
HR51-G/C LED 9×2h	9×2	7.20	HR51-G/C LED 14×2h	14×2	8.50	HR51-G/C LED 14×2hJ	14×2	8.80
HR51-G/C LED 9×2f	9×2	7.20	HR51-G/C LED 14×2f	14×2	8.50	HR51-G/C LED 14×2fJ	14×2	8.80
HR51-G/C LED 9×2L	9×2	7.50	HR51-G/C LED 14×2L	14×2	8.80	HR51-G/C LED 14×2LJ	14×2	9.10
HR51-G/C LED 18×2x	18×2	11.20	HR51-G/C LED 28×2x	28×2	12.50	HR51-G/C LED 28×2xJ	28×2	12.80
HR51-G/C LED 18×2g	18×2	11.35	HR51-G/C LED 28×2g	28×2	12.65	HR51-G/C LED 28×2gJ	28×2	12.95
HR51-G/C LED 18×2b	18×2	11.55	HR51-G/C LED 28×2b	28×2	12.85	HR51-G/C LED 28×2bJ	28×2	13.15
HR51-G/C LED 18×2W	18×2	11.20	HR51-G/C LED 28×2W	28×2	12.50	HR51-G/C LED 28×2WJ	28×2	12.80
HR51-G/C LED 18×2h	18×2	11.20	HR51-G/C LED 28×2h	28×2	12.50	HR51-G/C LED 28×2hJ	28×2	12.80
HR51-G/C LED 18×2f	18×2	11.20	HR51-G/C LED 28×2f	28×2	12.50	HR51-G/C LED 28×2fJ	28×2	12.80
HR51-G/C LED 18×2L	18×2	11.50	HR51-G/C LED 28×2L	28×2	12.80	HR51-G/C LED 28×2LJ	28×2	13.10

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/49).

Selection table for explosion-proof light fittings with SMD LED

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
HR51-G/C LED 20x	20	4.55	HR51-G/C LED 40x	40	7.10	HR51-G/C LED 60x	60	7.40
HR51-G/C LED 20g	20	4.70	HR51-G/C LED 40g	40	7.30	HR51-G/C LED 60g	60	7.60
HR51-G/C LED 20b	20	4.90	HR51-G/C LED 40b	40	7.50	HR51-G/C LED 60b	60	7.80
HR51-G/C LED 20W	20	4.55	HR51-G/C LED 40W	40	7.10	HR51-G/C LED 60W	60	7.40
HR51-G/C LED 20h	20	4.55	HR51-G/C LED 40h	40	7.10	HR51-G/C LED 60h	60	7.40
HR51-G/C LED 20f	20	4.55	HR51-G/C LED 40f	40	7.10	HR51-G/C LED 60f	60	7.40
HR51-G/C LED 20L	20	4.85	HR51-G/C LED 40L	40	7.50	HR51-G/C LED 60LJ	60	7.70
HR51-G/C LED 20xJ	20	5.90	HR51-G/C LED 40xJ	40	8.40	HR51-G/C LED 60xJ	60	8.40
HR51-G/C LED 20gJ	20	6.00	HR51-G/C LED 40gJ	40	8.60	HR51-G/C LED 60gJ	60	8.50
HR51-G/C LED 20bJ	20	6.20	HR51-G/C LED 40bJ	40	8.80	HR51-G/C LED 60bJ	60	8.70
HR51-G/C LED 20WJ	20	5.90	HR51-G/C LED 40WJ	40	8.50	HR51-G/C LED 60WJ	60	8.40
HR51-G/C LED 20hJ	20	5.90	HR51-G/C LED 40hJ	40	8.50	HR51-G/C LED 60hJ	60	8.40
HR51-G/C LED 20fJ	20	5.90	HR51-G/C LED 40fJ	40	8.50	HR51-G/C LED 60fJ	60	8.40
HR51-G/C LED 20LJ	20	6.20	HR51-G/C LED 40LJ	40	8.50	HR51-G/C LED 60LJ	60	8.70
HR51-G/C LED 80x	80	8.10						
HR51-G/C LED 80g	80	8.20						
HR51-G/C LED 80b	80	8.40						
HR51-G/C LED 80W	80	8.10						
HR51-G/C LED 80h	80	8.10						
HR51-G/C LED 80f	80	8.10						
HR51-G/C LED 80L	80	8.40						

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/49).



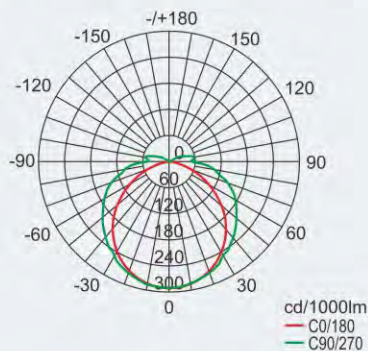
Light Fittings for Fluorescent Lamp

HRY51-G/C LED Series Explosion-proof Pendant Lights

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

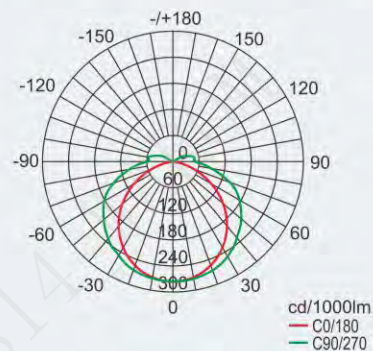
HRY51-G/C LED □×□□□

Lamp power (W)	Luminous flux	Wattage
9×2	2650lm	17.4W
14×2	3750lm	29.3W



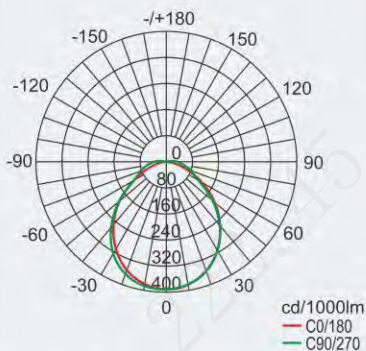
HRY51-G/C LED □×□□□

Lamp power (W)	Luminous flux	Wattage
18×2	5500lm	35.7W
28×2	7800lm	56.2W



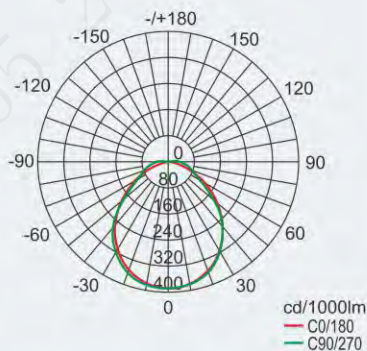
HRY51-G/C LED 20□□

Lamp power	20W
Luminous flux	2500lm
Wattage	22W



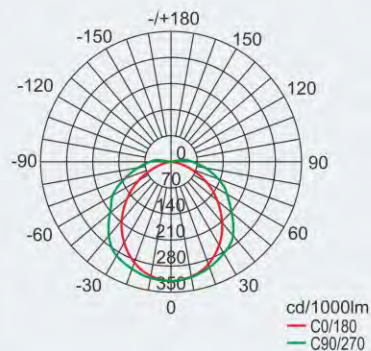
HRY51-G/C LED 40□□

Lamp power	40W
Luminous flux	5100lm
Wattage	43W



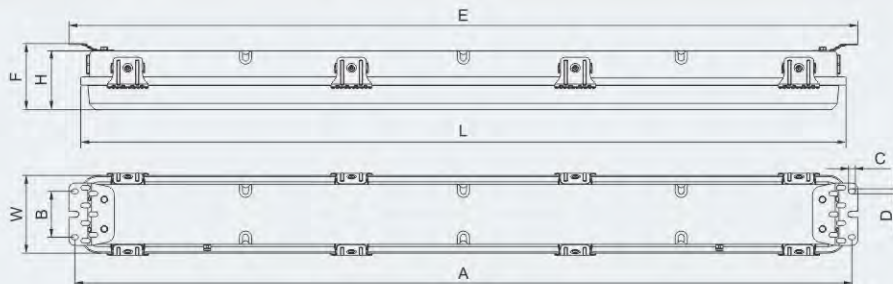
HRY51-G/C LED □□□□

Lamp power	60W	80W
Luminous flux	7000lm	9900lm
Wattage	58W	86W



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

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



Enclosure type	Rated power (W)	L	W	H	A	B	C	D	E	F
Type I	9×2, 14×2, 20	692	150	100	705	78	12	8.5	732	113
Type II	18×2, 28×2, 40, 60, 80	1300	132	100	1320	78	12	8.5	1340	113

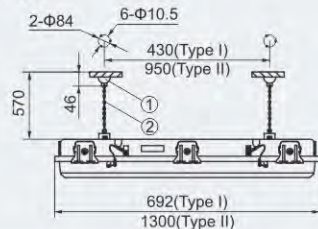
Light Fittings for Fluorescent Lamp

HRY51-G/C LED Series Explosion-proof Pendant Lights

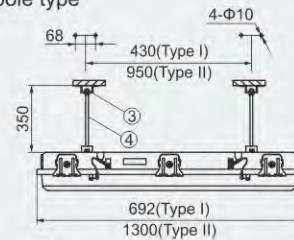
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

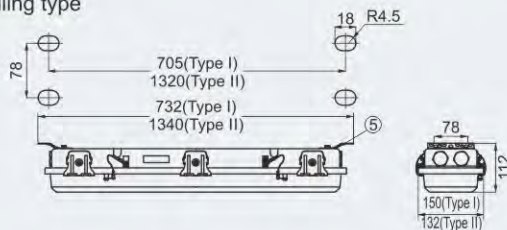
L: pendant chain type



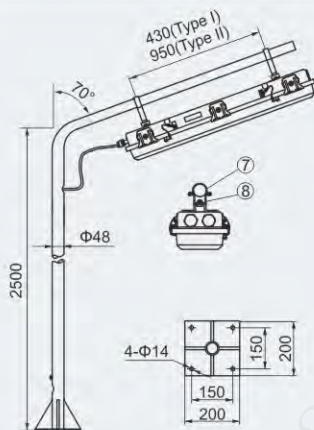
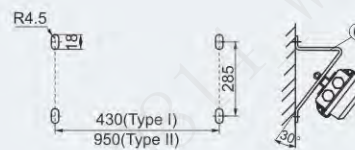
g: pendant pole type



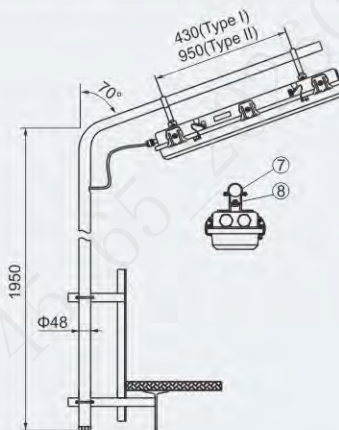
x: ceiling type



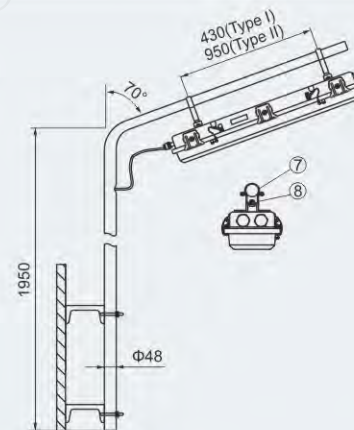
b: wall type



f: flange type



h: fence type



W: bend pole type

Mounting Accessories & Spare Parts Table

Supplied according to the mounting type

Mounting type	Name	Qty	Accessories Illustration	Ordering code	Weight (kg)
L: pendant chain type	①.Sucker	2	See P2/6	5136017	0.15
	②.Chain	2	Length: 450mm	5136016	0.08
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.