

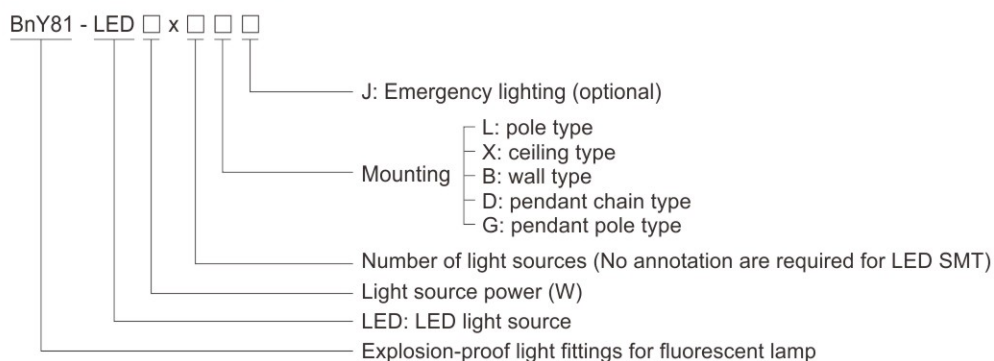
Light Fittings for Fluorescent Lamp

BnY81-LED Series Explosion-proof Light Fittings (ec type)

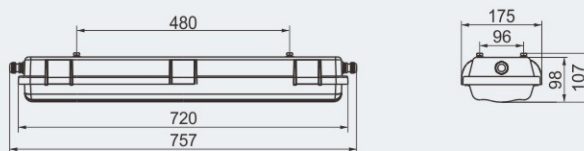


- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Two enclosure types: Type I and Type II
- ◆ Applicable lamp power:
 - LED lamp tube: 9W x 2, 14W x 2, 28W x 2
 - LED SMT: 20W, 40W, 60W
- ◆ LED light fittings: Built-in LED driver, wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95 .
- ◆ Emergency functions are available on request.

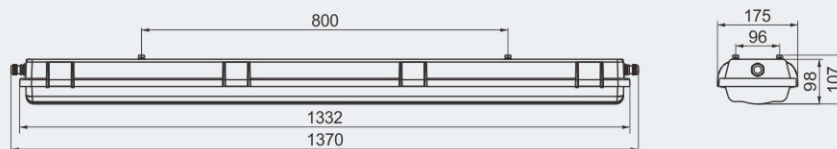
Catalogue number logic



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



Type I: BnY81-LED 9 x 2□; BnY81-LED 9 x 2□J; BnY81-LED 14 x 2□; BnY81-LED 14 x 2□J; BnY81-LED 20□; BnY81-LED 20□J; BnY81-LED 40□



Type II: BnY81-LED 28 x 2□, BnY81-LED 28 x 2□J; BnY81-LED 40□J, BnY81-LED 60□, BnY81-LED 60□J

Zones 2; 21&22

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Technical data

Explosion-proof light fittings BnY81-LED □ × □□□

Explosion protection

Global (IECEX)

Gas and dust

IECEX CNE 24.0009X

Ex ec mb IIC T5/T4 Gc¹⁾

Ex db ec mb IIC T5/T4 Gc¹⁾

Ex tb IIIC T80°C Db¹⁾

ATEX (applied for)

Europe (ATEX)

Gas and dust

Ex II 3 G Ex ec mb IIC T5/T4 Gc¹⁾

Ex II 3 G Ex db ec mb IIC T5/T4 Gc¹⁾

Ex II 2 D Ex tb IIIC T80°C Db¹⁾

¹⁾ See Selection Table

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

GRP, stands 7J impact, corrosion-proof

Diffuser

Polycarbonate, high light transmission, stands 7J 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 lamp tube, LED SMT

Lamp power (W)

LED lamp tube: 9W x 2, 14W x 2, 28W x 2

LED SMT: 20W, 40W, 60W

Rated voltage

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

Degree of protection

IP66

Ambient temperature

-40°C~+60°C(+58°C)(+40°C)

Terminal

3 x 1.5~4mm² (L+N+PE)

Mounting

Ceiling type, pendant pole type, pendant chain type, wall type, pole type

Cable entries

3 x Φ26: 2 x M25 x 1.5 cable glands (DQM-I Ex e, plastic)+1 x M25 x 1.5 plug.

Available cable outer diameter

Φ9~Φ16(mm);

Emergency data

Emergency unit

Special emergency controller and battery pack, with protection against overcharge and overdischarge

Emergency power (W)

9W x 2 x 77%, 14W x 2 x 50%, 28W x 2 x 25%

20W x 70%, 40W x 35%, 60W x 23%

Emergency starting time

0.3s

Charging time

24h

Emergency lighting time

120min (180min is optional)



Selection table

Rated power(W)	Temperature classification							
	For non-emergency type				For emergency type			
	-40°C ≤ Ta ≤ +40°C		-40°C ≤ Ta ≤ +60°C		-40°C ≤ Ta ≤ +40°C		-40°C ≤ Ta ≤ +58°C	
	Gas	Dust	Gas	Dust	Gas	Dust	Gas	Dust
9 x 2, 14 x 2, 28 x 2,	T5	T80°C	T4	T80°C	T5	T80°C	T4	T80°C
20, 40, 60	T5	T80°C	T4	T80°C	T5	T80°C	T4	T80°C

Light Fittings for Fluorescent Lamp

BnY81-LED Series Explosion-proof Light Fittings (ec type)

Selection table

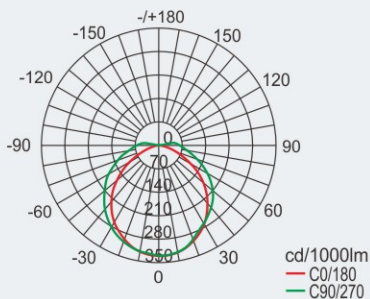
Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
BnY81-LED 9 x 2X	9 x 2	3.60	BnY81-LED 14 x 2X	14 x 2	3.60	BnY81-LED 28 x 2X	28 x 2	6.00
BnY81-LED 9 x 2G	9 x 2	4.00	BnY81-LED 14 x 2G	14 x 2	4.00	BnY81-LED 28 x 2G	28 x 2	6.40
BnY81-LED 9 x 2D	9 x 2	3.50	BnY81-LED 14 x 2D	14 x 2	3.40	BnY81-LED 28 x 2D	28 x 2	5.90
BnY81-LED 9 x 2B	9 x 2	4.00	BnY81-LED 14 x 2B	14 x 2	4.00	BnY81-LED 28 x 2B	28 x 2	6.50
BnY81-LED 9 x 2L	9 x 2	3.80	BnY81-LED 14 x 2L	14 x 2	3.80	BnY81-LED 28 x 2L	28 x 2	6.30
BnY81-LED 9 x 2XJ	9 x 2	5.50	BnY81-LED 14 x 2XJ	14 x 2	5.50	BnY81-LED 28 x 2XJ	28 x 2	7.60
BnY81-LED 9 x 2GJ	9 x 2	5.50	BnY81-LED 14 x 2GJ	14 x 2	5.80	BnY81-LED 28 x 2GJ	28 x 2	8.00
BnY81-LED 9 x 2DJ	9 x 2	5.30	BnY81-LED 14 x 2DJ	14 x 2	5.30	BnY81-LED 28 x 2DJ	28 x 2	7.40
BnY81-LED 9 x 2BJ	9 x 2	5.90	BnY81-LED 14 x 2BJ	14 x 2	5.90	BnY81-LED 28 x 2BJ	28 x 2	8.00
BnY81-LED 9 x 2LJ	9 x 2	5.60	BnY81-LED 14 x 2LJ	14 x 2	5.60	BnY81-LED 28 x 2LJ	28 x 2	7.80
BnY81-LED 20X	20	3.50	BnY81-LED 40X	40	4.10	BnY81-LED 60X	60	6.20
BnY81-LED 20G	20	3.90	BnY81-LED 40G	40	4.50	BnY81-LED 60G	60	6.50
BnY81-LED 20D	20	3.30	BnY81-LED 40D	40	3.90	BnY81-LED 60D	60	6.00
BnY81-LED 20B	20	4.00	BnY81-LED 40B	40	4.50	BnY81-LED 60B	60	6.60
BnY81-LED 20L	20	3.70	BnY81-LED 40L	40	4.30	BnY81-LED 60L	60	6.30
BnY81-LED 20XJ	20	5.30	BnY81-LED 40XJ	40	7.80	BnY81-LED 60XJ	60	7.80
BnY81-LED 20GJ	20	5.70	BnY81-LED 40GJ	40	8.10	BnY81-LED 60GJ	60	8.10
BnY81-LED 20DJ	20	5.20	BnY81-LED 40DJ	40	7.60	BnY81-LED 60DJ	60	7.60
BnY81-LED 20BJ	20	5.80	BnY81-LED 40BJ	40	8.20	BnY81-LED 60BJ	60	8.20
BnY81-LED 20LJ	20	5.50	BnY81-LED 40LJ	40	7.90	BnY81-LED 60LJ	60	7.90

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

Photometric data

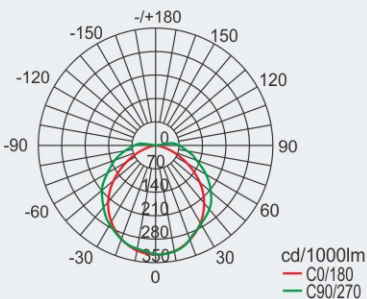
BnY81-LED 9x2□

Lamp power (W)	9 x 2
Rated luminous flux	2300lm
Wattage	17.5W



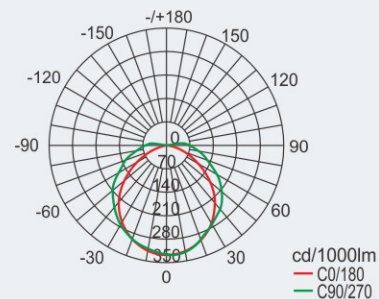
BnY81-LED 14x2□

Lamp power (W)	14 x 2
Rated luminous flux	3100lm
Wattage	28.5W



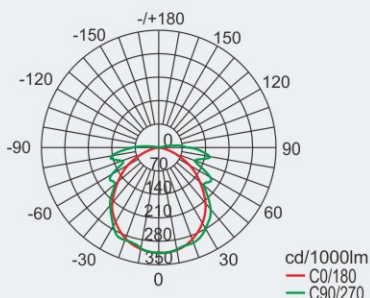
BnY81-LED 28x2□

Lamp power (W)	28 x 2
Rated luminous flux	6600lm
Wattage	58W



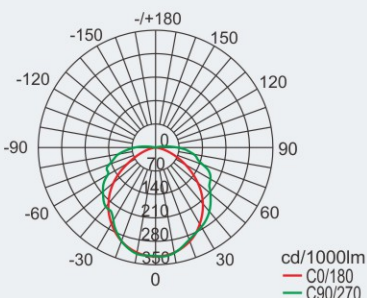
BnY81-LED 20□

Lamp power (W)	20
Rated luminous flux	2900lm
Wattage	22W



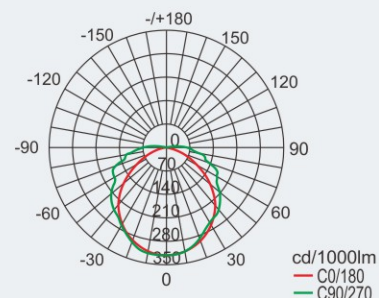
BnY81-LED 40□

Lamp power (W)	40
Rated luminous flux	5200lm
Wattage	43W



BnY81-LED 60□

Lamp power (W)	60
Rated luminous flux	7000lm
Wattage	61W



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



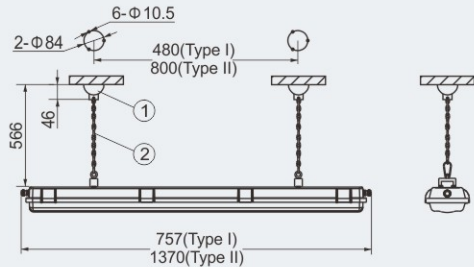
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BnY81-LED Series Explosion-proof Light Fittings (ec type)

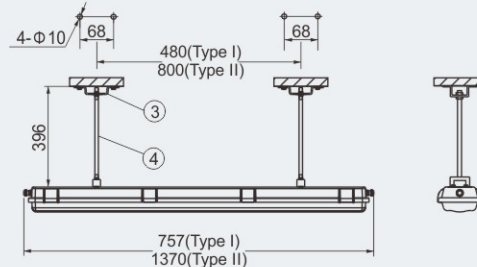
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

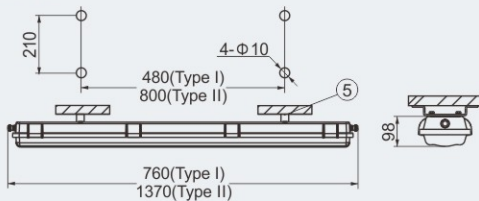
D: pendant chain type



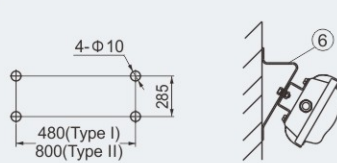
G: pendant pole type



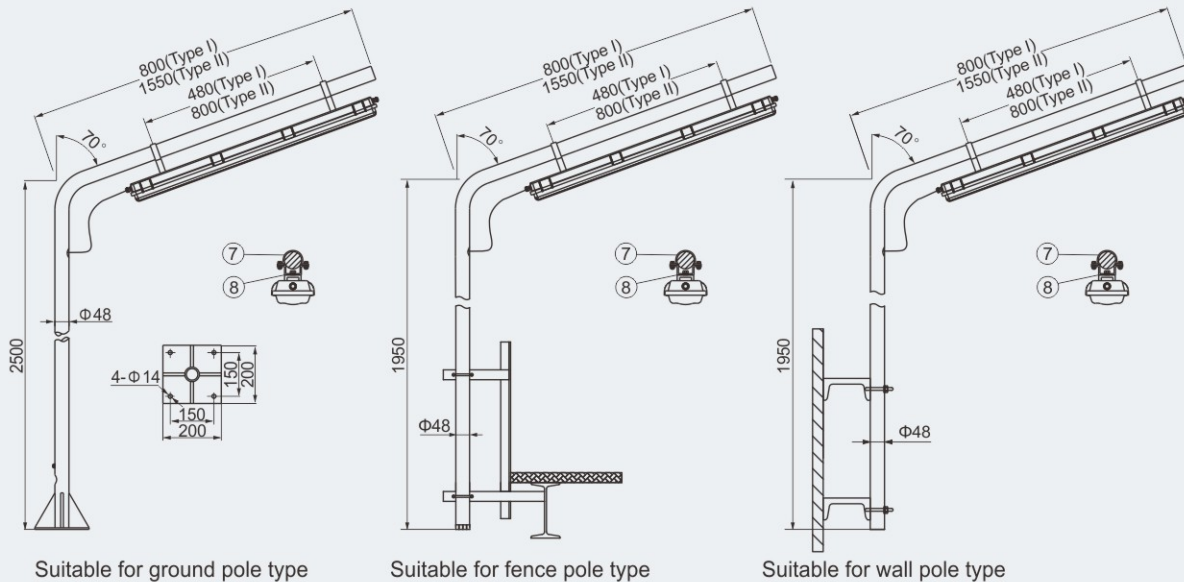
X: ceiling type



B: wall type



L: pole type (the pole is provided by user)



Suitable for ground pole type

Suitable for fence pole type

Suitable for wall pole type



Mounting Accessories & Spare Parts Table

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
D: 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, see P2/7	5136015	0.20
B: wall type	⑥.Wall bracket	2	Stainless steel, welded sheet steel	5236B02	0.25
L: 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.