

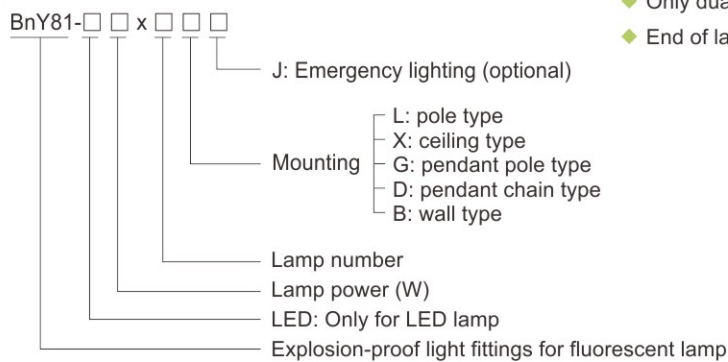
Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

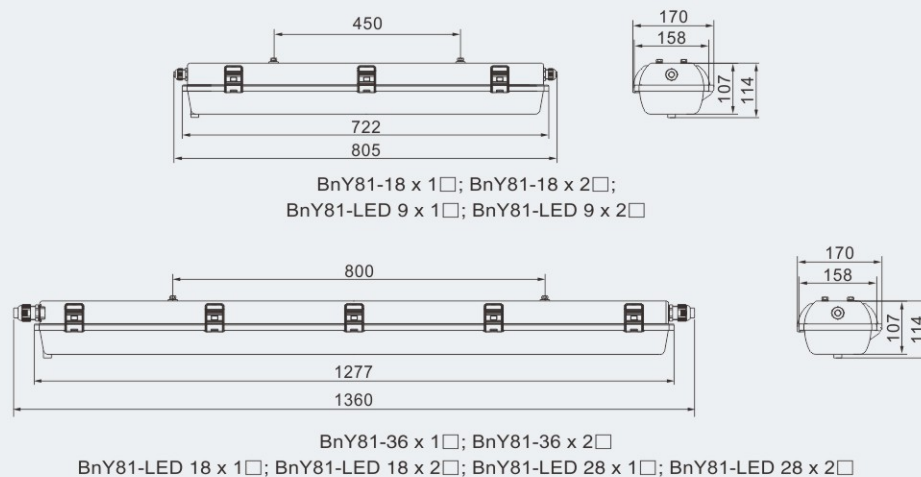


- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Two enclosure types: Type I and Type II
- ◆ Applicable lamp power:
 - Fluorescent lamps: 18W x 1, 36W x 1
 - 18W x 2, 36W x 2
 - LED lamps: 9W (10W) x 1, 18W(19W) x 1, 28W(25W) x 1
 - 9W(10W) x 2, 18W(19W) x 2, 28W(25W) x 2
- ◆ Built-in electronic ballast, wide voltage input, rapid starting, stable performance, power factor ≥ 0.95 .
- ◆ LED light fittings: Built-in LED driver, wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95 .
- ◆ Only dual tube light fittings have emergency lighting function.
- ◆ End of lamp life (EOL) rectification effect protection.

Catalogue number logic



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



Zones 2; 21&22

Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof light fittings for fluorescent lamp BnY81-□ × □□□

Explosion protection

Global (IECEX)

Gas and dust

IECEX CQM 12.0046X

Ex nA IIC T4 Gc

Ex t IIIC T80°C Db IP66

Europe (ATEX)

Gas and dust

LCIE 12 ATEX 1009X (gas); LCIE 12 ATEX 3019X (dust)

Ex II 3 G Ex nA IIC T4 Gc

Ex II 2 D Ex t IIIC T80°C Db IP66

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

Polycarbonate, stands 7J impact, corrosion-proof

Diffuser

Polycarbonate, high light transmission, stands 7J impact, corrosion-proof

Ballast

Electronic ballast

Exposed fastener

Stainless steel

Lamp

Lamp specification

T8 tube (supplied with the light fittings)

Lamp power (W)

18W×1

18W×2

36W×1

36W×2

Rated voltage

100~300V AC 50/60Hz

Degree of protection

IP66, IP67(optional)

Ambient temperature

-20°C~+55°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

2 x Φ26; 2 x M25 x 1.5 cable glands (DQM-I Ex e, plastic).

Available cable outer diameter

Φ9~Φ16(mm);

Emergency data

Emergency unit

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

Emergency power (W)

36W x 30%

Emergency starting time

0.3s

Charging time

24h

Emergency lighting time

120min (180min is optional)



Selection table

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
BnY81-18 x 1X	18 x 1	2.25	BnY81-36 x 1X	36 x 1	3.55
BnY81-18 x 1G	18 x 1	2.45	BnY81-36 x 1G	36 x 1	3.75
BnY81-18 x 1D	18 x 1	2.60	BnY81-36 x 1D	36 x 1	3.90
BnY81-18 x 1B	18 x 1	2.60	BnY81-36 x 1B	36 x 1	3.90
BnY81-18 x 1L	18 x 1	2.30	BnY81-36 x 1L	36 x 1	3.60
BnY81-18 x 2X	18 x 2	2.50	BnY81-36 x 2X	36 x 2	3.70
BnY81-18 x 2G	18 x 2	2.70	BnY81-36 x 2G	36 x 2	4.10
BnY81-18 x 2D	18 x 2	2.85	BnY81-36 x 2D	36 x 2	4.25
BnY81-18 x 2B	18 x 2	2.85	BnY81-36 x 2B	36 x 2	4.25
BnY81-18 x 2L	18 x 2	2.55	BnY81-36 x 2L	36 x 2	3.95
			BnY81-36 x 2XJ	36 x 2	4.90
			BnY81-36 x 2GJ	36 x 2	5.15
			BnY81-36 x 2DJ	36 x 2	5.15
			BnY81-36 x 2BJ	36 x 2	5.25
			BnY81-36 x 2LJ	36 x 2	5.00

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/43).

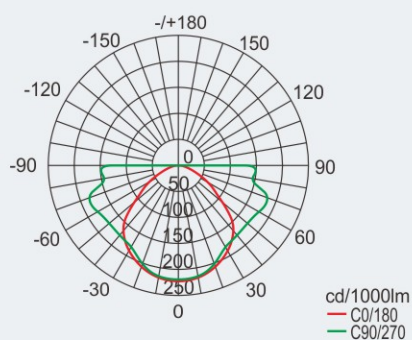
Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

Photometric data

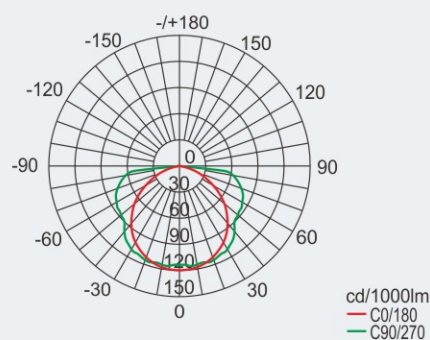
BnY81-18x1□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
18 x 1	1300lm	70%



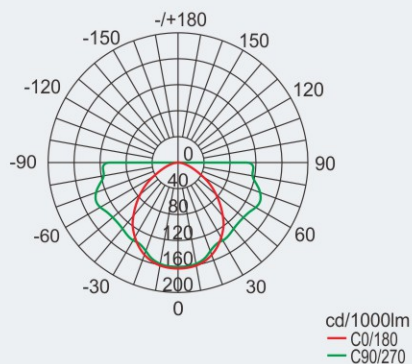
BnY81-18x2□□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
18 x 2	2600lm	65%



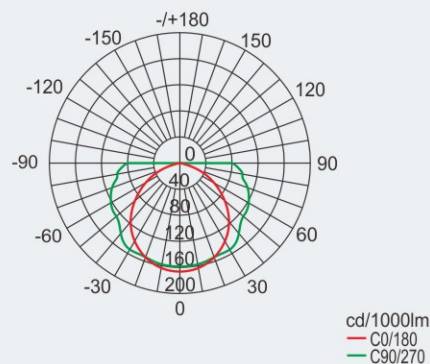
BnY81-36x1□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
36 x 1	3250lm	65%



BnY81-36x2□□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
36 x 2	6500lm	65%



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

Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof light fittings for fluorescent lamp BnY81-LED □ × □ □ □

Explosion protection

Global (IECEX)
Gas and dust

IECEX CQM 12.0046X
Ex nA IIC T4 Gc
Ex t IIIC T80°C Db IP66
LCIE 12 ATEX 1009X (gas); LCIE 12 ATEX 3019X (dust)

Europe (ATEX)
Gas and dust

Ex II 3 G Ex nA IIC T4 Gc
Ex II 2 D Ex t IIIC T80°C Db IP66

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
Diffuser
Exposed fastener
LED driver

Polycarbonate, stands 7J impact, corrosion-proof
Polycarbonate, high light transmission, stands 7J impact, corrosion-proof
Stainless steel
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.

Lamp

Lamp specification
Lamp power (W)
Colour rendering index (Ra)
Colour temperature (CCT)

LED module (supplied with the light fittings)
9W(10W)×1, 9W(10W)×2, 18W(19W)×1, 18W(19W)×2, 28W(25W)×1, 28W(25W)×2
≥ 80
5000K
Note: nature white is available in general. Warm white or cool white is optional, please specify when ordering.

Rated voltage

110~264V AC 50/60Hz

Degree of protection

IP66, IP67(optional)

Ambient temperature

-20°C~+55°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

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

Available cable outer diameter

Φ9~Φ16(mm);

Emergency data

Emergency unit

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

Emergency power (W)
Emergency starting time
Charging time
Emergency lighting time

18W x 30%, 28W x 30%
0.3s
24h
120min (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)
BnY81-LED 9 x 1X	9 x 1	2.15	BnY81-LED 18 x 1X	18 x 1	3.60	BnY81-LED 28 x 1X	28 x 1	3.80
BnY81-LED 9 x 1G	9 x 1	2.25	BnY81-LED 18 x 1G	18 x 1	3.80	BnY81-LED 28 x 1G	28 x 1	4.00
BnY81-LED 9 x 1D	9 x 1	2.40	BnY81-LED 18 x 1D	18 x 1	3.95	BnY81-LED 28 x 1D	28 x 1	4.20
BnY81-LED 9 x 1B	9 x 1	2.40	BnY81-LED 18 x 1B	18 x 1	3.95	BnY81-LED 28 x 1B	28 x 1	4.20
BnY81-LED 9 x 1L	9 x 1	2.20	BnY81-LED 18 x 1L	18 x 1	3.65	BnY81-LED 28 x 1L	28 x 1	3.90
BnY81-LED 9 x 2X	9 x 2	2.35	BnY81-LED 18 x 2X	18 x 2	3.95	BnY81-LED 28 x 2X	28 x 2	4.95
BnY81-LED 9 x 2G	9 x 2	2.55	BnY81-LED 18 x 2G	18 x 2	4.15	BnY81-LED 28 x 2G	28 x 2	5.15
BnY81-LED 9 x 2D	9 x 2	2.70	BnY81-LED 18 x 2D	18 x 2	4.30	BnY81-LED 28 x 2D	28 x 2	5.25
BnY81-LED 9 x 2B	9 x 2	2.70	BnY81-LED 18 x 2B	18 x 2	4.30	BnY81-LED 28 x 2B	28 x 2	5.30
BnY81-LED 9 x 2L	9 x 2	2.40	BnY81-LED 18 x 2L	18 x 2	4.00	BnY81-LED 28 x 2L	28 x 2	5.00
			BnY81-LED 18 x 2XJ	18 x 2	4.45	BnY81-LED 28 x 2XJ	28 x 2	5.40
			BnY81-LED 18 x 2GJ	18 x 2	4.65	BnY81-LED 28 x 2GJ	28 x 2	5.60
			BnY81-LED 18 x 2DJ	18 x 2	4.80	BnY81-LED 28 x 2DJ	28 x 2	5.75
			BnY81-LED 18 x 2BJ	18 x 2	4.80	BnY81-LED 28 x 2BJ	28 x 2	5.80
			BnY81-LED 18 x 2LJ	18 x 2	5.40	BnY81-LED 28 x 2LJ	28 x 2	5.45

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/43).

Light Fittings for Fluorescent Lamp

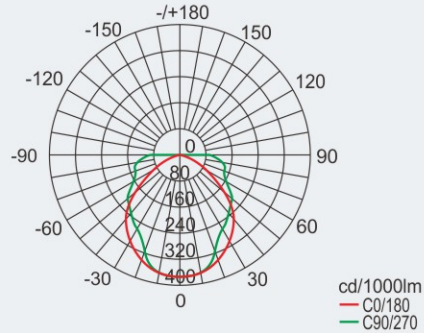
BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

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

BnY81-LED 9x1□

Lamp power (W)	Luminous flux	Wattage
9 x 1	920lm	9W

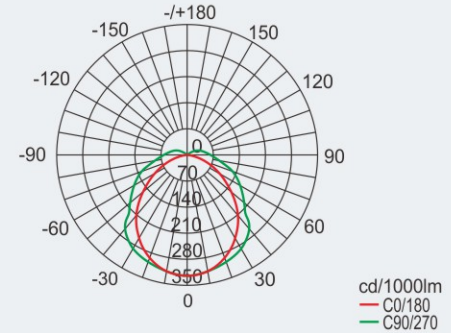
Rated luminous flux (Lamp tube) 9Wx1: 1080lm



BnY81-LED 9x2□

Lamp power (W)	Luminous flux	Wattage
9 x 2	1900lm	18.5W

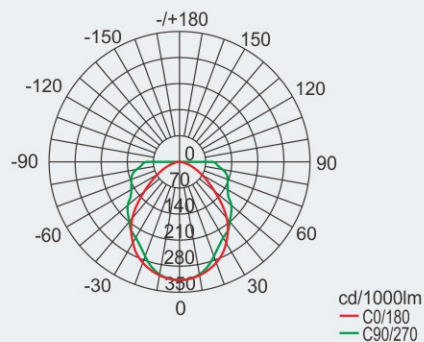
Rated luminous flux (Lamp tube) 9Wx2: 2160lm



BnY81-LED 18x1□

Lamp power (W)	Luminous flux	Wattage
18 x 1	1890lm	18W

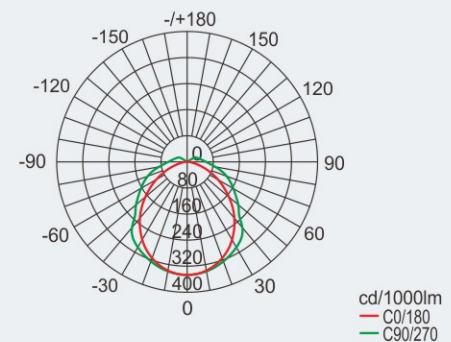
Rated luminous flux (Lamp tube) 18Wx1: 2160lm



BnY81-LED 18x2□

Lamp power (W)	Luminous flux	Wattage
18 x 2	3835lm	36.5W

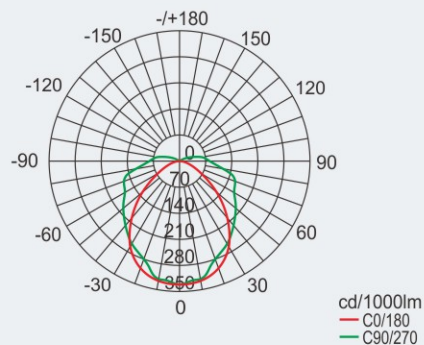
Rated luminous flux (Lamp tube) 18Wx2: 4320lm



BnY81-LED 28x1□

Lamp power (W)	Luminous flux	Wattage
28 x 1	2885lm	28W

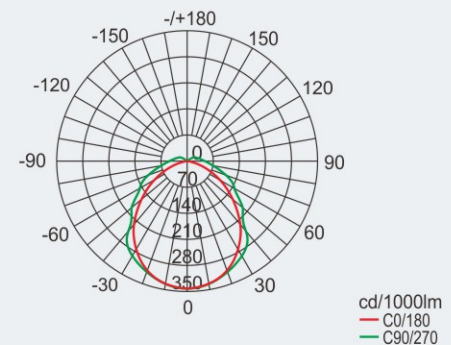
Rated luminous flux (Lamp tube) 28Wx1: 3360lm



BnY81-LED 28x2□

Lamp power (W)	Luminous flux	Wattage
28 x 2	5825lm	56W

Rated luminous flux (Lamp tube) 28Wx2: 6720lm



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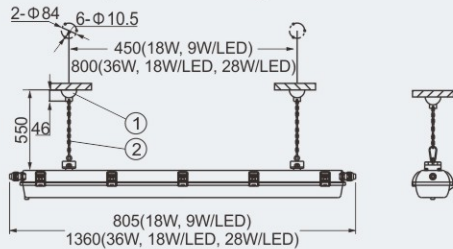
Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

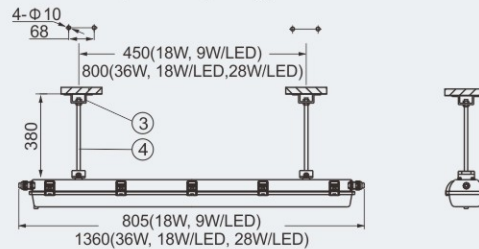
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

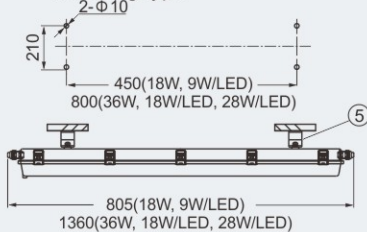
D: pendant chain type



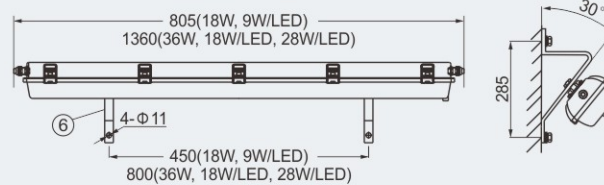
G: pendant pole type



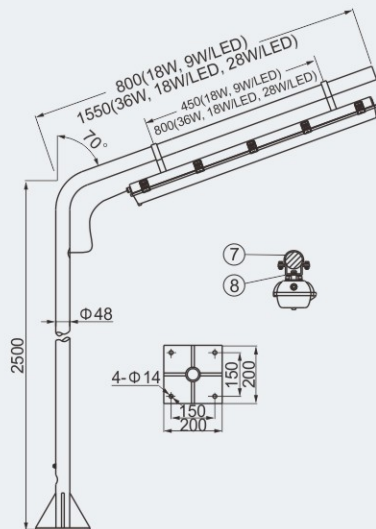
X: ceiling type



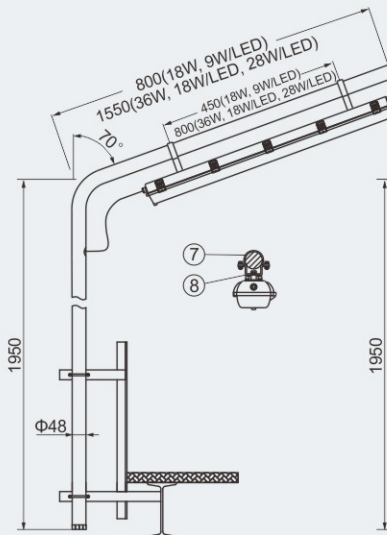
B: wall type



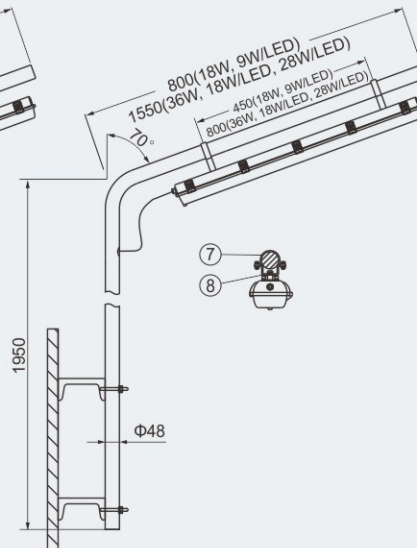
L: pole type (the pole is provided by user)



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.