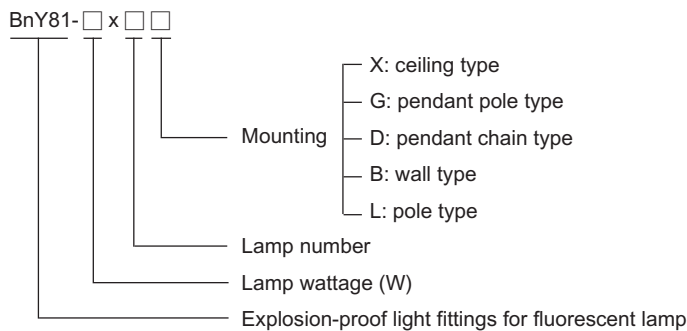




## Light Fittings for Fluorescent Lamp BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 2
  - Zone 21 and Zone 22
- ◆ Six enclosure types:
  - Single tube: 18W x 1, 36W x 1, 58W x 1
  - Dual tube: 18W x 2, 36W x 2, 58W x 2
- ◆ Applicable lamp wattage :
  - 18W x 1, 18W x 2, 36W x 1, 36W x 2, 58W x 1, 58W x 2
- ◆ Electronic ballast, wide voltage range, rapid starting, stable performance, power factor  $\geq 0.95$ .

### Catalogue number logic



### Selection table

Type/ Ordering code	Lamp wattage (W)	Weight (kg)	Type/ Ordering code	Lamp wattage (W)	Weight (kg)	Type/ Ordering code	Lamp wattage (W)	Weight (kg)
BnY81-18 x 1X	18 x 1	2.70	BnY81-36 x 1X	36 x 1	3.90	BnY81-58 x 1X	58 x 1	4.60
BnY81-18 x 1G	18 x 1	2.50	BnY81-36 x 1G	36 x 1	4.00	BnY81-58 x 1G	58 x 1	4.80
BnY81-18 x 1D	18 x 1	2.80	BnY81-36 x 1D	36 x 1	4.10	BnY81-58 x 1D	58 x 1	4.90
BnY81-18 x 1B	18 x 1	3.30	BnY81-36 x 1B	36 x 1	4.60	BnY81-58 x 1B	58 x 1	5.50
BnY81-18 x 1L	18 x 1	2.60	BnY81-36 x 1L	36 x 1	4.00	BnY81-58 x 1L	58 x 1	4.80
BnY81-18 x 2X	18 x 2	2.70	BnY81-36 x 2X	36 x 2	4.50	BnY81-58 x 2X	58 x 2	5.40
BnY81-18 x 2G	18 x 2	2.80	BnY81-36 x 2G	36 x 2	4.20	BnY81-58 x 2G	58 x 2	5.00
BnY81-18 x 2D	18 x 2	2.90	BnY81-36 x 2D	36 x 2	4.30	BnY81-58 x 2D	58 x 2	5.15
BnY81-18 x 2B	18 x 2	3.40	BnY81-36 x 2B	36 x 2	4.80	BnY81-58 x 2B	58 x 2	5.75
BnY81-18 x 2L	18 x 2	2.70	BnY81-36 x 2L	36 x 2	4.10	BnY81-58 x 2L	58 x 2	4.90

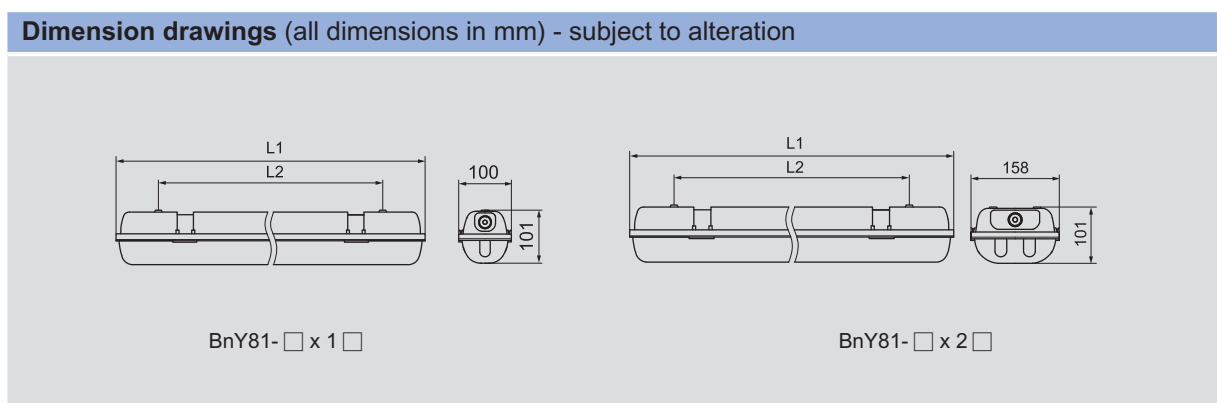
**Note:** Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/29 ).

# Zones 2; 21&22

Technical data							
<b>Explosion-proof light fittings for fluorescent lamp</b> BnY81-□ x □ □							
<b>Explosion protection</b>	<p>Gas explosion protection      ⚠ II 3 G Ex nR II T6 Gc</p> <p>Dust explosion protection      ⚠ II 2 D Ex tD A21 T80°C IP66</p>						
<b>Certificates</b>	Nemko 11 ATEX____; FM (USA); GOST.R (Russia); IECEX						
<b>Conformity to standards</b>	EN 60079-0:2009, EN 60079-15:2005, EN 61241-0:2006, EN 61241-1:2004 IEC 60079-0:2007, IEC 60079-15:2005, IEC 61241-0:2004, IEC 61241-1:2004						
<b>Material</b>							
Enclosure	Polycarbonate, stands 7J impact, corrosion-proof						
Diffuser	Polycarbonate, 90% light transmission, stands 7J impact, corrosion-proof						
Ballast	Electronic ballast						
Exposed fastener	Stainless steel						
<b>Lamp</b>							
Lamp brand	PHILIPS T8 (supplied with the light fittings)						
Lamp wattage (W)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">18W x 1</td> <td style="width: 50%;">18W x 2</td> </tr> <tr> <td>36W x 1</td> <td>36W x 2</td> </tr> <tr> <td>58W x 1</td> <td>58W x 2</td> </tr> </table>	18W x 1	18W x 2	36W x 1	36W x 2	58W x 1	58W x 2
18W x 1	18W x 2						
36W x 1	36W x 2						
58W x 1	58W x 2						
<b>Rated voltage</b>	220 ~ 240V AC 50/60Hz.						
<b>Degree of protection</b>	IP66						
<b>Ambient temperature</b>	-20°C ~ +55°C						
<b>Terminal</b>	3 x 1.5 ~ 4mm <sup>2</sup> (L+N+PE)						
<b>Mounting</b>	Ceiling type, pendant pole type, pendant chain type, wall type, pole type						
<b>Cable entries</b>	2 x Ø21: 2 x M20 x 1.5 cable gland (DQM-I Ex e, plastic)						
<b>Available cable outer diameter</b>	Ø6 ~ Ø12 (mm)						



Dimensions					
Type	Size (mm)		Type	Size (mm)	
	L1	L2		L1	L2
BnY81-18x1 □	658	500	BnY81-18x2 □	658	500
BnY81-36x1 □	1268	1000	BnY81-36x2 □	1268	1000
BnY81-56x1 □	1568	1200	BnY81-58x2 □	1568	1200



## Light Fittings for Fluorescent Lamp BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

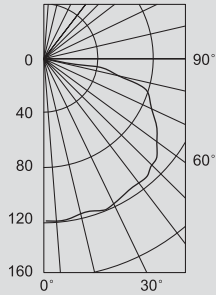
### Photometric data

#### 18W x 1 photometric data

Rated luminous flux:1050lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm



Angle	CP
0	132
5	128
10	130
15	128
20	132
25	135
30	140
35	124
40	120
45	115

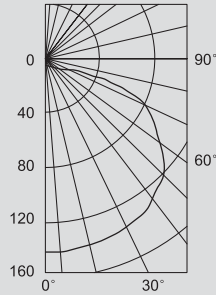
Angle	CP
50	112
55	105
60	96
65	87
70	76
75	65
80	48
85	0
90	0

#### 18W x 2 photometric data

Rated luminous flux:2100lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm



Angle	CP
0	252
5	251
10	247
15	252
20	262
25	264
30	265
35	266
40	258
45	238

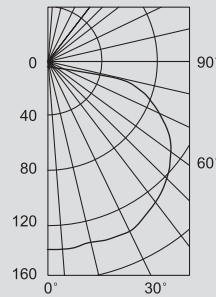
Angle	CP
50	214
55	200
60	184
65	172
70	163
75	134
80	85
85	0
90	0

#### 36W x 1 photometric data

Rated luminous flux:2500lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm



Angle	CP
0	336
5	337
10	338
15	345
20	355
25	362
30	358
35	361
40	352
45	328

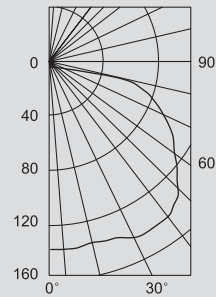
Angle	CP
50	297
55	278
60	253
65	230
70	210
75	178
80	140
85	0
90	0

#### 36W x 2 photometric data

Rated luminous flux:5000lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm



Angle	CP
0	672
5	674
10	676
15	686
20	700
25	713
30	715
35	720
40	701
45	657

Angle	CP
50	594
55	550
60	505
65	454
70	415
75	355
80	277
85	0
90	0

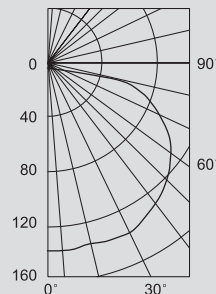


#### 58W x 1 photometric data

Rated luminous flux:4000lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm



Angle	CP
0	537
5	539
10	540
15	552
20	568
25	580
30	572
35	577
40	564
45	525

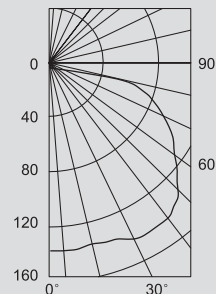
Angle	CP
50	445
55	417
60	387
65	345
70	315
75	267
80	210
85	0
90	0

#### 58W x 2 photometric data

Rated luminous flux:8000lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm



Angle	CP
0	1075
5	1078
10	1082
15	1092
20	1120
25	1140
30	1144
35	1152
40	1121
45	1052

Angle	CP
50	950
55	880
60	808
65	726
70	664
75	568
80	360
85	0
90	0

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