

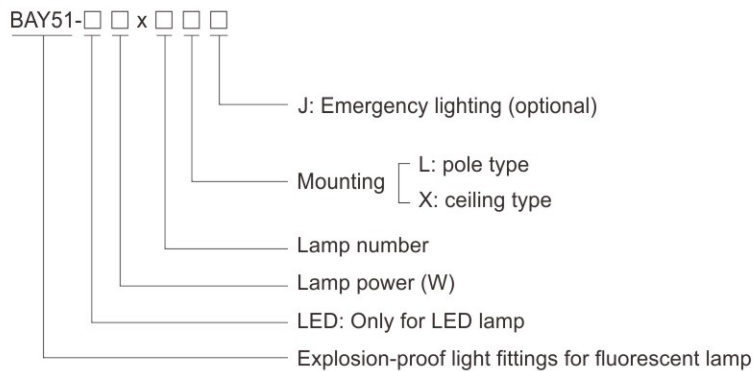
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp



- ◆ 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 A, B, C, D
- ◆ Single or dual lamp versions
- ◆ Available lamp and power
 - Fluorescent lamps: 18W x 1, 36W x 1, 58W x 1, 18W x 2, 36W x 2, 58W x 2.
 - LED lamps: 9W x 1, 9W x 2, 18W x 1, 18W x 2, 28W x 1, 28W x 2.
- ◆ The glass tube stands 4J impact.
- ◆ Enclosure in Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021).
- ◆ Built-in electronic ballast, wide voltage input, rapid starting, stable performance, power factor $\geq$ 0.95.
- ◆ 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.

Catalogue number logic



Zones 1&2; 21&22

Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof light fittings for fluorescent lamp BAY51-□ × □□

Explosion protection

Global (IECEX)

IECEX CQM 12.0042X

Gas and dust

Ex d IIC T6 Gb

Europe (ATEX)

Ex t IIIC T80°C Db IP66

Gas

LCIE 09 ATEX 3046

Ex II 2 G Ex d IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db IP66

Certificates

IECEX; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

Material

Enclosure

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Glass tube

Toughened glass, stands 4J impact

Ballast

Electronic ballast

Wire guard (optional)

Powder coated carbon steel (white) or stainless steel

External reflector

Powder coated pure aluminium

Exposed fastener

Stainless steel

Lamp

Lamp specification

T8 tube (supplied with the light fittings)

Lamp power (W)

18W x 1 18W x 2

36W x 1 36W x 2

58W x 1 58W x 2

Rated voltage

100~300V AC 50/60Hz

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66

Ambient temperature

-20°C~+55°C

Terminal

3 x 1.5~4mm² (L+N+PE)

Cable entries

Single lamp

2 x M25 x 1.5 plugs

Dual lamp

2 x M25 x 1.5 plugs

Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~29

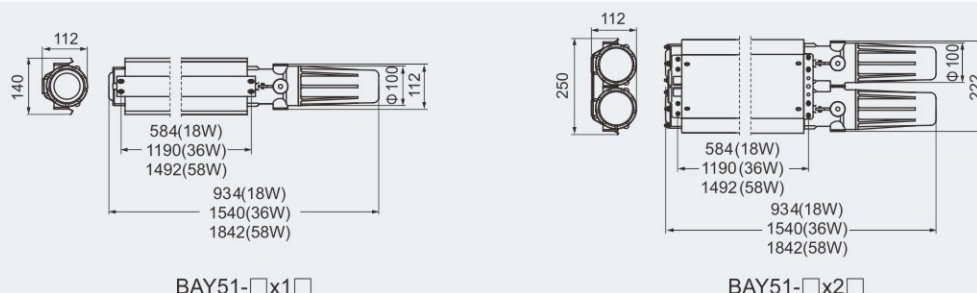


Selection table

Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-18 x 1X	18 x 1	5.60	BAY51-18 x 2X	18 x 2	10.60
BAY51-18 x 1L	18 x 1	6.50	BAY51-18 x 2L	18 x 2	11.55
BAY51-36 x 1X	36 x 1	8.80	BAY51-36 x 2X	36 x 2	16.30
BAY51-36 x 1L	36 x 1	9.30	BAY51-36 x 2L	36 x 2	16.85
BAY51-58 x 1X	58 x 1	10.40	BAY51-58 x 2X	58 x 2	18.30
BAY51-58 x 1L	58 x 1	10.85	BAY51-58 x 2L	58 x 2	19.20

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/21~22).

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



Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof emergency light fittings for fluorescent lamp BAY51-□ × □□J

Explosion protection

Global (IECEX)

Gas and dust

IECEX CQM 13.0004X

Ex d IIC T6 Gb

Ex tb IIIC T80°C Db IP66

Europe (ATEX)

Gas and dust

LCIE 13 ATEX 3003X

Ex II 2 G Ex d IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db IP66

Certificates

Conformity to standards

IECEX; ATEX; CU-TR

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

Material

Enclosure

Glass tube

Emergency unit

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Toughened glass, stands 4J impact

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

Ballast

Wire guard (optional)

External reflector

Exposed fastener

Electronic ballast

Powder coated carbon steel (white) or stainless steel

Powder coated pure aluminium

Stainless steel

Lamp

Lamp specification

Lamp power (W)

Emergency power (W)

T8 tube (supplied with the light fittings)

18W x 2, 36W x 2, 58W x 2

18W x 30%, 36W x 30%, 58W x 30%

Emergency starting time

0.3s

Charging time

24h

Emergency lighting time

120min (180min is optional)

Rated voltage

100~300V AC 50/60Hz

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66

Ambient temperature

-20°C~+55°C

Terminal

3 x 1.5~4mm² (L+N+PE)

Cable entries

4 x M25 x 1.5 plugs

Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~29

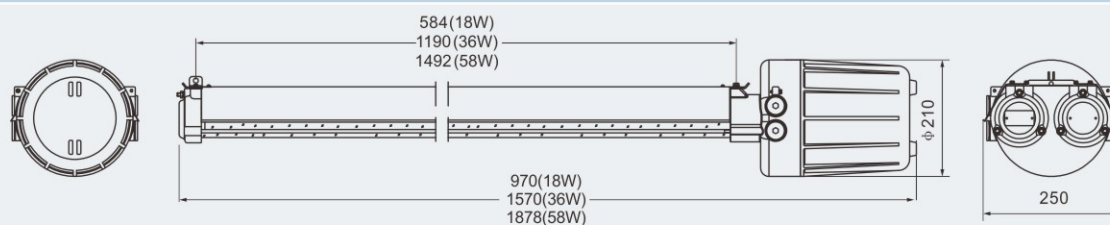


Selection table

Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-18 x 2XJ	18 x 2	14.50	BAY51-36 x 2LJ	36 x 2	20.30
BAY51-18 x 2LJ	18 x 2	14.60	BAY51-58 x 2XJ	58 x 2	22.20
BAY51-36 x 2XJ	36 x 2	20.20	BAY51-58 x 2LJ	58 x 2	22.30

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/23).

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



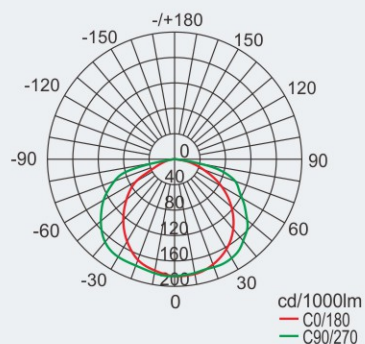
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Photometric data

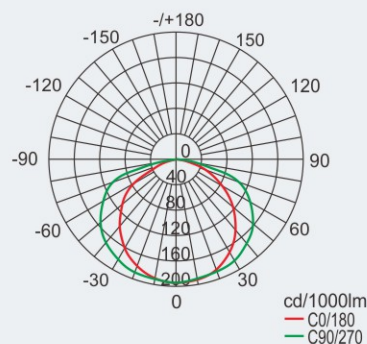
BAY51-18x1□□

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



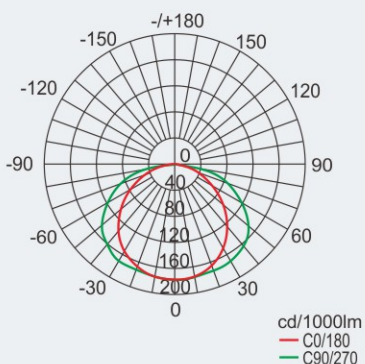
BAY51-18x2□□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
18 x 2	2600lm	67%



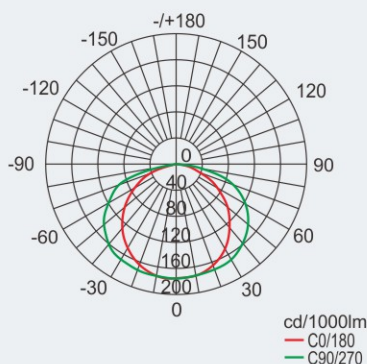
BAY51-36x1□□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
36 x 1	3250lm	67%



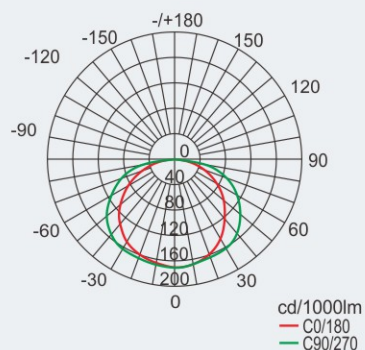
BAY51-36x2□□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
36 x 2	6500lm	66%



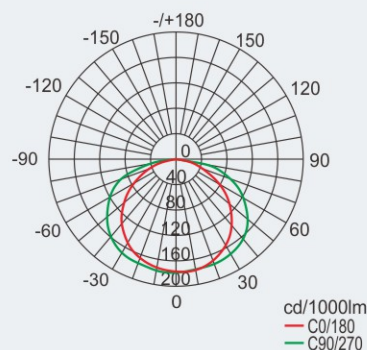
BAY51-58x1□□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
58 x 1	5000lm	66%



BAY51-58x2□□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
58 x 2	10000lm	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

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof light fittings with LED tubes BAY51-LED□ × □□

Explosion protection

Global (IECEX)

Gas and dust

Europe (ATEX)

Gas and dust

Certificates

Conformity to standards

Material

Enclosure

Glass tube

LED driver

Wire guard (optional)

External reflector

Exposed fastener

Lamp

Lamp specification

Lamp power (W)

Colour rendering index (Ra)

Colour temperature (CCT)

Rated voltage

Earthing protection

Degree of protection

Ambient temperature

IECEX CQM 12.0005X

Ex d IIC T6 Gb

Ex tb IIC T80°C Db IP66

EPT 15 ATEX 2287X

Ex II 2 G Ex db IIC T6 Gb

Ex II 2 D Ex tb IIC T80°C Db IP66

IECEX; ATEX; CU-TR

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

LCIE 11 ATEX 3112X

Ex II 2 G Ex d IIC T6 Gb

Ex II 2 D Ex t IIC T80°C Db IP66

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Toughened glass, stands 4J impact

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.

Powder coated carbon steel (white) or stainless steel

Powder coated pure aluminium

Stainless steel

LED module (supplied with the light fittings)

9W x 1, 9W x 2, 18W x 1, 18W x 2, 28W x 1, 28W x 2

≥ 80

5000K

Note: nature white is available in general. Warm white or cool white is optional, please specify when ordering.

110~265V AC 50/60Hz

M5 (internal & external earth bolts)

IP66

Certificates

EPT 15 ATEX 2287X

Lamp power (W)

9W x 1, 9W x 2, 18W x 1

18W x 2, 28W x 1, 28W x 2

Ambient temperature

-20°C~+55°C

LCIE 11 ATEX 3112X

9W x 1, 9W x 2

18W x 1, 18W x 2

-40°C~+55°C

IECEX CQM 12.0005X

9W x 1, 9W x 2, 18W x 1, 18W x 2

28W x 1, 28W x 2

-40°C~+55°C

-20°C~+55°C

Terminal

Mounting

Cable entries

Single lamp

Dual lamp

Cable gland

3 x 1.5~4mm² (L+N+PE)

Ceiling type, pole type

2 x M25 x 1.5 plugs

2 x M25 x 1.5 plugs

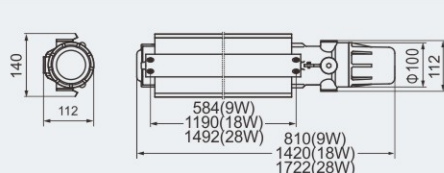
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~29

Selection table

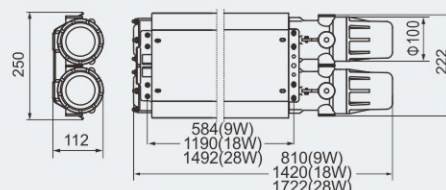
Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-LED 9 x 1X	9 x 1	5.50	BAY51-LED 9 x 2X	9 x 2	9.80
BAY51-LED 9 x 1L	9 x 1	5.90	BAY51-LED 9 x 2L	9 x 2	10.50
BAY51-LED 18 x 1X	18 x 1	8.30	BAY51-LED 18 x 2X	18 x 2	15.70
BAY51-LED 18 x 1L	18 x 1	8.35	BAY51-LED 18 x 2L	18 x 2	16.40
BAY51-LED 28 x 1X	28 x 1	10.00	BAY51-LED 28 x 2X	28 x 2	17.30
BAY51-LED 28 x 1L	28 x 1	10.30	BAY51-LED 28 x 2L	28 x 2	18.30

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/21~22).

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



BAY51-LED□x1□



BAY51-LED□x2□

Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof light fittings with LED tubes BAY51-LED□ × □□J

Explosion protection

Global (IECEX)

Gas and dust

Europe (ATEX)

Gas and dust

IECEX CQM 14.0051X

Ex d IIC T6 Gb

Ex tb IIIC T80°C Db IP66

EUT 14 ATEX 1885

Ex II 2 G Ex d IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db IP66

IECEX; ATEX; CU-TR

Certificates

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

Material

Enclosure

Glass tube

LED driver

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Toughened glass, stands 4J impact

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.

Emergency unit

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

Wire guard (optional)

Powder coated carbon steel (white) or stainless steel

External reflector

Powder coated pure aluminium

Exposed fastener

Stainless steel

Lamp

Lamp specification

LED module (supplied with the light fittings)

Lamp power (W)

9W x 2, 18W x 2, 28W x 2

Colour rendering index (Ra)

≥ 80

Colour temperature (CCT)

5000K

Note: nature white is available in general. Warm white or cool white is optional, please specify when ordering.

Emergency power (W)

9W x 30%, 18W x 30%, 28W x 30%

Emergency starting time

0.3s

Charging time

24h

Emergency lighting time

120min (180min is optional)

Rated voltage

110~265V AC 50/60Hz

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66

Ambient temperature

-20°C~+55°C

Terminal

3 x 1.5~4mm² (L+N+PE)

Cable entries

4 x M25 x 1.5 plugs

Cable gland(optional)

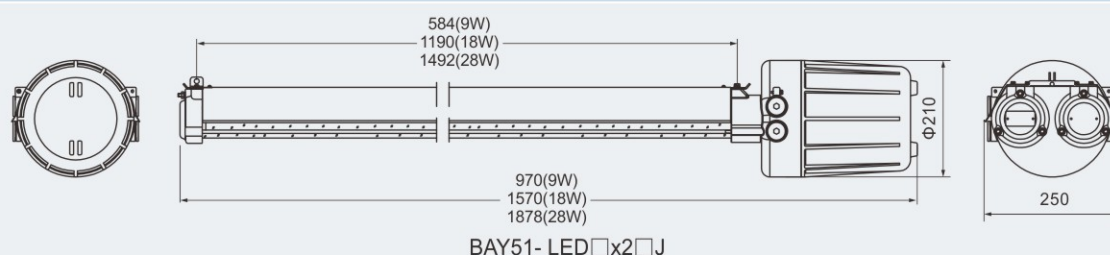
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~29

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)
BAY51-LED 9 x 2XJ	9 x 2	13.70	BAY51-LED 18 x 2XJ	18 x 2	19.40	BAY51-LED 28 x 2XJ	28 x 2	21.40
BAY51-LED 9 x 2LJ	9 x 2	13.80	BAY51-LED 18 x 2LJ	18 x 2	19.50	BAY51-LED 28 x 2LJ	28 x 2	21.50

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/23).

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



Light Fittings for Fluorescent Lamp

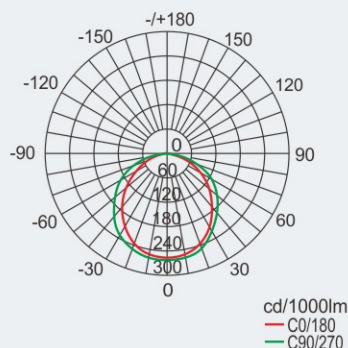
BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

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

BAY51-LED 9x1□

Lamp power (W)	Luminous flux	Wattage
9 x 1	1000lm	9.5W

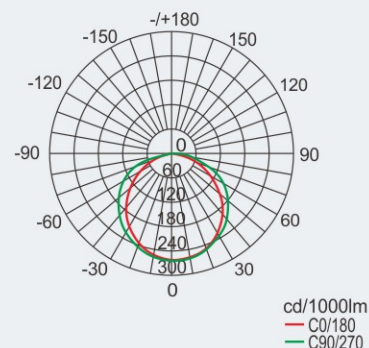
Rated luminous flux (Lamp tube) 9Wx1: 1080lm



BAY51-LED 9x2□□

Lamp power (W)	Luminous flux	Wattage
9 x 2	1980lm	19W

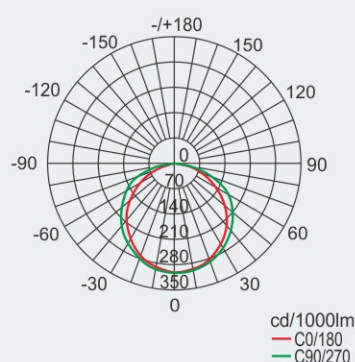
Rated luminous flux (Lamp tube) 9Wx2: 2160lm



BAY51-LED 18x1□

Lamp power (W)	Luminous flux	Wattage
18 x 1	1960lm	18.5W

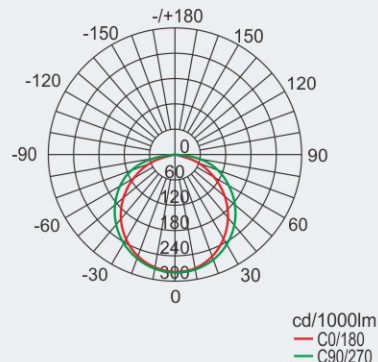
Rated luminous flux (Lamp tube) 18Wx1: 2160lm



BAY51-LED 18x2□□

Lamp power (W)	Luminous flux	Wattage
18 x 2	3920lm	37W

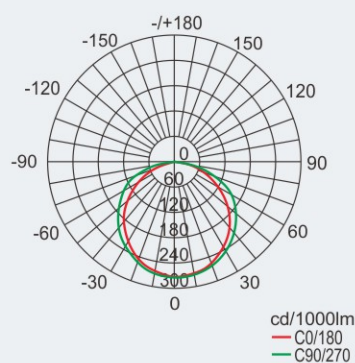
Rated luminous flux (Lamp tube) 18Wx2: 4320lm



BAY51-LED 28x1□

Lamp power (W)	Luminous flux	Wattage
28 x 1	2985lm	29W

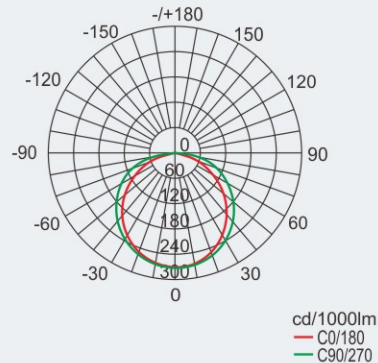
Rated luminous flux (Lamp tube) 28Wx1: 3360lm



BAY51-LED 28x2□□

Lamp power (W)	Luminous flux	Wattage
28 x 2	5606lm	56W

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



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



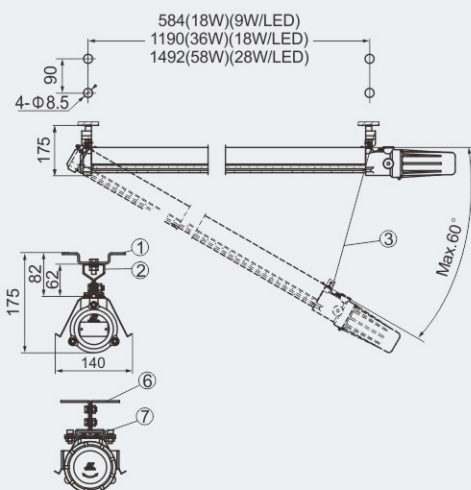
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

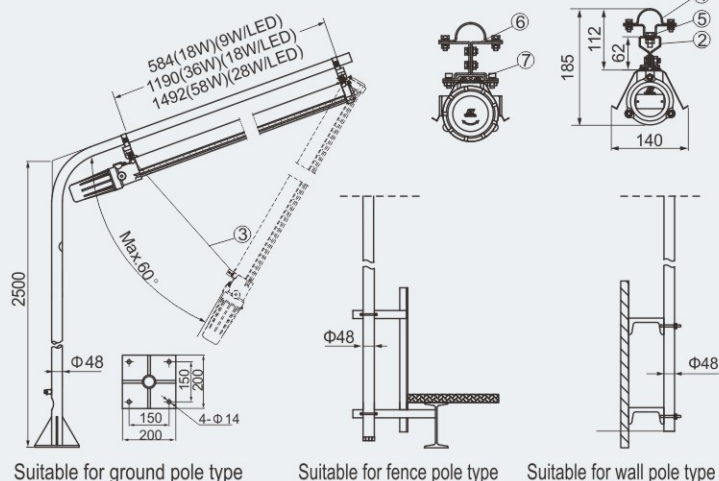
Mounting type for light fittings with single lamp tube (all dimensions in mm) - subject to alteration

Installation reference

X: ceiling 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 (light fittings with single lamp tube)

Supplied according to the mounting type

Mounting type	Name	Qty	Accessories	Ordering code	Weight (kg)
X: ceiling type	①.Mounting bracket	2		5136030	0.07
	②.Connector	2		51S01X1	0.04
	③.Steel wire rope (with hook)	1	Stainless steel, length: 0.7m (18W, 9WLED), 1.3m (36W, 18WLED), 1.6m (58W, 28WLED)	51S01X2	0.30~0.50
	⑥.Mounting bracket	2		5136041	0.08
	⑦.Mounting bracket	1		5136042	0.08
L: pole type	④.G1 1/2" Pipe clamp	2		5136014	0.04
	⑤.Mounting bracket	2		5136012	0.04
	②.Connector	2	Stainless steel, same as ceiling type	51S01X1	0.04
	③.Steel wire rope (with hook)	1	Stainless steel, same as ceiling type	51S01X2	0.30~0.50
	⑥.Mounting bracket	2	Stainless steel, same as ceiling type	5136041	0.08
	⑦.Mounting bracket	1	Stainless steel, same as ceiling type	5136042	0.08

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

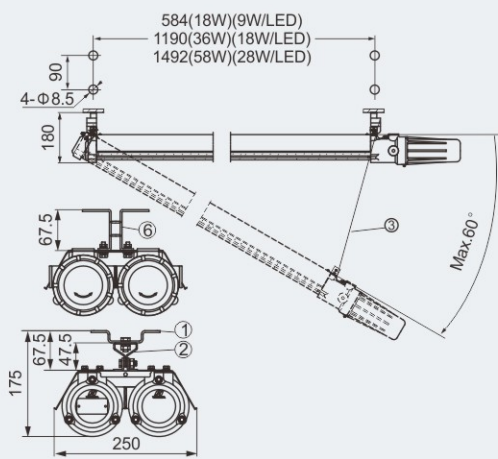
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

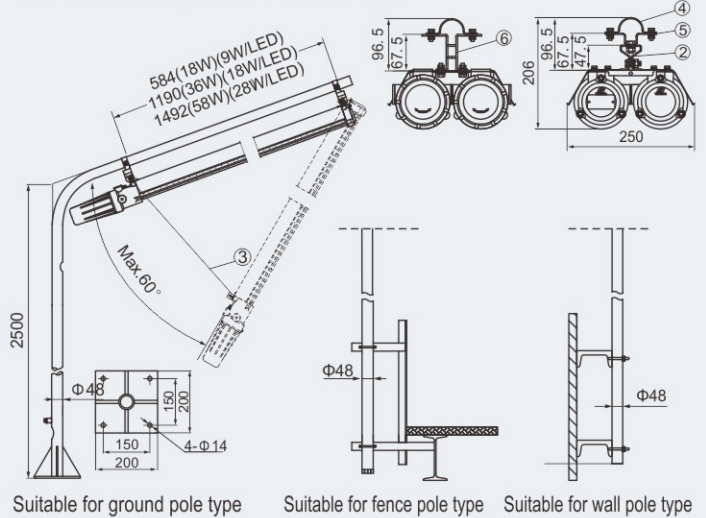
Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

X: ceiling type

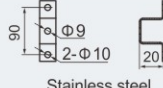
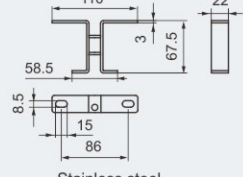
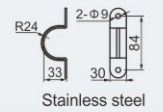
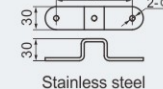


L: pole type (the pole is provided by user)



Mounting Accessories & Spare Parts Table (light fittings with dual lamp tube)

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
X: ceiling type	①.Mounting bracket	1		5136030	0.07
	②.Connector	1		51S01X1	0.04
	③.Steel wire rope (with hook)	1	Stainless steel, length: 0.7m (18W, 9WLED), 1.3m (36W, 18WLED), 1.6m (58W, 28WLED)	51S01X2	0.30~0.50
	⑥.Mounting bracket	1		51D01X3	0.13
L: pole type	④.G1 1/2" Pipe clamp	2		5136014	0.04
	⑤.Mounting bracket	1		5136012	0.04
	②.Connector	2	Stainless steel, same as ceiling type	51S01X1	0.04
	③.Steel wire rope (with hook)	1	Stainless steel, same as ceiling type	51S01X2	0.30~0.50
	⑥.Mounting bracket	1	Stainless steel, same as ceiling type	51D01X3	0.13

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

Light Fittings for Fluorescent Lamp

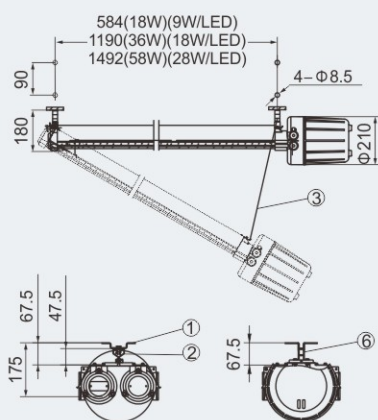
BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

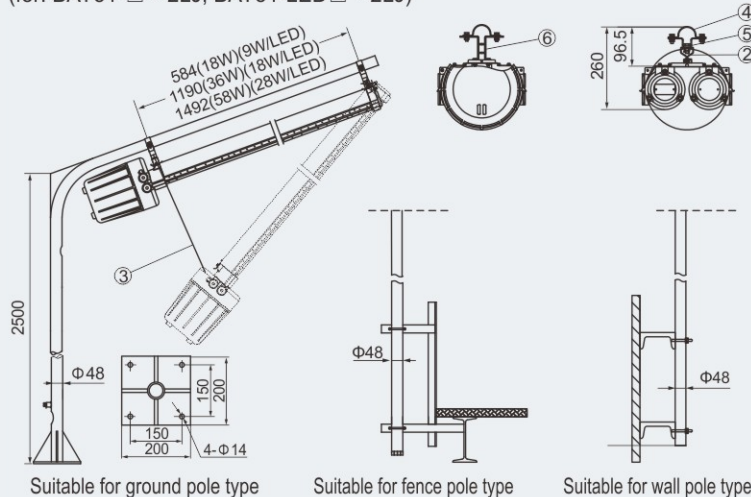
X: ceiling type

(for: BAY51-□ × 2XJ; BAY51-LED□ × 2XJ)



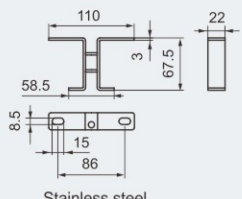
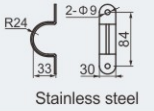
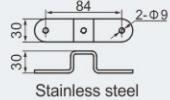
L: pole type (the pole is provided by user)

(for: BAY51-□ × 2LJ; BAY51-LED□ × 2LJ)



Mounting Accessories & Spare Parts Table (light fittings with dual lamp tube)

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
X: ceiling type	①.Mounting bracket	1		5136030	0.07
	②.Connector	1		51S01X1	0.04
	③.Steel wire rope (with hook)	1	Stainless steel, length: 0.7m (18W, 9WLED), 1.3m (36W, 18WLED), 1.6m (58W, 28WLED)	51S01X2	0.30~0.50
	⑥.Mounting bracket	1		51D01X3	0.13
L: pole type	④.G1 1/2" Pipe clamp	2		5136014	0.04
	⑤.Mounting bracket	1		5136012	0.04
	②.Connector	2	Stainless steel, same as ceiling type	51S01X1	0.04
	③.Steel wire rope (with hook)	1	Stainless steel, same as ceiling type	51S01X2	0.30~0.50
	⑥.Mounting bracket	1	Stainless steel, same as ceiling type	51D01X3	0.13

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