

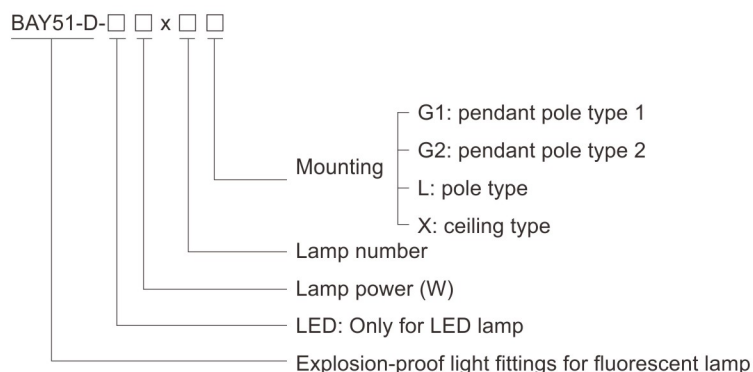
Light Fittings for Fluorescent Lamp

BAY51-D Series Explosion-proof Light Fittings for Fluorescent Lamp

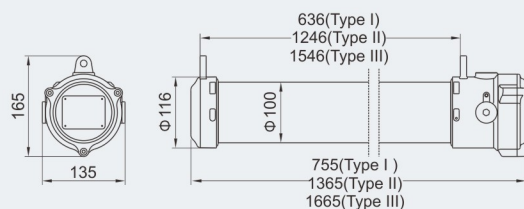


- ◆ Explosion Protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 1, Groups B, C, D
- ◆ Three enclosure types: Type I, Type II and Type III
 - Available lamp and power
 - Type I: T8 18W x 2, T5 14W x 2, LED 9W x 2
 - Type II: T8 36W x 2, T5 28W x 2, LED 18W x 2
 - Type III: T8 58W x 2, T5 35W x 2, LED 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.
- ◆ Emergency functions are available on request.

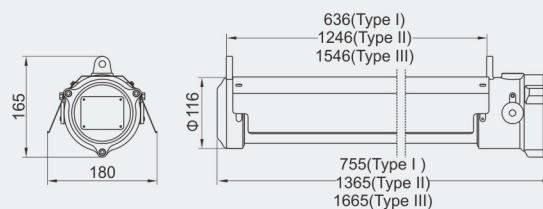
Catalogue number logic



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



BAY51-D-□□x2□
Without external reflector



BAY51-D-□□x2□
With external reflector

Zones 1&2; 21&22

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Technical data

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

Explosion protection	
Global (IECEX)	IECEX CQM 16.0023X
Gas and dust	Ex db IIB T6 Gb Ex db IIB+H ₂ T6 Gb Ex tb IIIC T80°C Db IP66
Europe (ATEX)	EPT ATEX 16 2504X
Gas and dust	⊕ II 2 G Ex db IIB T6 Gb ⊕ II 2 G Ex db IIB+H ₂ T6 Gb ⊕ II 2 D Ex tb IIIC T80°C Db IP66
Certificates	IECEX; ATEX; Russia (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
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.
Wire guard (optional)	Powder coated carbon steel (white) or stainless steel
External reflector (optional)	Powder coated pure aluminium
Exposed fastener	Stainless steel
Lamp	
Lamp specification	T8 fluorescent lamp (supplied with the light fittings) T5 fluorescent lamp (supplied with the light fittings) LED module (supplied with the light fittings)
Lamp power (W)	T8: 18Wx2, 36Wx2, 58Wx2 T5: 14Wx2, 28Wx2, 35Wx2 LED: 9Wx2, 18Wx2, 28Wx2
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	T8/T5: 100-305V AC 50/60Hz; LED: 100-275V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66, IP67 (optional)
Ambient temperature	Ex db IIB+H ₂ T6 Gb for Tamb: -20°C~+55°C Ex db IIB T6 Gb and Ex tb IIIC T80°C Db IP66 for Tamb: -60°C~+55°C ⊕ II 2 G Ex db IIB+H ₂ T6 Gb for Tamb: -20°C~+55°C ⊕ II 2 G Ex db IIB T6 Gb and ⊕ II 2 D Ex tb IIIC T80°C Db IP66 for Tamb: -60°C~+55°C
Terminal	3 x 1.5~4mm ² (L+N+PE)
Cable entries	2 x M25 x 1.5 plugs
Cable gland(optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25

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-D-18 x 2G1	18×2	5.85	BAY51-D-LED 9 x 2G1	9×2	5.75	BAY51-D-14 x 2G1	14×2	5.65
BAY51-D-18 x 2G2	18×2	7.00	BAY51-D-LED 9 x 2G2	9×2	6.90	BAY51-D-14 x 2G2	14×2	6.80
BAY51-D-18 x 2X	18×2	5.52	BAY51-D-LED 9 x 2X	9×2	5.42	BAY51-D-14 x 2X	14×2	5.32
BAY51-D-18 x 2L	18×2	5.64	BAY51-D-LED 9 x 2L	9×2	5.54	BAY51-D-14 x 2L	14×2	5.44
BAY51-D-36 x 2G1	36×2	8.45	BAY51-D-LED 18 x 2G1	18×2	8.35	BAY51-D-28 x 2G1	28×2	8.25
BAY51-D-36 x 2G2	36×2	9.63	BAY51-D-LED 18 x 2G2	18×2	9.53	BAY51-D-28 x 2G2	28×2	9.43
BAY51-D-36 x 2X	36×2	8.13	BAY51-D-LED 18 x 2X	18×2	8.03	BAY51-D-28 x 2X	28×2	7.93
BAY51-D-36 x 2L	36×2	8.25	BAY51-D-LED 18 x 2L	18×2	8.15	BAY51-D-28 x 2L	28×2	8.05
BAY51-D-58 x 2G1	58×2	9.72	BAY51-D-LED 28 x 2G1	28×2	9.62	BAY51-D-35 x 2G1	35×2	9.52
BAY51-D-58 x 2G2	58×2	10.90	BAY51-D-LED 28 x 2G2	28×2	10.80	BAY51-D-35 x 2G2	35×2	10.70
BAY51-D-58 x 2X	58×2	9.40	BAY51-D-LED 28 x 2X	28×2	9.30	BAY51-D-35 x 2X	35×2	9.20
BAY51-D-58 x 2L	58×2	9.52	BAY51-D-LED 28 x 2L	28×2	9.42	BAY51-D-35 x 2L	35×2	9.32

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/27).
2. The light fittings are supplied without wire guard and external reflector. Please specify when ordering.



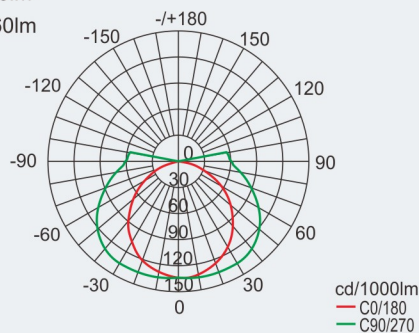
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Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5000K

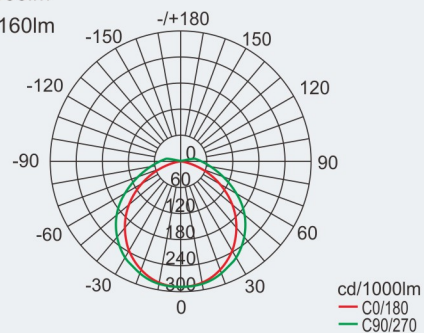
BAY51-D-18x2□(without external reflector)
BAY51-D-14x2□(without external reflector)
BAY51-D-LED 9x2□(without external reflector)

Rated luminous flux
T8: 18Wx2: 2600lm
T5: 14Wx2: 2500lm
LED: 9Wx2: 2160lm



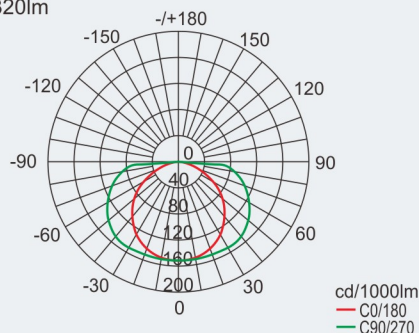
BAY51-D-18x2□(with external reflector)
BAY51-D-14x2□(with external reflector)
BAY51-D-LED 9x2□(with external reflector)

Rated luminous flux
T8: 18Wx2: 2600lm
T5: 14Wx2: 2500lm
LED: 9Wx2: 2160lm



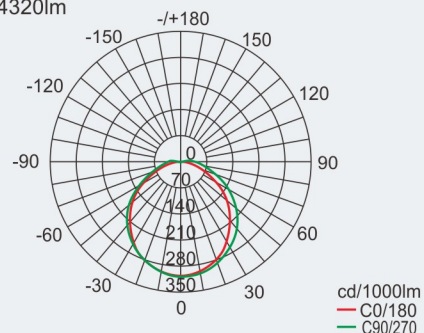
BAY51-D-36x2□(without external reflector)
BAY51-D-28x2□(without external reflector)
BAY51-D-LED 18x2□(without external reflector)

Rated luminous flux
T8: 36Wx2: 6500lm
T5: 28Wx2: 5400lm
LED: 18Wx2: 4320lm



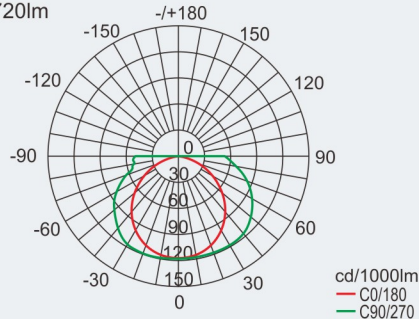
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LED: 18Wx2: 4320lm



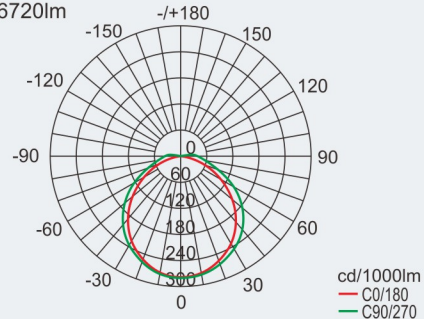
BAY51-D-58x2□(without external reflector)
BAY51-D-35x2□(without external reflector)
BAY51-D-LED 28x2□(without external reflector)

Rated luminous flux
T8: 58Wx2: 10000lm
T5: 35Wx2: 6800lm
LED: 28Wx2: 6720lm



BAY51-D-58x2□(with external reflector)
BAY51-D-35x2□(with external reflector)
BAY51-D-LED 28x2□(with external reflector)

Rated luminous flux
T8: 58Wx2: 10000lm
T5: 35Wx2: 6800lm
LED: 28Wx2: 6720lm



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



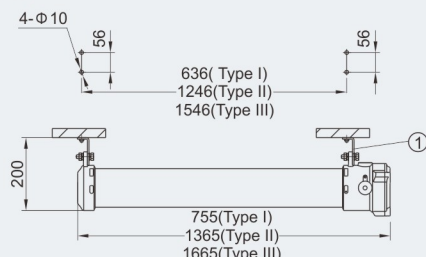
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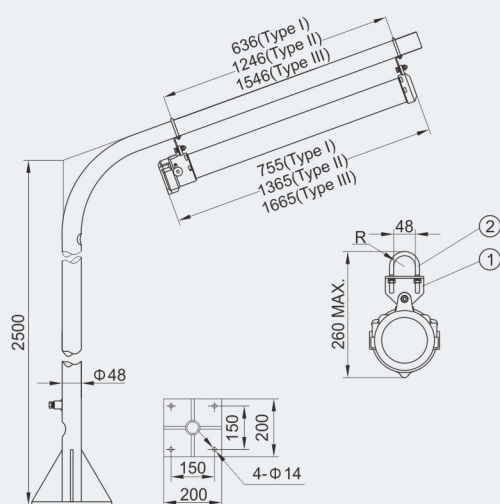
Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

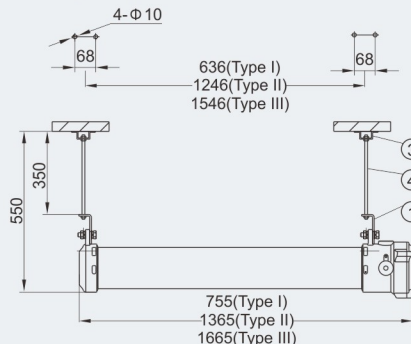
X: ceiling type



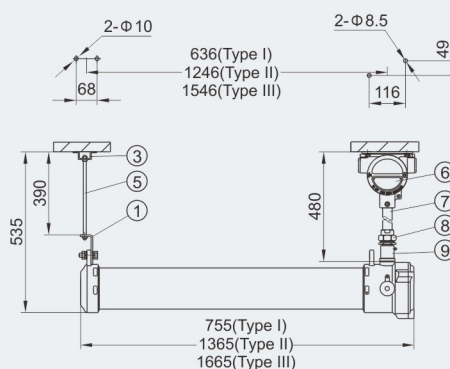
L: pole type (the pole is provided by user)



G1: pendant pole type 1



G2: pendant pole type 2



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 plate	2	Stainless steel	51DX01	0.25
L: pole type	① Mounting plate	2	Stainless steel	51DX01	0.25
	② U type pipe clamp	2	Stainless steel	51L01	0.15
G1: pendant pole type 1	① Mounting plate	2	Stainless steel	51DX01	0.25
	③ Mounting bracket	2	Stainless steel	51S01G1	0.04
	④ M8 screw	2	Stainless steel, length: 350mm	51S01G2	0.12
G2: pendant pole type 2	① Mounting plate	2	Stainless steel	51DX01	0.25
	③ Mounting bracket	1	Stainless steel	51S01G1	0.04
	⑤ M8 screw	1	Stainless steel, length: 390mm	51S01G3	0.15
	⑥ BHD51 Explosion-proof junction box	1	Copper-free Aluminium Alloy (Ex d IIC)	BHD51-F	0.80
	⑦ Straight pipe (M25 x 1.5)	1	Length: 300mm	81G01	0.41
	⑧ BGJ-III Explosion-proof connector	1	M25x1.5(F)/M25x1.5(M) Stainless steel	81D03	0.26
	⑨ Explosion-proof connector	1	M25x1.5(F)/M25x1.5(M) Stainless steel	51G201	0.22

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