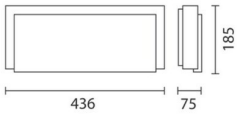
Motus

Design Atelier Bellini **iGuzzini**

Last information update: June 2018



Large body luminaire for emergency-only operation (SE) 1h 24 W TC-L

Product code
5435

Technical description
The body of the fitting, reflector, frame and opal diffuser screen are made of self-extinguishing shatter-proof polycarbonate. This fitting is designed for emergency lighting with TC-L fluorescent lamp 24W. The screen is fixed to the body by four captive screws that allow for protection degree IP66 (IP65 for ceiling-mounted version). The base comes complete with double PG11 for through wiring. The base is intended for application either on three-body recessed universal connector block (type 503) or water-tight external cable trays with rigid pipes (ø 16/20-mm) by a special junction (accessory). The system functions only in emergency conditions (SE), beginning to operate in the event of power supply failure. Emergency operation 1 hour. Battery recharge time 12 hours. NiCd 4.8V 2.2Ah batteries are used. The fitting is equipped with an autotest device with operation LED. The fitting permits deactivating the emergency operation for short periods (Rest Mode); when power supply is started again, the emergency system resumes its functions too. The fitting permits deactivating the emergency operation for long inactivity periods (Inhibition Mode); it needs manual restarting. The operation LED shows if the fitting is functioning properly or there is a fault. LED on - steady light: correct operation (during the test the LED is on). Quickly flashing LED: lamp fault. Slowly flashing LED: insufficient battery autonomy. LED off: faulty battery (LED off in emergency).

Installation
Surface-mounted.

Dimension (mm)
436x185x75

Colour
White (01)

Weight (Kg)
1.74

Mounting
wall surface

Wiring
Electronic control gear inside the fitting.

Notes
Available accessories: junction for external cable trays and replacement battery. Emergency light flow 186 lumens.

Complies with EN60598-1 and pertinent regulations

IP66

Product configuration: 5435+1774
1774: Compact fluorescent lamp 24W 2G11 4000 K (Philips)

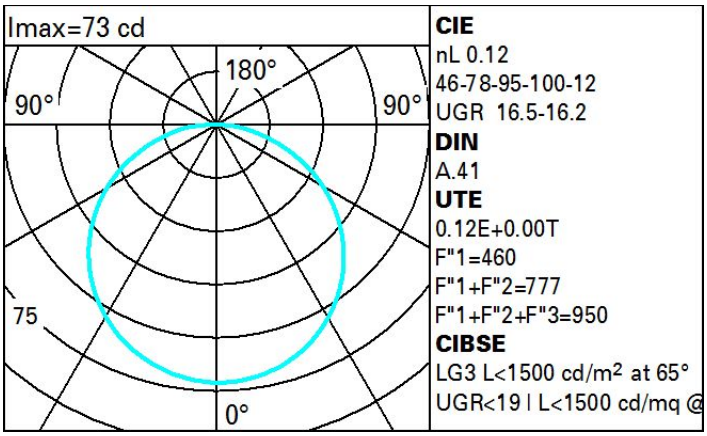
Product characteristics

Total lighting output [Lm]: 214	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 27	Emergency luminous flux [Lm]: 217
Luminous efficacy [Lm/W]: 7.9	Voltage [V]: 230
Ambient temperature range: from -20°C to +35°C.	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 12	Number of lamps for optical assembly: 1
Lamp code: 1774	Socket: 2G11
ZVEI Code: TC-L	Ballast losses [W]: 3
Nominal power [W]: 24	Colour temperature [K]: 4000
Nominal luminous [Lm]: 1800	CRI: 85
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: /	MacAdam Step: /

Polar

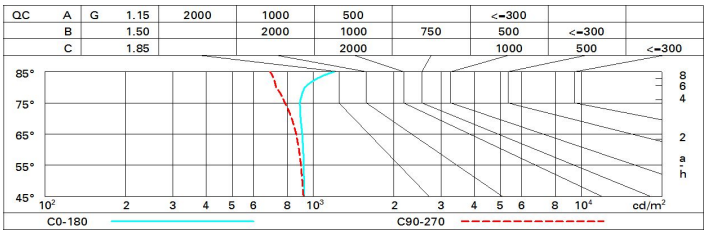


CIE
nL 0.12
46-78-95-100-12
UGR 16.5-16.2
DIN
A.41
UTE
0.12E+0.00T
F"1=460
F"1+F"2=777
F"1+F"2+F"3=950
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 | L<1500 cd/mq @

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	8	6	6	5	6	5	5	5	38
1.0	9	7	6	6	7	6	6	5	46
1.5	10	9	8	7	9	8	8	7	58
2.0	10	10	9	8	9	9	9	8	67
2.5	11	10	10	9	10	10	9	9	73
3.0	11	11	10	10	10	10	10	9	77
4.0	12	11	11	10	11	11	10	10	82
5.0	12	11	11	11	11	11	11	10	85

Luminance curve limit



UGR diagram

Corrected UGR values (at 1800 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed					viewed		
x	y			crosswise					endwise		
2H	2H	12.4	13.6	12.7	13.9	14.1	12.5	13.7	12.8	14.0	14.2
	3H	14.0	15.1	14.4	15.4	15.7	13.0	14.1	13.4	14.4	14.7
	4H	14.7	15.7	15.0	16.0	16.3	13.3	14.3	13.6	14.6	14.9
	6H	15.2	16.1	15.6	16.4	16.8	13.4	14.3	13.7	14.6	15.0
	8H	15.4	16.3	15.8	16.6	17.0	13.4	14.3	13.8	14.6	15.0
	12H	15.5	16.4	15.9	16.8	17.1	13.4	14.2	13.7	14.6	14.9
4H	2H	13.1	14.1	13.4	14.4	14.7	14.8	15.8	15.2	16.2	16.5
	3H	14.9	15.7	15.3	16.1	16.4	15.6	16.4	16.0	16.8	17.2
	4H	15.6	16.4	16.0	16.7	17.2	15.9	16.7	16.3	17.0	17.4
	6H	16.2	16.9	16.7	17.3	17.7	16.1	16.8	16.6	17.2	17.7
	8H	16.5	17.1	16.9	17.5	18.0	16.2	16.9	16.7	17.3	17.7
	12H	16.7	17.2	17.1	17.7	18.1	16.3	16.8	16.7	17.3	17.7
8H	4H	15.8	16.5	16.3	16.9	17.3	16.8	17.4	17.2	17.8	18.3
	6H	16.6	17.1	17.1	17.6	18.0	17.2	17.7	17.7	18.2	18.7
	8H	16.9	17.4	17.4	17.8	18.3	17.4	17.9	17.9	18.3	18.8
	12H	17.2	17.6	17.7	18.1	18.6	17.6	18.0	18.1	18.5	19.0
12H	4H	15.8	16.4	16.3	16.9	17.3	17.0	17.6	17.4	18.0	18.5
	6H	16.6	17.1	17.1	17.6	18.1	17.5	17.9	18.0	18.4	18.9
	8H	17.0	17.4	17.5	17.9	18.4	17.7	18.1	18.2	18.6	19.1

Variations with the observer position at spacing:

S =	1.0H	0.1 / -0.1	0.1 / -0.1
	1.5H	0.3 / -0.3	0.2 / -0.3
	2.0H	0.4 / -0.5	0.3 / -0.5