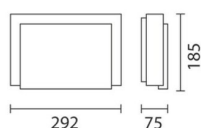


Last information update: June 2018

**Small body luminaire for emergency-only operation (SE) 1h 11 W TC-EL****Product code**

5423

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-EL fluorescent lamp 11W. The screen is fixed to the body by four captive screws that allow for protection degree IP66. 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 (\varnothing 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 3.6V 1.5Ah 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)

292x185x75

Colour

White (01)

Weight (Kg)

1.35

Mounting

wall surface

Wiring

Electronic control gear inside the fitting.

Notes

Available accessories: junction for external cable trays and replacement battery. Emergency light flow 80 lumens.

Complies with EN60598-1 and pertinent regulations

**Product configuration: 5423+L103**

L103: Compact fluorescent lamp 11W 2G7 4000 K (Philips)

Product characteristics

Total lighting output [Lm]: 106
 Total power [W]: 12
 Luminous efficacy [Lm/W]: 8.8
 Ambient temperature range: from -20°C to +35°C.

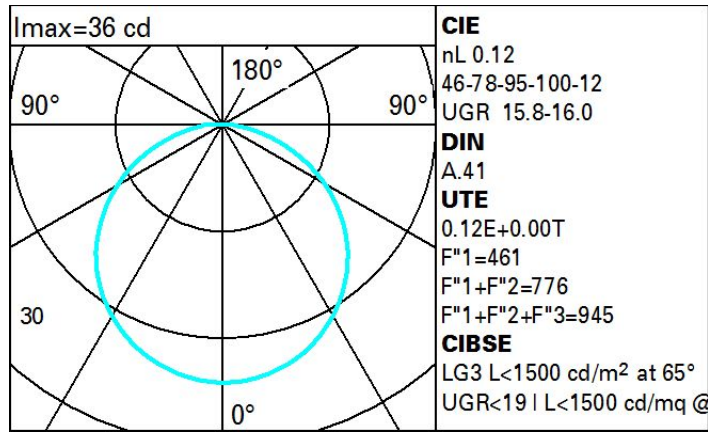
Total luminous flux at or above an angle of 90° [Lm]: 0
 Emergency luminous flux [Lm]: 111
 Voltage [V]: 230
 Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 12
 Lamp code: L103
 ZVEI Code: TC-SEL
 Nominal power [W]: 11
 Nominal luminous [Lm]: 900
 Lamp maximum intensity [cd]: /
 Beam angle [°]: /

Number of lamps for optical assembly: 1
 Socket: 2G7
 Ballast losses [W]: 1
 Colour temperature [K]: 4000
 CRI: 86
 Wavelength [Nm]: /
 MacAdam Step: /

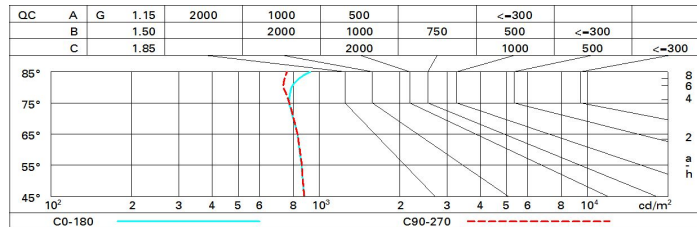
Polar



Utilisation factors

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

Luminance curve limit



UGR diagram

Corrected UGR values (at 900 lm bare lamp luminous flux)											
Reflect.:											
ceiling/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	12.1	13.3	12.4	13.5	13.8	12.3	13.5	12.6	13.8	14.1
	3H	13.6	14.7	13.9	15.0	15.3	12.8	13.9	13.2	14.2	14.5
	4H	14.2	15.2	14.5	15.5	15.8	13.0	14.0	13.4	14.4	14.7
	6H	14.6	15.6	15.0	15.9	16.2	13.1	14.0	13.5	14.4	14.7
	8H	14.8	15.7	15.2	16.0	16.4	13.1	14.0	13.5	14.4	14.7
	12H	14.9	15.8	15.3	16.1	16.5	13.1	14.0	13.5	14.3	14.7
4H	2H	12.7	13.7	13.1	14.0	14.4	14.7	15.7	15.1	16.0	16.4
	3H	14.4	15.3	14.8	15.6	16.0	15.4	16.3	15.8	16.6	17.0
	4H	15.1	15.8	15.5	16.2	16.6	15.7	16.5	16.1	16.9	17.3
	6H	15.6	16.3	16.1	16.7	17.2	16.0	16.6	16.4	17.0	17.5
	8H	15.8	16.5	16.3	16.9	17.3	16.0	16.7	16.5	17.1	17.5
	12H	16.0	16.6	16.5	17.0	17.5	16.0	16.6	16.5	17.1	17.5
8H	4H	15.3	16.0	15.8	16.4	16.8	16.7	17.3	17.2	17.8	18.2
	6H	16.0	16.5	16.5	17.0	17.5	17.1	17.7	17.6	18.1	18.6
	8H	16.3	16.8	16.8	17.2	17.7	17.3	17.8	17.8	18.2	18.8
	12H	16.5	16.9	17.1	17.4	18.0	17.5	17.9	18.0	18.4	18.9
12H	4H	15.4	15.9	15.8	16.4	16.8	16.9	17.5	17.4	18.0	18.4
	6H	16.1	16.5	16.6	17.0	17.5	17.4	17.9	17.9	18.4	18.9
	8H	16.4	16.8	16.9	17.3	17.8	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 / -0.4				