PRODUCT DATASHEET
ST8S-EM 7.6 W/4000 K 600 mm

SubstiTUBE T8 EM STAR | Economic LED tubes for electromagnetic control gears

Areas of application

- Corridors, stairways, parking garages
- Cooling and storage rooms
- Warehouses
- Domestic applications
- General illumination within ambient temperatures from -20...+45 °C

Product benefits

- High color homogeneity
- Energy savings of up to 68 % compared to conventional T8 fluorescent lamps
- Instant flickerfree starting

Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- T8 LED tube made of glass with G13 base
- Low flicker according to EU 2019-2020 (SVM ≤0,4 / PstLM ≤ 1)
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (0.6 m version)
- Type of protection: IP20

TECHNICAL DATA

Electrical data

Nominal wattage	7.6 W
Construction wattage	7.60 W
Nominal voltage	220...240 V
Nominal current	35 mA
Type of current	AC
Inrush current	16.4 mA
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz
Max. lamp no. on circuit break. 10 A (B)	208
Max. lamp no. on circuit break. B10 A - CCG without compensation	208
Max. lamp no. on circuit break. B10 A - CCG with compensation	20
Max. lamp no. on circuit break. 16 A (B)	333
Max. lamp no. on circuit break. B16 A - CCG without compensation	333
Max. lamp no. on circuit break. B16 A - CCG with compensation	32
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	800 lm
Luminous efficacy	105 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥80
Light color	840
Standard deviation of color matching	≤6 sdcm

Light technical data

Beam angle	190 °
Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	190.00 °

Dimensions & Weight

Overall length	603.00 mm
Length with base excl. base pins/connection	590,00 mm
Diameter	26.70 mm
Tube diameter	25.8 mm
Maximum diameter	27 mm
Product weight	105.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	65 °C

Lifespan

Lifespan	30000 h
Number of switching cycles	200000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	≥ 0.90

Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	A+ 1)
Energy consumption	8.00 kWh/1000h
Type of protection	IP20
Standards	CE
Photobiological safety group acc. to EN62778	RG0

1) Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations

ILCOS	DR-7.6/840-G13-25.5/600
Order reference	ST8S-0.6M 7,6W/

LOGISTICAL DATA

Temperature range at storage	-20...+80 °C

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	603.00 mm
Height	26.70 mm
Width	26.70 mm

EQUIPMENT / ACCESSORIES

- Suitable for operation on magnetic control gear

Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The Tc Point is located underneath the product label on the front side of the lamp.

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075024458	Sleeve 1	710 mm x 27 mm x 27 mm	150.00 g	0.52 dm^3
4058075024465	Shipping box 8	753 mm x 182 mm x 125 mm	1496.00 g	17.13 dm^3

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

- For current information see www.ledvance.com/substitube

Legal advice

- When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.