

PRODUCT DATASHEET

ST8A-EM 7.3 W/6500 K 600 mm EM

SubstiTUBE T8 EM ADVANCED | LED tubes for electromagnetic control gear (CCG)



Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

Product benefits

- No bending thanks to glass tube
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 64 % (compared to T8 fluorescent lamp on CCG)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads
- Also suitable for operation at low temperatures

Product features

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



TECHNICAL DATA

Electrical data

Nominal wattage	7.3 W
Construction wattage	7.30 W
Nominal voltage	220...240 V
Operating mode	Conventional control gear (CCG), Line voltage
Nominal current	36 mA
Type of current	AC
Inrush current	3.6 A
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz
Max. lamp no. on circuit break. 10 A (B)	125
Max. lamp no. on circuit break. B10 A - CCG without compensation	125
Max. lamp no. on circuit break. B10 A - CCG with compensation	16
Max. lamp no. on circuit break. 16 A (B)	200
Max. lamp no. on circuit break. B16 A - CCG without compensation	200
Max. lamp no. on circuit break. B16 A - CCG with compensation	25
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

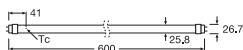
Photometrical data

Luminous flux	1100 lm
Luminous efficacy	150 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Color rendering index Ra	83
Light color	865
Standard deviation of color matching	≤ 5 sdcn

Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	603.00 mm
Length with base excl. base pins/connection	600,00 mm
Diameter	26.70 mm
Tube diameter	25.8 mm
Base diameter	26,7 mm
Maximum diameter	27 mm
Product weight	100.00 g

Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C

Lifespan

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

Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	D 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

Order reference	ST8A-0.6M 7,3W/
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LOGISTICAL DATA

Temperature range at storage	-25...+80 °C
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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 with low-loss and conventional control gears

Safety advice

- Not suitable for operation with electronic control gear.
- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

DOWNLOAD DATA

Documents and certificates	
	User instruction
	Installation guide
	Declarations Of Conformity CE

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075454767	Sleeve 1	695 mm x 29 mm x 29 mm	118.00 g	0.58 dm ³
4058075454774	Shipping box 10	742 mm x 210 mm x 115 mm	1588.00 g	17.92 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/substitute
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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.
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DISCLAIMER

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