

## PRODUCT DATASHEET

### ST8A-EM 11.3 W/4000 K 900 mm

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  $\leq 1$ )
- 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	11.3 W
Construction wattage	11.30 W
Nominal voltage	220...240 V
Nominal current	52 mA
Type of current	AC
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz
Power factor $\lambda$	> 0.90

### Photometrical data

Luminous flux	1700 lm
Luminous efficacy	150 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	$\leq 4$ sdc <sub>m</sub>

### Light technical data

Beam angle	210 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

### Dimensions & Weight

Overall length	907.00 mm
Length with base excl. base pins/connection	894,00 mm
Diameter	27.8 mm
Tube diameter	25,5 mm
Maximum diameter	28 mm
Product weight	160.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
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**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	A++ <sup>1)</sup>
Energy consumption	12.00 kWh/1000h
Type of protection	IP20
Standards	CE; VDE

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

**Country-specific categorizations**

ILCOS	DR-11.3/840-G13-25.5/907
Order reference	RL-T8 30 S 11,3

**LOGISTICAL DATA**

Temperature range at storage	-20...+80 °C
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**Energy labelling regulation data acc EU 2019/2015**

Light source cap-type (or other electric interface)	G13
Length	907.00 mm
Height	27.8 mm
Width	27.8 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.

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### DOWNLOAD DATA

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### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008597191428	Sleeve 1	1,000 mm x 29 mm x 29 mm	189.00 g	0.84 dm <sup>3</sup>
4008597491429	Shipping box 10	1,048 mm x 210 mm x 115 mm	2550.00 g	25.31 dm <sup>3</sup>

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.

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### References / Links

- For current information see [www.ledvance.com/substitute](http://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

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