

## PRODUCT DATASHEET

### ST8E-EM 20 W/3000 K 1500 mm

SubstiTUBE Entry EM | LED tubes for electromagnetic control gears



#### Product benefits

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 65 % (compared to T8 fluorescent lamp on CCG)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Also suitable for operation at low temperatures

#### Product features

- T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Type of protection: IP20



## TECHNICAL DATA

### Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	220...240 V
Nominal current	150 mA
Type of current	AC
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz
Total harmonic distortion	< 30 %
Power factor $\lambda$	0.50

### Photometrical data

Luminous flux	2070 lm
Luminous efficacy	103 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	> 80
Light color	830
Standard deviation of color matching	$\leq 6$ sdc <sub>m</sub>
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4

### Light technical data

Beam angle	360 °
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### Dimensions & Weight

Overall length	1500.00 mm
Diameter	26.90 mm
Product weight	230.00 g

### Lifespan

Lifespan L70/B50 at 25 °C	30000 h
Number of switching cycles	50000

### Additional product data

Base (standard designation)	G13
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### Capabilities

Dimmable	No
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### Certificates & Standards

Energy efficiency class	F
Energy consumption	20.00 kWh/1000h
Type of protection	IP20
Photobiological safety group acc. to EN62778	RG1

### Country-specific categorizations

Order reference	ST8E-1.5M 20W/8
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### Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
Non-directional or directional	NDLS
Mains or non-mains	MLS
Light source cap-type (or other electric interface)	G13
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	No
High luminance light source	No
Anti-glare shield	No
Correlated colour temperature type	SINGLE_VALUE
Standby power	0 W
Networked standby power for CLS	0 W
Claim of equivalent power	Yes
Length	1500.00 mm
Height	26.90 mm
Width	26.90 mm
Chromaticity coordinate x	0,434
Chromaticity coordinate y	0,403
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.7
LED light source replaces a fluorescent light source	Yes

EPREL ID	2076155
Model number	AC66707,AC66707

### 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.

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854391514	Sleeve 1	1,555 mm x 27 mm x 27 mm	260.00 g	1.13 dm <sup>3</sup>
4099854391521	Shipping box 25	1,610 mm x 155 mm x 165 mm	7208.00 g	41.18 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.

### References / Links

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

### 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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