

# PRODUCT DATASHEET

## ST8A-EM 14 W/6500K 1200 mm EM

SubstiTUBE 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 technology
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (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
- 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



– Bright, robust and durable

## TECHNICAL DATA

### Electrical data

Rated wattage	14.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	14.00 W
Nominal current	0.064 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	70
Max. lamp no. on circuit break. B10 A - CCG without compensation	70
Max. lamp no. on circuit break. B10 A - CCG with compensation	15
Max. lamp no. on circuit break. B16 A - CCG without compensation	112
Max. lamp no. on circuit break. B16 A - CCG with compensation	24
Max. lamp no. on circuit break. 16 A (B)	112
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.90

### Photometrical data

Rated color temperature	6500 K
Nominal luminous flux	2100 lm
Rated luminous flux	2100 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Luminous flux	2100 lm
Color rendering index Ra	83
Standard deviation of color matching	$\leq 5$ sdcn

### Light technical data

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

Dimensions & weight



<b>Length with base excl. base pins/connection</b>	1200.00 mm
<b>Tube diameter</b>	25.8 mm
<b>Base diameter</b>	26.7 mm
<b>Product weight</b>	190.00 g
<b>Overall length</b>	1212 mm

Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
<b>Maximum temperature at tc test point</b>	75 °C

Lifespan

<b>Nominal lamp life time</b>	50000 h
<b>Rated lamp life time</b>	50000 h
<b>Number of switching cycles</b>	200000

Additional product data

<b>Base (standard designation)</b>	G13
<b>Mercury-free</b>	Yes

Capabilities

<b>Dimmable</b>	No
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Certificates & standards

<b>Type of protection</b>	IP20
<b>Standards</b>	CE
<b>Energy efficiency class</b>	A++
<b>Energy consumption</b>	14 kWh/1000h

Country-specific categorizations

<b>Order reference</b>	ST8A-1.2M 14W/8
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## Logistical data

<b>Temperature range at storage</b>	-20...+80 °C
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**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.

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
4058075454804	Sleeves 1	1305 mm x 29 mm x 29 mm	219.00 g	1.10 dm <sup>3</sup>
4058075454811	Shipping carton box 10	1352 mm x 210 mm x 115 mm	2780.00 g	32.65 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.

**DISCLAIMER**

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