

## PRODUCT DATASHEET

### ST8A-EM 8.7 W/3000 K 600 mm GEN11

SubstiTUBE Advanced Standard Output | High performance LED tubes for electromagnetic control gears



#### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry
- Train stations
- Offices

#### 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
- Also suitable for operation at low temperatures
- TRI Colour 3000K/4500K/6500K

#### Product features

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Bright, robust and durable
- Uniform illumination
- Integrated ECG with high power factor



- T8 LED tube made of glass with G13 base
- Luminous efficacy: up to 127 lm/W
- Mercury-free and RoHS compliant

## TECHNICAL DATA

### Electrical data

Nominal wattage	8.7 W
Construction wattage	8.70 W
Nominal voltage	220...240 V
Nominal current	40 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.90

### Photometrical data

Luminous flux	1050 lm
Luminous efficacy	120 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	$\geq 80$
Light color	830
Standard deviation of color matching	$\leq 6$ sdcn

### Light technical data

Beam angle	$> 160.00^\circ$
Starting time	< 0.5 s

### Dimensions & Weight

Overall length	600.00 mm
Diameter	28.00 mm
Maximum diameter	28 mm
Product weight	100.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
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### Lifespan

Number of switching cycles	50000
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**Additional product data**

Base (standard designation)	G13
Mercury content	0.0 mg

**Capabilities**

Dimmable	No
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**Certificates & Standards**

Type of protection	IP20
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**Country-specific categorizations**

Order reference	ST8A-0.6M 8,7W/
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**Energy labelling regulation data acc EU 2019/2015**

Light source cap-type (or other electric interface)	G13
Length	600.00 mm
Height	28.00 mm
Width	28.00 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**

Photometric and lighting design files	Document name
 IES file (IES)	ST8A 0.6M 8.7W 830 230V EM G11APM OSRAM
 Light distribution curve type polar	ST8A 0.6M 8.7W 830 230V EM G11APM OSRAM

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854035333	Sleeve 1	655 mm x 28 mm x 28 mm	119.00 g	0.52 dm <sup>3</sup>
4099854035340	Shipping box 25	700 mm x 168 mm x 170 mm	3481.00 g	19.99 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

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