

PRODUCT DATASHEET

ST8V-EM 16 W/6500 K 1200 mm

SubstiTUBE T8 EM VALUE | Economic LED tubes for electromagnetic control gears (CCG)



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Industry
- Warehouses
- Cooling and storage rooms
- Domestic applications
- Supermarkets and department stores

Product benefits

- No bending thanks to glass tube
- Energy savings of up to 68 % (compared to T8 fluorescent lamp on CCG)
- Quick, simple and safe replacement without rewiring
- 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	16 W
Construction wattage	16.00 W
Nominal voltage	230 V
Nominal current	133 mA
Type of current	AC
Power factor λ	> 0.50

Photometrical data

Luminous flux	1800 lm
Luminous efficacy	112 lm/W
Light color (designation)	Daylight
Color temperature	6500 K
Color rendering index Ra	≥80
Light color	865
Standard deviation of color matching	≤6 sdcn

Light technical data

Beam angle	160 °
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Dimensions & Weight

Overall length	1211.50 mm
Diameter	28.00 mm
Tube diameter	27,5 mm
Base diameter	25,7 mm
Product weight	215.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °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

Mercury-free	Yes
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Capabilities

Dimmable	No
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Certificates & Standards

Type of protection	IP20
Standards	CE

Country-specific categorizations

Order reference	ST8V-1.2M 16W/8
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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	1211.50 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)	ST8V-1.2M 16W 865 230V EM G7

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075052147	Sleeve 1	1,285 mm x 28 mm x 28 mm	234.00 g	1.01 dm ³
4058075052154	Shipping box 25	1,310 mm x 155 mm x 160 mm	6663.00 g	32.49 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

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.