PRODUCT DATASHEET
ST8V-EM 16 W/4000 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 ≤ 0.4 / PstLM ≤ 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
Nominal voltage	230 V
Nominal current	133 mA
Type of current	AC
Power factor λ	> 0.50

Photometrical data

Luminous flux	1800 lm
Nominal useful luminous flux 90°	1800 lm
Luminous efficacy	112 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	≤6 sdcm

Light technical data

Beam angle	160 °
Starting time	< 0.5 s

Dimensions & Weight

Overall length	1213.60 mm
Diameter	28.00 mm
Base diameter	25,7 mm
Product weight	190.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C

Lifespan

Number of switching cycles	50000

Additional product data

Base (standard designation)	G13

Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No

Certificates & Standards

Type of protection	IP20
Standards	CE

Country-specific categorizations

Order reference	ST8V-1.2M 16W/8

LOGISTICAL DATA

Temperature range at storage	-20…+80 °C

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	1213.60 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 840 230V EM
	LDT file (Eulumdat)	ST8V 1.2M 16W 840 230V EM
	Light distribution curve type polar	ST8V 1.2M 16W 840 230V EM

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075100251	Sleeve 2	1,259 mm x 54 mm x 27 mm	508.00 g	1.84 dm^3
4058075100268	Shipping box 50	272 mm x 187 mm x 1,255 mm	11629.00 g	63.83 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/substitube

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.