



PRODUCT DATASHEET

LEDTUBE T8EM V 1200 16 W/6500 K 1200 mm

LED TUBE T8 EM V | Economic LED tubes for electromagnetic control gear (CCG) and AC mains



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	125 mA
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
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 sdcM

Light technical data

Beam angle	> 160.00 °
Starting time	< 0.5 s

Dimensions & Weight

Overall length	1213.60 mm
Diameter	28.00 mm
Product weight	96.00 g

Temperatures & operating conditions

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

Lifespan L70/B50 at 25 °C	30000 h
Number of switching cycles	100000

Additional product data

Base (standard designation)	G13
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Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & Standards

Type of protection	IP20
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Country-specific categorizations

Order reference	LEDTUBE T8EM V
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Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
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)	ST8V1.2M 16W865 230V EM PC
 LDT file (Eulumdat)	ST8V1.2M 16W865 230V EM PC
 Light distribution curve type polar	ST8V1.2M 16W865 230V EM PC

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854309885	Sleeve 1	1,270 mm x 28 mm x 28 mm	115.00 g	1.00 dm ³
4099854309892	Shipping box 25	1,322 mm x 158 mm x 176 mm	4243.00 g	36.76 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.