

PRODUCT DATASHEET

ST8V-EM 20 W/3000K 1500 mm

SubstiTUBE 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
- Warehouses
- Domestic applications
- Supermarkets and department stores

PRODUCT BENEFITS

- No bending thanks to glass technology
- Energy savings of up to 65 % (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
- Uniform illumination
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (0.6 m version)
- Tube made of glass



TECHNICAL DATA

Electrical data

Rated wattage	20.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	20.00 W
Nominal current	0.095 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	73
Max. lamp no. on circuit break. B10 A - CCG without compensation	73
Max. lamp no. on circuit break. B10 A - CCG with compensation	14
Max. lamp no. on circuit break. B16 A - CCG without compensation	73
Max. lamp no. on circuit break. B16 A - CCG with compensation	22
Max. lamp no. on circuit break. 16 A (B)	117
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Rated color temperature	3000 K
Nominal luminous flux	1980 lm
Rated luminous flux	1980 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Luminous flux	1980 lm
Luminous efficacy	99 lm/W
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 6 sdc

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



Length with base excl. base pins/connection	1500.00 mm
Tube diameter	25.8 mm
Base diameter	26.7 mm
Product weight	230.00 g
Overall length	1513 mm

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	75 °C

Lifespan

Nominal lamp life time	30000 h
Rated lamp life time	30000 h
Number of switching cycles	200000

Additional product data

Base (standard designation)	G13
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A+
Energy consumption	20 kWh/1000h

Country-specific categorizations

Order reference	ST8V-1.5M 20W/8
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Logistical data

Temperature range at storage	-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.

The Tc Point is located underneath the product label on the front side of the lamp.

Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075454569	Sleeves 1	1555 mm x 29 mm x 29 mm	264.00 g	1.31 dm ³
4058075454576	Shipping carton box 10	1590 mm x 210 mm x 105 mm	3550.00 g	35.06 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.