

PRODUCT DATASHEET

ST8V-EM 16.4 W/4000K 1200 mm EM

SubstiTUBE Value | Economic LED tubes for electromagnetic control gears



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 conventional compact fluorescent lamps 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 | 16.40 W |
| Nominal voltage | 220...240 V |
| Operating frequency | 50...60 Hz |
| Nominal wattage | 16.40 W |
| Nominal current | 0.075 A |
| Type of current | AC |
| Max. lamp no. on circuit break. 10 A (B) | 93 |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 93 |
| Max. lamp no. on circuit break. B10 A - CCG with compensation | 20 |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 149 |
| Max. lamp no. on circuit break. B16 A - CCG with compensation | 32 |
| Max. lamp no. on circuit break. 16 A (B) | 149 |
| Total harmonic distortion | < 20 % |
| Power factor λ | > 0.90 |

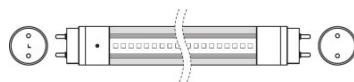
Photometrical data

| | |
|---|------------|
| Rated color temperature | 4000 K |
| Nominal luminous flux | 1800 lm |
| Rated luminous flux | 1800 lm |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Cool White |
| Color temperature | 4000 K |
| Luminous flux | 1800 lm |
| Luminous efficacy | 109 lm/W |
| Color rendering index Ra | ≥80 |
| Standard deviation of color matching | ≤6 sdcn |

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 | 1200.00 mm |
| Tube diameter | 25.8 mm |
| Base diameter | 26.7 mm |
| Product weight | 190.00 g |
| Overall length | 1212 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 |
|-----------------|----|

Certificates & standards

| | |
|--------------------------------|--------------|
| Type of protection | IP20 |
| Standards | CE |
| Energy efficiency class | A+ |
| Energy consumption | 17 kWh/1000h |

Country-specific categorizations

| | |
|------------------------|-----------------|
| Order reference | ST8V-1.2M 16,4W |
|------------------------|-----------------|

Logistical data

| | |
|-------------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|-------------------------------------|--------------|

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.

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075454521 | Sleeves 1 | 1255 mm x 29 mm x 29 mm | 219.00 g | 1.06 dm ³ |
| 4058075454538 | Shipping carton box 10 | 1290 mm x 210 mm x 105 mm | 2849.00 g | 28.44 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.