

PRODUCT DATASHEET

LED TUBE T8 EM V 900 mm 10W 840

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 69 % (compared to T8 fluorescent lamp)
- 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 ≤ 1)
- Single and tandem operation on conventional control gear ($\leq 0,9$ m versions)
- Tube made of glass
- Mercury-free and RoHS compliant
- Uniform illumination
- Type of protection: IP20



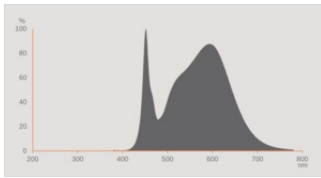
TECHNICAL DATA

Electrical data

| | |
|--|---------------|
| Nominal wattage | 10 W |
| Construction wattage | 10.00 W |
| Nominal voltage | 220...240 V |
| Operating mode | CCG, AC Mains |
| Nominal current | 47 mA |
| Type of current | AC |
| Inrush current | 10 A |
| Suitable for DC input | Yes |
| Input voltage DC | 186...260 V |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 65 |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 60 |
| Max. lamp no. on circuit break. B10 A - CCG with compensation | 21 |
| Max. lamp no. on circuit break. 16 A (B) | 82 |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 75 |
| Max. lamp no. on circuit break. B16 A - CCG with compensation | 27 |
| Total harmonic distortion | < 30 % |
| Power factor λ | 0.90 |

Photometrical data

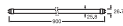
| | |
|---|--------------|
| Luminous flux | 1200 lm |
| Luminous efficacy | 120 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Cool White |
| Color temperature | 4000 K |
| Color rendering index Ra | 80 |
| Light color | 840 |
| Standard deviation of color matching | ≤ 6 sdc |
| Rated LLMF at 6,000 h | 0.80 |
| Flickering metric (Pst LM) | 1 |
| Stroboscope effect metric (SVM) | 0.4 |



Light technical data

| | |
|---------------------|----------|
| Beam angle | 190 ° |
| Warm-up time (60 %) | < 0.50 s |
| Starting time | < 0.5 s |

Dimensions & Weight



| | |
|---|-----------|
| Overall length | 908.00 mm |
| Length with base excl. base pins/connection | 900.00 mm |
| Diameter | 26.80 mm |
| Tube diameter | 25.8 mm |
| Maximum diameter | 28 mm |
| Product weight | 143.00 g |

Temperatures & operating conditions

| | |
|--------------------------------------|--------------|
| Ambient temperature range | -20...+45 °C |
| Maximum temperature at tc test point | 70 °C |

Lifespan

| | |
|--|---------|
| Lifespan L70/B50 at 25 °C | 30000 h |
| Number of switching cycles | 200000 |
| Lumen maintenance at end of service lifetime | 0.70 |
| Rated lamp survival factor at 6,000 h | ≥ 0.90 |

Additional product data

| | |
|-----------------------------|-----|
| Base (standard designation) | G13 |
|-----------------------------|-----|

| | |
|-----------------|--------|
| Mercury content | 0.0 mg |
| Mercury-free | Yes |

Capabilities

| | |
|----------|----|
| Dimmable | No |
|----------|----|

Certificates & Standards

| | |
|--|-----------------|
| Energy efficiency class | E ¹⁾ |
| Energy consumption | 10.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / EAC / UKCA |
| Photobiological safety group acc. to EN62778 | RG0 |

¹⁾ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

Country-specific categorizations

| | |
|-----------------|-----------------|
| Order reference | LEDTUBE T8 EM V |
|-----------------|-----------------|

LOGISTICAL DATA

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

Energy labelling regulation data acc EU 2019/2015

| | |
|---|--------------|
| Lighting technology used | LED |
| Non-directional or directional | NDLS |
| Mains or non-mains | MLS |
| Light source cap-type (or other electric interface) | G13 |
| Connected light source (CLS) | No |
| Color-tuneable light source | No |
| Envelope | No |
| High luminance light source | No |
| Anti-glare shield | No |
| Correlated colour temperature type | SINGLE_VALUE |
| Standby power | <0.5 W |
| Claim of equivalent power | No |
| Length | 908.00 mm |
| Height | 26.80 mm |
| Width | 26.80 mm |
| Chromaticity coordinate x | 0.38 |

| | |
|--|-----------------|
| Chromaticity coordinate y | 0.38 |
| R9 Colour rendering index | 0.00 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.9 |
| Displacement factor | 0.9 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1333982,1529828 |
| Model number | AC45389,AC51401 |

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.
- Not suitable for emergency lighting

DOWNLOAD DATA

Documents and certificates



User instruction



Declarations Of Conformity CE



Declarations Of Conformity UKCA

Photometric and lighting design files



IES file (IES)



LDT file (Eulumdat)



UGR file (UGR table)



LDC typ polar



Spectral power distribution

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854039126 | Sleeve 1 | 955 mm x 28 mm x 28 mm | 171.00 g | 0.75 dm ³ |
| 4099854039133 | Shipping box 10 | 990 mm x 170 mm x 100 mm | 2213.00 g | 16.83 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/ledtube

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.