

PRODUCT DATASHEET LED TUBE T8 18 EM PLASTIC 600 mm 6.6W 865

LED TUBE T8 EM PLASTIC | Economic plastic LED tubes for electromagnetic control gear (CCG)



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Domestic applications

Product benefits

- Extremely break resistant thanks to cover made of polycarbonate
- High color homogeneity
- Energy savings of up to 68 % compared to conventional T8 fluorescent lamps
- Instant flickerfree starting

Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires
- T8 LED tube made of plastic with G13 base
- Low flicker according to EU 2019-2020 (SVM \leq 0.4 / PstLM \leq 1)
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (0.6 m version)
- Type of protection: IP20



6.6W 865



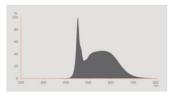
TECHNICAL DATA

Electrical data

| Nominal wattage | 6.6 W | |
|--|---|--|
| Construction wattage | 6.60 W | |
| Nominal voltage | 220240 V | |
| Operating mode | Conventional control gear (CCG), AC Mains | |
| Nominal current | 30 mA | |
| Type of current | AC | |
| Inrush current | 8 A | |
| Input voltage DC | 186260 V | |
| Operating frequency | 50/60 Hz | |
| Mains frequency | 50/60 Hz | |
| Max. lamp number on MCB B10 A | 70 | |
| Max. lamp number on MCB B10 A - CCG without compensation | 60 | |
| Max. lamp number on MCB B10 A - CCG with compensation | 25 | |
| Max. lamp number on MCB B16 A | 88 | |
| Max. lamp number on MCB B16 A - CCG without compensation | 75 | |
| Max. lamp number on MCB B16 A - CCG with compensation | 32 | |
| Total harmonic distortion | < 30 % | |
| Power factor λ | 0.90 | |

Photometrical data

| Luminous flux | 800 lm |
|---|---------------|
| Luminous efficacy | 121 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Cool Daylight |
| Color temperature | 6500 K |
| Color rendering index Ra | 80 |
| Light color | 865 |
| Standard deviation of color matching | ≤6 sdcm |
| Rated LLMF at 6,000 h | 0.80 |
| Flickering metric (Pst LM) | 1 |
| Stroboscope effect metric (SVM) | 0.4 |



EPREL data spectral diagram PROF LEDr 6500K

Light technical data

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

Dimensions & Weight



| Overall length | 604.00 mm |
|---|-----------|
| Length with base excl. base pins/connection | 600.00 mm |
| Diameter | 26.80 mm |
| Tube diameter | 25.8 mm |
| Maximum diameter | 28 mm |
| Product weight | 65.00 g |

Temperatures & operating conditions

| Ambient temperature range | -20+45 °C ¹⁾ |
|--------------------------------------|-------------------------|
| Maximum temperature at tc test point | 70 °C |

¹⁾ Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

Lifespan

| Lifespan L70/B50 at 25 °C | 30000 h |
|--|---------|
| Number of switching cycles | 200000 |
| Lumen maintenance at end of service lifetime | 0.70 |

| ≥ 0.90 |
|---------------------------------|
| |
| |
| G13 |
| 0.0 mg |
| Yes |
| |
| No |
| |
| E 1) |
| 7.00 kWh/1000h |
| IP20 |
| CE / EAC / UKCA |
| RG0 |
| LEDTUBE T8 18 E |
| LEDTUBE T8 18 E |
| |
| |
| -20+80 °C |
| -20+80 °C |
| -20+80 °C |
| |
| LED |
| LED NDLS |
| LED NDLS MLS |
| LED NDLS MLS G13 |
| LED NDLS MLS G13 No |
| LED NDLS MLS G13 No |
| LED NDLS MLS G13 No No |
| LED NDLS MLS G13 No No No No |
| LED NDLS MLS G13 No No No No No |
| |

| Length | 604.00 mm |
|--|-----------------|
| Height | 26.80 mm |
| Width | 26.80 mm |
| Chromaticity coordinate x | 0.313 |
| Chromaticity coordinate y | 0.337 |
| R9 Colour rendering index | 1 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.9 |
| Displacement factor | 0.9 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1334022,1529776 |
| Model number | AC45429,AC51441 |

EQUIPMENT / ACCESSORIES

- Suitable for operation on magnetic control gear

Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The Tc Point is located underneath the product label on the front side of the lamp.
- Not suitable for emergency lighting.
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.

DOWNLOAD DATA

| | Documents and certificates | Document name |
|-----|--|------------------------------------|
| POF | User instruction / safety instructions | LEDTUBE T8 EM PC OSRAM |
| POF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Declarations of conformity | LEDTUBE T8 EM |
| PDF | Declarations of conformity | LED TUBE T8 EM |
| PDF | Declarations of conformity UKCA | LED TUBE T8 EM |

| | Documents and certificates | Document name |
|-----|---------------------------------------|---|
| POF | Declarations of conformity UKCA | LEDTUBE T8 EM |
| | | |
| | Photometric and lighting design files | Document name |
| | IES file (IES) | LEDTUBE T8 18 EM PC 600 6.6W 865 OSRAM |
| | LDT file (Eulumdat) | LEDTUBE T8 18 EM PC 600 6.6W 865 OSRAM |
| | UGR file (UGR table) | LEDTUBE T8 18 EM PC 600 6.6W 865 OSRAM |
| | Light distribution curve type polar | LEDTUBE T8 18 EM PC 600 6.6W 865 OSRAM |
| | Spectral power distribution | EPREL data spectral diagram PROF LEDr 6500K |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854038860 | Sleeve 1 | 27 mm x 27 mm x 710 mm | 110.00 g | 0.52 dm ³ |
| 4099854038877 | Shipping box 8 | 755 mm x 143 mm x 100 mm | 1235.00 g | 10.80 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/osram-led-tube

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.