

PRODUCT DATASHEET SubstiTUBE T8 EM Food 11.6 W/3300 K 1200 mm

SubstiTUBE T8 EM FOOD | LED tubes for electromagnetic control gears (CCG), shatterproof, for food presentation



Areas of application

- Food presentation in e.g. butchers, bakeries, supermarkets or meat processors
- Suitable for ambient temperatures of -20 to +50 °C

Product benefits

- $\,$ Food looks fresh and appetizing without unduly "beautifying" it
- Quick, simple and safe replacement of fluorescent lamps without rewiring the CCG
- Energy savings of up to 60 % (compared to T8 fluorescent lamp on CCG)
- Shatter protection thanks to special PET coating
- Support the implementation of the HACCP concepts from production through to presentation
- No bending thanks to glass tube

Product features

- Specially tailored spectral distribution (comparable to T8 FL NATURA 76)
- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- VDE certified according to IEC62776
- Type of protection: IP20



1200 mm

- Replacement for fluorescent lamps with G13 base
- Mercury-free and RoHS compliant

TECHNICAL DATA

Electrical data

| Nominal wattage | 11.6 W |
|--|---|
| Construction wattage | 11.60 W |
| Nominal voltage | 220240 V |
| Operating mode | Conventional control gear (CCG), Line voltage |
| Nominal current | 56 mA |
| Type of current | AC |
| Inrush current | 7 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp number on MCB B10 A | 81 |
| Max. lamp number on MCB B10 A - CCG without compensation | 81 |
| Max. lamp number on MCB B10 A - CCG with compensation | 16 |
| Max. lamp number on MCB B16 A | 129 |
| Max. lamp number on MCB B16 A - CCG without compensation | 129 |
| Max. lamp number on MCB B16 A - CCG with compensation | 25 |
| Total harmonic distortion | < 20 % |
| Power factor λ | > 0.90 |

Photometrical data

| Luminous flux | 1100 lm |
|---|---------|
| Luminous efficacy | 94 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | NATURA |
| Color temperature | 3300 K |
| Color rendering index Ra | ≥80 |
| Light color | 833 |
| Standard deviation of color matching | ≤5 sdcm |

Light technical data

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

Dimensions & Weight

| Overall length | 1212.00 mm |
|---|-----------------|
| Diameter | 26.70 mm |
| Tube diameter | 5,80 mm |
| Maximum diameter | 27 mm |
| Product weight | 213.00 g |
| Temperatures & operating conditions | |
| Ambient temperature range | -20+50 °C |
| Maximum temperature at tc test point | 65 °C |
| Lifespan | |
| 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 |
| Capabilities | |
| Dimmable | No |
| Certificates & Standards | |
| Energy consumption | 12.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / VDE / CB |
| Photobiological safety group acc. to EN62778 | RG0 |
| Country-specific categorizations | |
| Order reference | RL-T8 36FOOD11, |
| LOGISTICAL DATA | |
| Temperature range at storage | -20+80 °C |
| Energy labelling regulation data acc EU 2019/2015 | |
| Light source cap-type (or other electric interface) | G13 |
| | |

1212.00 mm

26.70 mm

Length

Height

| Width | 26.70 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.

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4008597197994 | Sleeve 1 | 1,305 mm x 29 mm x 29 mm | 242.00 g | 1.10 dm ³ |
| 4008597497995 | Shipping box 10 | 1,352 mm x 210 mm x 115 mm | 3111.00 g | 32.65 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/substitube

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.