# PRODUCT DATASHEET
# ST8FOOD-EM 11.6 W/3300K 1200 mm EM

**SubstiTUBE FOOD | High performance LED tubes for electromagnetic control gears, shatterproof, for food presentation**


## AREAS OF APPLICATION

- General illumination within ambient temperatures from −20...+50 °C
- Supermarkets and department stores
- Bakeries, meat processors, butchers
- Shops
- Especially suitable for the food sector

## PRODUCT BENEFITS

- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- Food looks fresh and appetizing without unduly “beautifying” it
- No bending thanks to glass technology
- 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

## PRODUCT FEATURES

- Lamp tube made of glass with splinter protection e.g. for food industry applications
- Mercury-free and RoHS compliant
- VDE certified according to IEC62776
- Type of protection: IP20
- Replacement for fluorescent lamps with G13 base

– Specially tailored spectral distribution (comparable to T8 FL NATURA 76)

## TECHNICAL DATA

### Electrical data

| | |
|---|---|
| **Rated wattage** | 11.60 W |
| **Nominal voltage** | 220…240 V |
| **Operating frequency** | 50…60 Hz |
| **Nominal wattage** | 11.60 W |
| **Nominal current** | 0.056 A |
| **Type of current** | AC |
| **Max. lamp no. on circuit break. 10 A (B)** | 81 |
| **Max. lamp no. on circuit break. B10 A - CCG without compensation** | 81 |
| **Max. lamp no. on circuit break. B10 A - CCG with compensation** | 16 |
| **Max. lamp no. on circuit break. B16 A - CCG without compensation** | 129 |
| **Max. lamp no. on circuit break. B16 A - CCG with compensation** | 25 |
| **Max. lamp no. on circuit break. 16 A (B)** | 129 |
| **Total harmonic distortion** | < 20 % |
| **Power factor λ** | > 0.90 |

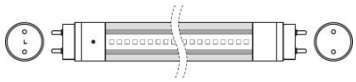
### Photometrical data

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

### 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 |
| **Product weight** | 213.00 g |
| **Overall length** | 1212 mm |

## Temperatures & operating conditions

| | |
|---|---|
| **Ambient temperature range** | -20…+50 °C |
| **Maximum temperature at tc test point** | 65 °C |

## Lifespan

| | |
|---|---|
| **Lifespan** | 50000 h |
| **Nominal lamp life time** | 50000 h |
| **Rated lamp life time** | 50000 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; VDE/CB |
| **Energy efficiency class** | A+ |
| **Energy consumption** | 12 kWh/1000h |

## Country-specific categorizations

| | |
|---|---|
| **Order reference** | ST8FOOD-1.2M11, |

### 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 |
|---|---|---|---|---|
| 4058075292499 | Sleeves<br>1 | 1305 mm x 29 mm x 29 mm | 242.00 g | 1.10 $dm^3$ |
| 4058075292505 | Shipping carton box<br>10 | 1352 mm x 210 mm x 115 mm | 3109.00 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.