

# PRODUCT DATASHEET

## ST8FOOD-EM 17.9 W/3300K 1500 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

- 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

- 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
- Specially tailored spectral distribution (comparable to T8 FL NATURA 76)
- VDE certified according to IEC62776
- Type of protection: IP20
- Replacement for fluorescent lamps with G13 base



– Mercury-free and RoHS compliant

## TECHNICAL DATA

### Electrical data

Rated wattage	17.90 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	17.90 W
Nominal current	0.08 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	56
Max. lamp no. on circuit break. B10 A - CCG without compensation	56
Max. lamp no. on circuit break. B10 A - CCG with compensation	9
Max. lamp no. on circuit break. B16 A - CCG without compensation	90
Max. lamp no. on circuit break. B16 A - CCG with compensation	14
Max. lamp no. on circuit break. 16 A (B)	90
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.90

### Photometrical data

Rated color temperature	3300 K
Nominal luminous flux	1700 lm
Rated luminous flux	1700 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	NATURA
Color temperature	3300 K
Luminous flux	1700 lm
Color rendering index Ra	≥80
Standard deviation of color matching	≤5 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



<b>Tube diameter</b>	25.8 mm
<b>Product weight</b>	287.00 g
<b>Overall length</b>	1513 mm

Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
<b>Maximum temperature at tc test point</b>	69 °C

Lifespan

<b>Lifespan</b>	50000 h
<b>Nominal lamp life time</b>	50000 h
<b>Rated lamp life time</b>	50000 h
<b>Number of switching cycles</b>	200000

Additional product data

<b>Base (standard designation)</b>	G13
<b>Mercury-free</b>	Yes

Capabilities

<b>Dimmable</b>	No
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Certificates & standards

<b>Type of protection</b>	IP20
<b>Standards</b>	CE; VDE/CB
<b>Energy efficiency class</b>	A+
<b>Energy consumption</b>	18 kWh/1000h

Country-specific categorizations

<b>Order reference</b>	ST8FOOD-1.5M17,
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## Logistical data

Temperature range at storage	-20...+80 °C
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## 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
4058075292512	Sleeves 1	1605 mm x 29 mm x 29 mm	321.00 g	1.35 dm <sup>3</sup>
4058075292529	Shipping carton box 10	1652 mm x 210 mm x 115 mm	4050.00 g	39.90 dm <sup>3</sup>

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](http://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.