

PRODUCT DATASHEET

ST8FOOD-EM 7.9 W/3300K 900 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 alternative to classic T8 fluorescent lamps in CCG luminaires
- 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	7.90 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	7.90 W
Nominal current	0.038 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	119
Max. lamp no. on circuit break. B10 A - CCG without compensation	119
Max. lamp no. on circuit break. B10 A - CCG with compensation	15
Max. lamp no. on circuit break. B16 A - CCG without compensation	190
Max. lamp no. on circuit break. B16 A - CCG with compensation	25
Max. lamp no. on circuit break. 16 A (B)	190
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Rated color temperature	3300 K
Nominal luminous flux	750 lm
Rated luminous flux	750 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	NATURA
Color temperature	3300 K
Luminous flux	750 lm
Color rendering index Ra	≥80
Standard deviation of color matching	≤5 sdc _m

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	900.00 mm
Tube diameter	25.8 mm
Product weight	162.00 g
Overall length	908.0 mm

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	63 °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
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Certificates & standards

Type of protection	IP20
Standards	CE; VDE/CB
Energy efficiency class	A+
Energy consumption	8 kWh/1000h

Country-specific categorizations

Order reference	ST8FOOD-0.9M 7,
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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
4058075292475	Sleeves 1	1000 mm x 29 mm x 29 mm	191.00 g	0.84 dm ³
4058075292482	Shipping carton box 10	1048 mm x 210 mm x 115 mm	2486.00 g	25.31 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/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.