

# PRODUCT FAMILY DATASHEET

## 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**

Product description	Electrical data								
	Rated wattage	Nominal voltage	Operating frequency	Nominal wattage	Nominal current	Type of current	Max. lamp no. on circuit break. B10 A - CCG without compensation	Max. lamp no. on circuit break. B16 A - CCG with compensation	Max. lamp no. on circuit break. B16 A - CCG without compensation
ST8FOOD-EM 7.9 W/3300K 900 mm EM	7.90 W	220...240 V	50...60 Hz	7.90 W	0.038 A	AC	119	25	190
ST8FOOD-EM 11.6 W/3300K 1200 mm EM	11.60 W	220...240 V	50...60 Hz	11.60 W	0.056 A	AC	81	25	129
ST8FOOD-EM 17.9 W/3300K 1500 mm EM	17.90 W	220...240 V	50...60 Hz	17.90 W	0.08 A	AC	56	14	90

Product description	Photometrical data							
	Max. lamp no. on circuit break. 10 A (B)	Max. lamp no. on circuit break. B10 A - CCG with compensation	Max. lamp no. on circuit break. 16 A (B)	Total harmonic distortion	Color temperature	Nominal luminous flux	Rated luminous flux	Lumen main.fact.at end of nom.life time
ST8FOOD-EM 7.9 W/3300K 900 mm EM	119	15	190	< 20 %	3300 K	750 lm	750 lm	0.70
ST8FOOD-EM 11.6 W/3300K 1200 mm EM	81	16	129	< 20 %	3300 K	1100 lm	1100 lm	0.70
ST8FOOD-EM 17.9 W/3300K 1500 mm EM	56	9	90	< 20 %	3300 K	1700 lm	1700 lm	0.70

Product description	Light technical data					Dimensions & weight			Temperatures & operating conditions		
	Light color (designation)	Color temperature	Luminous flux	Color rendering index Ra	Rated beam angle (half peak value)	Warm-up time (60 %)	Starting time	Tube diameter	Product weight	Overall length	Ambient temperature range
ST8FOOD-EM 7.9 W/3300K 900 mm EM	NATURA	3300 K	750 lm	≥80	190.00 °	< 0.50 s	< 0.5 s	25.8 mm	162.00 g	908.0 mm	-20...+50 °C
ST8FOOD-EM 11.6 W/3300K 1200 mm EM	NATURA	3300 K	1100 lm	≥80	190.00 °	< 0.50 s	< 0.5 s	25.8 mm	213.00 g	1212 mm	-20...+50 °C

Product description	Light color (designation)	Color temperature	Luminous flux	Color rendering index Ra	Light technical data			Dimensions & weight			Temperatures & operating conditions
					Rated beam angle (half peak value)	Warm-up time (60 %)	Starting time	Tube diameter	Product weight	Overall length	Ambient temperature range
ST8FOOD-EM 17.9 W/3300K 1500 mm EM	NATURA	3300 K	1700 lm	≥80	190.00 °	< 0.50 s	< 0.5 s	25.8 mm	287.00 g	1513 mm	-20...+50 °C

Product description	Maximum temperature at tc test point	Lifespan		Additional product data		Capabilities	Certificates & standards	Logistical data
		Nominal lamp life time	Number of switching cycles	Base (standard designation)	Mercury-free	Dimmable	Type of protection	Temperature range at storage
ST8FOOD-EM 7.9 W/3300K 900 mm EM	63 °C	50000 h	200000	G13	Yes	No	IP20	-20...+80 °C
ST8FOOD-EM 11.6 W/3300K 1200 mm EM	65 °C	50000 h	200000	G13	Yes	No	IP20	-20...+80 °C
ST8FOOD-EM 17.9 W/3300K 1500 mm EM	69 °C	50000 h	200000	G13	Yes	No	IP20	-20...+80 °C



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ST8FOOD-EM 7.9 W/3300K 900 mm EM,  
ST8FOOD-EM 11.6 W/3300K 1200 mm  
EM, ST8FOOD-EM 17.9 W/3300K 1500  
mm EM

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#### EQUIPMENT / ACCESSORIES

- Suitable for operation with low-loss and conventional control gears

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#### 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.

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#### APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

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#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075292482	Shipping carton box 10	1048 mm x 210 mm x 115 mm	2486.00 g	25.31 dm <sup>3</sup>
4058075292505	Shipping carton box 10	1352 mm x 210 mm x 115 mm	3109.00 g	32.65 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.

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#### REFERENCES / LINKS

For current information see

▶ [www.ledvance.com/substitute](http://www.ledvance.com/substitute)

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#### 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.

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#### DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.