

PRODUCT FAMILY DATASHEET

SubstiTUBE Value

Economic LED tubes for electromagnetic control gears



AREAS OF APPLICATION

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Industry
- Warehouses
- Cooling and storage rooms
- Warehouses
- Domestic applications
- Supermarkets and department stores

PRODUCT BENEFITS

- No bending thanks to glass technology
- Energy savings of up to 65 % (compared to T8 fluorescent lamp on CCG)
- Quick, simple and safe replacement without rewiring
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads
- Also suitable for operation at low temperatures

PRODUCT FEATURES

- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- Uniform illumination
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (0.6 m version)
- Tube made of glass



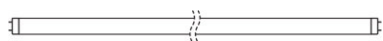
TECHNICAL DATA

Product description	Electrical data					Photometrical data						
	Rated wattage	Nominal voltage	Nominal wattage	Nominal current	Type of current	Color temperature	Nominal luminous flux	Rated luminous flux	Light color (designation)	Color temperature	Luminous flux	Luminous efficacy
ST8V-EM 8.7 W/3000K 600 mm	8.70 W	220...240 V	8.70 W	0.04 A	AC	3000 K	945 lm	945 lm	Warm White	3000 K	945 lm	108 lm/W
ST8V-EM 8.7 W/4000K 600 mm	8.70 W	220...240 V	8.70 W	0.04 A	AC	4000 K	1050 lm	1050 lm	Cool White	4000 K	1050 lm	120 lm/W
ST8V-EM 8.7 W/6500K 600 mm	8.70 W	220...240 V	8.70 W	0.04 A	AC	6500 K	1050 lm	1050 lm	Daylight	6500 K	1050 lm	120 lm/W
ST8V-EM 17.5 W/3000K 1200 mm	17.50 W	220...240 V	17.50 W	0.08 A	AC	3000 K	1890 lm	1890 lm	Warm White	3000 K	1890 lm	108 lm/W
ST8V-EM 17.5 W/4000K 1200 mm	17.50 W	220...240 V	17.50 W	0.08 A	AC	4000 K	2100 lm	2100 lm	Cool White	4000 K	2100 lm	120 lm/W
ST8V-EM 17.5 W/6500K 1200 mm	17.50 W	220...240 V	17.50 W	0.08 A	AC	6500 K	2100 lm	2100 lm	Daylight	6500 K	2100 lm	120 lm/W

Product description	Color rendering index Ra	Dimensions & weight				Temperatures & operating conditions	Lifespan	
		Tube diameter	Base diameter	Product weight	Overall length	Ambient temperature range	Nominal lamp life time	Number of switching cycles
ST8V-EM 8.7 W/3000K 600 mm	≥80	27.5 mm	25.7 mm	120.00 g	604.0 mm	-20...+50 °C	30000 h	
ST8V-EM 8.7 W/4000K 600 mm	≥80	27.5 mm	25.7 mm	120.00 g	604.0 mm	-20...+50 °C	30000 h	50000
ST8V-EM 8.7 W/6500K 600 mm	≥80	27.5 mm	25.7 mm	120.00 g	604.0 mm	-20...+50 °C	30000 h	
ST8V-EM 17.5 W/3000K 1200 mm	≥80	27.5 mm	25.7 mm	230.00 g	1214 mm	-20...+50 °C	30000 h	
ST8V-EM 17.5 W/4000K 1200 mm	≥80	27.5 mm	25.7 mm	230.00 g	1214 mm	-20...+50 °C	30000 h	50000
ST8V-EM 17.5 W/6500K 1200 mm	≥80	27.5 mm	25.7 mm	230.00 g	1214 mm	-20...+50 °C	30000 h	

Product description	Additional product data		Certificates & standards	Logistical data
	Base (standard designation)	Mercury-free	Type of protection	Temperature range at storage
ST8V-EM 8.7 W/3000K 600 mm	G13	Yes	IP20	-20...+80 °C
ST8V-EM 8.7 W/4000K 600 mm	G13	Yes	IP20	-20...+80 °C
ST8V-EM 8.7 W/6500K 600 mm	G13	Yes	IP20	-20...+80 °C
ST8V-EM 17.5 W/3000K 1200 mm	G13	Yes	IP20	-20...+80 °C

	Additional product data		Certificates & standards	Logistical data
Product description	Base (standard designation)	Mercury-free	Type of protection	Temperature range at storage
ST8V-EM 17.5 W/4000K 1200 mm	G13	Yes	IP20	-20...+80 °C
ST8V-EM 17.5 W/6500K 1200 mm	G13	Yes	IP20	-20...+80 °C



ST8V-EM 8.7 W/3000K 600 mm, ST8V-EM 8.7 W/4000K 600 mm, ST8V-EM 8.7 W/6500K 600 mm, ST8V-EM 17.5 W/3000K 1200 mm, ST8V-EM 17.5 W/4000K 1200 mm, ST8V-EM 17.5 W/6500K 1200 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.

APPLICATION ADVICE

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

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075183278	Shipping carton box 25	740 mm x 167 mm x 185 mm	4062.00 g	22.86 dm ³
4058075183254	Shipping carton box 25	740 mm x 167 mm x 185 mm	4062.00 g	22.86 dm ³
4058075183230	Shipping carton box 25	740 mm x 167 mm x 185 mm	4062.00 g	22.86 dm ³
4058075183339	Shipping carton box 25	1340 mm x 167 mm x 185 mm	7210.00 g	41.40 dm ³
4058075183315	Shipping carton box 25	1340 mm x 167 mm x 185 mm	7210.00 g	41.40 dm ³
4058075183292	Shipping carton box 25	1340 mm x 167 mm x 185 mm	7210.00 g	41.40 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.