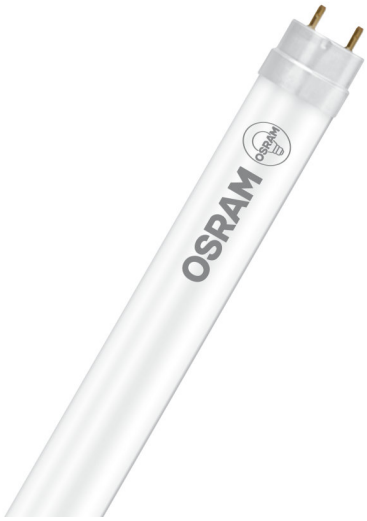
PRODUCT FAMILY DATASHEET
SubstiTUBE Value

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 classic T8 fluorescent lamps with G13 socket 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

	Electrical data					Photometrical data					
Product description	**Rated wattage**	**Nominal voltage**	**Nominal wattage**	**Nominal current**	**Type of current**	**Color temper-ature**	**Nominal luminous flux**	**Rated luminous flux**	**Lumen main.fact.at end of nom.life time**	**Light color (designation)**	**Color temper-ature**
ST8V-EM 8 W/3000K 600 mm	8.00 W	230 V	8.00 W	0.062 A	AC	3000 K	850 lm	850 lm	0.70	Warm White	3000 K
ST8V-EM 8 W/4000K 600 mm	8.00 W	230 V	8.00 W	0.062 A	AC	4000 K	900 lm	900 lm	0.70	Cool White	4000 K
ST8V-EM 8 W/6500K 600 mm	8.00 W	230 V	8.00 W	0.062 A	AC	6500 K	900 lm	900 lm	0.70	Daylight	6500 K
ST8V-EM 16 W/4000K 1200 mm	16.00 W	230 V	16.00 W	0.12 A	AC	4000 K	1800 lm	1800 lm	0.70	Cool White	4000 K
ST8V-EM 16 W/6500K 1200 mm	16.00 W	230 V	16.00 W	0.12 A	AC	6500 K	1800 lm	1800 lm	0.70	Daylight	6500 K
ST8V-EM 20 W/4000K 1500 mm	20.00 W	230 V	20.00 W	0.15 A	AC	4000 K	2400 lm	2400 lm	0.70	Cool White	4000 K
ST8V-EM 20 W/6500K 1500 mm	20.00 W	230 V	20.00 W	0.15 A	AC	6500 K	2400 lm	2400 lm	0.70	Daylight	6500 K

				Light technical data		Dimensions & weight				Temperatures & operating conditions
Product description	**Luminous flux**	**Luminous efficacy**	**Color render-ing index Ra**	**Starting time**	**Rated beam angle (half peak value)**	**Tube diamete r**	**Base diameter**	**Product weight**	**Overall length**	**Ambient temperature range**
ST8V-EM 8 W/3000K 600 mm	850 lm	106 lm/W	≥80	< 0.5 s	160.00 °	27.5 mm	25.7 mm	116.00 g	604.0 mm	-20...+50 °C
ST8V-EM 8 W/4000K 600 mm	900 lm	112 lm/W	≥80	< 0.5 s	160.00 °	27.5 mm	25.7 mm	116.00 g	604.0 mm	-20...+50 °C
ST8V-EM 8 W/6500K 600 mm	900 lm	112 lm/W	≥80	< 0.5 s	160.00 °	27.5 mm	25.7 mm	116.00 g	604.0 mm	-20...+50 °C
ST8V-EM 16 W/4000K 1200 mm	1800 lm	112 lm/W	≥80	< 0.5 s	160.00 °	27.5 mm	25.7 mm	190.00 g	1214 mm	-20...+50 °C
ST8V-EM 16 W/6500K 1200 mm	1800 lm	112 lm/W	≥80	< 0.5 s	160.00 °	27.5 mm	25.7 mm	190.00 g	1214 mm	-20...+50 °C
ST8V-EM 20 W/4000K 1500 mm	2400 lm	120 lm/W	≥80			27.5 mm	25.7 mm	260.00 g	1514 mm	-20...+50 °C
ST8V-EM 20 W/6500K 1500 mm	2400 lm	120 lm/W	≥80	< 0.5 s	160.00 °	27.5 mm	25.7 mm	260.00 g	1514 mm	-20...+50 °C

	Lifespan		Additional product data		Capabilities	Certificates & standards	Logistical data
Product description	**Nominal lamp life time**	**Number of switching cycles**	**Base (standard designation)**	**Mercury-free**	**Dimmable**	**Type of protection**	**Temperature range at storage**
ST8V-EM 8 W/3000K 600 mm	30000 h	50000	G13	Yes	No	IP20	-20...+80 °C

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ST8V-EM 8 W/4000K 600 mm	30000 h	50000	G13	Yes	No	IP20	-20…+80 °C
ST8V-EM 8 W/6500K 600 mm	30000 h	50000	G13	Yes	No	IP20	-20…+80 °C
ST8V-EM 16 W/4000K 1200 mm	30000 h	50000	G13	Yes	No	IP20	-20…+80 °C
ST8V-EM 16 W/6500K 1200 mm	30000 h	50000	G13	Yes	No	IP20	-20…+80 °C
ST8V-EM 20 W/4000K 1500 mm	30000 h		G13	Yes	No	IP20	-20…+80 °C
ST8V-EM 20 W/6500K 1500 mm	30000 h	50000	G13	Yes	No	IP20	-20…+80 °C

ST8V-EM 8 W/3000K 600 mm, ST8V-EM 8 W/4000K 600 mm, ST8V-EM 8 W/6500K 600 mm, ST8V-EM 16 W/4000K 1200 mm, ST8V-EM 16 W/6500K 1200 mm, ST8V-EM 20 W/4000K 1500 mm, ST8V-EM 20 W/6500K 1500 mm

EQUIPMENT / ACCESSORIES

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

SAFETY ADVICE

Not suitable for operation with electronic control gear.
The Tc Point is located underneath the product label on the front side of the lamp.
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
4058075052055	Shipping carton box 25	710 mm x 155 mm x 160 mm	3880.00 g	17.61 dm^3
4058075052079	Shipping carton box 25	710 mm x 155 mm x 160 mm	3880.00 g	17.61 dm^3
4058075052093	Shipping carton box 25	710 mm x 155 mm x 160 mm	3880.00 g	17.61 dm^3
4058075052130	Shipping carton box 25	1310 mm x 155 mm x 160 mm	6663.00 g	32.49 dm^3
4058075100268	Shipping carton box 50	272 mm x 187 mm x 1255 mm	11629.00 g	63.83 dm^3
4058075052154	Shipping carton box 25	1310 mm x 155 mm x 160 mm	6663.00 g	32.49 dm^3
4058075100282	Shipping carton box 50	272 mm x 187 mm x 1255 mm	11629.00 g	63.83 dm^3

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075493896	Shipping carton box 25	1622 mm x 158 mm x 176 mm	8745.00 g	45.10 dm^3
4058075052215	Shipping carton box 25	1610 mm x 155 mm x 160 mm	7939.00 g	39.93 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.