

# PRODUCT DATASHEET

## ST8V-EM 19.1 W/6500K 1500 mm EM

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
- Cooling and storage rooms
- Domestic applications
- Industry
- Warehouses
- Supermarkets and department stores

### PRODUCT BENEFITS

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 65 % (compared to T8 fluorescent lamp on CCG)
- 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 alternative to classic T8 fluorescent lamps in CCG luminaires
- Uniform illumination
- Mercury-free and RoHS compliant
- Luminous efficacy: up to 105 lm/W
- Tube made of glass



## TECHNICAL DATA

### Electrical data

Rated wattage	19.10 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	19.10 W
Nominal current	0.088 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	85
Max. lamp no. on circuit break. B10 A - CCG without compensation	85
Max. lamp no. on circuit break. B10 A - CCG with compensation	14
Max. lamp no. on circuit break. B16 A - CCG without compensation	135
Max. lamp no. on circuit break. B16 A - CCG with compensation	22
Max. lamp no. on circuit break. 16 A (B)	135
Power factor $\lambda$	0.90

### Photometrical data

Rated color temperature	6500 K
Nominal luminous flux	2000 lm
Rated luminous flux	2000 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Luminous flux	2000 lm
Color rendering index Ra	$\geq 80$
Standard deviation of color matching	$\leq 6$ 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



Length with base excl. base pins/connection	1500.00 mm
Tube diameter	25.6 mm
Base diameter	26.7 mm
Product weight	260.00 g
Overall length	1513 mm

## Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
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## Lifespan

Nominal lamp life time	30000 h
Rated lamp life time	30000 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	CECB
Energy efficiency class	A+
Energy consumption	20 kWh/1000h

## Country-specific categorizations

ILCOS	DR-19.1/865-G13-25.5/1500
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<b>Order reference</b>	ST8V-1.5M 19,1W
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## Logistical data

<b>Temperature range at storage</b>	-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
4058075024779	Sleeves 1	1605 mm x 29 mm x 29 mm	294.00 g	1.35 dm <sup>3</sup>
4058075024786	Shipping carton box 10	1652 mm x 210 mm x 115 mm	3710.00 g	39.90 dm <sup>3</sup>
4058075156326	Shipping carton box 10	1652 mm x 210 mm x 115 mm	3732.00 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.