

# PRODUCT DATASHEET

## ST8S-EM 19.1 W/3000 K 1500 mm EM

SubstiTUBE STAR | Economic LED tubes for electromagnetic control gears



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### AREAS OF APPLICATION

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

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### PRODUCT BENEFITS

- High color homogeneity
- Energy savings of up to 68 % compared to conventional 1,500 mm T8 fluorescent lamp
- Instant flickerfree starting

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### PRODUCT FEATURES

- T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Luminous efficacy: up to 105 lm/W
- Type of protection: IP20



**TECHNICAL DATA**

Electrical data

<b>Rated wattage</b>	19.10 W
<b>Nominal voltage</b>	220...240 V
<b>Operating frequency</b>	50...60 Hz
<b>Nominal wattage</b>	19.10 W
<b>Nominal current</b>	0.088 A
<b>Type of current</b>	AC
<b>Power factor <math>\lambda</math></b>	> 0.90

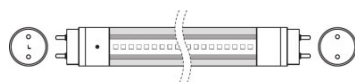
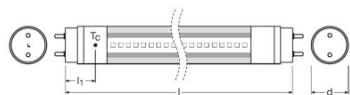
Photometrical data

<b>Rated color temperature</b>	3000 K
<b>Nominal luminous flux</b>	1800 lm
<b>Rated luminous flux</b>	1800 lm
<b>Lumen main.fact.at end of nom.life time</b>	0.70
<b>Light color (designation)</b>	Warm White
<b>Color temperature</b>	3000 K
<b>Luminous flux</b>	1800 lm
<b>Color rendering index Ra</b>	$\geq 80$
<b>Standard deviation of color matching</b>	$\leq 6$ sdc <sub>m</sub>

Light technical data

<b>Starting time</b>	< 0.5 s
<b>Warm-up time (60 %)</b>	< 0.50 s
<b>Rated beam angle (half peak value)</b>	190.00 °

Dimensions & weight



<b>Length with base excl. base pins/connection</b>	1500.00 mm
<b>Product weight</b>	260.00 g

<b>Overall length</b>	1513 mm
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### Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+45 °C
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### Lifespan

<b>Lifespan</b>	30000 h
<b>Nominal lamp life time</b>	30000 h
<b>Rated lamp life time</b>	30000 h
<b>Number of switching cycles</b>	200000

### Additional product data

<b>Base (standard designation)</b>	G13
<b>Mercury-free</b>	Yes

### Capabilities

<b>Dimmable</b>	No
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### Certificates & standards

<b>Type of protection</b>	IP20
<b>Standards</b>	CE
<b>Energy efficiency class</b>	A+
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<b>Energy consumption</b>	20 kWh/1000h

### Country-specific categorizations

<b>ILCOS</b>	DR-19.1/830-G13-25.5/1500
<b>Order reference</b>	ST8S-1.5M 19,1W

### Logistical data

<b>Temperature range at storage</b>	-20...80 °C
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## EQUIPMENT / ACCESSORIES

- Suitable for operation on magnetic control gear

## SAFETY ADVICE

Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

## LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075024557	ST8S-EM 19.1 W/3000 K 1500 mm EM	Shipping carton box 8	1660 mm x 182 mm x 125 mm	37.77 dm <sup>3</sup>	3150.00 g

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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#### 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.