

# PRODUCT DATASHEET

## ST8SP-EM 19.1 W/4000K 1500 mm EM

SubstiTUBE STAR PC | Economic LED tubes for electromagnetic control gears



### AREAS OF APPLICATION

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

### PRODUCT BENEFITS

- Extremely break resistant thanks to cover made of polycarbonate
- High color homogeneity
- Energy savings of up to 68 % compared to conventional 1,500 mm T8 fluorescent lamp
- Instant flickerfree starting

### PRODUCT FEATURES

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



## 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	136
Max. lamp no. on circuit break. B16 A - CCG with compensation	22
Max. lamp no. on circuit break. 16 A (B)	136
Power factor $\lambda$	> 0.90

### Photometrical data

Rated color temperature	4000 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 White
Color temperature	4000 K
Luminous flux	2000 lm
Color rendering index Ra	≥80
Standard deviation of color matching	≤6 sdc

### 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	27.2 mm
Product weight	148.00 g
Overall length	1513 mm

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	75 °C

Lifespan

Lifespan	30000 h
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	CE/CB
Energy efficiency class	A+
Energy consumption	20 kWh/1000h

Country-specific categorizations

<b>ILCOS</b>	DR-19.1/840-G13-25.5/1500
<b>Order reference</b>	BASEST8-1.5M 19

## 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	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075116337	Folding carton box 2	60 mm x 1625 mm x 32 mm	248.00 g	3.12 dm <sup>3</sup>
4058075116344	Shipping carton box 12	1645 mm x 145 mm x 135 mm	3283.00 g	32.20 dm <sup>3</sup>
4058075820319	Sleeves 1	1612 mm x 36 mm x 29 mm	250.00 g	1.68 dm <sup>3</sup>
4058075820326	Shipping carton box 8	1629 mm x 148 mm x 88 mm	2300.00 g	21.22 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.

## 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.