

PRODUCT DATASHEET ST8S-EM 16.4 W/4000K 1200 mm EM

SubstiTUBE STAR | 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

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

PRODUCT FEATURES

- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (0.6 m version)
- Type of protection: IP20
- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains



TECHNICAL DATA

Electrical data

Rated wattage	16.40 W
Nominal voltage	220240 V
Operating frequency	5060 Hz
Nominal wattage	16.40 W
Nominal current	0.075 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	93
Max. lamp no. on circuit break. B10 A - CCG without compensation	93
Max. lamp no. on circuit break. B10 A - CCG with compensation	20
Max. lamp no. on circuit break. B16 A - CCG without compensation	149
Max. lamp no. on circuit break. B16 A - CCG with compensation	32
Max. lamp no. on circuit break. 16 A (B)	149
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	1800 lm
Rated luminous flux	1800 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	1800 lm
Luminous efficacy	109 lm/W
Color rendering index Ra	≥80
Standard deviation of color matching	≤6 sdcm

Light technical data

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

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Dimensions & weight





Length with base excl. base pins/connection	1200.00 mm	
Tube diameter	25.8 mm	
Base diameter	26.7 mm	
Product weight	190.00 g	
Overall length	1212 mm	

Temperatures & operating conditions

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

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	CE
Energy efficiency class	A+
Energy consumption	17 kWh/1000h

Country-specific categorizations

Order reference	ST8S-1.2M 16,4W

Logistical data

	Temperature range at storage	-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
4058075455382	Sleeves 1	1310 mm x 27 mm x 27 mm	267.00 g	0.95 dm³
4058075455399	Shipping carton box 8	1355 mm x 184 mm x 130 mm	3732.00 g	32.41 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.

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.