

PRODUCT DATASHEET

ST8S-EM 7.6 W/3000K 600 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
- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains

PRODUCT FEATURES

- 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



TECHNICAL DATA

Electrical data

Rated wattage	7.60 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	7.60 W
Nominal current	0.035 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	208
Max. lamp no. on circuit break. B10 A - CCG without compensation	208
Max. lamp no. on circuit break. B10 A - CCG with compensation	20
Max. lamp no. on circuit break. B16 A - CCG without compensation	333
Max. lamp no. on circuit break. B16 A - CCG with compensation	32
Max. lamp no. on circuit break. 16 A (B)	333
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Rated color temperature	3000 K
Nominal luminous flux	720 lm
Rated luminous flux	720 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Luminous flux	720 lm
Luminous efficacy	94 lm/W
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	590.00 mm
Tube diameter	25.8 mm
Product weight	105.00 g
Overall length	603.0 mm

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	65 °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
Energy efficiency class	A+
Energy consumption	8 kWh/1000h

Country-specific categorizations

ILCOS	DR-7.6/830-G13-25.5/600
Order reference	ST8S-0.6M 7,6W/

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
4058075024434	Sleeves 1	710 mm x 27 mm x 27 mm	150.00 g	0.52 dm ³
4058075024441	Shipping carton box 8	753 mm x 182 mm x 125 mm	1509.00 g	17.13 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.