

PRODUCT DATASHEET ST8A-EM 7.3 W/4000 K 600 mm

SubstiTUBE® Advanced | High performance LED tubes for electromagnetic control gears, shatterproof



Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

Product benefits

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (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
- Shatter protection thanks to special PET coating
- Support the implementation of the HACCP concepts from production through to presentation

Product features

- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- Bright, robust and durable



- Uniform illumination
- Single and tandem operation on conventional control gear (0.6 m version)
- Tube made of glass
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lamp tube made of glass with splinter protection e.g. for food industry applications

TECHNICAL DATA

Electrical data

Nominal wattage	7.3 W
Construction wattage	7.30 W
Nominal voltage	220240 V
Claimed equiv. conventional lamp power	18 W
Nominal current	36 mA
Type of current	AC
Inrush current	3.6 A
Operating frequency	5060 Hz
Mains frequency	5060 Hz
Max. lamp no. on circuit break. 10 A (B)	125
Max. lamp no. on circuit break. B10 A - CCG without compensation	125
Max. lamp no. on circuit break. B10 A - CCG with compensation	16
Max. lamp no. on circuit break. 16 A (B)	200
Max. lamp no. on circuit break. B16 A - CCG without compensation	200
Max. lamp no. on circuit break. B16 A - CCG with compensation	25
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	1100 lm
Luminous efficacy	150 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 К
Color rendering index Ra	83
Light color	840
Standard deviation of color matching	≤5 sdcm

Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	190.00 °



Dimensions & Weight

Overall length	603.00 mm
Length with base excl. base pins/connection	600,00 mm
Diameter	26.70 mm
Tube diameter	25.8 mm
Base diameter	26,7 mm
Maximum diameter	27 mm
Product weight	100.00 g

Temperatures & operating conditions

Ambient temperature range	-25+50 °C
Maximum temperature at tc test point	64 °C

Lifespan

Nominal lamp life time	50000 h
Number of switching cycles	200000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	≥ 0.90

Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

Capabilities

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Certificates & Standards

Energy efficiency class	A++ ¹⁾
Energy consumption	8.00 kWh/1000h
Type of protection	IP20
Standards	CE; VDE
Photobiological safety group acc. to EN62778	RGO

1) Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations



Order reference	ST8A-0.6M 7,3W/
LOGISTICAL DATA	

Temperature range at storage -25...+80 °C

Energy labellling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	603.00 mm
Height	26.70 mm
Width	26.70 mm

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.
- The Tc Point is located underneath the product label on the front side of the lamp.

DOWNLOAD DATA

	DOWNLOAD DATA
POF	PRODUCT DATASHEET ST8A-EM 7.3 W 4000K 600 mm DATASHEET
1	IES file (IES) AC17902_ST8A-0,6M 7,3W 840 220-240V
1	LDT file (Eulumdat) AC17902_ST8A-0,6M 7,3W 840 220-240V

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075136410	Sleeve 1	695 mm x 29 mm x 29 mm	121.00 g	0.58 dm ³
4058075136427	Shipping box 10	742 mm x 210 mm x 115 mm	1693.00 g	17.92 dm³

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/substitube

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.