PRODUCT DATASHEET
ST8S-UN 8 W/4000 K 600 mm

SubstiTUBE T8 STAR UNIVERSAL | LED tubes for electronic and electromagnetic control gears



Areas of application

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

Product benefits

- Also suitable for operation at low temperatures
- Easy installation
- No bending thanks to glass technology

Product features

- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime: up to 30,000 h
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage





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TECHNICAL DATA

Electrical data

Nominal wattage	8 W
Construction wattage	8.00 W
Nominal voltage	220…240 V
Nominal current	45 mA [1)]
Type of current	AC
Inrush current	42 A
Operating frequency	50…60 Hz
Mains frequency	50…60 Hz [2)]
Max. lamp no. on circuit break. 10 A (B)	113
Max. lamp no. on circuit break. B10 A - CCG without compensation	113
Max. lamp no. on circuit break. B10 A - CCG with compensation	37
Max. lamp no. on circuit break. 16 A (B)	166
Max. lamp no. on circuit break. B16 A - CCG without compensation	166
Max. lamp no. on circuit break. B16 A - CCG with compensation	62
Power factor λ	0.80

1) 378 mA for ECG (HF)

2) 20-75KHz for ECG (HF)

Photometrical data

Luminous flux	800 lm
Luminous efficacy	100 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥80
Light color	840
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80

Light technical data

Beam angle	160 °
Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s

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Rated beam angle (half peak value)	160.00 °

Dimensions & Weight

Overall length	600.00 mm
Length with base excl. base pins/connection	598,00 mm
Diameter	28.00 mm
Tube diameter	26,7 mm
Base diameter	28,0 mm
Maximum diameter	28 mm
Product weight	133.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	53 °C

Lifespan

Lifespan	30000 h
Number of switching cycles	100000
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

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	F [1)]
Energy consumption	8.00 kWh/1000h
Type of protection	IP20
Standards	CE

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

Country-specific categorizations

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Order reference	ST8S-0.6M 8W/84

LOGISTICAL DATA

Temperature range at storage	-20...+80 °C

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	600.00 mm
Height	28.00 mm
Width	28.00 mm
EPREL ID	1582630
Model number	AC11156

Safety advice

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

DOWNLOAD DATA

	Documents and certificates
PDF	Installation guide

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075137240	Sleeve 1	29 mm x 36 mm x 708 mm	178.00 g	0.74 dm^3
4058075137257	Shipping box 8	753 mm x 182 mm x 125 mm	2202.00 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.

References / Links

- For current information see www.ledvance.com/substitube

Legal advice

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– When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

DISCLAIMER

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