

PRODUCT DATASHEET

ST8B-AC 20 W/4000 K 1500 mm

SubstiTUBE® Basic | Standard LED tubes



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Cooling and storage rooms
- Corridors, stairways, parking garages
- Ideal for simple lighting tasks

Product benefits

- Quick, simple and safe replacement without rewiring
- Low maintenance costs thanks to long lifetime
- Energy savings of up to 65 % (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

Product features

- Uniform illumination
- Wide beam angle: 160° (1.2 m), 150° (1.5 m)
- Integrated ECG with high power factor
- Mercury-free and RoHS compliant
- Type of protection: IP20
- LED alternative to classic T8 fluorescent lamps



TECHNICAL DATA

Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	40 W
Nominal current	150 mA
Type of current	AC
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz
Total harmonic distortion	120.82 %
Power factor λ	> 0.50

Photometrical data

Luminous flux	1800 lm
Luminous efficacy	90 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Neutral White
Color temperature	4000 K
Color rendering index Ra	≥ 80
Light color	840
Standard deviation of color matching	≤ 6 sdcn

Light technical data

Beam angle	250 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	250.00 °

Dimensions & Weight

Overall length	1500.00 mm
Diameter	27.50 mm
Product weight	230.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
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Lifespan

Nominal lamp life time	15000 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

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	A+ ¹⁾
Energy consumption	20.00 kWh/1000h
Type of protection	IP20
Standards	EAC
Photobiological safety group acc. to EN62778	RG0

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

Country-specific categorizations

Order reference	ST8B-1.5M 20W/8
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Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	1500.00 mm
Height	27.50 mm
Width	27.50 mm

Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- Not suitable for operation with electronic control gear.

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075480186	Sleeve 1	1,555 mm x 28 mm x 28 mm	249.00 g	1.22 dm ³
4058075480193	Shipping box 25	1,570 mm x 155 mm x 160 mm	7189.00 g	38.94 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.
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DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.