

PRODUCT DATASHEET

ST8E-EM 20 W/4000K 1500 mm EM

SubstiTUBE Entri | Economic LED tubes for electromagnetic control gears



AREAS OF APPLICATION

- General illumination within ambient temperatures from $-20...+45\text{ }^{\circ}\text{C}$
- Corridors, stairways, parking garages
- Cooling and storage rooms
- Domestic applications
- Industry
- Warehouses
- Supermarkets and department stores

PRODUCT BENEFITS

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 65 % (compared to T8 fluorescent lamp on CCG)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Also suitable for operation at low temperatures

PRODUCT FEATURES

- T8 LED tube made of glass with G13 base
- Mercury - free and RoHS compliant
- Type of protection: IP20



TECHNICAL DATA

Electrical data

Nominal wattage	20.00 W
Rated wattage	20.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal current	0.16 A
Type of current	AC
Power factor λ	> 0.50

Photometrical data

Light color (designation)	Cool White
Rated color temperature	4000 K
Nominal luminous flux	2300 lm
Rated luminous flux	2300 lm
Color rendering index Ra	>80
Lumen main.fact.at end of nom.life time	0.70
Color temperature	4000 K
Luminous flux	2300 lm
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)	160.00 °

Dimensions & weight



Length with base excl. base pins/connection	1500.00 mm
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Tube diameter	27.0 mm
Base diameter	25.5 mm
Product weight	240.00 g
Overall length	1513.0 mm

Temperatures & operating conditions

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

Lifespan	30000 h
Nominal lamp life time	30000 h
Rated lamp life time	30000 h
Number of switching cycles	50000

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/CB
Energy efficiency class	A+
Energy efficiency class	A+
Energy consumption	20 kWh/1000h

Country-specific categorizations

Order reference	ST8E-EM 20 W/4000K 1500 mm EM
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Logistical data

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

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075818019	ST8E-EM 20 W/4000K 1500 mm EM	Shipping carton box 25	1610 mm x 155 mm x 160 mm	39,93 dm ³	7439.00 g

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.