PRODUCT DATASHEET
ST8V-EM 20 W/4000K 1500 mm EM

SubstiTUBE Value | Economic LED tubes for electromagnetic control gears

AREAS OF APPLICATION

– General illumination within ambient temperatures from –20...+45 °C
– Corridors, stairways, parking garages
– Industry
– Warehouses
– Cooling and storage rooms
– Warehouses
– Domestic applications
– Supermarkets and department stores

PRODUCT BENEFITS

– No bending thanks to glass technology
– Energy savings of up to 65 % (compared to T8 fluorescent lamp on CCG)
– Quick, simple and safe replacement without rewiring
– 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

– LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
– Uniform illumination
– Mercury-free and RoHS compliant
– Single and tandem operation on conventional control gear (0.6 m version)
– Tube made of glass

TECHNICAL DATA

Electrical data

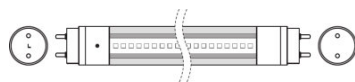|	
Rated wattage	20.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	20.00 W
Nominal current	0.095 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	73
Max. lamp no. on circuit break. B10 A - CCG without compensation	73
Max. lamp no. on circuit break. B10 A - CCG with compensation	14
Max. lamp no. on circuit break. B16 A - CCG without compensation	73
Max. lamp no. on circuit break. B16 A - CCG with compensation	22
Max. lamp no. on circuit break. 16 A (B)	117
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	2200 lm
Rated luminous flux	2200 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	2200 lm
Luminous efficacy	110 lm/W
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)	190.00 °

Dimensions & weight

Length with base excl. base pins/connection	1500.00 mm
Tube diameter	25.8 mm
Base diameter	26.7 mm
Product weight	230.00 g
Overall length	1513 mm

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	75 °C

Lifespan

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

Certificates & standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A+
Energy consumption	20 kWh/1000h

Country-specific categorizations

Order reference	ST8V-1.5M 20W/8

Logistical data

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

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	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075454583	Sleeves 1	1555 mm x 29 mm x 29 mm	264.00 g	1.31 dm³
4058075454590	Shipping carton box 10	1590 mm x 210 mm x 105 mm	3480.00 g	35.06 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.