PRODUCT DATASHEET
ST8V-EM 16.2 W/3000K 1200 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
- 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
- Very high resistance to switching loads
- Also suitable for operation at low temperatures

PRODUCT FEATURES

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Uniform illumination
- Mercury-free and RoHS compliant
- Luminous efficacy: up to 105 lm/W
- Tube made of glass



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TECHNICAL DATA

Electrical data

Rated wattage	16.20 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	16.20 W
Nominal current	0.075 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	98
Max. lamp no. on circuit break. B10 A - CCG without compensation	98
Max. lamp no. on circuit break. B10 A - CCG with compensation	20
Max. lamp no. on circuit break. B16 A - CCG without compensation	157
Max. lamp no. on circuit break. B16 A - CCG with compensation	32
Max. lamp no. on circuit break. 16 A (B)	157
Power factor λ	> 0.90

Photometrical data

Rated color temperature	3000 K
Nominal luminous flux	1530 lm
Rated luminous flux	1530 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Luminous flux	1530 lm
Color rendering index Ra	≥80
Standard deviation of color matching	≤6 sdcm

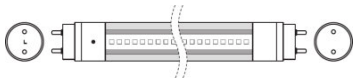
Light technical data

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

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Dimensions & weight





Length with base excl. base pins/connection	1200.00 mm
Tube diameter	25.6 mm
Base diameter	26.7 mm
Product weight	208.00 g
Overall length	1212 mm

Temperatures & operating conditions

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

Lifespan

Lifespan	30000 h
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/CB
Energy efficiency class	A+
Energy consumption	17 kWh/1000h

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Country-specific categorizations

ILCOS	DR-16.2/830-G13-25.5/1200
Order reference	ST8V-1.2M 16,2W

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
4058075024670	Sleeves 1	1305 mm x 29 mm x 29 mm	229.00 g	1.10 dm^3
4058075024687	Shipping carton box 10	1278 mm x 154 mm x 65 mm	2520.00 g	12.79 dm^3
4058075156227	Shipping carton box 10	1352 mm x 210 mm x 115 mm	2920.00 g	32.65 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

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.

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