Product datasheet

ST8V-EM 16.2 W/840 1200 mm

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

- 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
- Integrated ECG with high power factor
- Uniform illumination
- Lifetime: up to 30,000 h
- Wide beam angle: 220°
- 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 wattage	16.20 W
Nominal voltage	220…240 V
Nominal current	0.078 A
Type of current	AC
Operating frequency	50…60 Hz
Power factor λ	> 0.90

Photometrical data

Rated luminous flux	1700 lm
Rated color temperature	4000 K
Color rendering index Ra	>80
Light color (designation)	Cool White
Standard deviation of color matching	≤6 sdcm
Nominal luminous flux	1700 lm
Lumen main.fact.at end of nom.life time	0.70

Light technical data

Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	210.00 °
Starting time	< 0.5 s

Dimensions & weight

Length with base excl. base pins/connection	1200.00 mm
Tube diameter	25.6 mm
Base diameter	25.5 mm
Product weight	180.00 g
Overall length	1212 mm

Temperatures & operating conditions

Ambient temperature range	-20…+45 °C

Lifespan

Nominal lamp life time	30000 h
Rated lamp life time	30000 h
Number of switching cycles	200000

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Additional product data

Base (standard designation)	G13
Mercury-free	Yes

Capabilities

Dimmable	No

Certificates & standards

Type of protection	IP20
Standards	CECB
Energy efficiency class	A+
Energy consumption	17 kWh/1000h

Country specific categorizations

ILCOS	DR-16.2/840-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	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075024694	ST8V-EM 16.2 W/840 1200 mm	Shipping carton box 10 Pieces Sleeves	1278 mm x 154 mm x 65 mm	12.79 dm^3	2312.00 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.

References / Links

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For current information see

- www.osram.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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