Product datasheet

# ST8V-EM 16.2 W/865 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** | 6500 K |
| **Color rendering index Ra** | >80 |
| **Light color (designation)** | Cool Daylight |
| **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-16.2/865-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 |
|---|---|---|---|---|---|
| 4058075024717 | ST8V-EM 16.2 W/865 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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