Product datasheet

# ST8A-EM 7.3 W/840 600 mm

SubstiTUBE Advanced | High performance LED tubes for electromagnetic control gears



## Areas of application

- General illumination within ambient temperatures from −20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

## Product benefits

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (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
- Bright, robust and durable
- Uniform illumination
- Single and tandem operation on conventional control gear (0.6 m version)
- Tube made of glass
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Integrated ECG with high power factor




© 2018, OSRAM GmbH. All rights reserved.

Technical data

## Electrical data

| | |
|---|---|
| **Nominal wattage** | 7.30 W |
| **Rated wattage** | 7.30 W |
| **Nominal voltage** | 220…240 V |
| **Operating frequency** | 50…60 Hz |
| **Nominal current** | 0.034 A |
| **Type of current** | AC |
| **Power factor λ** | > 0.90 |

## Photometrical data

| | |
|---|---|
| **Light color (designation)** | Cool White |
| **Rated color temperature** | 4000 K |
| **Nominal luminous flux** | 1100 lm |
| **Rated luminous flux** | 1100 lm |
| **Color rendering index Ra** | >80 |
| **Lumen main.fact.at end of nom.life time** | 0.70 |
| **Standard deviation of color matching** | ≤4 sdcm |

## 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

| | |
|---|---|
| **Overall length** | 602.0 mm |
| **Length with base excl. base pins/connection** | 590.00 mm |
| **Tube diameter** | 25.5 mm |
| **Product weight** | 112.00 g |

## Temperatures & operating conditions

| | |
|---|---|
| **Ambient temperature range** | -20…+50 °C |

## Lifespan

| | |
|---|---|
| **Lifespan** | 50000 h |
| **Nominal lamp life time** | 50000 h |
| **Rated lamp life time** | 50000 h |
| **Number of switching cycles** | 200000 |


© 2018, OSRAM GmbH. All rights reserved.

## Additional product data

| | |
|---|---|
| **Base (standard designation)** | G13 |
| **Mercury-free** | Yes |

## Capabilities

| | |
|---|---|
| **Dimmable** | No |

## Certificates & standards

| | |
|---|---|
| **Type of protection** | IP20 |
| **Standards** | CE; VDE |
| **Energy efficiency class** | A++ |
| **Energy consumption** | 8 kWh/1000h |

## Country specific categorizations

| | |
|---|---|
| **ILCOS** | DR-7.3/840-G13-26/602 |
| **Order reference** | ST8A-0.6M 7,3W/ |

## 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 |
|---|---|---|---|---|---|
| 4058075818057 | ST8A-EM 7.3 W/840 600 mm | Shipping carton box 10 Pieces Sleeves | 742 mm x 210 mm x 115 mm | 17.92 $dm^3$ | 1729.40 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


© 2018, OSRAM GmbH. All rights reserved.

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.


© 2018, OSRAM GmbH. All rights reserved.