

## PRODUCT DATASHEET

### ST8V-1.2M 16 W/3000 K 1200 mm

SubstiTUBE T8 EM VALUE | Value LED tubes for electromagnetic control gears (CCG)



#### Areas of application

- Train stations
- Offices
- Underground stations
- Supermarkets and department stores
- Parking lots & Alleys
- Warehouses

#### Product benefits

- Quick, simple and safe replacement of fluorescent lamps without rewiring the CCG
- Realistic color rendering thanks high color saturation and excellent color rendering index
- Outstanding quality of light
- Lower maintenance cost thanks to longer lifetime than traditional Fluorescent
- Correct operation even at low temperatures
- RoHS-conformity
- Mercury-free
- High color rendition (Ra≥80) with excellent color fidelity for a true lighting effect

#### Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires
- Lifetime up to 30,000 h
- High luminous efficacy: up to 112 lm/W



## TECHNICAL DATA

### Electrical data

|                        |          |
|------------------------|----------|
| Nominal wattage        | 16 W     |
| Construction wattage   | 16.00 W  |
| Nominal voltage        | 230 V    |
| Nominal current        | 125 mA   |
| Operating frequency    | 50/60 Hz |
| Mains frequency        | 50/60 Hz |
| Power factor $\lambda$ | > 0.50   |

### Photometrical data

|                                      |            |
|--------------------------------------|------------|
| Luminous flux                        | 1700 lm    |
| Luminous efficacy                    | 106 lm/W   |
| Light color (designation)            | Warm White |
| Color temperature                    | 3000 K     |
| Color rendering index Ra             | > 80       |
| Light color                          | 830        |
| Standard deviation of color matching | ≤6 sdcn    |

### Light technical data

|               |            |
|---------------|------------|
| Beam angle    | › 160.00 ° |
| Starting time | < 0.5 s    |

### Dimensions & Weight

|                |            |
|----------------|------------|
| Overall length | 1213.60 mm |
| Diameter       | 28.00 mm   |
| Product weight | 96.00 g    |

### Temperatures & operating conditions

|                           |              |
|---------------------------|--------------|
| Ambient temperature range | -20...+45 °C |
|---------------------------|--------------|

### Lifespan

|                            |         |
|----------------------------|---------|
| Lifespan L70/B50 at 25 °C  | 30000 h |
| Number of switching cycles | 100000  |

### Additional product data

|                             |     |
|-----------------------------|-----|
| Base (standard designation) | G13 |
|-----------------------------|-----|

|                 |        |
|-----------------|--------|
| Mercury content | 0.0 mg |
| Mercury-free    | Yes    |

Capabilities

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

Certificates & Standards

|                    |      |
|--------------------|------|
| Type of protection | IP20 |
|--------------------|------|

Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | ST8V-1.2M 16W/8 |
|-----------------|-----------------|

Energy labelling regulation data acc EU 2019/2015

|                                                     |            |
|-----------------------------------------------------|------------|
| Lighting technology used                            | LED        |
| Light source cap-type (or other electric interface) | G13        |
| Length                                              | 1213.60 mm |
| Height                                              | 28.00 mm   |
| Width                                               | 28.00 mm   |

DOWNLOAD DATA

| Photometric and lighting design files                                               |                                     | Document name              |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------|
|  | IES file (IES)                      | ST8V1.2M 16W830 230V EM PC |
|  | LDT file (Eulumdat)                 | ST8V1.2M 16W830 230V EM PC |
|  | Light distribution curve type polar | ST8V1.2M 16W830 230V EM PC |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854309663 | Sleeve<br>2                  | 1,285 mm x 54 mm x 27 mm             | 270.00 g     | 1.87 dm³  |
| 4099854309670 | Shipping box<br>50           | 1,305 mm x 315 mm x 175 mm           | 8763.00 g    | 71.94 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.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.