

## PRODUCT DATASHEET

### ST8E-EM 20 W/3000 K 1500 mm

SubstiTUBE Eco | LED tubes for electromagnetic control gears



#### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Train stations
- Underground stations
- Supermarkets and department stores
- Industry
- Warehouses
- Hospitality

#### Product benefits

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Very high resistance to switching loads
- Also suitable for operation at low temperatures

#### Product features

- T8 LED tube made of glass with G13 base
- High color consistency: < 6 SDCM
- Lifetime up to 15,000 h
- Mercury-free lamps
- Color rendering index  $R_a$ :  $\geq 80$



## TECHNICAL DATA

### Electrical data

|                        |             |
|------------------------|-------------|
| Nominal wattage        | 20 W        |
| Construction wattage   | 20.00 W     |
| Nominal voltage        | 220...240 V |
| Type of current        | AC          |
| Operating frequency    | 50/60 Hz    |
| Mains frequency        | 50/60 Hz    |
| Power factor $\lambda$ | > 0.50      |

### Photometrical data

|                                      |            |
|--------------------------------------|------------|
| Luminous flux                        | 1900 lm    |
| Luminous efficacy                    | 95 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    | › 180.00 ° |
| Starting time | < 0.5 s    |

### Dimensions & Weight

|                |            |
|----------------|------------|
| Overall length | 1514.20 mm |
| Diameter       | 28.00 mm   |
| Product weight | 227.00 g   |

### Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+45 °C |
| Maximum temperature at tc test point | < 75 °C      |

### Additional product data

|                             |        |
|-----------------------------|--------|
| Base (standard designation) | G13    |
| Mercury content             | 0.0 mg |

### Capabilities

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

### Certificates & Standards

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

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | ST8E-1.5M 20W/8 |
|-----------------|-----------------|

### LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

### Energy labelling regulation data acc EU 2019/2015

|                                                     |            |
|-----------------------------------------------------|------------|
| Light source cap-type (or other electric interface) | G13        |
| Length                                              | 1514.20 mm |
| Height                                              | 28.00 mm   |
| Width                                               | 28.00 mm   |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075429543 | Sleeve<br>1                  | 1,555 mm x 28 mm x 28 mm             | 249.00 g     | 1.22 dm <sup>3</sup>  |
| 4058075429550 | Shipping box<br>25           | 1,610 mm x 168 mm x 170 mm           | 7189.00 g    | 45.98 dm <sup>3</sup> |
| 4099854238345 | Shipping box<br>25           | 1,610 mm x 168 mm x 170 mm           | 6240.00 g    | 45.98 dm <sup>3</sup> |

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.