

## PRODUCT DATASHEET

### ST8E-HO 20 W/3000 K 1200 mm

SubstiTUBE ECO HO | LED tubes for electromagnetic control gears with high lumen output



#### 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

#### Product benefits

- Good quality of light
- High lumen output up to 2200 lm
- Quick, simple and safe replacement without rewiring
- Low maintenance costs thanks to long lifetime
- Also suitable for operation at low temperatures
- Photobiological safety according to IEC 62778, risk group RG0

#### Product features

- T8 LED tube made of glass with G13 base
- Good color rendering index  $R_a: \geq 80$
- High color consistency:  $\leq 6$  SDCM



- Lifetime up to 15,000 h
- Mercury-free and RoHS compliant

## TECHNICAL DATA

### Electrical data

|                        |             |
|------------------------|-------------|
| Nominal wattage        | 20 W        |
| Construction wattage   | 20.00 W     |
| Nominal voltage        | 220...240 V |
| Nominal current        | 155 mA      |
| Type of current        | AC          |
| Operating frequency    | 50/60 Hz    |
| Mains frequency        | 50/60 Hz    |
| Power factor $\lambda$ | > 0.50      |

### Photometrical data

|   |            |
|---|------------|
| Luminous flux                           | 1980 lm    |
| Luminous efficacy                       | 99 lm/W    |
| Lumen main.fact.at end of nom.life time | 0.70       |
| 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    | ˆ 160.00 ° |
| Starting time | < 0.5 s    |

### Dimensions & Weight

|                |            |
|----------------|------------|
| Overall length | 1213.60 mm |
| Diameter       | 28.00 mm   |
| Product weight | 175.00 g   |

### Temperatures & operating conditions

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

### Lifespan

|  |       |
|--|-------|
| Number of switching cycles                   | 50000 |
| Lumen maintenance at end of service lifetime | 0.70  |

## Additional product data

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

## Capabilities

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

## Certificates &amp; Standards

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


## Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | ST8E-1.2M 20W/8 |
|-----------------|-----------------|

## Energy labelling regulation data acc EU 2019/2015

|   |            |
|---|------------|
| 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) | ST8E-0.6M 20W 230V HO APM OSRAM |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075512191 | Sleeve<br>1                  | 1,255 mm x 28 mm x 28 mm             | 194.00 g     | 1.01 dm <sup>3</sup>  |
| 4058075512207 | Shipping box<br>25           | 1,310 mm x 168 mm x 170 mm           | 5663.00 g    | 37.41 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

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