

## PRODUCT DATASHEET

### SubstiTUBE T8 EM Star PC 6.6 W/3000 K 600 mm

SubstiTUBE T8 EM STAR PC | Economic LED tubes for electromagnetic control gears



#### Areas of application

- Corridors, stairways, parking garages
- Cooling and storage rooms
- Warehouses
- Domestic applications
- General illumination within ambient temperatures from -20...+45 °C

#### Product benefits

- Extremely break resistant thanks to cover made of polycarbonate
- High color homogeneity
- Energy savings of up to 68 % compared to conventional T8 fluorescent lamps
- Instant flickerfree starting

#### Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- T8 LED tube made of plastic with G13 base
- Low flicker according to EU 2019-2020 (SVM  $\leq 0,4$  / PstLM  $\leq 1$ )
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (0.6 m version)
- Type of protection: IP20



TECHNICAL DATA

Electrical data

|                                                                  |             |
|------------------------------------------------------------------|-------------|
| Nominal wattage                                                  | 6.6 W       |
| Construction wattage                                             | 6.60 W      |
| Nominal voltage                                                  | 220...240 V |
| Nominal current                                                  | 35 mA       |
| Type of current                                                  | AC          |
| Operating frequency                                              | 50/60 Hz    |
| Mains frequency                                                  | 50/60 Hz    |
| Max. lamp no. on circuit break. 10 A (B)                         | 40          |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 60          |
| Max. lamp no. on circuit break. B10 A - CCG with compensation    | 18          |
| Max. lamp no. on circuit break. 16 A (B)                         | 50          |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 75          |
| Max. lamp no. on circuit break. B16 A - CCG with compensation    | 23          |
| Power factor $\lambda$                                           | > 0.90      |

Photometrical data

|                                         |                           |
|-----------------------------------------|---------------------------|
| Luminous flux                           | 720 lm                    |
| Luminous efficacy                       | 109 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                | $\geq 80$                 |
| Light color                             | 830                       |
| Standard deviation of color matching    | $\leq 6$ sdc <sub>m</sub> |
| Rated LLMF at 6,000 h                   | 0.80                      |
| Flickering metric (Pst LM)              | 1                         |
| Stroboscope effect metric (SVM)         | 0.4                       |



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Light technical data

|                                    |          |
|------------------------------------|----------|
| Beam angle                         | 190 °    |
| Warm-up time (60 %)                | ˂ 0.50 s |
| Starting time                      | < 0.5 s  |
| Rated beam angle (half peak value) | 190.00 ° |

Dimensions & Weight

|                  |           |
|------------------|-----------|
| Overall length   | 603.00 mm |
| Diameter         | 26.70 mm  |
| Tube diameter    | 26,7 mm   |
| Maximum diameter | 27 mm     |
| Product weight   | 70.00 g   |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+45 °C |
| Maximum temperature at tc test point | 65 °C        |

Lifespan

|                                     |         |
|-------------------------------------|---------|
| Lifespan                            | 30000 h |
| Number of switching cycles          | 200000  |
| Lumen maintenance at end of serv    | 0.70    |
| Rated lamp survival factor at 6,000 | ≥ 0.90  |

Additional product data

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

Capabilities

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

Certificates & Standards

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|                                              |                |
|----------------------------------------------|----------------|
| Energy efficiency class                      | F              |
| Energy consumption                           | 7.00 kWh/1000h |
| Type of protection                           | IP20           |
| Standards                                    | CE / EAC       |
| Photobiological safety group acc. to EN62778 | RG0            |

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LEDTUBE T8 EM S |
|-----------------|-----------------|

### LOGISTICAL DATA

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

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

|                                                      |              |
|------------------------------------------------------|--------------|
| Lighting technology used                             | LED          |
| Non-directional or directional                       | NDLS         |
| Mains or non-mains                                   | MLS          |
| Light source cap-type (or other electric interface)  | G13          |
| Connected light source (CLS)                         | No           |
| Color-tuneable light source                          | No           |
| Envelope                                             | No           |
| High luminance light source                          | No           |
| Anti-glare shield                                    | No           |
| Correlated colour temperature type                   | SINGLE_VALUE |
| Claim of equivalent power                            | No           |
| Length                                               | 603.00 mm    |
| Height                                               | 26.70 mm     |
| Width                                                | 26.70 mm     |
| Chromaticity coordinate x                            | 0.434        |
| Chromaticity coordinate y                            | 0.403        |
| R9 Colour rendering index                            | 0.00         |
| Beam angle correspondence                            | SPHERE_360   |
| Survival factor                                      | 0.90         |
| Displacement factor                                  | 0.90         |
| LED light source replaces a fluorescent light source | No           |
| EPREL ID                                             | 563344       |
| Model number                                         | AC34975      |

## EQUIPMENT / ACCESSORIES

- Suitable for operation on magnetic control gear

## Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The Tc Point is located underneath the product label on the front side of the lamp.

## DOWNLOAD DATA

| Documents and certificates                                                          |                                 |
|-------------------------------------------------------------------------------------|---------------------------------|
|     | User instruction                |
|     | Installation guide              |
|     | Declarations Of Conformity CE   |
|    | Declarations Of Conformity UKCA |
| Photometric and lighting design files                                               |                                 |
|  | Spectral power distribution     |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075593800 | Sleeve<br>1                  | 27 mm x 27 mm x 710 mm               | 115.00 g     | 0.52 dm <sup>3</sup>  |
| 4099854011412 | Shipping box<br>8            | 755 mm x 143 mm x 100 mm             | 1275.00 g    | 10.80 dm <sup>3</sup> |
| 4058075593817 | Shipping box<br>8            | 755 mm x 184 mm x 130 mm             | 1717.00 g    | 18.06 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.

## References / Links

- For current information see [www.ledvance.com/substitute](http://www.ledvance.com/substitute)

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### 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.

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### DISCLAIMER

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