

## PRODUCT DATASHEET

### ST8A-EM 14.7 W/4000 K 1200 mm

SubstiTUBE® Advanced EM T8 PC | Polycarbonate tube, high performance LED tubes for electromagnetic control gears (CCG)



#### Areas of application

- Illumination of production areas
- Supermarkets and department stores
- Industry
- Train stations
- General illumination within ambient temperatures from -20...+50 °C
- Offices
- Underground stations
- Warehouses
- Parking lots, warehouses, production areas, stairways

#### Product benefits

- Quick, simple and safe replacement without rewiring
- Lower maintenance cost thanks to longer lifetime than traditional Fluorescent

#### Product features

- T8 LED tube made of plastic with G13 base
- Retrofit existing T8 lamps on EM ballast or mains
- Polycarbonate tube body with PC end-cap
- Lifetime: up to 70.000 h



## TECHNICAL DATA

### Electrical data

|                        |             |
|------------------------|-------------|
| Nominal wattage        | 14.7 W      |
| Nominal voltage        | 220...240 V |
| Operating frequency    | 50/60 Hz    |
| Mains frequency        | 50/60 Hz    |
| Power factor $\lambda$ | > 0.90      |

### Photometrical data

|                                      |            |
|--------------------------------------|------------|
| Luminous flux                        | 2500 lm    |
| Luminous efficacy                    | 170 lm/W   |
| Light color (designation)            | Cool White |
| Color temperature                    | 4000 K     |
| Color rendering index Ra             | > 80       |
| Light color                          | 840        |
| Standard deviation of color matching | ≤5 sdcn    |

### Light technical data

|               |          |
|---------------|----------|
| Beam angle    | 140.00 ° |
| Starting time | < 0.5 s  |

### Dimensions & Weight

|                |            |
|----------------|------------|
| Overall length | 1200.00 mm |
| Diameter       | 28.00 mm   |
| Product weight | 186.00 g   |

### Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+50 °C |
| Maximum temperature at tc test point | <75 °C       |

### Lifespan

|                            |         |
|----------------------------|---------|
| Lifespan L70/B50 at 25 °C  | 70000 h |
| Number of switching cycles | 100000  |

### Additional product data

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

|                  |         |
|------------------|---------|
| Mercury-free     | Yes     |
| Design / version | Frosted |

### Capabilities

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

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | ST8A-1.2M 14,7W |
|-----------------|-----------------|

### LOGISTICAL DATA

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

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

|                                                     |            |
|-----------------------------------------------------|------------|
| Lighting technology used                            | LED        |
| Light source cap-type (or other electric interface) | G13        |
| Length                                              | 1200.00 mm |
| Height                                              | 28.00 mm   |
| Width                                               | 28.00 mm   |

### 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  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854304781 | Sleeve<br>1                  | 1,255 mm x 28 mm x 28 mm             | 205.00 g     | 1.01 dm <sup>3</sup>  |
| 4099854304798 | Shipping box<br>10           | 1,300 mm x 160 mm x 90 mm            | 2608.00 g    | 18.72 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.