

## PRODUCT DATASHEET

### LED TUBE T8 58 EM FLUORA 1500 mm

### 18.3W

LED TUBE T8 EM FLUORA | LED tubes supporting plant growth



#### Areas of application

- Wherever there is not enough natural daylight for plants
- For ambient temperatures from -20...+45 °C

#### Product benefits

- Promotes plant growth
- High color homogeneity
- Energy savings of up to 69 % 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
- T8 LED tube made of glass 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 ( $\leq 0.9$  m versions)
- Type of protection: IP20



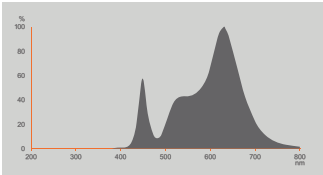
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**TECHNICAL DATA****Electrical data**

|                                                          |               |
|----------------------------------------------------------|---------------|
| Nominal wattage                                          | 18.3 W        |
| Nominal voltage                                          | 220...240 V   |
| Operating mode                                           | CCG, AC Mains |
| Nominal current                                          | 90 mA         |
| Type of current                                          | AC            |
| Inrush current                                           | 7 A           |
| Input voltage DC                                         | 186...260 V   |
| Operating frequency                                      | 50/60 Hz      |
| Mains frequency                                          | 50/60 Hz      |
| Max. lamp number on MCB B10 A                            | 85            |
| Max. lamp number on MCB B10 A - CCG without compensation | 53            |
| Max. lamp number on MCB B10 A - CCG with compensation    | 26            |
| Max. lamp number on MCB B16 A                            | 107           |
| Max. lamp number on MCB B16 A - CCG without compensation | 67            |
| Max. lamp number on MCB B16 A - CCG with compensation    | 33            |
| Total harmonic distortion                                | < 52 %        |
| Power factor $\lambda$                                   | 0.90          |

**Photometrical data**

|                                         |              |
|-----------------------------------------|--------------|
| Luminous intensity                      | Not relevant |
| Luminous flux                           | 1450 lm      |
| Luminous efficacy                       | 79 lm/W      |
| Lumen main.fact.at end of nom.life time | 0.70         |
| Color temperature                       | 2500 K       |
| Color rendering index Ra                | 80           |
| Light color                             | 825          |
| Rated LLMF at 6,000 h                   | 0.80         |
| Flickering metric (Pst LM)              | 1            |
| Stroboscope effect metric (SVM)         | 0,4          |



Spectral diagram T8 EM FLUORA

Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 100 °    |
| Warm-up time (60 %) | < 0.50 s |
| Starting time       | < 0.5 s  |

Dimensions & Weight



|                                             |            |
|---------------------------------------------|------------|
| Overall length                              | 1514.00 mm |
| Length with base excl. base pins/connection | 1500.00 mm |
| Diameter                                    | 26.70 mm   |
| Product weight                              | 235.00 g   |

Temperatures & operating conditions

|                                      |                            |
|--------------------------------------|----------------------------|
| Ambient temperature range            | -20...+45 °C <sup>1)</sup> |
| Maximum temperature at tc test point | 80 °C                      |

<sup>1)</sup> Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

Lifespan

|                                       |         |
|---------------------------------------|---------|
| Lifespan L70/B50 at 25 °C             | 30000 h |
| Number of switching cycles            | 200000  |
| Rated lamp survival factor at 6,000 h | ≥ 0.90  |

Additional product data

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

|                 |        |
|-----------------|--------|
| Mercury content | 0.0 mg |
|-----------------|--------|

### Capabilities

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

### Certificates & Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy consumption                           | 19.00 kWh/1000h |
| Type of protection                           | IP20            |
| Standards                                    | CE / EAC / UKCA |
| Photobiological safety group acc. to EN62778 | RG0             |

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LEDTUBE T8 58 E |
|-----------------|-----------------|

### 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         |
| Claim of equivalent power                           | No         |
| Length                                              | 1514.00 mm |
| Height                                              | 26.70 mm   |
| Width                                               | 26.70 mm   |
| Chromaticity coordinate x                           | 0.485      |
| Chromaticity coordinate y                           | 0.427      |
| R9 Colour rendering index                           | 85         |
| Beam angle correspondence                           | SPHERE_360 |
| Survival factor                                     | 0,9        |
| Displacement factor                                 | 0,9        |

LED light source replaces a fluorescent light source

No

## 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.
- Not suitable for emergency lighting.
- Not suitable for general lighting
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|    | User instruction / safety instructions | LEDTUBE T8 EM FLUORA               |
|  | On-Pack-Info                           | ELR - exempt lamps                 |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity             | LED TUBES T8 EM                    |
|  | Declarations of conformity UKCA        | LED TUBES T8 EM                    |
| Photometric and lighting design files                                              |                                        | Document name                      |
|  | Spectral power distribution            | Spectral diagram T8 EM FLUORA      |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854178214 | Sleeve<br>1                  | 27 mm x 27 mm x 1,610 mm             | 332.00 g     | 1.17 dm <sup>3</sup>  |
| 4099854178221 | Shipping box<br>8            | 1,655 mm x 143 mm x 100 mm           | 3393.00 g    | 23.67 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.

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### References / Links

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

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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.