

## PRODUCT DATASHEET

### LED TUBE T8 18 UNIVERSAL 600 mm 8W 865

LED TUBE T8 UNIVERSAL | LED tubes for electronic and electromagnetic control gears



#### Areas of application

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

#### Product benefits

- High color homogeneity
- Energy savings of up to 59 % (compared to T8 fluorescent lamp)
- Instant flickerfree starting

#### Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires and many common ECG luminaires (see compatibility list) or on AC mains
- 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
- Type of protection: IP20



## TECHNICAL DATA

### Electrical data

|  |             |
|--|-------------|
| Nominal wattage  | 8 W         |
| Construction wattage   | 8.00 W      |
| Nominal voltage  | 220...240 V |
| Nominal current  | 39 mA       |
| Type of current  | AC          |
| Inrush current   | 7 A         |
| Operating frequency  | 50/60 Hz    |
| Mains frequency  | 50/60 Hz    |
| Max. lamp no. on circuit break. 10 A (B)                         | 190         |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 190         |
| Max. lamp no. on circuit break. B10 A - CCG with compensation    | 37          |
| Max. lamp no. on circuit break. 16 A (B)                         | 305         |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 305         |
| Max. lamp no. on circuit break. B16 A - CCG with compensation    | 62          |
| Total harmonic distortion  | < 30 %      |
| Power factor $\lambda$   | 0.80        |

### Photometrical data

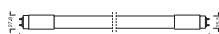
|   |                           |
|---|---------------------------|
| Luminous flux                           | 900 lm                    |
| Luminous efficacy                       | 112 lm/W                  |
| Lumen main.fact.at end of nom.life time | 0.70                      |
| Light color (designation)               | Cool Daylight             |
| Color temperature                       | 6500 K                    |
| Color rendering index Ra                | 80                        |
| Light color                             | 865                       |
| Standard deviation of color matching    | $\leq 5$ sdc <sub>m</sub> |
| Flickering metric (Pst LM)              | 1.0                       |
| Stroboscope effect metric (SVM)         | $\leq 0.4$                |



### 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         | 27.80 mm  |
| Tube diameter    | 25,5 mm   |
| Maximum diameter | 28 mm     |
| Product weight   | 153.00 g  |

### Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+45 °C |
| Maximum temperature at tc test point | 60 °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                   |
| Mercury-free                | Yes                      |
| Product remark              | Available from June 2023 |

### Capabilities

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

### Certificates & Standards

|  |                 |
|--|-----------------|
| Energy efficiency class                      | E <sup>1)</sup> |
| Energy consumption                           | 8.00 kWh/1000h  |
| Type of protection                           | IP20            |
| Standards                                    | CE              |
| Photobiological safety group acc. to EN62778 | RG0             |

<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LEDTUBE T8 18 U |
|-----------------|-----------------|

### 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  | 27.80 mm     |
| Width   | 27.80 mm     |

|  |                 |
|--|-----------------|
| Chromaticity coordinate x                            | 0.3123          |
| Chromaticity coordinate y                            | 0.3283          |
| R9 Colour rendering index                            | ≥0              |
| Beam angle correspondence                            | SPHERE_360      |
| Survival factor                                      | ≥0.9            |
| Displacement factor                                  | 0.9             |
| LED light source replaces a fluorescent light source | No              |
| EPREL ID   | 1317774,1407620 |
| Model number   | AC42594,AC47854 |

### Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

### DOWNLOAD DATA

| Documents and certificates  |                                 |
|---|---------------------------------|
|    | User instruction                |
|   | Declarations Of Conformity CE   |
|   | Declarations Of Conformity UKCA |
| Photometric and lighting design files   |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |
|  | UGR file (UGR table)            |
|   | LDC typ polar                   |
|  | Spectral power distribution     |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854033308 | Sleeve<br>1                  | 27 mm x 27 mm x 710 mm               | 198.00 g     | 0.52 dm <sup>3</sup>  |
| 4099854033315 | Shipping box<br>8            | 755 mm x 143 mm x 100 mm             | 1939.00 g    | 10.80 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.