

## PRODUCT DATASHEET

### LED TUBE T8 58 UNIVERSAL 1500 mm 24W 865

LED TUBE T8 UNIVERSAL | LED tubes for electronic control gear (ECG) and electromagnetic control gear (CCG)



#### 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 58 % (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



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

|                                                          |                   |
|----------------------------------------------------------|-------------------|
| Nominal wattage                                          | 24 W              |
| Construction wattage                                     | 24.00 W           |
| Nominal voltage                                          | 220...240 V       |
| Operating mode                                           | ECG / CCG / Mains |
| Nominal current                                          | 110 mA            |
| Type of current                                          | AC                |
| Inrush current                                           | 7 A               |
| Operating frequency                                      | 50/60 Hz          |
| Mains frequency                                          | 50/60 Hz          |
| Max. lamp number on MCB B10 A                            | 70                |
| Max. lamp number on MCB B10 A - CCG without compensation | 70                |
| Max. lamp number on MCB B10 A - CCG with compensation    | 28                |
| Max. lamp number on MCB B16 A                            | 110               |
| Max. lamp number on MCB B16 A - CCG without compensation | 110               |
| Max. lamp number on MCB B16 A - CCG with compensation    | 47                |
| Total harmonic distortion                                | < 30 %            |
| Power factor $\lambda$                                   | 0.90              |

**Photometrical data**

|                                         |               |
|-----------------------------------------|---------------|
| Luminous flux                           | 2800 lm       |
| Luminous efficacy                       | 116 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    | ≤5 sdcn       |
| Flickering metric (Pst LM)              | 1.0           |
| Stroboscope effect metric (SVM)         | ≤0.4          |



EPREL data spectral diagram PROF  
LEDr 6500K

Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 190 °    |
| Warm-up time (60 %) | < 0.50 s |
| Starting time       | < 0.5 s  |

Dimensions & Weight



|                                             |            |
|---------------------------------------------|------------|
| Overall length                              | 1513.00 mm |
| Length with base excl. base pins/connection | 1500.00 mm |
| Diameter                                    | 27.80 mm   |
| Product weight                              | 307.00 g   |

Temperatures & operating conditions

|                                      |                            |
|--------------------------------------|----------------------------|
| Ambient temperature range            | -20...+45 °C <sup>1)</sup> |
| Maximum temperature at tc test point | 75 °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  |
| Lumen maintenance at end of service lifetime | 0.70    |
| Rated lamp survival factor at 6,000 h        | ≥ 0.90  |

## Additional product data

|                             |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| Base (standard designation) | G13                                                                                                            |
| Mercury content             | 0.0 mg                                                                                                         |
| Mercury-free                | Yes                                                                                                            |
| Product remark              | The declared values in the data sheet refer to the operation of the LED tube on AC mains operation 230VAC 50Hz |

## Capabilities

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

## Certificates &amp; Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | E <sup>1)</sup> |
| Energy consumption                           | 24.00 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 58 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                                              | 1513.00 mm   |

|                                                      |                         |
|------------------------------------------------------|-------------------------|
| Height                                               | 27.80 mm                |
| Width                                                | 27.80 mm                |
| Chromaticity coordinate x                            | 0.3123                  |
| Chromaticity coordinate y                            | 0.3283                  |
| R9 Colour rendering index                            | 1                       |
| Beam angle correspondence                            | SPHERE_360              |
| Survival factor                                      | ≥0.9                    |
| Displacement factor                                  | 0.9                     |
| LED light source replaces a fluorescent light source | No                      |
| EPREL ID                                             | 1317771,1407626         |
| Model number                                         | AC42600,AC47860,AC47860 |

### Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.
- Not suitable for emergency lighting.

### DOWNLOAD DATA

| Documents and certificates                                                                                                | Document name                                                         |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  User instruction / safety instructions | LED TUBE T8 UNIVERSAL Osram                                           |
|  Legal information                      | Informationstext 18 Abs 4 ElektroG                                    |
|  Declarations of conformity             | LED TUBES T8 HF/UN                                                    |
|  Declarations of conformity UKCA        | LED TUBES T8 HF/UN UKCA                                               |
|  ECG compatibility list                 | Ballast compatibility LEDVANCE LED TUBE T5 HF_T8 HF_T8 UNIVERSAL 2025 |

| Photometric and lighting design files                                                                  | Document name                       |
|--------------------------------------------------------------------------------------------------------|-------------------------------------|
|  IES file (IES)      | LEDTUBE T8 58 UN 1500 24W 865 OSRAM |
|  LDT file (Eulumdat) | LEDTUBE T8 58 UN 1500 24W 865 OSRAM |

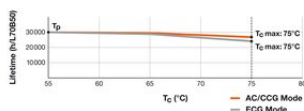
| Photometric and lighting design files                                             |                                     | Document name                               |
|-----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|
|  | UGR file (UGR table)                | LEDTUBE T8 58 UN 1500 24W 865 OSRAM         |
|   | Light distribution curve type cone  | LEDTUBE T8 58 UN 1500 24W 865 OSRAM         |
|   | Light distribution curve type polar | LEDTUBE T8 58 UN 1500 24W 865 OSRAM         |
|  | Spectral power distribution         | EPREL data spectral diagram PROF LEDr 6500K |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854033247 | Sleeve<br>1                  | 27 mm x 27 mm x 1,610 mm             | 409.00 g     | 1.17 dm <sup>3</sup>  |
| 4099854033254 | Shipping box<br>8            | 1,655 mm x 143 mm x 100 mm           | 3969.00 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.

## ADDITIONAL CATALOG INFORMATION



## References / Links

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

## 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.

## DISCLAIMER

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