

# PRODUCT DATASHEET

## LED TUBE T8 EXTERNAL P 1200 mm 15W 830

LED TUBE T8 EXTERNAL P | LED TUBE T8 EXTERNAL for LED DRIVER EXTERNAL



### Areas of application

- Industrial lighting (e.g. manufacturing plants, logistic centers, warehouses)
- Linear lighting for office, education, storage areas and retail
- Shops, supermarkets
- Suitable for indoor SELV installations
- General illumination within ambient temperatures from -20...+50 °C

### Product benefits

- Shatter protection thanks to special PET coating
- No bending thanks to glass tube
- Very high resistance to switching loads
- 5 years guarantee

### Product features

- Designed to power only with LED DRIVER LED TUBE EXTERNAL DALI
- Lamp tube made of glass with splinter protection



TECHNICAL DATA

Electrical data

|                           |         |
|---------------------------|---------|
| Nominal wattage           | 15 W    |
| Construction wattage      | 15.00 W |
| Nominal voltage           | 42 V    |
| Operating mode            | EXT     |
| Nominal current           | 350 mA  |
| Type of current           | DC      |
| Inrush current            | 4.3 A   |
| Operating frequency       | 0 Hz    |
| Mains frequency           | 0 Hz    |
| Total harmonic distortion | < 20 %  |
| Power factor $\lambda$    | 0.90    |

Photometrical data

|                                         |               |
|-----------------------------------------|---------------|
| Luminous flux                           | 2160 lm       |
| Luminous efficacy                       | 144 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                | 80            |
| Light color                             | 830           |
| Standard deviation of color matching    | $\leq 5$ sdcm |
| Flickering metric (Pst LM)              | <1            |
| Stroboscope effect metric (SVM)         | <0,4          |

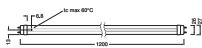


Light technical data

|            |       |
|------------|-------|
| Beam angle | 190 ° |
|------------|-------|

|                     |          |
|---------------------|----------|
| Warm-up time (60 %) | < 2.00 s |
| Starting time       | < 1.0 s  |

Dimensions & Weight



|                                             |            |
|---------------------------------------------|------------|
| Overall length                              | 1213.00 mm |
| Length with base excl. base pins/connection | 1200.00 mm |
| Diameter                                    | 27.00 mm   |
| Maximum diameter                            | 27 mm      |
| Product weight                              | 190.00 g   |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+50 °C |
| Maximum temperature at tc test point | 60 °C        |

Lifespan

|                                              |         |
|----------------------------------------------|---------|
| Lifespan L70/B50 at 25 °C                    | 50000 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                                                                                                                                                                             |
| Product remark              | Single sided LED TUBE (one-sided DC input ) complying with safety requirement acc. IEC 62776:2014. Safety protection against electrical shock in misuse (ECG/CCG/Mains operation). |

Capabilities

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

Certificates & Standards

|                         |                 |
|-------------------------|-----------------|
| Energy efficiency class | E 1)            |
| Energy consumption      | 15.00 kWh/1000h |

|                                              |      |
|----------------------------------------------|------|
| Type of protection                           | IP20 |
| Standards                                    | CE   |
| Photobiological safety group acc. to EN62778 | RG0  |

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

### Country-specific categorizations

|                 |                |
|-----------------|----------------|
| Order reference | LEDTUBE T8 EXT |
|-----------------|----------------|

### 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                                   | NMLS         |
| 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 |
| Standby power                                        | 0 W          |
| Claim of equivalent power                            | No           |
| Length                                               | 1213.00 mm   |
| Height                                               | 27.00 mm     |
| Width                                                | 27.00 mm     |
| Chromaticity coordinate x                            | 0,433        |
| 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                                             | 1278963      |
| Model number                                         | AC43086      |

## Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The operating temperature range of LED tube is restricted. In case of doubt regarding suitability of the application please measure Tc max temperature on the product prior to installation.

## DOWNLOAD DATA

| Documents and certificates                                                       |                                 |
|----------------------------------------------------------------------------------|---------------------------------|
|  | User instruction                |
|  | 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                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854015281 | Sleeve<br>1                  | 1,220 mm x 28 mm x 28 mm             | 210.00 g     | 0.98 dm <sup>3</sup>  |
| 4099854015298 | Shipping box<br>25           | 1,252 mm x 197 mm x 235 mm           | 6332.00 g    | 57.96 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/ledtube](http://www.ledvance.com/ledtube)

## DISCLAIMER

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