

# PRODUCT DATASHEET

## LED TUBE T5 EXTERNAL HE35 P 1449 mm 18W 830

LED TUBE T5 EXTERNAL P | LED TUBE T5 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

### Product benefits

- Simple upgrade to dimmable LED system
- Hassle free application, no ballast compatibility check necessary
- Suitable for emergency lighting (self-contained battery pack)
- Shatter protection thanks to special PET coating
- No bending thanks to glass tube
- 5 years guarantee

### Product features

- Designed to power only with LED DRIVER LED TUBE EXTERNAL DALI
- Lamp tube made of glass with splinter protection
- Quality dimming of 1...100 %
- High resistance to switching loads
- Suitable for ambient temperatures from -20...+50 °C



TECHNICAL DATA

Electrical data

|                           |                   |
|---------------------------|-------------------|
| Nominal wattage           | 18 W              |
| Construction wattage      | 18.00 W           |
| Nominal voltage           | 41 V              |
| Operating mode            | EXT <sup>1)</sup> |
| Nominal current           | 450 mA            |
| Type of current           | DC                |
| Operating frequency       | 0 Hz              |
| Mains frequency           | 0 Hz              |
| Total harmonic distortion | < 20 %            |
| Power factor $\lambda$    | 0.90              |

1) Designed to power with LEDVANCE LED DRIVER LED TUBE EXTERNAL DALI P

Photometrical data

|   |                     |
|---|---------------------|
| Luminous flux                           | 2550 lm             |
| Luminous efficacy                       | 142 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    | ≤5 sdc <sub>m</sub> |
| Rated LLMF at 6,000 h                   | 0.80                |
| Flickering metric (Pst LM)              | <1                  |
| Stroboscope effect metric (SVM)         | <0,4                |



EPREL data spectral diagram PROF LEDr 3000K

Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 180 °    |
| Warm-up time (60 %) | < 2.00 s |
| Starting time       | < 1.0 s  |

Dimensions & Weight



|   |            |
|---|------------|
| Overall length                              | 1463.00 mm |
| Length with base excl. base pins/connection | 1449.00 mm |
| Diameter                                    | 17.00 mm   |
| Tube diameter                               | 15.7 mm    |
| Maximum diameter                            | 17 mm      |
| Product weight                              | 137.00 g   |

Temperatures & operating conditions

|                                      |                            |
|--------------------------------------|----------------------------|
| Ambient temperature range            | -20...+50 °C <sup>1)</sup> |
| Maximum temperature at tc test point | 65 °C                      |

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

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) | G5   |
| Mercury content             | 0.0 mg   |
| Mercury-free                | Yes  |
| 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 &amp; Standards

|  |                 |
|--|-----------------|
| Energy efficiency class                      | E <sup>1)</sup> |
| Energy consumption                           | 18.00 kWh/1000h |
| Type of protection                           | IP20            |
| Standards                                    | CE / UKCA       |
| 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 T5 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) | G5           |
| 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  | 1463.00 mm   |
| Height  | 17.00 mm     |
| Width   | 17.00 mm     |
| Chromaticity coordinate x                           | 0,433        |
| Chromaticity coordinate y                           | 0,403        |
| R9 Colour rendering index                           | 1            |


|  |                 |
|--|-----------------|
| Beam angle correspondence                            | SPHERE_360      |
| Survival factor                                      | 0,90            |
| Displacement factor                                  | 0,90            |
| LED light source replaces a fluorescent light source | No              |
| EPREL ID   | 1278961         |
| Model number   | AC43084,AC43084 |

### 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 temperature on the product prior to installation.
- LED TUBE T5 EXTERNAL HO80 cannot be operated with 2-channel driver.
- 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 EXT P User instruction LEDV         |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG          |
|  | Declarations of conformity             | LEDTUBE T5 and T8                           |
|  | Declarations of conformity UKCA        | LEDTUBE T5 and T8 EXT                       |
| Photometric and lighting design files  |  | Document name                               |
|  | IES file (IES)                         | LEDTUBE T5 EXT HE35 P 1449 18W 830          |
|  | LDT file (Eulumdat)                    | LEDTUBE T5 EXT HE35 P 1449 18W 830          |
|  | UGR file (UGR table)                   | LEDTUBE T5 EXT HE35 P 1449 18W 830          |
|  | Light distribution curve type polar    | LEDTUBE T5 EXT HE35 P 1449 18W 830          |
|  | Spectral power distribution            | EPREL data spectral diagram PROF LEDr 3000K |

| Tender texts   |                  | Document name                             |
|--|------------------|---|
|  | Tender documents | LED TUBE T5 EXTERNAL P 1449 mm 18W 830-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854015151 | Sleeve<br>1                  | 1,465 mm x 20 mm x 20 mm             | 159.00 g     | 0.59 dm <sup>3</sup>  |
| 4099854015168 | Shipping box<br>25           | 1,522 mm x 152 mm x 175 mm           | 5300.00 g    | 40.49 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)

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