

PRODUCT DATASHEET

LED TUBE T5 HF L8 SHORT 288 mm 4W 830

LED TUBE T5 HF SHORT | LED tubes for electronic high frequency control gear



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Public buildings
- Kitchens
- Under-cabinet lighting

Product benefits

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Also suitable for operation at low temperatures
- Please follow all safety advices

Product features

- Retrofit replacement of existing T5 lamps on HF ballast installations
- Lamp tube made of glass with splinter protection
- High color consistency: ≤ 5 SDCM
- Lifetime: up to 30,000 h
- Low flicker according to EU 2019-2020 (SVM $\leq 0,4$ / PstLM ≤ 1)
- Type of protection: IP20



- Compatible with many common electronic control gears (see also compatibility list)

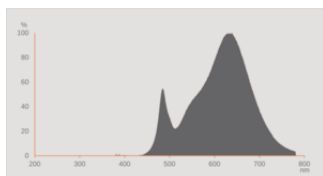
TECHNICAL DATA

Electrical data

| | |
|---------------------------|-------------------------------|
| Nominal wattage | 4 W |
| Construction wattage | 4.00 W |
| Nominal voltage | 17...40 V |
| Operating mode | Electronic control gear (ECG) |
| Nominal current | 223 mA |
| Type of current | AC |
| Inrush current | 21 A |
| Operating frequency | 25...75 kHz |
| Mains frequency | 25...75 kHz |
| Total harmonic distortion | 130 % |
| Power factor λ | 0.55 |

Photometrical data

| | |
|---|---------------------------|
| Luminous flux | 380 lm |
| Luminous efficacy | 95 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 _m |
| Flickering metric (Pst LM) | 1 |
| Stroboscope effect metric (SVM) | 0.4 |

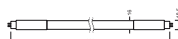


EPREL data spectral diagram PROF
LEDr 3000K

Light technical data

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

Dimensions & Weight



| | |
|---|-----------|
| Overall length | 302.00 mm |
| Length with base excl. base pins/connection | 288.00 mm |
| Diameter | 18.50 mm |
| Tube diameter | 16 mm |
| Maximum diameter | 19 mm |
| Product weight | 42.00 g |

Temperatures & operating conditions

| | |
|--------------------------------------|--------------|
| Ambient temperature range | -20...+45 °C |
| Maximum temperature at tc test point | 60 °C |

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) | G5 |
| Mercury content | 0.0 mg |
| Mercury-free | Yes |
| Design / version | Frosted |

Capabilities

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

Certificates & Standards

| | |
|--|----------------|
| Energy efficiency class | F 1) |
| Energy consumption | 4.00 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 T5HF L8 |
|-----------------|-----------------|

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 |
| Networked standby power for CLS | 0 W |
| Claim of equivalent power | No |
| Length | 302.00 mm |
| Height | 18.50 mm |
| Width | 18.50 mm |
| Chromaticity coordinate x | 0,434 |
| Chromaticity coordinate y | 0,403 |
| R9 Colour rendering index | 80 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.9 |
| Displacement factor | 0,89 |

| | |
|--|-----------------|
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1392488,1407629 |
| Model number | AC46401,AC47861 |

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.
- Not suitable for emergency lighting

DOWNLOAD DATA

| Documents and certificates | | Document name |
|--|---------------------------------|---|
|  | User Instruction | LED TUBE T5 HF SHORT |
|  | Addon Technical Information | LED TUBE T8 UNIVERSAL T8 HF T5 HF Gen 11 ballast compatibility 2023 |
|  | Declarations of conformity | LED TUBE T5 HF SHORT |
|  | Declarations Of Conformity UKCA | LED TUBE T5 HF SHORT |
| Photometric and lighting design files | | Document name |
|  | IES file (IES) | LEDTUBE T5 HF L8 SHORT 288 4W 830 OSRAM |
|  | LDT file (Eulumdat) | LEDTUBE T5 HF L8 SHORT 288 4W 830 OSRAM |
|  | UGR file (UGR table) | LEDTUBE T5 HF L8 SHORT 288 4W 830 OSRAM |
|  | LDC typ polar | LEDTUBE T5 HF L8 SHORT 288 4W 830 OSRAM |
|  | Spectral power distribution | EPREL data spectral diagram PROF LEDr 3000K |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075823693 | Sleeve 1 | 304 mm x 23 mm x 23 mm | 51.00 g | 0.16 dm ³ |

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4099854077548 | Folding box 10 | 118 mm x 49 mm x 307 mm | 555.00 g | 1.78 dm ³ |
| 4058075823709 | Shipping box 10 | 313 mm x 125 mm x 59 mm | 607.00 g | 2.31 dm ³ |

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/osram-led-tube

Legal advice

– When used to replace a T5 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.