

PRODUCT DATASHEET

LED TUBE T5 HF HE28 P 1149 mm 16W 840

LED TUBE T5 HF P | LED tubes for electronic high frequency control gear (ECG), shatterproof



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Offices, public buildings
- Supermarkets and department stores
- Industry

Product benefits

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- High luminous flux for sophisticated lighting tasks
- Also suitable for operation at low temperatures

Product features

- Retrofit replacement of existing T5 lamps on HF ballast installations
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- High color consistency: ≤ 5 SDCM
- Lifetime: up to 50,000 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

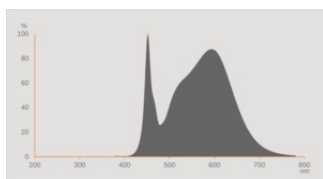
Electrical data

| | |
|--|-------------------|
| Nominal wattage | 16 W |
| Construction wattage | 16.00 W |
| Nominal voltage | 110...160 V |
| Operating mode | ECG ¹⁾ |
| Nominal current | 210 mA |
| Type of current | AC |
| Inrush current | 12 A |
| Operating frequency | 25...75 kHz |
| Mains frequency | 25...75 kHz |
| Max. lamp no. on circuit break. 10 A (B) | 17 |
| Max. lamp no. on circuit break. 16 A (B) | 28 |
| Total harmonic distortion | 15 % |
| Power factor λ | > 0.90 |

¹⁾ Check ECG compatibility at [ledvance.com/compatibility](https://www.ledvance.com/compatibility)

Photometrical data

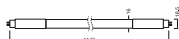
| | |
|---|---------------|
| Luminous flux | 2400 lm |
| Luminous efficacy | 150 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Cool White |
| Color temperature | 4000 K |
| Color rendering index Ra | 80 |
| Light color | 840 |
| Standard deviation of color matching | ≤ 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 | < 0.5 s |

Dimensions & Weight



| | |
|------------------|------------|
| Overall length | 1149.00 mm |
| Diameter | 18.50 mm |
| Tube diameter | 16 mm |
| Maximum diameter | 19 mm |
| Product weight | 147.00 g |

Temperatures & operating conditions

| | |
|--------------------------------------|--------------|
| Ambient temperature range | -20...+45 °C |
| Maximum temperature at tc test point | 75 °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) | G5 |
| Mercury content | 0.0 mg |
| Mercury-free | Yes |
| Design / version | Frosted |

Capabilities

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

Certificates & Standards

| | |
|--|-----------------|
| Energy efficiency class | D ¹⁾ |
| Energy consumption | 16.00 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 T5 HF H |
|-----------------|-----------------|

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 | 1149.00 mm |
| Height | 18.50 mm |
| Width | 18.50 mm |
| Chromaticity coordinate x | 0.382 |
| Chromaticity coordinate y | 0.38 |
| R9 Colour rendering index | 80 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.9 |





| | |
|--|---------|
| Displacement factor | 0.9 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1317795 |
| Model number | AC44157 |

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 |
|  | Addon Technical Information |
|  | 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 |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4099854029349 | Sleeve 1 | 1,165 mm x 20 mm x 24 mm | 165.00 g | 0.56 dm ³ |

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854029356 | Shipping box 10 | 1,225 mm x 155 mm x 90 mm | 2200.00 g | 17.09 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/ledtube

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.