

# PRODUCT DATASHEET

## LED TUBE T5 HF HO39 PERFORMANCE 849 mm 18W 840

LED TUBE T5 HF PERFORMANCE | 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:  $\leq 5$  sdc<sub>m</sub>
- Lifetime up to 60,000 h
- Low flicker according to EU 2019-2020 ( $SVM \leq 0.4$  /  $PstLM \leq 1$ )
- Type of protection: IP20
- Compatible with many common electronic control gears (see also compatibility list)



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## TECHNICAL DATA

### Electrical data

|                               |                   |
|-------------------------------|-------------------|
| Nominal wattage               | 18 W              |
| Construction wattage          | 18.00 W           |
| Nominal voltage               | 50...90 V         |
| Operating mode                | ECG <sup>1)</sup> |
| Nominal current               | 350 mA            |
| Type of current               | AC                |
| Inrush current                | 12 A              |
| Operating frequency           | 25...75 kHz       |
| Mains frequency               | 25...75 kHz       |
| Max. lamp number on MCB B10 A | 17                |
| Max. lamp number on MCB B16 A | 28                |
| Total harmonic distortion     | 15 %              |
| Power factor $\lambda$        | > 0.90            |

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

### Photometrical data

|                                         |                     |
|-----------------------------------------|---------------------|
| Luminous flux                           | 2800 lm             |
| Luminous efficacy                       | 155 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 sdc <sub>m</sub> |
| Rated LLMF at 6,000 h                   | 0.90                |
| Flickering metric (Pst LM)              | 1                   |
| Stroboscope effect metric (SVM)         | 0.4                 |



EPREL data spectral diagram PROF  
LEDr 4000K

Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 190 °    |
| Warm-up time (60 %) | < 2.00 s |
| Starting time       | < 0.5 s  |

Dimensions & Weight



|                                             |           |
|---------------------------------------------|-----------|
| Overall length                              | 863.00 mm |
| Length with base excl. base pins/connection | 849.00 mm |
| Diameter                                    | 18.50 mm  |
| Product weight                              | 122.00 g  |

Temperatures & operating conditions

|                                      |                            |
|--------------------------------------|----------------------------|
| Ambient temperature range            | -20...+45 °C <sup>1)</sup> |
| Maximum temperature at tc test point | 75 °C                      |
| Performance temp. acc. to IEC 62717  | 50 °C <sup>2)</sup>        |

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire  
2) Tp rated. Tp point coincides with Tc point - marked on device

Lifespan

|                                              |         |
|----------------------------------------------|---------|
| Lifespan L70/B50 at 25 °C                    | 60000 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 <sup>1)</sup> |
| Energy consumption                           | 18.00 kWh/1000h |
| Type of protection                           | IP20            |
| Standards                                    | CE / UKCA / EAC |
| 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 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                                               | 863.00 mm  |
| Height                                               | 18.50 mm   |
| Width                                                | 18.50 mm   |
| Chromaticity coordinate x                            | 0.382      |
| Chromaticity coordinate y                            | 0.38       |
| 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                                             | 2209914    |
| Model number                                         | AC70929    |

### 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 T<sub>c</sub> temperature on the product prior to installation.
- All electrical connections must be made by a qualified person.
- Lamp not suitable for emergency operation.

### DOWNLOAD DATA

|                                                                                    | Documents and certificates             | Document name                                                         |
|------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------|
|  | User instruction / safety instructions |                                                                       |
|  | Extended installation guide            | Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN    |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG                                    |
|  | Declarations of conformity             | LEDTUBE                                                               |
|  | Declarations of conformity UKCA        | LEDTUBE                                                               |
|  | 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 T5 HF HO39 P 849 18W 840 LEDV       |
|  | LDT file (Eulumdat)                 | LEDTUBE T5 HF HO39 P 849 18W 840 LEDV       |
|  | UGR file (UGR table)                | LEDTUBE T5 HF HO39 P 849 18W 840 LEDV       |
|  | Light distribution curve type polar | LEDTUBE T5 HF HO39 P 849 18W 840 LEDV       |
|  | Spectral power distribution         | EPREL data spectral diagram PROF LEDr 4000K |
| Tender texts                                                                     |                                     | Document name                               |
|  | Tender documents                    | LED TUBE T5 HF P 849 mm 18W 840-en          |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854497711 | Sleeve<br>1                  | 865 mm x 20 mm x 24 mm               | 137.00 g     | 0.41 dm <sup>3</sup>  |
| 4099854497728 | Shipping box<br>10           | 925 mm x 155 mm x 90 mm              | 1727.00 g    | 12.90 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)

## 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

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