

PRODUCT DATASHEET

SubstiTUBE T5 HF HO54 27 W/3000 K 1149.00 mm

SubstiTUBE TUBE T5 HF | LED tubes for electronic high frequency control gears



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 ($SVM \leq 0,4$ / $PstLM \leq 1$)
- Type of protection: IP20
- Compatible with many common electronic control gears (see also compatibility list)

TECHNICAL DATA

Electrical data

| | |
|------------------------|-------------|
| Nominal wattage | 27 W |
| Construction wattage | 27.00 W |
| Nominal voltage | 220...240 V |
| Nominal current | 520 mA |
| Type of current | AC |
| Operating frequency | 20...60 kHz |
| Mains frequency | 20...60 kHz |
| Power factor λ | > 0.90 |

Photometrical data

| | |
|---|---------------|
| Luminous flux | 3800 lm |
| Luminous efficacy | 140 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 | ≤ 4 sdcM |

Light technical data

| | |
|------------------------------------|----------|
| Beam angle | 160 ° |
| Warm-up time (60 %) | < 2.00 s |
| Starting time | < 1.0 s |
| Rated beam angle (half peak value) | 160.00 ° |

Dimensions & Weight

| | |
|---|------------|
| Overall length | 1149.00 mm |
| Length with base excl. base pins/connection | 1149 mm |
| Diameter | 15.00 mm |
| Base diameter | 15,0 mm |
| Maximum diameter | 17 mm |
| Product weight | 160.00 g |

Temperatures & operating conditions

| | |
|---------------------------|--------------|
| Ambient temperature range | -20...+50 °C |
|---------------------------|--------------|

Lifespan

| | |
|-------------------------------------|---------|
| Lifespan | 60000 h |
| Number of switching cycles | 200000 |
| Lumen maintenance at end of serv | 0.70 |
| Rated lamp survival factor at 6,000 | > 0.90 |

Additional product data

| | |
|-----------------------------|--------|
| Base (standard designation) | G5 |
| Mercury content | 0.0 mg |
| Mercury-free | Yes |

Capabilities

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

Certificates & Standards

| | |
|-------------------------|-------------------|
| Energy efficiency class | A++ ¹⁾ |
| Energy consumption | 30.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE |

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

Country-specific categorizations

| | |
|-----------------|----------------------|
| ILCOS | DR-27/830-G5-15/1500 |
| Order reference | ST5H054-1.2M 27 |

LOGISTICAL DATA

| | |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

Energy labelling regulation data acc EU 2019/2015

| | |
|---|------------|
| Light source cap-type (or other electric interface) | G5 |
| Length | 1149.00 mm |
| Height | 15.00 mm |
| Width | 15.00 mm |

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



Installation guide



Declarations Of Conformity CE

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075819870 | Sleeve 1 | 1,165 mm x 20 mm x 24 mm | 168.00 g | 0.56 dm ³ |
| 4058075819887 | Shipping box 10 | 1,218 mm x 153 mm x 80 mm | 2090.00 g | 14.91 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-substitute

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.