

## PRODUCT DATASHEET

# SubstiTUBE T5 HF HE28 17 W/4000 K 1149 mm

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



### Areas of application

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

### Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- Quick, simple and safe replacement without rewiring
- High luminous flux for sophisticated lighting tasks

### 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:  $\leq 5$  SDCM



- Lifetime: up to 50,000 h
- Low flicker according to EU 2019/2020
- Type of protection: IP20

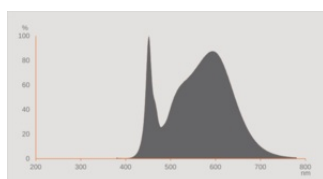
**TECHNICAL DATA**

**Electrical data**

Nominal wattage	17 W
Construction wattage	17.00 W
Nominal voltage	100...130 V
Claimed equiv. conventional lamp power	28 W
Nominal current	147 mA
Type of current	AC
Inrush current	18 A
Operating frequency	20...75 kHz
Mains frequency	20...75 kHz
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.90

**Photometrical data**

Luminous flux	2400 lm
Luminous efficacy	141 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	83
Light color	840
Standard deviation of color matching	$\leq 5$ sdcm

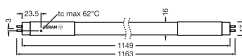


**Light technical data**

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

Rated beam angle (half peak value)	190.00 °
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## Dimensions & Weight



Overall length	1149.00 mm
Diameter	17.00 mm
Tube diameter	16 mm
Maximum diameter	17 mm
Product weight	155.00 g

## Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	62 °C

## Lifespan

Lifespan	50000 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
Design / version	Frosted

## Capabilities

Dimmable	No
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## Certificates & Standards

Energy efficiency class	E 1)
Energy consumption	19.00 kWh/1000h
Type of protection	IP20
Standards	CE

Photobiological safety group acc. to EN62778	RG0
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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
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### LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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### 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
Claim of equivalent power	No
Length	1149.00 mm
Height	17.00 mm
Width	17.00 mm
Chromaticity coordinate x	0.381
Chromaticity coordinate y	0.379
Beam angle correspondence	SPHERE_360
Survival factor	0.90
Displacement factor	0.90
LED light source replaces a fluorescent light source	No

### EQUIPMENT / ACCESSORIES

- Suitable for operation on electronic control gear






### Safety advice



- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- Not suitable for operation with low-loss and conventional control gears

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## DOWNLOAD DATA

DOWNLOAD DATA	
	User instruction
	Installation guide
	Installation guide
	IES file (IES)
	LDT file (Eulumdat)

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## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075543218	Shipping box 10	1,218 mm x 153 mm x 80 mm	2151.00 g	14.91 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.

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## References / Links

- For current information see [www.ledvance.com/substitute](http://www.ledvance.com/substitute)

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## 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.

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## DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.