

# PRODUCT DATASHEET

## LED TUBE T5 HF L8 SHORT 288 mm 4W 840

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



### 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:  $\leq 5$  sdcm
- Lifetime up to 30,000 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	4 W
Construction wattage	4.00 W
Nominal voltage	17...40 V
Operating mode	ECG <sup>1)</sup>
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	120 %
Power factor $\lambda$	0.55

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

### Photometrical data

Luminous flux	400 lm
Nominal useful luminous flux 90°	440 lm
Luminous efficacy	110 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 sdcn
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 %)	< 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 <sup>1)</sup>
Maximum temperature at tc test point	60 °C
Performance temp. acc. to IEC 62717	40 °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	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	0.382
Chromaticity coordinate y	0.38
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	2199976
Model number	AC70918

### 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 temperature on the product prior to installation.
- Not suitable for emergency lighting.

### DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	LED TUBE T5 HF SHORT
	User instruction / safety instructions	
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	LEDTUBE T5HF L8
	Declarations of conformity UKCA	LEDTUBE T5HF L8

Photometric and lighting design files		Document name
	IES file (IES)	LEDTUBE T5 HF L8 SHORT V 288 4W 840 LEDV
	LDT file (Eulumdat)	LEDTUBE T5 HF L8 SHORT V 288 4W 840 LEDV
	UGR file (UGR table)	LEDTUBE T5 HF L8 SHORT V 288 4W 840 LEDV
	Light distribution curve type polar	LEDTUBE T5 HF L8 SHORT V 288 4W 840 LEDV
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854552427	Sleeve 1	22 mm x 22 mm x 304 mm	51.00 g	0.15 dm <sup>3</sup>
4099854552434	Shipping box 25	316 mm x 116 mm x 124 mm	1355.00 g	4.55 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

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