PRODUCT DATASHEET
LED TUBE T5 HF L13 SHORT 517 mm 7W 830

LED TUBE T5 HF SHORT | LED tubes for electronic high frequency control gear

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: ≤ 5 sdcm

- Lifetime up to 30,000 h
- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM ≤ 1)
- Type of protection: IP20
- Compatible with many common electronic control gears (see also compatibility list)

TECHNICAL DATA

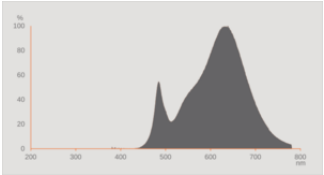
Electrical data

Nominal wattage	7 W
Construction wattage	7.00 W
Nominal voltage	30…55 V
Operating mode	Electronic control gear (ECG) [1)]
Nominal current	215 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 λ	0.59

1) Check ECG compatibility at ledvance.com/compatibility

Photometrical data

Luminous flux	770 lm
Luminous efficacy	110 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	≤5 sdcm
Rated LLMF at 6,000 h	0.90
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4

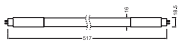


EPREL data spectral diagram PROF LEDr 3000K

Light technical data

Beam angle	190 °
Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	530.00 mm
Length with base excl. base pins/connection	517.00 mm
Diameter	18.50 mm
Product weight	68.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+45 °C [1)]
Maximum temperature at tc test point	65 °C
Performance temp. acc. to IEC 62717	40 °C [2)]

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	7.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / EAC
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 L1

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	530.00 mm
Height	18.50 mm
Width	18.50 mm
Chromaticity coordinate x	0,434
Chromaticity coordinate y	0,403

R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0,86
LED light source replaces a fluorescent light source	No
EPREL ID	1392490,1407627
Model number	AC46403,AC47863,AC47863

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
PDF	User instruction / safety instructions	LED TUBE T5 HF SHORT
PDF	User instruction / safety instructions	
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LED TUBE T5 HF SHORT
PDF	Declarations of conformity UKCA	LED TUBE T5 HF SHORT
PDF	ECG compatibility list	Ballast compatibility LEDVANCE LED TUBE T5 HF_T8 HF_T8 UNIVERSAL 2025

	Photometric and lighting design files	Document name
IES	IES file (IES)	LEDTUBE T5 HF L13 SHORT 517 7W 830 OSRAM
LDT	LDT file (Eulumdat)	LEDTUBE T5 HF L13 SHORT 517 7W 830 OSRAM
	UGR file (UGR table)	LEDTUBE T5 HF L13 SHORT 517 7W 830 OSRAM
	Light distribution curve type polar	LEDTUBE T5 HF L13 SHORT 517 7W 830 OSRAM

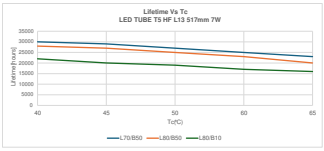
	Photometric and lighting design files	Document name
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075823730	Sleeve 1	533 mm x 23 mm x 23 mm	82.00 g	0.28 dm^3
4099854077562	Folding box 10	118 mm x 48 mm x 535 mm	892.00 g	3.03 dm^3
4058075823747	Shipping box 10	540 mm x 125 mm x 59 mm	1042.00 g	3.98 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.

ADDITIONAL CATALOG INFORMATION



References / Links

– For current information see www.ledvance.com/osram-led-tube

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.