

PRODUCT DATASHEET LED TUBE T5 HF HE14 549 mm 7W 830

LED TUBE T5 HF | LED replacement for T5 FL G5 bases



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 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)

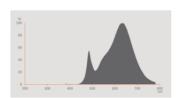
TECHNICAL DATA

Electrical data

Nominal wattage	7 W
Construction wattage	7.00 W
Nominal voltage	4070 V
Operating mode	Electronic control gear (ECG)
Nominal current	185 mA
Type of current	AC
Inrush current	12 A
Operating frequency	2575 kHz
Mains frequency	2575 kHz
Max. lamp number on MCB B10 A	17
Max. lamp number on MCB B16 A	28
Total harmonic distortion	20 %
Power factor λ	> 0.80

Photometrical data

Luminous flux	1000 lm
Luminous efficacy	142 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 %)	< 2.00 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	563.00 mm
Length with base excl. base pins/connection	549.00 mm
Diameter	18.50 mm
Tube diameter	16 mm
Maximum diameter	19 mm
Product weight	77.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C ¹⁾
Maximum temperature at tc test point	70 °C
Performance temp. acc. to IEC 62717	50 °C ²⁾

¹⁾ Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

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

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²⁾ Tp rated. Tp point coincides with Tc point - marked on device $\,$

		PRODUCT DATASHEET
Mercury-free	Yes	
Design / version	Frosted	
Capabilities		
Dimmable	No	
Certificates & Standards		
Energy efficiency class	E 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 (low	est 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	

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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
POF	User instruction / safety instructions	
POF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN
POF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LED TUBE T5 HF
PDF	Declarations of conformity	LEDTUBE
PDF	Declarations of conformity UKCA	LED TUBE T5 HF
PDF	Declarations of conformity UKCA	LEDTUBE
PDF	ECG compatibility list	LED TUBE T8 UNIVERSAL T8 HF T5 HF Gen 11 ballast compatibility 2023
PDF	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 HE14 549 7W 830 OSRAM
LDT file (Eulumdat)	LEDTUBE T5 HF HE14 549 7W 830 OSRAM
UGR file (UGR table)	LEDTUBE T5 HF HE14 549 7W 830 OSRAM
Light distribution curve type polar	LEDTUBE T5 HF HE14 549 7W 830 OSRAM
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
4058075823891	Sleeve 1	620 mm x 46 mm x 17 mm	99.00 g	0.48 dm ³
4058075823907	Shipping box 10	641 mm x 232 mm x 48 mm	1211.00 g	7.14 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-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.