

PRODUCT DATASHEET LED TUBE T5 HF HE28 1149 mm 16W 840

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



Areas of application

- General illumination within ambient temperatures from -20...+45 $^{\circ}\text{C}$
- 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





PRODUCT DATASHEET - Compatible with many common electronic control gears (see also compatibility list)

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TECHNICAL DATA

Electrical data

Nominal wattage	16 W
Construction wattage	16.00 W
Nominal voltage	110160 V
Operating mode	Electronic control gear (ECG)
Nominal current	210 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	15 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	2400 lm
Luminous efficacy	150 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 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 4000K

Light technical data

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

Dimensions & Weight



Overall length	1163.00 mm
Length with base excl. base pins/connection	1149.00 mm
Diameter	18.50 mm
Tube diameter	16 mm
Maximum diameter	19 mm
Product weight	147.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C ¹⁾
Maximum temperature at tc test point	75 °C
Performance temp. acc. to IEC 62717	60 °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 $\,$

Mercury-free	Yes
Design / version	Frosted
Capabilities	
Dimmable	No
Certificates & Standards	
Energy efficiency class	D 1)
Energy consumption	16.00 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 T5 HF H

LOGISTICAL DATA

Temperature range at storage	-20+80 °C
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Energy labelling regulation data acc EU 2019/2015

Non-directional or directional 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 O W Claim of equivalent power No Length Height 1163.00 mm	Lighting technology used	LED
Light source cap-type (or other electric interface) 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 O W Networked standby power for CLS O W Claim of equivalent power Length Height 18.50 mm	Non-directional or directional	NDLS
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 O W Claim of equivalent power No Length 1163.00 mm Height	Mains or non-mains	NMLS
Color-tuneable light source Envelope No High luminance light source No Anti-glare shield No Correlated colour temperature type Standby power O W Networked standby power for CLS O W Claim of equivalent power No Length 1163.00 mm Height	Light source cap-type (or other electric interface)	G5
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 1163.00 mm Height 18.50 mm	Connected light source (CLS)	No
High luminance light source Anti-glare shield No Correlated colour temperature type Standby power O W Networked standby power for CLS O W Claim of equivalent power No Length 1163.00 mm Height	Color-tuneable light source	No
Anti-glare shield Correlated colour temperature type SINGLE_VALUE Standby power 0 W Networked standby power for CLS 0 W Claim of equivalent power No Length 1163.00 mm Height	Envelope	No
Correlated colour temperature type SINGLE_VALUE O W Networked standby power for CLS O W Claim of equivalent power No Length 1163.00 mm Height	High luminance light source	No
Standby power 0 W Networked standby power for CLS 0 W Claim of equivalent power No Length 1163.00 mm Height 18.50 mm	Anti-glare shield	No
Networked standby power for CLS 0 W Claim of equivalent power No Length 1163.00 mm Height 18.50 mm	Correlated colour temperature type	SINGLE_VALUE
Claim of equivalent power No Length 1163.00 mm Height 18.50 mm	Standby power	0 W
Length 1163.00 mm Height 18.50 mm	Networked standby power for CLS	0 W
Height 18.50 mm	Claim of equivalent power	No
	Length	1163.00 mm
Width 18.50 mm	Height	18.50 mm
widut 10.50 mm	Width	18.50 mm

Model number	AC44157,AC38762,AC38762	
EPREL ID	1407634,1317795	
LED light source replaces a fluorescent light source	No	
Displacement factor	0.9	
Survival factor	0.9	
Beam angle correspondence	SPHERE_360	
R9 Colour rendering index	80	
Chromaticity coordinate y	0.38	
Chromaticity coordinate x	0.382	

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		
PDF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN	
PDF	Legal information	Informationstext 18 Abs 4 ElektroG	
PDF	Declarations of conformity	LED TUBE T5 HF	
PDF	Declarations of conformity UKCA	LED TUBE T5 HF	
	Photometric and lighting design files	Document name	
	IES file (IES)	LEDTUBE T5 HF HE28 1149 16W 840 OSRAM	
	LDT file (Eulumdat)	LEDTUBE T5 HF HE28 1149 16W 840 OSRAM	
	UGR file (UGR table)	LEDTUBE T5 HF HE28 1149 16W 840 OSRAM	
	Light distribution curve type polar	LEDTUBE T5 HF HE28 1149 16W 840 OSRAM	

Photometric and lighting design files	Document name
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
4058075823839	Sleeve 1	1,210 mm x 23 mm x 47 mm	193.00 g	1.31 dm³
4058075823846	Shipping box	1,233 mm x 232 mm x 46 mm	2353.00 g	13.16 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.