

# PRODUCT DATASHEET LED TUBE T5 HF HE21 849 mm 10W 840

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)

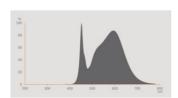
## TECHNICAL DATA

## Electrical data

Nominal wattage	11 W
Construction wattage	11.00 W
Nominal voltage	5090 V
Operating mode	Electronic control gear (ECG)
Nominal current	193 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 $\lambda$	> 0.80

#### Photometrical data

Luminous flux	1700 lm
Luminous efficacy	154 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	863.00 mm
Length with base excl. base pins/connection	849.00 mm
Diameter	18.50 mm
Product weight	106.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+45 °C <sup>1)</sup>
Maximum temperature at tc test point	70 °C
Performance temp. acc. to IEC 62717	60 °C <sup>2)</sup>

<sup>1)</sup> 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
Mercury-free	Yes
Design / version	Frosted

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

# Capabilities

Dimmable	No

#### Certificates & Standards

Energy efficiency class	D 1)
Energy consumption	11.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / EAC
Photobiological safety group acc. to EN62778	RG0

<sup>1)</sup> 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

# 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	863.00 mm
Height	18.50 mm
Width	18.50 mm
Chromaticity coordinate x	0.382
Chromaticity coordinate y	0.38

Beam angle correspondence  SPHERE_360  Survival factor  0.9  Displacement factor  0.9  LED light source replaces a fluorescent light source  No  EPREL ID  1407636,1317792,2209916  Model number  AC44160 AC38765 AC70948	R9 Colour rendering index	1
Displacement factor  0.9  LED light source replaces a fluorescent light source  No  EPREL ID  1407636,1317792,2209916	Beam angle correspondence	SPHERE_360
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	LED light source replaces a fluorescent light source	No
Model number AC4/160 AC38765 AC70048	EPREL ID	1407636,1317792,2209916
Widde Hulling A044100,A030103,A010340	Model number	AC44160,AC38765,AC70948

## 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	LEDTUBE		
PDF	Declarations of conformity UKCA	LED TUBE T5 HF		
PDF	Declarations of conformity UKCA	LEDTUBE		
PDF	ECG compatibility list	Ballast compatibility LEDVANCE LED TUBE T5 HF_T8 HF_T8 UNIVERSAL 2025		
	Dhotomotric and lighting docing files	Document name		
	Photometric and lighting design files	Document name		
	IES file (IES)	LEDTUBE T5 HF HE21 849 10W 840 OSRAM		

Photometric and lighting design files	Document name
IES file (IES)	LEDTUBE T5 HF HE21 849 11W 840 OSRAM
LDT file (Eulumdat)	LEDTUBE T5 HF HE21 849 10W 840 OSRAM
LDT file (Eulumdat)	LEDTUBE T5 HF HE21 849 11W 840 OSRAM
UGR file (UGR table)	LEDTUBE T5 HF HE21 849 10W 840 OSRAM
UGR file (UGR table)	LEDTUBE T5 HF HE21 849 11W 840 OSRAM
Light distribution curve type polar	LEDTUBE T5 HF HE21 849 10W 840 OSRAM
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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
4058075823877	Sleeve 1	920 mm x 46 mm x 17 mm	139.00 g	0.72 dm <sup>3</sup>
4058075823884	Shipping box 10	941 mm x 232 mm x 48 mm	1715.00 g	10.48 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/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.