

# PRODUCT DATASHEET SubstiTUBE T5 AC HO39 16 W/6500 K 863 mm

SubstiTUBE T5 220-240V AC | LED tubes for operation on AC mains connection



#### Areas of application

- Offices, public buildings
- Supermarkets and department stores
- Industry
- General illumination within ambient temperatures from -20...+45 °C

### **Product benefits**

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- High luminous flux for sophisticated lighting tasks

#### **Product features**

- LED replacement for T5 fluorescent lamps with G5 base on AC mains
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- High color consistency:  $\leq 5$  sdcm
- Lifetime up to 50,000 h



March 24, 2025, 22:38:05 SubstiTUBE T5 AC HO39 16 W/6500 K 863 mm - Low flicker according to EU 2019/2020

- Type of protection: IP20

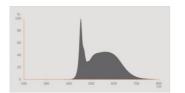
## **TECHNICAL DATA**

## Electrical data

Nominal wattage	16 W
Construction wattage	16.00 W
Nominal voltage	220240 V
Operating mode	AC Mains
Nominal current	47 mA
Type of current	AC
Inrush current	4.02 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	62
Max. lamp number on MCB B10 A - CCG without compensation	64
Max. lamp number on MCB B16 A	96
Max. lamp number on MCB B16 A - CCG without compensation	102
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 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 Daylight
Color temperature	6500 K
Color rendering index Ra	80
Light color	865
Standard deviation of color matching	≤5 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4

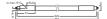


EPREL data spectral diagram PROF LEDr 6500K

# Light technical data

Beam angle	160 °
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	19.00 mm
Tube diameter	16 mm
Maximum diameter	19 mm
Product weight	116.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	73 °C

## Lifespan

Lifespan L70/B50 at 25 °C	50000 h
Number of switching cycles	50000
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

# Capabilities

	Dimmable	No
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### **Certificates & Standards**

Energy efficiency class	D <sup>1)</sup>
Energy consumption	16.00 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

# 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	MLS
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	19.00 mm
Width	19.00 mm
Chromaticity coordinate x	0.312
Chromaticity coordinate y	0.328
R9 Colour rendering index	0.00
Beam angle correspondence	SPHERE_360
Survival factor	0.90
Displacement factor	0.90
LED light source replaces a fluorescent light source	No
EPREL ID	1168772
Model number	AC41518

#### Safety advice

- Not suitable for operation with electronic control gear.
- 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.
- After rewiring of a luminaire the installer will be responsible for all technical and safety consequences.
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.
- Not suitable for emergency lighting.

## DOWNLOAD DATA

	Documents and certificates	Document name	
PDF	User instruction / safety instructions	SubstiTUBE T5 220-240V AC	
PDF	Extended installation guide	SubstiTUBE® T8 T5	
PDF	Legal information	Informationstext 18 Abs 4 ElektroG	
PDF	Declarations of conformity	LED TUBE T5 AC HO HE OSRAM	
PDF	Declarations of conformity UKCA	LEDTUBE T5	
	Photometric and lighting design files	Document name	
	IES file (IES)	LEDTUBE T5 AC HO39 849 16W	

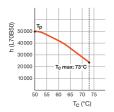
	Photometric and lighting design files	Document name
	LDT file (Eulumdat)	LEDTUBE T5 AC HO39 849 16W
1	UGR file (UGR table)	LEDTUBE T5 AC HO39 849 16W
	Light distribution curve type polar	LEDTUBE T5 AC HO39 849 16W
1	Spectral power distribution	EPREL data spectral diagram PROF LEDr 6500K

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075771666	Sleeve 1	865 mm x 20 mm x 24 mm	131.00 g	0.42 dm <sup>3</sup>
4058075771673	Shipping box 10	918 mm x 153 mm x 80 mm	1654.00 g	11.24 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.

### ADDITIONAL CATALOG INFORMATION



### DISCLAIMER

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