

PRODUCT DATASHEET SubstiTUBE T8 HF Value 8 W/4000 K 600 mm

SubstiTUBE T8 HF VALUE | Economic LED tubes for electronic high frequency control gears (ECG)



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Warehouses

Product benefits

- Easy installation
- Also suitable for operation at low temperatures
- No bending thanks to glass technology

Product features

- T8 LED tube made of glass with G13 base
- Compatible with many common electronic control gears (see also compatibility list)
- Low flicker according to EU 2019/2020
- Uniform illumination
- Lifetime up to 30,000 h
- Mercury-free and RoHS compliant
- Type of protection: IP20





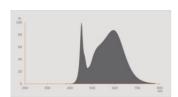
TECHNICAL DATA

Electrical data

Nominal wattage	8 W
Construction wattage	8.00 W
Nominal voltage	2040 V
Operating mode	ECG
Nominal current	60 mA
Type of current	AC
Inrush current	20 A
Operating frequency	2075 kHz
Mains frequency	2075 kHz
Total harmonic distortion	< 20 %
Power factor λ	> 0.80

Photometrical data

Luminous flux	800 lm
Luminous efficacy	100 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	83
Light color	840
Standard deviation of color matching	≤5 sdcm
Flickering metric (Pst LM)	Ч
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	603.00 mm
Length with base excl. base pins/connection	600.00 mm
Diameter	27.80 mm
Tube diameter	25,5 mm
Base diameter	25,7 mm
Maximum diameter	28 mm
Product weight	109.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	68 °C

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)	G13
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	F 1)

Energy consumption	9.00 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

Conder reference LEDTUBE T8 HF V 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 Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) No Coin-tuneable light source Envelope No High luminance light source No Anti-glare shield No Correlated colour temperature type SiNGLE_VALUE Claim of equivalent power No Height 27.80 mm Width 27.80 mm Width 27.80 mm Chromaticity coordinate x O.381 Chromaticity coordinate y R9 Colour rendering index Baam angle correspondence SPHERE_360 Survival factor O.90 Displacement factor LED light source replaces a fluorescent light source No EPRELID 159430	Country-specific categorizations		
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EPREL ID 519430	Displacement factor	0.90	
	LED light source replaces a fluorescent light source	No	
100000	EPREL ID	519430	
Model number AC33867	Model number	AC33867	

Safety advice

- Not suitable for operation with low-loss and conventional control gears and main voltage.
- 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.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LEDTUBE T8 HF LED tube
PDF	Extended installation guide	SubstiTUBE® T8 T5
PDF	Declarations of conformity	T8 HF tube series
PDF	Declarations of conformity UKCA	LEDTUBE T8 and T5
	Photometric and lighting design files	Document name

Photometric and lighting design files	Document name	
IES file (IES)	ST8V 0.6M 8W 840 20-40V HF OSRAM	
LDT file (Eulumdat)	ST8V 0.6M 8W 840 20-40V HF OSRAM	
Light distribution curve type polar	ST8V 0.6M 8W 840 20-40V HF OSRAM	
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
4058075545366	Sleeve 1	610 mm x 31 mm x 31 mm	127.00 g	0.59 dm ³
4058075545373	Shipping box 10	662 mm x 210 mm x 115 mm	1630.00 g	15.99 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.

DISCLAIMER

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Page 6 of 6