

# PRODUCT DATASHEET SubstiTUBE T8 HF Pro 7.5 W/6500 K 600 mm

SubstiTUBE T8 HF PRO | LED tubes for electronic high frequency control gears (ECG), shatterproof



#### Areas of application

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

#### **Product benefits**

- Quick, simple and safe replacement without rewiring
- Shatter protection thanks to special PET coating
- Also suitable for operation at low temperatures
- High luminous flux for sophisticated lighting tasks
- No bending thanks to glass technology

#### **Product features**

- T8 LED tube made of glass with G13 base
- Low flicker according to EU 2019/2020
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime up to 60,000 h
- Compatible with many common electronic control gears (see also compatibility list)





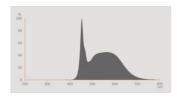
#### TECHNICAL DATA

#### Electrical data

Nominal wattage	7.5 W
Construction wattage	7.50 W
Nominal voltage	2040 V
Operating mode	ECG
Nominal current	50 mA
Type of current	AC
Inrush current	20 A
Operating frequency	2075 kHz
Mains frequency	2075 kHz
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.80

#### Photometrical data

Luminous flux	1100 lm
Luminous efficacy	146 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	83
Light color	865
Standard deviation of color matching	≤5 sdcm
Flickering metric (Pst LM)	Ч
Stroboscope effect metric (SVM)	<b>^</b> 0,4



EPREL data spectral diagram PROF LEDr 6500K

# 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
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	60000 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	D 1)
Energy consumption	9.00 kWh/1000h
Type of protection	IP20
Standards	CE

Photobiological safety group acc. to EN62778	RG0
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<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

Order reference	LEDTUBE T8 HF P	
Order reference	LEDIOBE TO HE F	
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)	G13	
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	
Claim of equivalent power	No	
Length	603.00 mm	
Height	27.80 mm	
Width	27.80 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	

0.90

No

519419

AC33856

## Safety advice

**EPREL ID** 

Model number

Displacement factor

LED light source replaces a fluorescent light source

- 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.
- All electrical connections must be made by a qualified person.
- Not suitable for emergency lighting.

#### **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
	IES file (IES)	ST8PRO 0.6M 7,5W 865 20-40VHF OSRAM
	LDT file (Eulumdat)	ST8PRO 0.6M 7,5W 865 20-40VHF OSRAM
	Light distribution curve type polar	ST8PRO 0.6M 7,5W 865 20-40VHF OSRAM
	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
4058075545113	Sleeve 1	610 mm x 31 mm x 31 mm	127.00 g	0.59 dm <sup>3</sup>
4058075545120	Shipping box 10	662 mm x 210 mm x 115 mm	1630.00 g	15.99 dm³

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

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.