

PRODUCT DATASHEET SubstiTUBE T5 HF HO80 37 W/4000 K 1463 mm

SubstiTUBE TUBE T5 HF | LED tubes for electronic high frequency control gears



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 50,000 h
- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM $\leq 1)$
- Type of protection: IP20
- Compatible with many common electronic control gears (see also compatibility list)

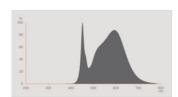
TECHNICAL DATA

Electrical data

Nominal wattage	37 W
Construction wattage	37.00 W
Nominal voltage	6090 V
Operating mode	ECG
Nominal current	188 mA
Type of current	AC
Inrush current	35 A
Operating frequency	2075 kHz
Mains frequency	2075 kHz
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	5600 lm
Luminous efficacy	151 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)	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	1463.00 mm
Length with base excl. base pins/connection	1449.00 mm
Diameter	17.00 mm
Tube diameter	16 mm
Maximum diameter	17 mm
Product weight	192.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at to test point	86 °C

Lifespan

Lifespan L70/B50 at 25 °C	50000 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

Capabilities

	Dimmable	No
-		

Certificates & Standards

Energy efficiency class	D 1)

Energy consumption	41.00 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

LEDTUBE T5 HF H 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) G5 Connected light source (CLS) No Color-tuneable light source No Envelope No High luminance light source No Anti-glare shield No Correlated ocolour temperature type SINGLE_VALUE Standby power 0W Networked standby power for CLS 0W Length 1463.00 mm Height 17.00 mm Wrieth 17.00 mm Wrieth 17.00 mm Chromaticity coordinate x 0.381 Chromaticity coordinate x 0.379 Rep Colour rendering index 0.90 Sunvival factor 0.90 Displacement factor 0.90 Displacement factor 0.90 Displacement factor 0.90	Country-specific categorizations	
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Beam angle correspondence SPHERE_360 Survival factor 0.90	Chromaticity coordinate y	0.379
Survival factor 0.90	R9 Colour rendering index	0.00
	Beam angle correspondence	SPHERE_360
Displacement factor 0.90	Survival factor	0.90
	Displacement factor	0.90

No

LED light source replaces a fluorescent light source

EPREL ID	642858
Model number	AC35143

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.
- 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	SubstiTUBE T5 HF (ECG) LED TUBE	
PDF	Extended installation guide	SubstiTUBE® T8 T5	
PDF	Declarations of conformity	LEDTUBE T5 HF	
PDF	Declarations of conformity UKCA	LEDTUBE T8 and T5	

Photometric and lighting design files	Document name
IES file (IES)	ST5HO80 1.5M 37W 840 HF G5 OSRAM
LDT file (Eulumdat)	ST5HO80 1.5M 37W 840 HF G5 OSRAM
Light distribution curve type polar	ST5HO80 1.5M 37W 840 HF G5 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
4058075542969	Sleeve 1	1,465 mm x 20 mm x 24 mm	218.00 g	0.70 dm ³
4058075542976	Shipping box 10	1,518 mm x 153 mm x 80 mm	2702.00 g	18.58 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.

References / Links

- For current information see www.ledvance.com/osram-substitube

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.