

PRODUCT DATASHEET SubstiTUBE T5 AC HO80 37 W/3000 K 1463 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: ≤ 5 sdcm
- Lifetime up to 50,000 h





- Low flicker according to EU 2019/2020
- Type of protection: IP20

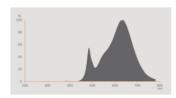
TECHNICAL DATA

Electrical data

Nominal wattage	37 W
Construction wattage	37.00 W
Nominal voltage	220240 V
Operating mode	AC Mains
Nominal current	165 mA
Type of current	AC
Inrush current	12.6 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	27
Max. lamp number on MCB B16 A	44
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	5050 lm
Luminous efficacy	136 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	83
Light color	830
Standard deviation of color matching	≤5 sdcm
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



EPREL data spectral diagram PROF LEDr 3000K

Light technical data

Beam angle	160 °
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	19.00 mm
Tube diameter	16,0 mm
Maximum diameter	19 mm
Product weight	182.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	75 °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
Design / version	Frosted

Capabilities

Dimn	nable	No

Certificates & Standards

Energy efficiency class	D 1)
Energy consumption	37.00 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

Temperature range at storage -20+80 °C	Country-specific categorizations		
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 Anti-glare shield No Correlated colour temperature type Single_VALUE Standby power OW Networked standby power for CLS OW Claim of equivalent power No Length Height 19.00 mm Width 19.00 mm Chromaticity coordinate x Chomaticity coordinate y DLE PO Colour endering index OLE PO Colour endering index OLE Connected colour temperature type OLE Characteristics OLE Consequence	Order reference	LEDTUBE T5 AC H	
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R9 Colour rendering index 0.00	Chromaticity coordinate x	0.433	
	Chromaticity coordinate y	0.403	
Beam angle correspondence SPHERE_360	R9 Colour rendering index	0.00	
	Beam angle correspondence	SPHERE_360	

0.90

0.90

Survival factor

Displacement factor

LED light source replaces a fluorescent light source	No
EPREL ID	642839
Model number	AC35124

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	Declarations of conformity	LEDTUBE T5 AC
PDF	Declarations of conformity UKCA	LEDTUBE T8 and T5
	Photometric and lighting design files	Document name
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075630505	Sleeve 1	1,465 mm x 20 mm x 24 mm	208.00 g	0.70 dm ³
4058075630512	Shipping box 10	1,518 mm x 153 mm x 80 mm	2602.00 g	18.58 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.

1463 mm

DISCLAIMER

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