

PRODUCT DATASHEET Substitube T5 AC HE35 18 W/6500 K 1449 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

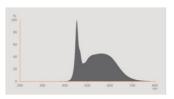
TECHNICAL DATA

Electrical data

Nominal wattage	18 W
Construction wattage	18.00 W
Nominal voltage	220240 V
Operating mode	AC Mains
Nominal current	80 mA
Type of current	AC
Inrush current	11.9 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	56
Max. lamp no. on circuit break. 16 A (B)	90
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	2800 lm
Luminous efficacy	155 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)	1.0
Stroboscope effect metric (SVM)	0.4



Light technical data

Beam angle	160 °
Warm-up time (60 %)	< 2.00 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	1449.00 mm
Length with base excl. base pins/connection	1449 mm
Diameter	19.00 mm
Tube diameter	16 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	70 °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
Design / version	Frosted

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	D ¹⁾
Energy consumption	18.00 kWh/1000h
Type of protection	IP20
Standards	CE
Photobiological safety group acc. to EN62778	RG0

 $^{1) \ {\}sf Energy \ efficiency \ class \ (EEC) \ on \ a \ scale \ of \ A \ (highest \ efficiency) \ to \ G \ (lowest \ efficiency)}$

Country-specific categorizations		
Order reference	LEDTUBE T5 AC 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	MLS	
Light source cap-type (or other electric interface)	G5	
Connected light source (CLS)	No	

No

No

No

No

SINGLE_VALUE

Correlated colour temperature type

Color-tuneable light source

Anti-glare shield

Standby power
Networked standby power for CLS

Claim of equivalent power Length

Width	
Chromaticity coordinate x	Ī

Chromaticity coordinate y

Height

R9 Colour rendering index

Beam angle correspondence Survival factor

Displacement factor

0 W 0 W No 1449.00 mm 19.00 mm 19.00 mm 0.312 0.328

0.90

0.00

SPHERE_360

0.90

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LED light source replaces a fluorescent light source	No
EPREL ID	642850
Model number	AC35135

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 max temperature on the product prior to installation.
- After rewiring of a luminaire the installer will be responsible for all technical and safety consequences.

DOWNLOAD DATA

	Documents and certificates
POF	User instruction
POF	Installation guide
POF	Declarations Of Conformity CE
PDF	Declarations Of Conformity UKCA
	Photometric and lighting design files
	IES file (IES)
	LDT file (Eulumdat)
	Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075543508	Sleeve 1	1,465 mm x 20 mm x 24 mm	208.00 g	0.70 dm ³
4058075543515	Shipping box 10	1,518 mm x 153 mm x 80 mm	2602.00 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.

October 11, 2023, 21:52:46 SubstiTUBE T5 AC HE35 18 W/6500 K 1449 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.