

PRODUCT DATASHEET

ST5HO80-UN 37 W/4000 K 1449.00 mm

SubstiTUBE® T5 UN | LED tubes for electronic high frequency control gears and AC mains



Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Industry
- Public buildings, shopping centers
- Offices

Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- Also suitable for operation at low temperatures
- High luminous flux for sophisticated lighting tasks

Product features

- Compatible with many common electronic control gears (see also compatibility list) and line voltage
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- For especially uniform illumination



TECHNICAL DATA

Electrical data

Nominal wattage	37 W
Construction wattage	37.00 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	80 W
Nominal current	170 mA ¹⁾
Type of current	AC
Inrush current	57 A
Operating frequency	50...60 Hz ²⁾
Mains frequency	50...60 Hz
Max. lamp no. on circuit break. 10 A (B)	29
Max. lamp no. on circuit break. 16 A (B)	46
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

¹⁾ 400-730 mA for ECG (HF)

²⁾ 40-80KHz for ECG (HF)

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

Light technical data

Beam angle	160 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	160.00 °

Dimensions & Weight



Overall length	1449.00 mm
Length with base excl. base pins/connection	1449 mm
Diameter	17.00 mm
Tube diameter	16 mm
Base diameter	17,0 mm
Maximum diameter	22 mm
Product weight	190.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	90 °C

Lifespan

Lifespan	60000 h
Number of switching cycles	200000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	≥ 0.90

Additional product data

Base (standard designation)	G5
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	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	RG1

¹⁾ Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations

Order reference	ST5HO80-1.5M 37
-----------------	-----------------




LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
------------------------------	--------------

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G5
Length	1449.00 mm
Height	17.00 mm
Width	17.00 mm

DOWNLOAD DATA

DOWNLOAD DATA	
	Installation guide Installation instructions for SubstiTube
	IES file (IES) ST5HO80 1,5M 37W 840 230V UN
	LDT file (Eulumdat) ST5HO80 1,5M 37W 840 230V UN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075137868	Sleeve 1	1,465 mm x 20 mm x 25 mm	223.00 g	0.73 dm ³
4058075137875	Shipping box 10	1,495 mm x 157 mm x 89 mm	2822.00 g	20.89 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

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