

PRODUCT DATASHEET

ST5HO80-UN 37 W/3000 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
Operating mode	Electronic control gear (ECG), Line voltage
Nominal current	170 mA ¹⁾
Type of current	AC
Inrush current	57 A
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz ²⁾
Max. lamp number on MCB B10 A	29
Max. lamp number on MCB B16 A	46
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

1) 400-730 mA for ECG (HF)

2) 40-80KHz for ECG (HF)

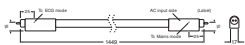
Photometrical data

Luminous flux	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 sdcn

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	17.00 mm
Base diameter	17,0 mm
Product weight	190.00 g

Temperatures & operating conditions

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

Lifespan

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

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	A++ 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 E (lowest efficiency)

Country-specific categorizations

Order reference	ST5HO80-1.5M 37
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LOGISTICAL DATA

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

Documents and certificates		Document name
	Extended installation guide	Installation instructions for SubstiTube
Photometric and lighting design files		Document name
	IES file (IES)	ST5HO80 1,5M 37W 830 230V UN
	LDT file (Eulumdat)	ST5HO80 1,5M 37W 830 230V UN
	Light distribution curve type polar	ST5HO80 1,5M 37W 830 230V UN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075137844	Sleeve 1	1,465 mm x 20 mm x 25 mm	223.00 g	0.73 dm ³
4058075137851	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.