

PRODUCT DATASHEET

ST8AU-HF 24 W/4000 K 1500 mm

SubstiTUBE Advanced UO HF | LED tubes for electronic high frequency control gears



Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Supermarkets and department stores
- Industry
- Offices, public buildings

Product benefits

- Quick, simple and safe replacement without rewiring
- Also suitable for operation at low temperatures
- Excellent luminous flux
- No bending thanks to glass technology

Product features

- T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime up to 60,000 h



TECHNICAL DATA

Electrical data

Nominal wattage	24 W
Construction wattage	24.00 W
Nominal voltage	220...240 V
Nominal current	370 mA
Type of current	AC
Inrush current	30 A
Operating frequency	20...70 kHz
Mains frequency	20...70 kHz
Max. lamp number on MCB B10 A	40
Max. lamp number on MCB B16 A	65
Total harmonic distortion	20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	3600 lm
Luminous efficacy	150 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	≥ 80
Light color	840
Standard deviation of color matching	≤ 4 sdc

Light technical data

Beam angle	160 °
Warm-up time (60 %)	< 1.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	1513.00 mm
Length with base excl. base pins/connection	1498 mm
Diameter	27.80 mm
Tube diameter	25,5 mm
Base diameter	28,0 mm
Maximum diameter	28 mm
Product weight	265.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	75 °C

Lifespan

Lifespan L70/B50 at 25 °C	60000 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)	G13
Mercury content	0.0 mg
Mercury-free	Yes
Product remark	When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system / Not usable in luminaires with serial lamp connection, i.e. more than one tube at one magnetic ballast (tandem circuitry)

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	D ¹⁾
Energy consumption	28.13 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	ST8AU-1.5M 24W/
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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)	G13
Length	1513.00 mm
Height	27.80 mm
Width	27.80 mm

Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- Not suitable for operation with low-loss and conventional control gears

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075479913	Sleeve 1	1,520 mm x 31 mm x 31 mm	294.00 g	1.46 dm ³
4058075479920	Shipping box 10	1,572 mm x 210 mm x 115 mm	3714.00 g	37.96 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.

References / Links

- For current information see www.ledvance.com/substitute

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