

PRODUCT DATASHEET

ST8A-HF 20.5 W/840 K 1500 mm

SubstiTUBE Advanced HF | High performance 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
- 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 50,000 h



TECHNICAL DATA

Electrical data

Rated wattage	20.50 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	20.50 W
Nominal current	0.39 A
Type of current	AC
Power factor λ	> 0.90

Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	3100 lm
Rated luminous flux	3100 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	3100 lm
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 4 sdcn

Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 2.00 s
Rated beam angle (half peak value)	160.00 °

Dimensions & weight



Length with base excl. base pins/connection	1498.00 mm
Tube diameter	25.5 mm

Base diameter	27.5 mm
Product weight	253.00 g
Overall length	1513 mm

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
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Lifespan

Lifespan	50000 h
Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	200000

Additional product data

Base (standard designation)	G13
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A++
Energy consumption	25 kWh/1000h

Country-specific categorizations

ILCOS	DR-20.6/840-G13-25.5/1513
Order reference	ST8A-1.5M 20,5W

Logistical data

Temperature range at storage	-20...80 °C
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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
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4058075819054	Sleeves 1	1520 mm x 31 mm x 31 mm	282.00 g	1.46 dm ³
4058075819061	Shipping carton box 10	1572 mm x 210 mm x 115 mm	3592.00 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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