

PRODUCT DATASHEET

ST8A-HF 21 W/4000 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

| | |
|------------------------|-------------|
| Nominal wattage | 21 W |
| Construction wattage | 21.00 W |
| Nominal voltage | 220...240 V |
| Nominal current | 125 mA |
| Type of current | AC |
| Power factor λ | > 0.90 |

Photometrical data

| | |
|---|---------------------------|
| Luminous flux | 3150 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 _m |
| Rated lamp efficacy (standard co.) | 150 lm/W |

Light technical data

| | |
|---------------------|----------|
| Beam angle | 180 ° |
| Warm-up time (60 %) | < 0.50 s |
| Starting time | < 0.5 s |

Dimensions & Weight

| | |
|------------------|------------|
| Overall length | 1513.00 mm |
| Diameter | 27.35 mm |
| Tube diameter | 27,5 mm |
| Base diameter | 25,7 mm |
| Maximum diameter | 28 mm |
| Product weight | 335.00 g |

Temperatures & operating conditions

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

Lifespan

| | |
|--|--------|
| Number of switching cycles | 200000 |
| Lumen maintenance at end of service lifetime | 0.70 |

Additional product data

| | |
|-----------------------------|---------|
| Base (standard designation) | G13 |
| Mercury content | 0.0 mg |
| Mercury-free | Yes |
| Design / version | Frosted |

Capabilities

| | |
|----------|----|
| Dimmable | No |
|----------|----|

Certificates & Standards

| | |
|-------------------------|-------------------|
| Energy efficiency class | A++ ¹⁾ |
| Energy consumption | 23.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE |

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

Country-specific categorizations

| | |
|-----------------|-----------------------|
| ILCOS | DR-21/840-G13-26/1500 |
| Order reference | ST8A-1.5M 21W/8 |

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) | G13 |
| Length | 1513.00 mm |
| Height | 27.35 mm |
| Width | 27.35 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

DOWNLOAD DATA

Documents and certificates



Installation guide



Declarations Of Conformity CE

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4052899956384 | Sleeve 1 | 1,616 mm x 30 mm x 30 mm | 435.00 g | 1.45 dm ³ |
| 4052899956414 | Shipping box 25 | 1,637 mm x 166 mm x 182 mm | 11666.00 g | 49.46 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

DISCLAIMER

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