

PRODUCT DATASHEET

ST8AU-UN 15 W/6500 K 1200 mm

SubstiTUBE Advanced UO UN | LED tubes for electronic and electromagnetic control gears, shatterproof



Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Supermarkets and department stores
- Industry
- Illumination of production areas

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
- Easy installation

Product features

- Compatible with conventional and 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 | 15 W |
| Construction wattage | 15.00 W |
| Nominal voltage | 220...240 V |
| Operating mode | Electronic control gear (ECG), Conventional control gear (CCG), Line voltage |
| Nominal current | 75 mA ¹⁾ |
| Type of current | AC |
| Inrush current | 56 A |
| Operating frequency | 50...60 Hz |
| Mains frequency | 50...60 Hz ²⁾ |
| Max. lamp number on MCB B10 A | 68 |
| Max. lamp number on MCB B10 A - CCG without compensation | 68 |
| Max. lamp number on MCB B10 A - CCG with compensation | 37 |
| Max. lamp number on MCB B16 A | 103 |
| Max. lamp number on MCB B16 A - CCG without compensation | 103 |
| Max. lamp number on MCB B16 A - CCG with compensation | 62 |
| Power factor λ | > 0.90 |

1) 390 mA for ECG (HF)

2) 20-75KHz for ECG (HF)

Photometrical data

| | |
|---|---------------------|
| Luminous flux | 2400 lm |
| Luminous efficacy | 160 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Cool Daylight |
| Color temperature | 6500 K |
| Color rendering index Ra | 83 |
| Light color | 865 |
| Standard deviation of color matching | ≤5 sdc _m |
| Rated LLMF at 6,000 h | 0.80 |

Light technical data

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|------------|-------|
| Beam angle | 160 ° |
|------------|-------|

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|---------------------|----------|
| Warm-up time (60 %) | < 0.50 s |
| Starting time | < 0.5 s |

Dimensions & Weight

| | |
|---|------------|
| Overall length | 1200.00 mm |
| Length with base excl. base pins/connection | 1198 mm |
| Diameter | 28.00 mm |
| Tube diameter | 26,7 mm |
| Base diameter | 28,0 mm |
| Maximum diameter | 28 mm |
| Product weight | 239.00 g |

Temperatures & operating conditions

| | |
|--------------------------------------|--------------|
| Ambient temperature range | -20...+50 °C |
| Maximum temperature at tc test point | 53 °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 |

Capabilities

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

Certificates & Standards

| | |
|--|-----------------|
| Energy efficiency class | C ¹⁾ |
| Energy consumption | 15.00 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 | ST8AU-1.2M 15W/ |
|-----------------|-----------------|

LOGISTICAL DATA

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|------------------------------|--------------|
| 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 | 1200.00 mm |
| Height | 28.00 mm |
| Width | 28.00 mm |

Safety advice

– Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

DOWNLOAD DATA

| Documents and certificates | Document name |
|--|--|
|  Extended installation guide | Installation instructions for SubstiTube |

| Photometric and lighting design files | Document name |
|--|-----------------------|
|  IES file (IES) | ST8AU 1,2M 15W 865 UN |
|  LDT file (Eulumdat) | ST8AU 1,2M 15W 865 UN |
|  Light distribution curve type polar | ST8AU 1,2M 15W 865 UN |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075137783 | Sleeve 1 | 1,305 mm x 29 mm x 29 mm | 268.00 g | 1.10 dm ³ |
| 4058075137790 | Shipping box 10 | 1,352 mm x 210 mm x 115 mm | 3369.00 g | 32.65 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

Legal advice

– When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

DISCLAIMER

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