

PRODUCT DATASHEET

ST8PROU-UN 23 W/6500 K 1500 mm

SubstiTUBE® PRO UO UN | LED tubes for electronic control gears (ECG), electromagnetic control gears (CCG) and mains, shatterproof



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Supermarkets and department stores
- Industry

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

- T8 LED tube made of glass with G13 base
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- Low flicker according to EU 2019/2020
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime: up to 60,000 h



TECHNICAL DATA

Electrical data

| | |
|---|-------------|
| Nominal wattage | 23 W |
| Nominal voltage | 220...240 V |
| Claimed equiv. conventional lamp power | 58 W |
| Nominal current | 125 mA |
| Type of current | AC |
| Inrush current | 15 A |
| Operating frequency | 50...60 Hz |
| Mains frequency | 50...60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 50 |
| Max. lamp no. on circuit break. B10 A - CCG with compensation | 60 |
| Max. lamp no. on circuit break. 16 A (B) | 85 |
| Max. lamp no. on circuit break. B16 A - CCG with compensation | 95 |
| Total harmonic distortion | < 20 % |
| Power factor λ | > 0,90 |

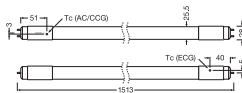
Photometrical data

| | |
|--------------------------------------|---------------|
| Luminous flux | 3700 lm |
| Luminous efficacy | 160 lm/W |
| Lumen main.fact.at end of nom.li | 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 sdcn |

Light technical data

| | |
|------------------------------------|----------|
| Beam angle | 190 ° |
| Warm-up time (60 %) | < 2.00 s |
| Starting time | < 0.5 s |
| Rated beam angle (half peak value) | 190.00 ° |

Dimensions & weight



| | |
|------------------|------------|
| Length | 1513.10 mm |
| Diameter | 27.80 mm |
| Tube diameter | 25.5 mm |
| Maximum diameter | 28 mm |
| Product weight | 272.000 g |

Temperatures & operating conditions

| | |
|--------------------------------------|---------------------|
| Ambient temperature range | -20...+45 °C |
| Maximum temperature at tc test point | 74 °C ¹⁾ |

¹⁾ at CCG+Mains operation, ECG operation: 73°C

Lifespan

| | |
|-------------------------------------|---------|
| Nominal lamp life time | 60000 h |
| Rated lamp life time | 60000 h |
| Number of switching cycles | 200000 |
| Lumen maintenance at end of serv | 0.70 |
| Rated lamp survival factor at 6,000 | ≥ 0.90 |

Additional product data

| | |
|-----------------------------|-----|
| Base (standard designation) | G13 |
| Mercury-free | Yes |
| Show WEEE picto | Yes |

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

| | |
|-----------------|-----------------|
| Order reference | ST8PROU-1.5M 23 |
|-----------------|-----------------|

LOGISTICAL DATA

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

DOWNLOAD DATA

| DOWNLOAD DATA | |
|---|---|
|  | Installation guide SubstiTUBE® T8 T5 |
|  | Installation guide Installationsanleitung SubstiTUBE T8 T5 |
|  | IES file (IES) ST8PROU 1.5M 23W 865 UN OSRAM |
|  | LDT file (Eulumdat) ST8PROU 1.5M 23W 865 UN OSRAM |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075546875 | Sleeve 1 | 1,605 mm x 29 mm x 29 mm | 306.00 g | 1.35 dm ³ |
| 4058075546882 | Shipping box 10 | 1,652 mm x 210 mm x 115 mm | 3900.00 g | 39.90 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.