

PRODUCT DATASHEET

ST8U-EM 8 W/4000K 300 mm

SubstiTUBE U-Shape | U-shaped LED tubes for electromagnetic control gears



AREAS OF APPLICATION

- Street and city lighting
- Industry

PRODUCT BENEFITS

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 65 % (compared to T8 fluorescent lamp on CCG)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads
- Also suitable for operation at low temperatures

PRODUCT FEATURES

- Double-capped LED alternative to classic T8 U-shaped fluorescent lamps in CCG luminaires
- Uniform illumination
- Mercury-free and RoHS compliant
- High luminous efficacy: up to 137 lm/W
- Lifetime: up to 50,000 h
- Type of protection: IP20



TECHNICAL DATA

Electrical data

| | |
|--|-------------|
| Rated wattage | 8.00 W |
| Nominal voltage | 220...240 V |
| Operating frequency | 50...60 Hz |
| Nominal wattage | 8.00 W |
| Nominal current | 0.045 A |
| Type of current | AC |
| Max. lamp no. on circuit break. 10 A (B) | 170 |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 170 |
| Max. lamp no. on circuit break. B10 A - CCG with compensation | 170 |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 270 |
| Max. lamp no. on circuit break. B16 A - CCG with compensation | 270 |
| Max. lamp no. on circuit break. 16 A (B) | 270 |
| Total harmonic distortion | 12.5 % |
| Inrush current | 20 A |
| Power factor λ | > 0.90 |

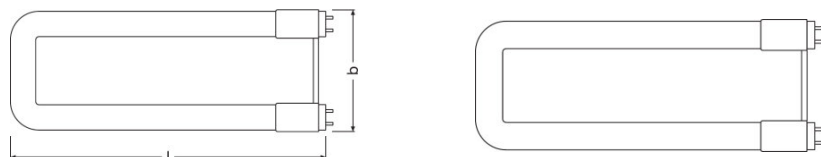
Photometrical data

| | |
|---|---------------|
| Rated color temperature | 4000 K |
| Nominal luminous flux | 1100 lm |
| Rated luminous flux | 1100 lm |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Cool White |
| Color temperature | 4000 K |
| Luminous flux | 1100 lm |
| Color rendering index Ra | ≥ 80 |
| Standard deviation of color matching | ≤ 6 sdcn |

Light technical data

| | |
|------------------------------------|----------|
| Starting time | < 0.5 s |
| Warm-up time (60 %) | < 0.50 s |
| Rated beam angle (half peak value) | 130.00 ° |

Dimensions & weight



| | |
|-----------------------|----------|
| Product weight | 93.00 g |
| Overall length | 305.0 mm |

Temperatures & operating conditions

| | |
|---|--------------|
| Ambient temperature range | -20...+50 °C |
| Maximum temperature at tc test point | 73 °C |

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) | 2G13 |
| Mercury-free | Yes |

Capabilities

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

Certificates & standards

| | |
|--------------------------------|-------------|
| Type of protection | IP20 |
| Standards | CE |
| Energy efficiency class | A++ |
| Energy consumption | 8 kWh/1000h |

Country-specific categorizations

| | |
|------------------------|-----------------|
| Order reference | ST8-USHP0.3M 8W |
|------------------------|-----------------|

EQUIPMENT / ACCESSORIES

- Suitable for operation with low-loss and conventional control gears

SAFETY ADVICE

Not suitable for operation with electronic control gear.

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

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075284685 | Folding carton box 1 | 33 mm x 124 mm x 325 mm | 130.00 g | 1.33 dm ³ |
| 4058075284692 | Shipping carton box 10 | 332 mm x 256 mm x 182 mm | 1423.00 g | 15.47 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.

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.