

PRODUCT DATASHEET

ST8AUO-EM 23.1 W/6500 K 1500 mm

SubstiTUBE T8 EM ADVANCED ULTRA OUTPUT | LED tubes for electromagnetic control gear (CCG)



Areas of application

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

Product benefits

- No bending thanks to glass tube
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (compared to T8 fluorescent lamp on CCG)
- Very high resistance to switching loads
- High luminous flux for sophisticated lighting tasks
- Also suitable for operation at low temperatures
- Instant-on light, therefore ideally suitable in combination with sensor technology

Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Low flicker according to EU 2019-2020 ($SVM \leq 0.4$ / $PstLM \leq 1$)
- Tube made of glass



- For especially uniform illumination
- Mercury-free and RoHS compliant
- Type of protection: IP20

TECHNICAL DATA

Electrical data

| | |
|---------------------------|---|
| Nominal wattage | 23.1 W |
| Nominal voltage | 220...240 V |
| Operating mode | Conventional control gear (CCG), AC Mains |
| Nominal current | 102 mA |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| 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.life time | 0.70 |
| Light color (designation) | Daylight |
| Color temperature | 6500 K |
| Color rendering index Ra | 80 |
| Light color | 865 |
| Standard deviation of color matching | ≤5 sdcn |
| Rated LLMF at 6,000 h | 0.80 |

Light technical data

| | |
|---------------|---------|
| Beam angle | > 190 ° |
| Starting time | < 0.5 s |

Dimensions & Weight

| | |
|----------------|------------|
| Overall length | 1513.00 mm |
| Diameter | 26.70 mm |
| Product weight | 226.00 g |

Temperatures & operating conditions

| | |
|--------------------------------------|--------------|
| Ambient temperature range | -20...+50 °C |
| Maximum temperature at tc test point | <75 °C |

Lifespan

| | |
|--|--------|
| 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 consumption | 24.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CB |
| Photobiological safety group acc. to EN62778 | RG0 |

Country-specific categorizations

| | |
|-----------------|-----------------|
| Order reference | ST8AUO-1.5M 23, |
|-----------------|-----------------|

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 | 26.70 mm |
| Width | 26.70 mm |
| EPREL ID | 1334064 |
| Model number | AC45363 |

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 |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854087769 | Sleeve 1 | 1,605 mm x 29 mm x 29 mm | 260.00 g | 1.35 dm ³ |
| 4099854087776 | Shipping box 10 | 1,635 mm x 180 mm x 95 mm | 3252.00 g | 27.96 dm ³ |
| 4099854154713 | Shipping box 10 | 1,635 mm x 180 mm x 95 mm | 3252.00 g | 27.96 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.

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.