

PRODUCT DATASHEET ST8E-AC 20 W/6500 K 1500 mm

LED TUBE T8 ENTRY AC | LED tubes for AC mains



Product benefits

- No bending thanks to glass technology
- 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
- Also suitable for operation at low temperatures

Product features

- $\,$ $\,$ T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Type of protection: IP20



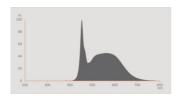
TECHNICAL DATA

Electrical data

| Nominal wattage | 20 W |
|---------------------------|----------|
| Construction wattage | 20.00 W |
| Nominal voltage | 220240 V |
| Nominal current | 150 mA |
| Type of current | AC |
| Operating frequency | 5060 Hz |
| Mains frequency | 5060 Hz |
| Total harmonic distortion | < 150 % |

Photometrical data

| Luminous flux | 2300 lm | | |
|---------------------------------|---------------|--|--|
| Luminous efficacy | 115 lm/W | | |
| Light color (designation) | Cool Daylight | | |
| Color temperature | 6500 K | | |
| Color rendering index Ra | ≥80 | | |
| Light color | 865 | | |
| Flickering metric (Pst LM) | 1 | | |
| Stroboscope effect metric (SVM) | 0.4 | | |



EPREL data spectral diagram PROF LEDr 6500K

Dimensions & Weight

| | Overall length | 1513.00 mm |
|---|----------------|------------|
| Ī | Diameter | 26.90 mm |
| | Product weight | 230.00 g |

Temperatures & operating conditions

| Ambient temperature range | -20+45 °C | | | | |
|--|---|--|--|--|--|
| Lifespan | | | | | |
| Lifespan L70/B50 at 25 °C | 30000 h | | | | |
| Additional product data | | | | | |
| Base (standard designation) | G13 | | | | |
| Mercury-free | Yes | | | | |
| Design / version | Frosted | | | | |
| Certificates & Standards | | | | | |
| Type of protection | IP20 | | | | |
| Standards | CE / CB | | | | |
| Photobiological safety group acc. to EN62778 | RG0 | | | | |
| Country-specific categorizations | | | | | |
| Order reference | ST8E-1.5M 20W/8 | | | | |
| Temperature range at storage | -20+80 °C | | | | |
| Energy labelling regulation data acc EU 2019/2015 | | | | | |
| Lighting technology used | LED | | | | |
| Non-directional or directional | NDLS | | | | |
| Mains or non-mains | | | | | |
| Light source cap-type (or other electric interface) | MLS | | | | |
| 5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | | | | |
| Connected light source (CLS) | MLS | | | | |
| | MLS G13 | | | | |
| Connected light source (CLS) | MLS G13 No | | | | |
| Connected light source (CLS) Color-tuneable light source | MLS G13 No No | | | | |
| Connected light source (CLS) Color-tuneable light source Envelope | MLS G13 No No No | | | | |
| Connected light source (CLS) Color-tuneable light source Envelope High luminance light source | MLS G13 No No No No | | | | |
| Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield | MLS G13 No No No No No No No | | | | |
| Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Standby power | MLS G13 No No No No No No O V O V O V O V O V O V O V O V O V O | | | | |
| Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Standby power Networked standby power for CLS | MLS G13 No No No No No O No O W O W O W | | | | |
| Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Standby power Networked standby power for CLS Claim of equivalent power | MLS G13 No No No No No O O V O W O W O W Yes | | | | |
| Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Standby power Networked standby power for CLS Claim of equivalent power Length | MLS G13 No No No No No OW OW Yes 1513.00 mm | | | | |

| Chromaticity coordinate y | 0.3282 | | |
|--|-------------------------|--|--|
| R9 Colour rendering index | >=0.00 | | |
| Beam angle correspondence | SPHERE_360 | | |
| Survival factor | 0.9 | | |
| Displacement factor | >=0.7 | | |
| LED light source replaces a fluorescent light source | Yes | | |
| EPREL ID | 686644,2076150 | | |
| Model number | AC32683,AC32683,AC66715 | | |

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.

DOWNLOAD DATA

| | Documents and certificates | Document name |
|-----|---------------------------------------|---|
| PDF | Declarations of conformity | LED tube |
| | Photometric and lighting design files | Document name |
| | | |
| | Spectral power distribution | EPREL data spectral diagram PROF LEDr 6500K |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|-------------------------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854075223 | Sleeve 1 | 1,555 mm x 28 mm x 28 mm | 249.00 g | 1.22 dm³ |
| 4099854075230 Shipping box 25 | | 1,610 mm x 155 mm x 165 mm | 7189.00 g | 41.18 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/substitube

Legal advice

| - | When used to replace a | T8 fluorescent lamp | the total energy | efficiency and | l light distribution | depends on the | e design of the lighting systen | ١. |
|---|------------------------|---------------------|------------------|----------------|----------------------|----------------|---------------------------------|----|
| | | | | | | | | |

DISCLAIMER

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