

OSRAM SubstiTube T8 LED - ST8AU 16W 1.2m

SubstiTUBE Advanced Ultra Output | LED tubes for electronic and electromagnetic control gears



Areas of application

- Replacement lamps for ECG and CCG driven luminaires
- General illumination within ambient temperatures from -20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

Product benefits

- Quick, simple and safe replacement without rewiring
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads
- Also suitable for operation at low temperatures
- Extremely break resistant thanks to aluminum heat sink and polycarbonate cover
- Especially uniform light emission

Product features

- LED alternative to classic T8 fluorescent lamps in CCG and ECG driven luminaires
- High luminous intensity for sophisticated lighting tasks
- Lifetime: up to 50,000 h
- Mercury-free and RoHS compliant
- Type of protection: IP20



Technical data

Electrical data

Nominal wattage	16.00 W
Rated wattage	16.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal current	0.075 A
Type of current	AC
Power factor λ	0.90

Photometrical data

Light color (designation)	Cool Daylight
Color temperature	4000K/6500K
Nominal luminous flux	2400 lm
Rated luminous flux	2400 lm
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 4 sdc _m

Light technical data

Starting time	2.0 s
Warm-up time (60 %)	0.50 s
Rated beam angle (half peak value)	150.00 °

Dimensions & weight

Overall length	1212 mm
Product weight	375.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
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Lifespan

Lumen main.fact.at end of nom.life time	0.70
Number of switching cycles	200000

Additional product data

Base (standard designation)	G13
Mercury-free	Yes

Product datasheet

Product remark	When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system/Not usable in luminaires with serial lamp connection, i.e. more than one tube at one magnetic ballast (tandem circuitry)
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Capabilities

Dimmable	No
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Certificates & standards

Type of protection	IP20
Standards	CE/VDE
Energy efficiency class	A++
Energy consumption	18 kWh/1000h

Country specific categorizations

ILCOS	DR-16/865-G13-27.5/1200
Order reference	ST8AU-1.2M 16W/

Logistical data

Temperature range at storage	-20...75 °C
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Safety advice

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

References / Links

For current information see
www.ledvance.com/substitute



Product datasheet

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.