PRODUCT DATASHEET
ST8AU-EM 22.4 W/4000 K 1500 mm

SubstiTUBE Advanced Ultra Output | High performance LED tubes for electromagnetic control gears, shatterproof



AREAS OF APPLICATION

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

PRODUCT BENEFITS

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 63 % (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
- High luminous flux for sophisticated lighting tasks
- Shatter protection thanks to special PET coating
- Support the implementation of the HACCP concepts from production through to presentation

PRODUCT FEATURES

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- For especially uniform illumination
- Lifetime: up to 60,000 h



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- Mercury-free and RoHS compliant
- Type of protection: IP20
- Tube made of glass
- Lamp tube made of glass with splinter protection e.g. for food industry applications

TECHNICAL DATA

Electrical data

Rated wattage	22.40 W
Nominal voltage	220…240 V
Operating frequency	50…60 Hz
Nominal wattage	22.40 W
Nominal current	0.1 A
Type of current	AC
Power factor λ	> 0.90

Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	3700 lm
Rated luminous flux	3700 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	3700 lm
Color rendering index Ra	83
Standard deviation of color matching	≤5 sdcm

Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	190.00 °

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Dimensions & weight



Length with base excl. base pins/connection	1500.00 mm
Tube diameter	25.8 mm
Base diameter	26.7 mm
Product weight	260.00 g
Overall length	1513 mm

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C

Lifespan

Lifespan	60000 h
Nominal lamp life time	60000 h
Rated lamp life time	60000 h
Number of switching cycles	200000

Additional product data

Base (standard designation)	G13
Mercury-free	Yes
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)

Capabilities

Dimmable	No

Certificates & standards

Type of protection	IP20
Standards	CE/VDE
Energy efficiency class	A++

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Energy efficiency class	A++
Energy consumption	23 kWh/1000h

Country-specific categorizations

Order reference	ST8AU-1.5M 22,4

Logistical data

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

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	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075136373	ST8AU-EM 22.4 W/4000 K 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm^3	3732.00 g

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.

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