

PRODUCT DATASHEET

ST8AU-EM 22.5 W/840 1500 mm

SubstiTUBE Split Control Ultra Output EM | LED tubes for electromagnetic control gears



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

- 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
- Support the implementation of the HACCP concepts from production through to presentation
- High luminous flux for sophisticated lighting tasks
- Helps to prevent contamination in sensitive production areas (e.g. in the food industry)
- Optimal shatter protection thanks to special PET coating

PRODUCT FEATURES

- Lamp tube made of glass with splinter protection (according to IEC 61549 AMD 2:2010 -810-1 4.4.1)
- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Rotatable end caps



- For especially uniform illumination
- Lifetime: up to 60,000 h
- Mercury-free and RoHS compliant
- Type of protection: IP20

TECHNICAL DATA

Electrical data

Nominal wattage	22.50 W
Rated wattage	22.50 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal current	0.103 A
Type of current	AC
Power factor λ	> 0.90

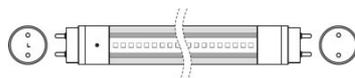
Photometrical data

Light color (designation)	Cool White
Rated color temperature	4000 K
Nominal luminous flux	3600 lm
Rated luminous flux	3600 lm
Color rendering index Ra	>80
Lumen main.fact.at end of nom.life time	0.70
Standard deviation of color matching	≤ 4 sdc _m

Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	160.00 °

Dimensions & weight



Length with base excl. base pins/connection	1500.00 mm
Product weight	246.00 g
Overall length	1513 mm

Temperatures & operating conditions

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

Lifespan	50000 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
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Certificates & standards

Type of protection	IP20
Standards	CE; VDE
Energy efficiency class	A++
Energy consumption	23 kWh/1000h

Country specific categorizations

ILCOS	DR-22.5/840-G13-25.5/1513
Order reference	ST8SPS-1.5M 22,

Logistical data

Temperature range at storage	-20...80 °C
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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
4058075048157	ST8AU-EM 22.5 W/840 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm ³	3590.00 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.