

# PRODUCT DATASHEET

## ST8AU-EM 22.5 W/4000 K 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

- 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
- 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)
- 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

<b>Nominal wattage</b>	22.50 W
<b>Rated wattage</b>	22.50 W
<b>Nominal voltage</b>	220...240 V
<b>Operating frequency</b>	50...60 Hz
<b>Nominal current</b>	0.103 A
<b>Type of current</b>	AC
<b>Power factor <math>\lambda</math></b>	> 0.90

### Photometrical data

<b>Light color (designation)</b>	Cool White
<b>Rated color temperature</b>	4000 K
<b>Nominal luminous flux</b>	3600 lm
<b>Rated luminous flux</b>	3600 lm
<b>Color rendering index Ra</b>	>80
<b>Lumen main.fact.at end of nom.life time</b>	0.70
<b>Color temperature</b>	4000 K
<b>Luminous flux</b>	3600 lm
<b>Color rendering index Ra</b>	>80
<b>Standard deviation of color matching</b>	$\leq 4$ sdc <sub>m</sub>

### Light technical data

<b>Starting time</b>	< 0.5 s
<b>Warm-up time (60 %)</b>	< 0.50 s
<b>Rated beam angle (half peak value)</b>	210.00 °

## Dimensions & weight



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

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
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## Lifespan

<b>Lifespan</b>	50000 h
<b>Nominal lamp life time</b>	60000 h
<b>Rated lamp life time</b>	60000 h
<b>Number of switching cycles</b>	200000

## Additional product data

<b>Base (standard designation)</b>	G13
<b>Mercury-free</b>	Yes
<b>Product remark</b>	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

<b>Dimmable</b>	No
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## Certificates & standards

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

## Country-specific categorizations

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

## Logistical data

<b>Temperature range at storage</b>	-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/4000 K 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm <sup>3</sup>	4000.00 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.