

# PRODUCT DATASHEET

## ST8AU-EM 22.5 W/6500 K 1500 mm

SubstiTUBE Advanced Ultra Output | LED tubes for electromagnetic control gears



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### AREAS OF APPLICATION

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

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### 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

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### PRODUCT FEATURES

- 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
- Tube made of glass

## 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 $\lambda$	> 0.90

### Photometrical data

Light color (designation)	Cool Daylight
Rated color temperature	6500 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
Color temperature	6500 K
Luminous flux	3600 lm
Color rendering index Ra	>80
Standard deviation of color matching	$\leq 4$ sdc <sub>m</sub>

### Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	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>	60000 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++
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<b>Energy consumption</b>	23 kWh/1000h

## Country-specific categorizations

<b>ILCOS</b>	DR-22.5/865-G13-25.5/1513
<b>Order reference</b>	ST8AU-1.5M 22,5

## 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
4058075818378	ST8AU-EM 22.5 W/6500 K 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm <sup>3</sup>	3830.00 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.