# PRODUCT DATASHEET ST8AUO-EM 23.1 W/3000 K 1500 mm

SubstiTUBE T8 EM ADVANCED ULTRA OUTPUT | LED tubes for electromagnetic control gear (CCG)



#### 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 tube
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (compared to T8 fluorescent lamp on CCG)
- Very high resistance to switching loads
- High luminous flux for sophisticated lighting tasks
- Also suitable for operation at low temperatures
- Instant-on light, therefore ideally suitable in combination with sensor technology

#### **Product features**

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Low flicker according to EU 2019-2020 (SVM  $\leq 0.4$  / PstLM  $\leq 1)$
- Tube made of glass



- For especially uniform illumination
- Mercury-free and RoHS compliant
- Type of protection: IP20

## TECHNICAL DATA

## Electrical data

Nominal wattage	23.1 W
Construction wattage	23.10 W
Nominal voltage	220240 V
Operating mode	Conventional control gear (CCG), AC Mains
Nominal current	102 mA
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Total harmonic distortion	≤ 20 %
Power factor $\lambda$	> 0.90

#### Photometrical data

Luminous flux	3330 lm
Luminous efficacy	144 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	80
Light color	830
Standard deviation of color matching	≤5 sdcm
Rated LLMF at 6,000 h	0.80

# Light technical data

Beam angle	> 190 °
Starting time	< 0.5 s

# Dimensions & Weight

Overall length	1513.00 mm
Diameter	26.70 mm
Product weight	226.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+50 °C
Maximum temperature at to test point	<75 °C

## Lifespan

Number of switching cycles	200000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

#### Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes

## Capabilities

Dimmable	No
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#### Certificates & Standards

Energy consumption	24.00 kWh/1000h
Type of protection	IP20
Standards	СВ
Photobiological safety group acc. to EN62778	RG0

## Country-specific categorizations

Order reference ST8A	
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#### LOGISTICAL DATA

Temperature range at storage	-20+80 °C

## Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	1513.00 mm
Height	26.70 mm
Width	26.70 mm
EPREL ID	1334062
Model number	AC45361

# **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	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854087721	Sleeve 1	1,605 mm x 29 mm x 29 mm	276.00 g	1.35 dm <sup>3</sup>
4099854087738	Shipping box 10	1,635 mm x 180 mm x 95 mm	3412.00 g	27.96 dm <sup>3</sup>
4099854154591	Shipping box 10	1,635 mm x 180 mm x 95 mm	3252.00 g	27.96 dm <sup>3</sup>

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.