

# PRODUCT DATASHEET ST8-EM 13 W/6500 K 1200 mm

SubstiTUBE Advanced Wide Voltage | High performance LED tubes for electromagnetic control gears



#### Areas of application

- General illumination within ambient temperatures from -20...+45 °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 60 % (compared to T8 fluorescent lamp on CCG)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Also suitable for operation at low temperatures

#### **Product features**

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Bright, robust and durable
- Uniform illumination
- Tube made of glass
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Integrated ECG with high power factor



# TECHNICAL DATA

# Electrical data

Nominal wattage	13 W
Construction wattage	13.00 W
Nominal voltage	100240 V
Nominal current	142 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Power factor $\lambda$	0.90

## Photometrical data

Luminous flux	2100 lm
Luminous efficacy	161 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Daylight
Color temperature	6500 K
Color rendering index Ra	≥80
Light color	865
Standard deviation of color matching	≤6 sdcm

# Light technical data

Beam angle	160 °
Starting time	< 0.5 s

# Dimensions & Weight

Overall length	1213.60 mm
Diameter	28.00 mm
Product weight	180.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	<75 °C

# Lifespan

Number of switching cycles	100000
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## Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg

# Capabilities

#### Certificates & Standards

Standards	CB / ROHS / SASO2902

# Country-specific categorizations

513/11/2M		Order reference	ST8A-1.2M 13W/8
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# Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	1213.60 mm
Height	28.00 mm
Width	28.00 mm

## **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.

## DOWNLOAD DATA

Photometric and lighting design files	Document name
IES file (IES)	ST8A-1.2M 13W 865 EMWV
Light distribution curve type polar	ST8A-1.2M 13W 865 EMWV

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume	
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Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075643536	Sleeve 1	1,255 mm x 28 mm x 28 mm	199.00 g	1.01 dm³
4058075643543	Shipping box 25	1,280 mm x 162 mm x 182 mm	5788.00 g	37.74 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.

#### References / Links

- For current information see www.ledvance.com/substitube

## 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.