

# **PRODUCT DATASHEET** ST8A-EM 14 W/4000K 1200 mm EM

SubstiTUBE Advanced | High performance 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
- 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
- Very high resistance to switching loads
- Also suitable for operation at low temperatures

#### **PRODUCT FEATURES**

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Single and tandem operation on conventional control gear (0.6 m version)
- Tube made of glass
- Mercury-free and RoHS compliant
- Uniform illumination
- Type of protection: IP20



## - Bright, robust and durable

## **TECHNICAL DATA**

#### Electrical data

Rated wattage	14.00 W
Nominal voltage	220240 V
Operating frequency	5060 Hz
Nominal wattage	14.00 W
Nominal current	0.064 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	70
Max. lamp no. on circuit break. B10 A - CCG without compensation	70
Max. lamp no. on circuit break. B10 A - CCG with compensation	15
Max. lamp no. on circuit break. B16 A - CCG without compensation	112
Max. lamp no. on circuit break. B16 A - CCG with compensation	24
Max. lamp no. on circuit break. 16 A (B)	112
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

### Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	2100 lm
Rated luminous flux	2100 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	2100 lm
Color rendering index Ra	83
Standard deviation of color matching	≤5 sdcm

## Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	190.00 °

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## Dimensions & weight





Length with base excl. base pins/connection	1200.00 mm 25.8 mm	
Tube diameter		
Base diameter	26.7 mm	
Product weight	190.00 g	
Overall length	1212 mm	

## Temperatures & operating conditions

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

## Lifespan

Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	200000

## Additional product data

Base (standard designation)	G13	
Mercury-free	Yes	

## Capabilities

Dimmable	No	

#### Certificates & standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A++
Energy consumption	14 kWh/1000h

## Country-specific categorizations

Order reference	ST8A-1.2M 14W/8

#### 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	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075454781	Sleeves 1	1305 mm x 29 mm x 29 mm	219.00 g	1.10 dm <sup>3</sup>
4058075454798	Shipping carton box 10	1352 mm x 210 mm x 115 mm	2879.00 g	32.65 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.