

# PRODUCT DATASHEET ST8E-EM 20 W/4000 K 1500 mm

LED TUBE T8 ENTRY EM | LED tubes for electromagnetic control gear (CCG)



#### **Product benefits**

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- $-\,$  Energy savings of up to 65 % (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**

- T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Type of protection: IP20



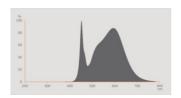
# TECHNICAL DATA

## Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	220240 V
Nominal current	150 mA
Type of current	AC
Operating frequency	5060 Hz
Mains frequency	5060 Hz
Total harmonic distortion	< 150 %

## Photometrical data

Luminous flux	2300 lm
Luminous efficacy	115 lm/W
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	> 80
Light color	840
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4



EPREL data spectral diagram PROF LEDr 4000K

## Light technical data

Beam angle	190 °		
Dimensions & Weight			
Overall length	1500.00 mm		
Diameter	26.90 mm		

Product weight	230.00 g
Temperatures & operating conditions	
Ambient temperature range	-20+45 °C
Lifespan	
Lifespan L70/B50 at 25 °C	30000 h
Additional product data	
Base (standard designation)	G13
Mercury-free	Yes
Design / version	Frosted
Certificates & Standards	
Type of protection	IP20
Standards	CE / CB
Photobiological safety group acc. to EN62778	RG0
Country-specific categorizations	
Order reference	ST8E-1.5M 20W/8
LOGISTICAL DATA	
Temperature range at storage	-20+80 °C
Temperature range at storage  Energy labelling regulation data acc EU 2019/2015	-20+80 °C
	-20+80 °C
Energy labelling regulation data acc EU 2019/2015	
Energy labelling regulation data acc EU 2019/2015  Lighting technology used	LED
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional	LED NDLS
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains	LED NDLS MLS
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)	LED NDLS MLS G13
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)  Connected light source (CLS)	LED NDLS MLS G13 No
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)  Connected light source (CLS)  Color-tuneable light source	LED NDLS MLS G13 No
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)  Connected light source (CLS)  Color-tuneable light source  Envelope	LED NDLS MLS G13 No No No
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)  Connected light source (CLS)  Color-tuneable light source  Envelope  High luminance light source	LED NDLS MLS G13 No No No No
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)  Connected light source (CLS)  Color-tuneable light source  Envelope  High luminance light source  Anti-glare shield	LED NDLS MLS G13 No No No No No No
Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)  Connected light source (CLS)  Color-tuneable light source  Envelope  High luminance light source  Anti-glare shield  Standby power	LED NDLS MLS G13 No No No No No No O No O O W

Height	26.90 mm
Width	26.90 mm
Chromaticity coordinate x	0.3818
Chromaticity coordinate y	0.3797
R9 Colour rendering index	>=0.00
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	>=0.7
LED light source replaces a fluorescent light source	Yes
EPREL ID	686637,2076156
Model number	AC32676,AC32676,AC66705

## 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

	Documents and certificates	Document name
PDF	Declarations of conformity	LED tube

Photometric and lighting design files	Document name
Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854075087	Sleeve 1	1,555 mm x 28 mm x 28 mm	249.00 g	1.25 dm <sup>3</sup>
4099854075094	Shipping box 25	1,610 mm x 155 mm x 165 mm	7189.00 g	41.18 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

<ul><li>For curr</li></ul>	ent information	see www.le	:dvance.com/	substitube
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## 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.