

PRODUCT DATASHEET ST8E-EM 16 W/4000 K 1200 mm

SubstiTUBE Entry EM | LED tubes for electromagnetic control gears



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





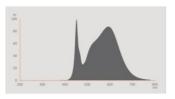
TECHNICAL DATA

Electrical data

Nominal wattage	16 W
Construction wattage	16.00 W
Nominal voltage	220240 V
Type of current	AC
Operating frequency	5060 Hz
Mains frequency	5060 Hz
Power factor λ	> 0.70

Photometrical data

Luminous flux	1800 lm
Nominal useful luminous flux 90°	1800 lm
Luminous efficacy	112 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥80
Light color	840
Standard deviation of color matching	≤6 sdcm
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4



Light technical data

Beam angle	360 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	1212.00 mm
Length with base excl. base pins/connection	1200 mm
Diameter	25.6 mm
Base diameter	25,5 mm
Maximum diameter	27 mm
Product weight	190.00 g

Temperatures & operating conditions

Lifespan

Lifespan L70/B50 at 25 °C	30000 h
Number of switching cycles	50000
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
Design / version	Frosted

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	E 1)
Energy consumption	16.00 kWh/1000h
Type of protection	IP20
Standards	CE / CB
Photobiological safety group acc. to EN62778	RGO

 $^{1) \ \ \}text{Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)} \\$

Country-specific categorizations

LOGISTICAL DATA

Temperature range at storage	-20+80 °C		
nergy labelling regulation data acc EU 2019/2015			
Lighting technology used	LED		
Non-directional or directional	NDLS		
Mains or non-mains	MLS		
Light source cap-type (or other electric interface)	G13		
Connected light source (CLS)	No		
Color-tuneable light source	No		
Envelope	No		
High luminance light source	No		
Anti-glare shield	No		
Correlated colour temperature type	SINGLE_VALUE		
Standby power	0.00 W		
Networked standby power for CLS	0.00 W		
Claim of equivalent power	Yes		
Length	1212.00 mm		
Height	25.6 mm		
Width	25.6 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	686635		
Model number	AC32674		

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



Declarations Of Conformity CE

Photometric and lighting design files



Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075817975	Sleeve 1	29 mm x 29 mm x 1,335 mm	209.00 g	1.12 dm ³
4058075817982	Shipping box 25	1,310 mm x 155 mm x 165 mm	6240.00 g	33.50 dm ³

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.