

PRODUCT DATASHEET

ST9-EM 32 123 ° 20 W/4000 K G10q

LED TUBE T9 EM | Circular LED tubes for electromagnetic control gear (CCG)



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Domestic applications
- Decorative applications

Product benefits

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 50% (compared to T9 fluorescent lamp on CCG)
- Also suitable for operation at low temperatures

Product features

- LED alternative to classic T9 fluorescent lamps in CCG luminaires
- Uniform illumination
- Lifetime: up to 30,000 h
- Mercury-free and RoHS compliant



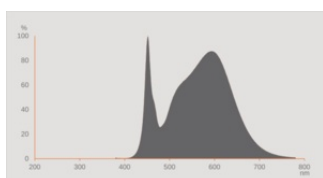
TECHNICAL DATA

Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	220...240 V
Operating mode	AC, Conventional control gear (CCG)
Nominal current	100 mA
Type of current	AC
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz
Max. lamp no. on circuit break. 10 A (B)	50
Max. lamp no. on circuit break. B10 A - CCG without compensation	50
Max. lamp no. on circuit break. 16 A (B)	80
Max. lamp no. on circuit break. B16 A - CCG without compensation	80
Power factor λ	> 0.90

Photometrical data

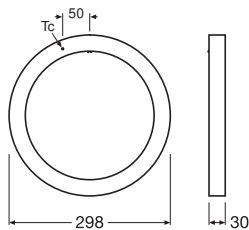
Luminous flux	2000 lm
Luminous efficacy	100 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥ 80
Light color	840
Standard deviation of color matching	≤ 6 sdc
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0,9



Light technical data

Beam angle	123 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	298.00 mm
Diameter	30.00 mm
Maximum diameter	30 mm
Product weight	217.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
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Lifespan

Lifespan L70/B50 at 25 °C	30000 h
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)	G10q
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	F 1)
Energy consumption	20.00 kWh/1000h
Type of protection	IP20
Standards	CE
Photobiological safety group acc. to EN62778	RG1

1) Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations

Order reference	ST9-32 20W/840
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LOGISTICAL DATA

Temperature range at storage	-20...+65 °C
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Energy 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)	G10q
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 W
Networked standby power for CLS	0 W
Claim of equivalent power	No
Length	298.00 mm
Height	30.00 mm
Width	30.00 mm
Chromaticity coordinate x	0,3818
Chromaticity coordinate y	0,3797
R9 Colour rendering index	0.00
Beam angle correspondence	SPHERE_360
Survival factor	0,5

Displacement factor	0,5
LED light source replaces a fluorescent light source	Yes
EPREL ID	1402928
Model number	AC11638

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	
	User instruction
Photometric and lighting design files	
	IES file (IES)
	LDT file (Eulumdat)
	LDC typ polar
	Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075135482	Folding box 1	38 mm x 307 mm x 338 mm	309.00 g	3.94 dm ³
4058075135499	Shipping box 10	385 mm x 325 mm x 330 mm	4192.00 g	41.29 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/osram-led-tube

Legal advice

- When used to replace a T9 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.
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DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.