

# PRODUCT DATASHEET

## ST9-EM 32 123° 20 W/6500K G10q

SubstiTUBE T9 EM | Circular LED tube for electromagnetic control gear and AC mains



### 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
- Luminous efficacy: up to 100 lm/W



**TECHNICAL DATA**

Electrical data

<b>Rated wattage</b>	20.00 W
<b>Nominal voltage</b>	220...240 V
<b>Operating frequency</b>	50...60 Hz
<b>Nominal wattage</b>	20.00 W
<b>Nominal current</b>	0.1 A
<b>Type of current</b>	AC
<b>Power factor <math>\lambda</math></b>	> 0.90

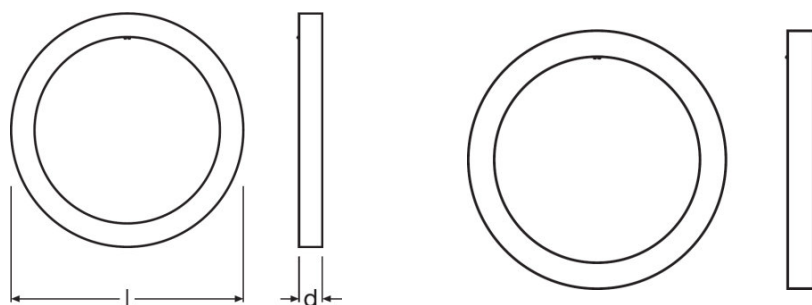
Photometrical data

<b>Rated color temperature</b>	6500 K
<b>Nominal luminous flux</b>	2000 lm
<b>Rated luminous flux</b>	2000 lm
<b>Lumen main.fact.at end of nom.life time</b>	0.70
<b>Light color (designation)</b>	Cool Daylight
<b>Color temperature</b>	6500 K
<b>Luminous flux</b>	2000 lm
<b>Color rendering index Ra</b>	$\geq 80$
<b>Standard deviation of color matching</b>	$\leq 6$ sdc <sub>m</sub>

Light technical data

<b>Starting time</b>	< 0.5 s
<b>Warm-up time (60 %)</b>	< 0.50 s
<b>Rated beam angle (half peak value)</b>	123.00 °

Dimensions & weight



<b>Product weight</b>	217.00 g
<b>Overall length</b>	298.0 mm

## Temperatures &amp; operating conditions

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

Lifespan	30000 h
Nominal lamp life time	30000 h
Rated lamp life time	30000 h
Number of switching cycles	200000

## Additional product data

Base (standard designation)	G10q
Mercury-free	Yes

## Capabilities

Dimmable	No
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## Certificates &amp; standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A+
Energy consumption	20 kWh/1000h

## Country-specific categorizations

Order reference	ST9-32 20W/865
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## Logistical data

Temperature range at storage	-20...+65 °C
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## EQUIPMENT / ACCESSORIES

- Suitable for operation with low-loss and conventional control gears
- Suitable for operation with AC mains

## 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
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4058075135505	Folding carton box 1	38 mm x 307 mm x 338 mm	309.00 g	3.94 dm <sup>3</sup>
4058075135512	Shipping carton box 10	385 mm x 325 mm x 330 mm	3469.00 g	41.29 dm <sup>3</sup>

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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.

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#### REFERENCES / LINKS

For current information see

▶ [www.ledvance.com/substitute](http://www.ledvance.com/substitute)

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#### 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.