

PRODUCT DATASHEET SubstiTUBE T9 C EM 22 12 W/6500 K G10q

SubstiTUBE T9 EM | Circular LED tube 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)
- 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





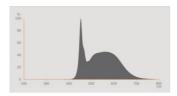
TECHNICAL DATA

Electrical data

Nominal wattage	12 W
Construction wattage	12.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Nominal current	60 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	24
Max. lamp number on MCB B10 A - CCG without compensation	94
Max. lamp number on MCB B10 A - CCG with compensation	15
Max. lamp number on MCB B16 A	30
Max. lamp number on MCB B16 A - CCG without compensation	150
Max. lamp number on MCB B16 A - CCG with compensation	18
Total harmonic distortion	20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	1320 lm
Luminous efficacy	110 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Color rendering index Ra	≥80
Light color	865
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.40



EPREL data spectral diagram PROF LEDr 6500K

Light technical data

Beam angle	120 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	212.00 mm
Diameter	212.00 mm
Tube diameter	30,0 mm
Maximum diameter	212 mm
Product weight	145.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	75 °C

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)	G10g
	20024

Mercury content	0.0 mg
Design / version	Frosted
Capabilities	
Dimmable	No
Dimmable Certificates & Standards	No
	No E 1)

IP20

RG0

CE / EAC

-20...+80 °C

Country-specific categorizations

Temperature range at storage

Photobiological safety group acc. to EN62778

Type of protection

Standards

	Order reference	LEDTUBE T9C EM
ı	LOGISTICAL DATA	

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	0.00	
Claim of equivalent power	No	
Length	212.00 mm	
Height	212.00 mm	
Width	212.00 mm	
Chromaticity coordinate x	0.312	

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

Chromaticity coordinate y	0.328
R9 Colour rendering index	0.00
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0,70
LED light source replaces a fluorescent light source	No
EPREL ID	716578
Model number	AC36308

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	User instruction / safety instructions	SubstiTUBE® T9
PDF	Declarations of conformity	LEDTUBE T9C
PDF	Declarations of conformity UKCA	LEDTUBE T8 and T5

Photometric and lighting design files	Document name
Spectral power distribution	EPREL data spectral diagram PROF LEDr 6500K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075604650	Folding box 1	38 mm x 220 mm x 260 mm	221.00 g	2.17 dm ³
4058075604667	Shipping box 10	397 mm x 251 mm x 260 mm	2630.00 g	25.91 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

G10q

- For current information see www.ledvance.com/osram-substitube

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.

DISCLAIMER

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

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