PRODUCT DATASHEET
LED TUBE T9 C 22 EM VALUE 11W 840 G10Q

LED TUBE T9 EM VALUE | Circular LED tube for electromagnetic control gear (CCG) and AC mains



VALUE CLASS

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
- Operation directly on 230 V AC mains possible

Product features

- LED alternative to classic T9 fluorescent lamps in CCG luminaires
- Uniform illumination
- Lifetime up to 30,000 h



TECHNICAL DATA

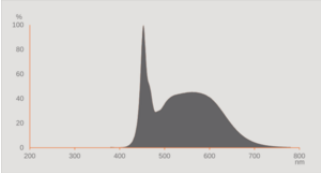
Electrical data

Nominal wattage	11 W
Nominal voltage	220…240 V
Operating mode	CCG, AC Mains
Nominal current	51 mA
Type of current	AC
Inrush current	11 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	25
Max. lamp number on MCB B10 A - CCG without compensation	94
Max. lamp number on MCB B10 A - CCG with compensation	16
Max. lamp number on MCB B16 A	31
Max. lamp number on MCB B16 A - CCG without compensation	150
Max. lamp number on MCB B16 A - CCG with compensation	20
Maximum total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	1320 lm
Luminous efficacy	120 lm/W
Lumen main.fact.at end of nom.life time	0.96
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4

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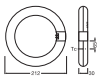


EPREL data spectral diagram PROF LEDr 6500K

Light technical data

Beam angle	110 °
Warm-up time (60 %)	0.00 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	212.00 mm
Diameter	212.00 mm
Product weight	158.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+45 °C [1)]
Maximum temperature at tc test point	75 °C

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

Lifespan

Lifespan L70/B50 at 25 °C	30000 h
Number of switching cycles	200000
Lumen maintenance at end of service lifetime	0.96
Rated lamp survival factor at 6,000 h	≥ 0.90

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Additional product data

Base (standard designation)	G10q
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	E [1)]
Energy consumption	11.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG0

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

Country-specific categorizations

Order reference	LEDTUBE T9C EM

LOGISTICAL DATA

Temperature range at storage	-20…+80 °C

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
Claim of equivalent power	Yes
Length	212.00 mm
Height	212.00 mm
Width	212.00 mm

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Chromaticity coordinate x	0.3818
Chromaticity coordinate y	0.3797
R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1340165
Model number	AC45071,AC45071

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.
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.
- Lamp not suitable for emergency operation.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LED TUBE T9C EM
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11201307
PDF	Declarations of conformity	LEDTUBE T9C EM
PDF	Declarations of conformity UKCA	UKCA declaration_LEDTUBE T9C EM

	Photometric and lighting design files	Document name
IES	IES file (IES)	LEDTUBE T9C EM V 22 11W 840 G10Q
LDT	LDT file (Eulumdat)	LEDTUBE T9C EM V 22 11W 840 G10Q LEDV
	UGR file (UGR table)	LEDTUBE T9C EM V 22 11W 840 G10Q
	Light distribution curve type cone	LEDTUBE T9C EM V 22 11W 840 G10Q

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	Photometric and lighting design files	Document name
	Light distribution curve type polar	LEDTUBE T9C EM V 22 11W 840 G10Q
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 6500K

	Tender texts	Document name
	Tender documents	LED TUBE T9 EM V 11W 840 G10Q-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854042461	Folding box 1	38 mm x 220 mm x 224 mm	229.00 g	1.87 dm^3
4099854042478	Shipping box 10	397 mm x 251 mm x 255 mm	2840.00 g	25.41 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/ledtube

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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