PRODUCT DATASHEET
LED TUBE T8 EM VALUE 1200 mm 17.7W 830

LED TUBE T8 EM VALUE | Economic LED tubes 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
- Warehouses
- Cooling and storage rooms
- Domestic applications

Product benefits

- Energy savings of up to 72 % (compared to T8 fluorescent lamp)
- Quick, simple and safe replacement with or without rewiring
- No bending thanks to glass technology
- Very high resistance to switching loads
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Also suitable for operation at low temperatures

Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Single and tandem operation on conventional control gear (≤ 0.9 m versions)
- Tube made of glass
- Long lifetime up to 50,000 h
- Uniform illumination

- Mercury-free and RoHS compliant
- Type of protection: IP20
- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM ≤ 1)

TECHNICAL DATA

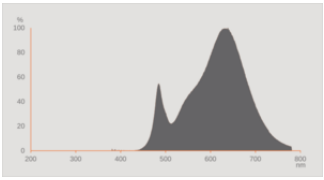
Electrical data

Nominal wattage	17.7 W
Nominal voltage	220…240 V
Operating mode	CCG, AC Mains, DC
Nominal current	80 mA
Type of current	AC
Inrush current	15.6 A
Suitable for DC input	Yes
Input voltage DC	186…260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz [1)]
Max. lamp number on MCB B10 A	100
Max. lamp number on MCB B10 A - CCG without compensation	75
Max. lamp number on MCB B10 A - CCG with compensation	20
Max. lamp number on MCB B16 A	160
Max. lamp number on MCB B16 A - CCG without compensation	120
Max. lamp number on MCB B16 A - CCG with compensation	24
Total harmonic distortion	18 %
Power factor λ	0.90

1) DC 0 Hz

Photometrical data

Luminous flux	2160 lm
Luminous efficacy	122 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	80
Light color	830
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



EPREL data spectral diagram PROF LEDr 3000K

Light technical data

Beam angle	190 °
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	1200.00 mm
Diameter	26.00 mm
Product weight	175.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+45 °C [1)]
Maximum temperature at tc test point	85 °C
Performance temp. acc. to IEC 62717	50 °C [2)]

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

2) Tp rated. Tp point coincides with Tc point - marked on device

Lifespan

Lifespan L70/B50 at 25 °C	50000 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)	G13
Mercury content	0.0 mg
Mercury-free	Yes
Product remark	Available from June 2026

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	E [1)]
Energy consumption	18.00 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 T8 EM V

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)	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	<0.5 W

Claim of equivalent power	No
Length	1212.00 mm
Height	26.00 mm
Width	26.00 mm
Chromaticity coordinate x	0.44
Chromaticity coordinate y	0.403
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	2497837
Model number	AC89809

EQUIPMENT / ACCESSORIES

– Suitable for operation with low-loss and conventional control gears

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.
– Not suitable for emergency lighting.
– Disconnect mains before installation.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LEDTUBE T8 EM V
PDF	Legal information	Safety Insert G11201307
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LEDTUBE T8 EM Harmony
PDF	Declarations of conformity UKCA	LEDTUBE T8 EM Harmony

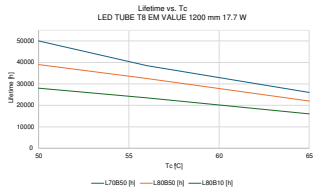
	Photometric and lighting design files	Document name
	IES file (IES)	LEDTUBE T8 EM V 1200 17.7W 830
	LDT file (Eulumdat)	LEDTUBE T8 EM V 1200 17.7W 830
	Light distribution curve type polar	LEDTUBE T8 EM V 1200 17.7W 830
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854754012	Sleeve 1	1,255 mm x 29 mm x 29 mm	204.00 g	1.06 dm^3
4099854754029	Shipping box 10	1,290 mm x 170 mm x 95 mm	2661.00 g	20.83 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.

ADDITIONAL CATALOG INFORMATION



References / Links

– For Guarantee see www.ledvance.com/guarantee

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.