

PRODUCT DATASHEET LED TUBE T8 EM ULTRA OUTPUT VALUE 1200 mm 20W 840

LED TUBE T8 EM ULTRA OUTPUT VALUE | Economic LED tubes with extra high light output for electromagnetic control gear (CCG) and AC mains



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Industry
- Warehouses
- Cooling and storage rooms
- Domestic applications
- Supermarkets and department stores

Product benefits

- Energy savings of up to 50 % (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
- Tube made of glass
- High luminous flux for sophisticated lighting tasks
- 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 \leq 0.4 / PstLM \leq 1)

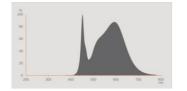
TECHNICAL DATA

Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Nominal current	100 mA
Type of current	AC
Inrush current	15.6 A
Suitable for DC input	Yes
Input voltage DC	186260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	41
Max. lamp number on MCB B10 A - CCG without compensation	57
Max. lamp number on MCB B10 A - CCG with compensation	13
Max. lamp number on MCB B16 A	66
Max. lamp number on MCB B16 A - CCG without compensation	92
Max. lamp number on MCB B16 A - CCG with compensation	20
Total harmonic distortion	< 25 %
Power factor λ	0.90

Photometrical data

Luminous flux	2400 lm
Luminous efficacy	120 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 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 4000K

Light technical data

Beam angle	190 °
Warm-up time (60 %)	، 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length1213.00 mmLength with base excl. base pins/connection1200.00 mmDiameter26.70 mmTube diameter25.8 mmMaximum diameter28 mmProduct weight175.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C ¹⁾
Maximum temperature at tc test point	78 °C

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

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 2025

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	E ¹⁾
Energy consumption	20.00 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 U
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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)	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	1213.00 mm

Height	26.70 mm
Width	26.70 mm
Chromaticity coordinate x	0.38
Chromaticity coordinate y	0.38
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	2153799
Model number	AC69470

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
POF	User instruction / safety instructions	
PDF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
POF	Declarations of conformity	LED Tube
PDF	Declarations of conformity UKCA	asset-13265483

	Photometric and lighting design files	Document name
	IES file (IES)	LEDTUBE T8 EM UO V 1200 20W 840 LED
	LDT file (Eulumdat)	LEDTUBE T8 EM UO V 1200 20W 840 LED
1	UGR file (UGR table)	LEDTUBE T8 EM UO V 1200 20W 840 LED
	Light distribution curve type polar	LEDTUBE T8 EM UO V 1200 20W 840 LED
1	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854434808	Sleeve 1	1,255 mm x 29 mm x 29 mm	204.00 g	1.06 dm ³
4099854434815	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.

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.