

# PRODUCT DATASHEET

## LED TUBE T8 EM ULTRA OUTPUT P 1200 mm 15.6W 830

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



### Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

### Product benefits

- No bending thanks to glass tube
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (compared to T8 fluorescent lamp)
- Very high resistance to switching loads
- High luminous flux for sophisticated lighting tasks
- Also suitable for operation at low temperatures
- Instant-on light, therefore ideally suitable in combination with sensor technology

### Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Low flicker according to EU 2019-2020 (SVM  $\leq 0,4$  / PstLM  $\leq 1$ )
- Lamp tube made of glass with splinter protection e.g. for food industry applications



- For especially uniform illumination
- Mercury-free and RoHS compliant
- Type of protection: IP20

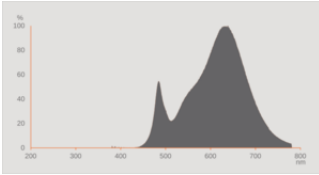
## TECHNICAL DATA

### Electrical data

Nominal wattage	15.6 W
Construction wattage	15.60 W
Nominal voltage	220...240 V
Operating mode	CCG, AC Mains
Nominal current	70 mA
Type of current	AC
Inrush current	10.5 A
Suitable for DC input	Yes
Input voltage DC	186...260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	57
Max. lamp number on MCB B10 A - CCG without compensation	44
Max. lamp number on MCB B10 A - CCG with compensation	5
Max. lamp number on MCB B16 A	71
Max. lamp number on MCB B16 A - CCG without compensation	54
Max. lamp number on MCB B16 A - CCG with compensation	9
Total harmonic distortion	< 20 %
Power factor $\lambda$	0.90

### Photometrical data

Luminous flux	2250 lm
Luminous efficacy	144 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	≤5 sdcM
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4

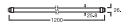


EPREL data spectral diagram PROF  
LEDr 3000K

### 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	26.70 mm
Tube diameter	25.8 mm
Maximum diameter	27 mm
Product weight	175.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	70 °C

### Lifespan

Lifespan L70/B50 at 25 °C	60000 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

### Capabilities

Dimmable	No
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### Certificates & Standards

Energy efficiency class	D <sup>1)</sup>
Energy consumption	16.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG0

<sup>1)</sup> 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

Temperature range at storage	-20...+80 °C
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### 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	26.70 mm
Width	26.70 mm

Chromaticity coordinate x	0.,4339
Chromaticity coordinate y	0.4033
R9 Colour rendering index	0.00
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1334059,1529749
Model number	AC45358,AC51568








## 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

## DOWNLOAD DATA

	Documents and certificates	Document name
	User Instruction	LED TUBE T8 EM Ultra Output P
	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2023 10 EN
	Declarations of conformity	LEDTUBE T8 EM
	Declarations of conformity	LEDTUBE T8 EM
	Declarations Of Conformity UKCA	LEDTUBE T8 EM
	Declarations Of Conformity UKCA	LED TUBE T8 EM
	Photometric and lighting design files	Document name
	IES file (IES)	LEDTUBE T8 EM UO P 1200 15.6W 830

Photometric and lighting design files	Document name
 LDT file (Eulumdat)	LEDTUBE T8 EM UO P 1200 15.6W 830
 UGR file (UGR table)	LEDTUBE T8 EM UO P 1200 15.6W 830
 LDC typ polar	LEDTUBE T8 EM UO P 1200 15.6W 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
4099854036774	Sleeve 1	1,305 mm x 29 mm x 29 mm	204.00 g	1.10 dm <sup>3</sup>
4099854036781	Shipping box 10	1,335 mm x 180 mm x 95 mm	2580.00 g	22.83 dm <sup>3</sup>

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](http://www.ledvance.com/ledtube)

**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.