

PRODUCT DATASHEET LED TUBE T8 EM P 600 mm 7W 830

LED TUBE T8 EM P | LED tubes 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 66 % (compared to T8 fluorescent lamp)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads
- 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
- Low flicker according to EU 2019-2020 (SVM \leq 0.4 / PstLM \leq 1)
- Single and tandem operation on conventional control gear (0.6 m version)
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- Mercury-free and RoHS compliant
- Uniform illumination
- Type of protection: IP20



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TECHNICAL DATA

Electrical data

Nominal wattage	7 W
Construction wattage	7.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Nominal current	32 mA
Type of current	AC
Inrush current	3.51 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	170
Max. lamp number on MCB B10 A - CCG without compensation	112
Max. lamp number on MCB B10 A - CCG with compensation	40
Max. lamp number on MCB B16 A	214
Max. lamp number on MCB B16 A - CCG without compensation	144
Max. lamp number on MCB B16 A - CCG with compensation	52
Total harmonic distortion	< 20 %
Power factor λ	0.90

Photometrical data

Luminous flux	990 lm
Luminous efficacy	141 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 length603.00 mmLength with base excl. base pins/connection600.00 mmDiameter26.70 mmTube diameter25.8 mmMaximum diameter27 mmProduct weight100.00 g

Temperatures & operating conditions

Ambient temperature range	-20+50 °C ¹⁾
Maximum temperature at tc test point	65 °C

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

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

Certificates & Standards

Energy efficiency class	D ¹⁾
Energy consumption	7.00 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 P	
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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	603.00 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	1334065,1529728
Model number	AC45364,AC51574

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	LED TUBE T8 EM P
PDF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LEDTUBE T8 EM
PDF	Declarations of conformity	LEDTUBE T8 EM
PDF	Declarations of conformity UKCA	LEDTUBE T8 EM
PDF	Declarations of conformity UKCA	LED TUBE T8 EM

	Photometric and lighting design files	Document name	
	IES file (IES)	LEDTUBE T8 EM P 600 7W 830	
	LDT file (Eulumdat)	LEDTUBE T8 EM P 600 7W 830	
1	UGR file (UGR table)	LEDTUBE T8 EM P 600 7W 830	
	Light distribution curve type polar	LEDTUBE T8 EM P 600 7W 830	
1	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K	
	Tender texts Do	Document name	
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LOGISTICAL DATA

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Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854036958	Sleeve 1	695 mm x 29 mm x 29 mm	118.00 g	0.58 dm ³
4099854036965	Shipping box 10	725 mm x 180 mm x 95 mm	1502.00 g	12.40 dm ³

LED TUBE T8 EM P 600 mm 7W 830-EN

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

Tender documents

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.