

PRODUCT DATASHEET

LED TUBE T8 EM VALUE 438 mm 5.4W 865

LED TUBE T8 EM VALUE | Economic LED tubes for electromagnetic control gear (CCG) and AC mains



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 69 % (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 ($SVM \leq 0.4$ / $PstLM \leq 1$)

TECHNICAL DATA

Electrical data

Nominal wattage	5.4 W
Construction wattage	5.40 W
Nominal voltage	220...240 V
Operating mode	CCG, AC Mains
Nominal current	25 mA
Type of current	AC
Inrush current	8 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	75
Max. lamp number on MCB B10 A - CCG without compensation	88
Max. lamp number on MCB B10 A - CCG with compensation	31
Max. lamp number on MCB B16 A	94
Max. lamp number on MCB B16 A - CCG without compensation	110
Max. lamp number on MCB B16 A - CCG with compensation	40
Total harmonic distortion	< 30 %
Power factor λ	0.90

Photometrical data

Luminous flux	650 lm
Luminous efficacy	120 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Color rendering index Ra	80
Light color	865
Standard deviation of color matching	≤6 sdcn
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 6500K

Light technical data

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

Dimensions & Weight



Overall length	451.00 mm
Length with base excl. base pins/connection	438.00 mm
Diameter	26.70 mm
Tube diameter	25.8 mm
Maximum diameter	28 mm
Product weight	75.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C ¹⁾
Maximum temperature at tc test point	70 °C
Performance temp. acc. to IEC 62717	65 °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

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	E ¹⁾
Energy consumption	6.00 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
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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	451.00 mm
Height	26.70 mm
Width	26.70 mm
Chromaticity coordinate x	0.313
Chromaticity coordinate y	0.337
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	2153806
Model number	AC69477






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

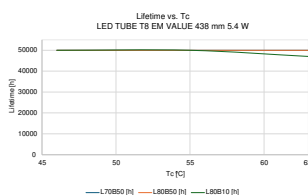
Photometric and lighting design files		Document name
	IES file (IES)	LEDTUBE T8 EM V 438 5.4W 865
	LDT file (Eulumdat)	LEDTUBE T8 EM V 438 5.4W 865
	UGR file (UGR table)	LEDTUBE T8 EM V 438 5.4W 865
	Light distribution curve type polar	LEDTUBE T8 EM V 438 5.4W 865
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 6500K
Tender texts		Document name
	Tender documents	LED TUBE T8 EM VALUE 438 mm 5.4W 865-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854434983	Sleeve 1	495 mm x 28 mm x 28 mm	95.00 g	0.40 dm ³
4099854434990	Shipping box 10	530 mm x 170 mm x 100 mm	1274.00 g	9.01 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.