

## PRODUCT DATASHEET

# LED TUBE T8 58 EM 1500 mm 18.3W 830

LED TUBE T8 EM | Economic LED tubes for electromagnetic control gears



### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Domestic applications

### Product benefits

- High color homogeneity
- Energy savings of up to 69 % compared to conventional T8 fluorescent lamps
- Instant flickerfree starting

### Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires
- T8 LED tube made of glass with G13 base
- Low flicker according to EU 2019-2020 (SVM  $\leq 0,4$  / PstLM  $\leq 1$ )
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear ( $\leq 0.9\text{m}$  versions)
- Type of protection: IP20



## TECHNICAL DATA

### Electrical data

Nominal wattage	18.3 W
Construction wattage	18.30 W
Nominal voltage	220...240 V
Nominal current	90 mA
Type of current	AC
Inrush current	11.6 A
Suitable for DC input	Yes
Input voltage DC	186...260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	53
Max. lamp no. on circuit break. B10 A - CCG without compensation	51
Max. lamp no. on circuit break. B10 A - CCG with compensation	26
Max. lamp no. on circuit break. 16 A (B)	67
Max. lamp no. on circuit break. B16 A - CCG without compensation	64
Max. lamp no. on circuit break. B16 A - CCG with compensation	33
Total harmonic distortion	< 52 %
Power factor $\lambda$	0.90

### Photometrical data

Luminous flux	2000 lm
Luminous efficacy	109 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	$\leq 6$ sdcM
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4



### Light technical data

Beam angle	> 190 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	> 190.00 °

### Dimensions & Weight



Overall length	1514.00 mm
Diameter	26.80 mm
Tube diameter	25.8 mm
Maximum diameter	28 mm
Product weight	230.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	70 °C

### Lifespan

Lifespan	30000 h
Number of switching cycles	200000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	≥ 0.90

### Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes
Product remark	Available from June 2023

### Capabilities

Dimmable	No
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### Certificates & Standards

Energy efficiency class	F 1)
Energy consumption	19.00 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 58 E
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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	1514.00 mm
Height	26.80 mm

Width	26.80 mm
Chromaticity coordinate x	0.44
Chromaticity coordinate y	0.403
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	1334017,1529792
Model number	AC45424,AC51436

## EQUIPMENT / ACCESSORIES

- Suitable for operation on magnetic control gear

## Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The Tc Point is located underneath the product label on the front side of the lamp.
- Not suitable for emergency lighting

## DOWNLOAD DATA

### Documents and certificates



User instruction



Declarations Of Conformity CE

### Photometric and lighting design files



IES file (IES)



LDT file (Eulumdat)



UGR file (UGR table)



LDC typ polar



Spectral power distribution

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## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854039300	Sleeve 1	27 mm x 27 mm x 1,610 mm	332.00 g	1.17 dm <sup>3</sup>
4099854039317	Shipping box 8	1,655 mm x 143 mm x 100 mm	3353.00 g	23.67 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.

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## References / Links

- For current information see [www.ledvance.com/osram-led-tube](http://www.ledvance.com/osram-led-tube)

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## 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.

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## DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.