

PRODUCT DATASHEET LED TUBE T8 58 EM FLUORA 1500 mm 18.3W

LED TUBE T8 EM FLUORA | LED tubes supporting plant growth



Areas of application

- Wherever there is not enough natural daylight for plants
- For ambient temperatures from -20...+45 °C

Product benefits

- Promotes plant growth
- 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 (≤ 0.9 m versions)
- Type of protection: IP20



18.3W

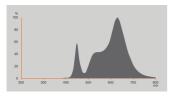
TECHNICAL DATA

Electrical data

Nominal wattage	18.3 W
Construction wattage	18.30 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Nominal current	90 mA
Type of current	AC
Inrush current	7 A
Input voltage DC	186260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	85
Max. lamp number on MCB B10 A - CCG without compensation	53
Max. lamp number on MCB B10 A - CCG with compensation	26
Max. lamp number on MCB B16 A	107
Max. lamp number on MCB B16 A - CCG without compensation	67
Max. lamp number on MCB B16 A - CCG with compensation	33
Total harmonic distortion	< 52 %
Power factor λ	0.90

Photometrical data

Luminous intensity	Not relevant
Luminous flux	1450 lm
Luminous efficacy	79 lm/W
Lumen main.fact.at end of nom.life time	0.70
Color temperature	2500 K
Color rendering index Ra	80
Light color	825
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0,4



Spectral diagram T8 EM FLUORA

Light technical data

Beam angle	100 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

1500 1503 P 7

Overall length	1514.00 mm
Length with base excl. base pins/connection	1500.00 mm
Diameter	26.70 mm
Product weight	235.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C ¹⁾
Maximum temperature at tc test point	80 °C

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

Lifespan

Lifespan L70/B50 at 25 °C	30000 h
Number of switching cycles	200000
Rated lamp survival factor at 6,000 h	≥ 0.90

Additional product data

Base (standard designation)	G13

Mercury content	0.0 mg
Capabilities	
Dimmable	No
Certificates & Standards	
Energy consumption	19.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG0
Country-specific categorizations	
Order reference	LEDTUBE T8 58 E
LOGISTICAL DATA	
	-20+80 °C
Temperature range at storage	-20+00 O
Energy labelling regulation data acc EU 2019/2015	LED
Energy labelling regulation data acc EU 2019/2015 Lighting technology used	LED
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional	
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains	LED NDLS
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface)	LED NDLS MLS
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS)	LED NDLS MLS G13
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source	LED NDLS MLS G13 No
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS)	LED NDLS MLS G13 No No
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope	LED NDLS MLS G13 No No No
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source	LED NDLS MLS G13 No No No No
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield	LED NDLS MLS G13 No No No No No
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Claim of equivalent power	LED NDLS MLS G13 No No No No No No No
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Claim of equivalent power Length	LED NDLS MLS G13 No
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Claim of equivalent power Length Height	LED NDLS MLS G13 No No No No No No 1514.00 mm 26.70 mm
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Claim of equivalent power Length Height Width	LED NDLS MLS G13 No No No No No No 26.70 mm
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Claim of equivalent power Length Height Width Chromaticity coordinate x	LED NDLS MLS G13 No No No No No No 26.70 mm 0.485
Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Claim of equivalent power Length Height Width Chromaticity coordinate x Chromaticity coordinate y	LED NDLS MLS G13 No No No No No No So

0,9

Displacement factor

LED light source replaces a fluorescent light source	No
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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.
- Not suitable for general lighting
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.

DOWNLOAD DATA

	Documents and certificates	Document name	
PDF	User instruction / safety instructions	LEDTUBE T8 EM FLUORA	
POF	On-Pack-Info	ELR - exempt lamps	
PDF	Legal information	Informationstext 18 Abs 4 ElektroG	
PDF	Declarations of conformity	LED TUBES T8 EM	
PDF	Declarations of conformity UKCA	LED TUBES T8 EM	
	Photometric and lighting design files	Document name	
	Spectral power distribution	Spectral diagram T8 EM FLUORA	

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854178214	Sleeve 1	27 mm x 27 mm x 1,610 mm	332.00 g	1.17 dm ³
4099854178221	Shipping box 8	1,655 mm x 143 mm x 100 mm	3393.00 g	23.67 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.

18.3W

References / Links

- For current information see www.ledvance.com/osram-led-tube

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.