PRODUCT DATASHEET
LED TUBE T8 30 EM BIO-LUMILUX 900 mm 10W 965

LED TUBE T8 EM BIO-LUMILUX | LED tubes emitting light similar to daylight



Areas of application

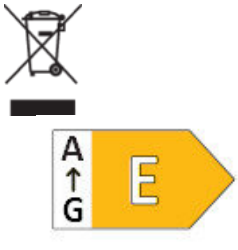
- Applications where light similar to daylight is required
- General illumination within ambient temperatures from -20…+45 °C
- Domestic applications

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
- Emits light similar to daylight
- Very good color rendering index
- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM ≤ 1)
- Single and tandem operation on conventional control gear (≤ 0.9 m versions)
- Type of protection: IP20



TECHNICAL DATA

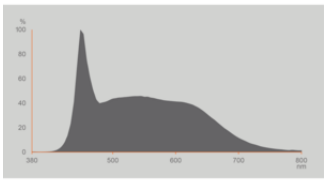
Electrical data

Nominal wattage	10 W
Nominal voltage	220…240 V
Operating mode	CCG, AC Mains
Nominal current	47 mA
Type of current	AC
Inrush current	10,0 A
Input voltage DC	186…260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	60
Max. lamp number on MCB B10 A - CCG without compensation	65
Max. lamp number on MCB B10 A - CCG with compensation	21
Max. lamp number on MCB B16 A	75
Max. lamp number on MCB B16 A - CCG without compensation	82
Max. lamp number on MCB B16 A - CCG with compensation	27
Maximum total harmonic distortion	< 30 %
Power factor λ	0.90

Photometrical data

Luminous intensity	Not relevant
Luminous flux	1200 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	95
Light color	965
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0,4

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EPREL data spectral diagram PROF LEDr 6500K CRI95

Light technical data

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

Dimensions & Weight



Overall length	908.00 mm
Length with base excl. base pins/connection	900.00 mm
Diameter	26.70 mm
Product weight	145.00 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

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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 efficiency class	E [1)]
Energy consumption	10.00 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 30 E

LOGISTICAL DATA

Temperature range at storage	-20…+80 °C

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
Claim of equivalent power	No
Length	908.00 mm
Height	26.70 mm

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Width	26.70 mm
Chromaticity coordinate x	0.3123
Chromaticity coordinate y	0.3283
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	1619075
Model number	AC53626,AC53626,AC53626

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.
- 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 BIO
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11201307
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	EPREL data spectral diagram PROF LEDr 6500K CRI95

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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854178290	Sleeve 1	27 mm x 29 mm x 1,010 mm	195.00 g	0.79 dm^3
4099854178306	Shipping box 8	1,045 mm x 143 mm x 100 mm	2043.00 g	14.94 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.

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.

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