

# PRODUCT DATASHEET LED TUBE T8 36 EM BIO-LUMILUX 1200 mm 15W 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  $^{\circ}\text{C}$
- 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)
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (≤ 0.9 m versions)
- Type of protection: IP20





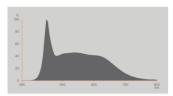
# TECHNICAL DATA

# Electrical data

Nominal wattage	15 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Nominal current	76 mA
Type of current	AC
Inrush current	4.8 A
Input voltage DC	186260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	105
Max. lamp number on MCB B10 A - CCG without compensation	74
Max. lamp number on MCB B10 A - CCG with compensation	28
Max. lamp number on MCB B16 A	156
Max. lamp number on MCB B16 A - CCG without compensation	92
Max. lamp number on MCB B16 A - CCG with compensation	36
Total harmonic distortion	< 52 %
Power factor $\lambda$	0.90

# Photometrical data

Luminous intensity	Not relevant
Luminous flux	1800 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



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	1213.00 mm
Length with base excl. base pins/connection	1200.00 mm
Diameter	26.70 mm
Product weight	186.00 g

# Temperatures & operating conditions

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

<sup>1)</sup> 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 efficiency class	E 1)
Energy consumption	15.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG0
Order reference	LEDTUBE T8 36 E
Order reference	LEDTUBE T8 36 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)	
Connected light source (CLS)	G13
	G13 No
Color-tuneable light source	
Color-tuneable light source  Envelope	No
	No No
Envelope	No No
Envelope  High luminance light source	No No No No
Envelope  High luminance light source  Anti-glare shield	No No No No No No
Envelope  High luminance light source  Anti-glare shield  Correlated colour temperature type	No No No No No SINGLE_VALUE

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	1619076
Model number	AC53627,AC53627

#### **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		
POF	User instruction / safety instructions	LEDTUBE T8 EM BIO		
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		
	Photomotric and lighting decign files	Document name		
	Photometric and lighting design files	DOCUMENT NAME		
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 6500K CRI95		

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854178337	Sleeve 1	27 mm x 27 mm x 1,310 mm	264.00 g	0.95 dm <sup>3</sup>
4099854178344	Shipping box 8	1,355 mm x 143 mm x 100 mm	2682.00 g	19.38 dm³

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.