

# PRODUCT DATASHEET LED TUBE T8 EM CHIP CONTROL S 1200 mm 18W

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



#### Areas of application

- Micro chip and semiconductor production
- Applications where UV and blue light percentage have to be reduced to a minimum
- Industry

#### **Product benefits**

- Excellent UV filter
- Very high resistance to switching loads
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 62 % (compared to T8 fluorescent lamp)
- 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
- Excellent filter performance below 500 nm
- Low flicker according to EU 2019-2020 (SVM  $\leq$  0.4 / PstLM  $\leq$  1)
- ENEC 10 VDE mark
- Lifetime up to 50,000 h



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- Mercury-free and RoHS compliant

### **TECHNICAL DATA**

#### Electrical data

Nominal wattage	18 W
Construction wattage	18.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Nominal current	85 mA
Type of current	AC
Inrush current	8.56 A
Suitable for DC input	Yes
Input voltage DC	186260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	4
Max. lamp number on MCB B10 A - CCG without compensation	53
Max. lamp number on MCB B10 A - CCG with compensation	2
Max. lamp number on MCB B16 A	7
Max. lamp number on MCB B16 A - CCG without compensation	85
Max. lamp number on MCB B16 A - CCG with compensation	4
Total harmonic distortion	7 %
Power factor $\lambda$	0.90

## Photometrical data

Luminous flux	2000 lm
Luminous efficacy	111 lm/W
Lumen main.fact.at end of nom.life time	0.96
Light color (designation)	Yellow
Color temperature	2000 K
Color rendering index Ra	35
Light color	320
Standard deviation of color matching	≤5 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

## **Dimensions & Weight**

Overall length	1212.00 mm
Length with base excl. base pins/connection	1200.00 mm
Diameter	26.70 mm
Tube diameter	25.80 mm
Maximum diameter	27 mm
Product weight	260.00 g

### Temperatures & operating conditions

Ambient temperature range	-20+45 °C <sup>1)</sup>
Maximum temperature at tc test point	65 °C

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

## Lifespan

Lifespan L70/B50 at 25 °C	50000 h
Number of switching cycles	200000
Lumen maintenance at end of service lifetime	0.96
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

## **Certificates & Standards**

Energy consumption	18.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / VDE / ENEC / EAC
Photobiological safety group acc. to EN62778	RG0

## Country-specific categorizations

Order reference	LEDTUBE T8 EM C

## LOGISTICAL DATA

Temperature range at storage	-20+80 °C
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# Energy labelling regulation data acc EU 2019/2015

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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
Standby power	0 W
Claim of equivalent power	No
Length	1212.00 mm
Height	26.70 mm
Width	26.70 mm
Chromaticity coordinate y	0.4482
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

#### EQUIPMENT / ACCESSORIES

- Replacement starter for LED tubes

#### 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	
POF	User instruction / safety instructions	LEDTUBE T8 EM CHIP S	
PDF	Legal information	Informationstext 18 Abs 4 ElektroG	
POF	Declarations of conformity	LED tube	
PDF	Declarations of conformity UKCA	LED tube	
	Photometric and lighting design files	Document name	
$\overline{\bigcirc}$	Photometric and lighting design files	Document name LEDTUBE T8 EM CHIP S 18W 1200	
	IES file (IES)	LEDTUBE T8 EM CHIP S 18W 1200	
	IES file (IES) LDT file (Eulumdat)	LEDTUBE T8 EM CHIP S 18W 1200 LEDTUBE T8 EM CHIP S 18W 1200	
	IES file (IES)	LEDTUBE T8 EM CHIP S 18W 1200	

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854271472	Sleeve 1	1,255 mm x 29 mm x 29 mm	289.00 g	1.06 dm <sup>3</sup>
4099854271489	Shipping box 10	1,290 mm x 170 mm x 95 mm	3511.00 g	20.83 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.

#### **References / Links**

- For current information see www.ledvance.com/ledtube

#### 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.