

PRODUCT DATASHEET LED TUBE T8 EM V 1200 mm 15W 840

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



Areas of application

- General illumination within ambient temperatures from -20...+45 $^{\circ}\text{C}$
- Corridors, stairways, parking garages
- Industry
- Warehouses
- Cooling and storage rooms
- Domestic applications
- Supermarkets and department stores

Product benefits

- No bending thanks to glass tube
- Energy savings of up to 69 % (compared to T8 fluorescent lamp)
- Quick, simple and safe replacement without rewiring
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads
- 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
- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM $\leq 1)$
- $-\,$ Single and tandem operation on conventional control gear ($\!\leq 0.9$ m versions)
- Tube made of glass
- Mercury-free and RoHS compliant
- Uniform illumination
- Type of protection: IP20





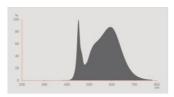
TECHNICAL DATA

Electrical data

Construction wattage15.00 WNominal voltage220240 VOperating modeCCG, AC MainsNominal current76 mA	
Operating mode CCG, AC Mains	
Nominal current 76 mA	
Type of current AC	
Inrush current 8.4 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 74	
Max. lamp number on MCB B10 A - CCG without compensation 71	
Max. lamp number on MCB B10 A - CCG with compensation 28	
Max. lamp number on MCB B16 A 92	
Max. lamp number on MCB B16 A - CCG without compensation 89	
Max. lamp number on MCB B16 A - CCG with compensation 36	
Total harmonic distortion < 52 %	
Power factor λ 0.90	

Photometrical data

Luminous flux	1800 lm
Luminous efficacy	120 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
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 4000K

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	26.80 mm
Product weight	175.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C ¹⁾
Maximum temperature at tc test point	70 °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
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

Additional product data

November 03, 2025, 19:33:09 LED TUBE T8 EM V 1200 mm 15W 840

Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	
----------	--

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

¹⁾ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

Country-specific categorizations

LOGISTICAL DATA

Temperature range at storage	-20+80 °C
------------------------------	-----------

Energy labelling regulation data acc EU 2019/2015

UE

November 03, 2025, 19:33:08 LED TUBE T8 EM V 1200 mm 15W 840

Chromaticity coordinate x	0.38
Chromaticity coordinate y	0.38
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	1333988,1529813
Model number	AC45395,AC51407,AC45395

EQUIPMENT / ACCESSORIES

- Suitable for operation with low-loss and conventional control gears

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
PDF	User instruction / safety instructions	LED TUBE T8 EM V
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LEDTUBE T8 EM
PDF	Declarations of conformity	LED TUBE T8 EM
PDF	Declarations of conformity UKCA	LED TUBE T8 EM
PDF	Declarations of conformity UKCA	LEDTUBE T8 EM

Photometric and lighting design files	Document name	
IES file (IES)	LEDTUBE T8 EM V 1200 15W 840 LEDV	
LDT file (Eulumdat)	LEDTUBE T8 EM V 1200 15W 840 LEDV	
UGR file (UGR table)	LEDTUBE T8 EM V 1200 15W 840 LEDV	
Light distribution curve type polar	LEDTUBE T8 EM V 1200 15W 840 LEDV	
Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K	
Tonder toute Decumen	* none	

Tender texts	Document name
Tender documents	LED TUBE T8 EM V 1200 mm 15W 840-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854038167	Sleeve 1	1,255 mm x 29 mm x 29 mm	215.00 g	1.06 dm ³
4099854038174	Shipping box 10	1,290 mm x 170 mm x 95 mm	2766.00 g	20.83 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/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.