

PRODUCT DATASHEET LED TUBE T8 EM PERFORMANCE 600 mm 7W 840

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



Areas of application

- General illumination within ambient temperatures from -20...+50 $^{\circ}\text{C}$
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

Product benefits

- Energy savings of up to 67 % (compared to T8 fluorescent lamp)
- Quick, simple and safe replacement with or without rewiring
- Highly versatile thanks to selectable power/lumen steps (1200 mm, 1500 mm)
- No bending thanks to glass technology
- Support the implementation of the HACCP concepts from production through to presentation
- Very high resistance to switching loads
- 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
- Multi Lumen function: 2 power steps selectable (1200 mm, 1500 mm)
- LED tube made of glass with shatter protection e.g. for food industry applications





- Single and tandem operation on conventional control gear (0.6 m version)
- Very long lifetime: up to 75,000 h
- Type of protection: IP20
- Mercury-free and RoHS compliant
- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM \leq 1)

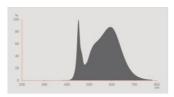
TECHNICAL DATA

Electrical data

Nominal wattage	7 W
Construction wattage	7.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Nominal current	32 mA
Type of current	AC
Inrush current	3.56 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	168
Max. lamp number on MCB B10 A - CCG without compensation	112
Max. lamp number on MCB B10 A - CCG with compensation	65
Max. lamp number on MCB B16 A	211
Max. lamp number on MCB B16 A - CCG without compensation	144
Max. lamp number on MCB B16 A - CCG with compensation	81
Total harmonic distortion	< 20 %
Power factor λ	0.90

Photometrical data

Luminous flux	1100 lm
Luminous efficacy	157 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	≤5 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 (6	0 %)	< 0.50 s
Starting time		< 0.5 s

Dimensions & Weight



Overall length	603.00 mm
Length with base excl. base pins/connection	600.00 mm
Diameter	26.70 mm
Tube diameter	25.8 mm
Maximum diameter	28 mm
Product weight	100.00 g

Temperatures & operating conditions

Ambient temperature range	-20+50 °C ¹⁾
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	75000 h
Lifespan L80/B50 at 25 °C	75000 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	
Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes
Product remark	Available from June 2025
Capabilities	
Dimmable	No
Certificates & Standards	
Energy efficiency class	D 1)
Energy consumption	7.00 kWh/1000h
	IP20
Type of protection	25
Type of protection Standards	CE / UKCA / EAC
	CE / UKCA / EAC RG0
Standards Photobiological safety group acc. to EN62778	CE / UKCA / EAC RG0
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<0.5 W

Standby power

Claim of equivalent power	No
Length	603.00 mm
Height	26.70 mm
Width	26.70 mm
Chromaticity coordinate x	0.3818
Chromaticity coordinate y	0.3797
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
EPREL ID	2150908,2340255
Model number	AC69461,AC81603

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
POF	User instruction / safety instructions	
PDF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
POF	Declarations of conformity	LEDTUBE
PDF	Declarations of conformity UKCA	LEDTUBE

Photometric and lighting design files	Document name
IES file (IES)	LEDTUBE T8 EM P 600 7W 840 LEDV
LDT file (Eulumdat)	LEDTUBE T8 EM P 600 7W 840 LEDV
UGR file (UGR table)	LEDTUBE T8 EM P 600 7W 840 LEDV
Light distribution curve type polar	LEDTUBE T8 EM P 600 7W 840 LEDV
Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854432125	Sleeve 1	695 mm x 29 mm x 29 mm	118.00 g	0.58 dm ³
4099854432132	Shipping box 10	725 mm x 180 mm x 95 mm	1499.00 g	12.40 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 Guarantee see www.ledvance.com/guarantee

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.