PRODUCT DATASHEET
LED TUBE T8 EM ENERGY EFFICIENCY CLASS A 1200 mm 10W 840

LED TUBE T8 EM ENERGY EFFICIENCY CLASS A | Ultra-efficient LED tubes for electromagnetic control gear (CCG) and AC mains, EEC A



SUPERIOR CLASS

Areas of application

- General illumination within ambient temperatures from -20…+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

Product benefits

- Highest energy savings possible thanks to energy efficiency class A
- No bending thanks to glass technology
- Very high resistance to switching loads
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 72 % (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
- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM ≤ 1)
- ENEC 10 VDE mark
- Lifetime up to 100,000 h
- Type of protection: IP20
- Luminous efficacy: up to 210 lm/W





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TECHNICAL DATA

Electrical data

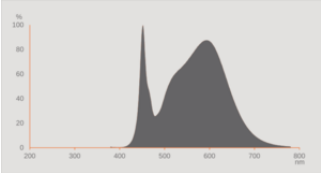
Nominal wattage	10 W
Nominal voltage	220…240 V
Operating mode	CCG, AC Mains, DC
Nominal current	47 mA
Type of current	AC
Inrush current	3 A
Suitable for DC input	Yes
Input voltage DC	186…260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz [1)]
Max. lamp number on MCB B10 A	85
Max. lamp number on MCB B10 A - CCG without compensation	85
Max. lamp number on MCB B10 A - CCG with compensation	14
Max. lamp number on MCB B16 A	125
Max. lamp number on MCB B16 A - CCG without compensation	125
Max. lamp number on MCB B16 A - CCG with compensation	22
Maximum total harmonic distortion	22 %
Power factor λ	0.90

1) DC 0 Hz

Photometrical data

Luminous flux	2100 lm
Luminous efficacy	210 lm/W
Lumen main.fact.at end of nom.life time	0.96
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

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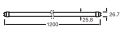


EPREL data spectral diagram PROF LEDr 4000K

Light technical data

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

Dimensions & Weight



Overall length	1212.00 mm
Length with base excl. base pins/connection	1200.00 mm
Diameter	26.70 mm
Product weight	234.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C [1)]
Maximum temperature at tc test point	75 °C

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

Lifespan

Lifespan L70/B50 at 25 °C	100000 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

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Additional product data

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

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	A [1)]
Energy consumption	10.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / VDE / ENEC / EAC
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 EM 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
Standby power	<0.5 W
Claim of equivalent power	No
Length	1212.00 mm
Height	26.70 mm

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Width	26.70 mm
Chromaticity coordinate x	0,3818
Chromaticity coordinate y	0,3797
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	1791819
Model number	AC57040,AC57040,AC57040

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	LEDTUBE T8 EM EECA
PDF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2026 10 EN
PDF	Extended installation guide	Notes on the operation of LEDVANCE LED tubes in compensated luminaires
PDF	Extended installation guide	LEDVANCE Luminaire conversion checklist
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11201307
PDF	Declarations of conformity	LEDTUBE T8 EM EECA
PDF	Declarations of conformity UKCA	LEDTUBE T8 EM EECA

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	Photometric and lighting design files	Document name
	IES file (IES)	LEDTUBE T8 EM EECA S 1200 10W 840
	LDT file (Eulumdat)	LEDTUBE T8 EM EECA S 1200 10W 840
	UGR file (UGR table)	LEDTUBE T8 EM EECA S 1200 10W 840
	Light distribution curve type polar	LEDTUBE T8 EM EECA S 1200 10W 840
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

	Tender texts	Document name
	Tender documents	LED TUBE T8 EM ENERGY EFFICIENCY CLASS A S 1200 mm 10W 840-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854223310	Sleeve 1	1,255 mm x 29 mm x 29 mm	263.00 g	1.06 dm^3
4099854223327	Shipping box 10	1,290 mm x 170 mm x 95 mm	3246.00 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.

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