

PRODUCT DATASHEET

LED TUBE T8 EM ULTRA OUTPUT P 1500 mm 23.1W 865

LED TUBE T8 EM ULTRA OUTPUT P | LED tubes with extra high light output for electromagnetic control gear (CCG) and AC mains, shatterproof



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

- No bending thanks to glass tube
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (compared to T8 fluorescent lamp)
- Very high resistance to switching loads
- High luminous flux for sophisticated lighting tasks
- Also suitable for operation at low temperatures
- Instant-on light, therefore ideally suitable in combination with sensor technology

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 \leq 0.4 / PstLM \leq 1)
- Lamp tube made of glass with splinter protection e.g. for food industry applications



- For especially uniform illumination
- Mercury-free and RoHS compliant
- Type of protection: IP20

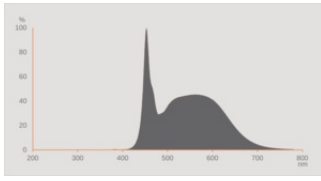
TECHNICAL DATA

Electrical data

Nominal wattage	23.1 W
Construction wattage	23.10 W
Nominal voltage	220...240 V
Operating mode	CCG, AC Mains
Nominal current	102 mA
Type of current	AC
Inrush current	17.2 A
Input voltage DC	186...260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	34
Max. lamp number on MCB B10 A - CCG without compensation	64
Max. lamp number on MCB B10 A - CCG with compensation	5
Max. lamp number on MCB B16 A	43
Max. lamp number on MCB B16 A - CCG without compensation	103
Max. lamp number on MCB B16 A - CCG with compensation	7
Total harmonic distortion	< 20 %
Power factor λ	0.90

Photometrical data

Luminous flux	3700 lm
Luminous efficacy	160 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	80
Light color	865
Standard deviation of color matching	≤5 sdc _m
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

Light technical data

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

Dimensions & Weight



Overall length	1513.00 mm
Length with base excl. base pins/connection	1500.00 mm
Diameter	26.70 mm
Tube diameter	25.8 mm
Maximum diameter	27 mm
Product weight	226.00 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	60000 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
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Additional product data

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

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	C ¹⁾
Energy consumption	24.00 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

Order reference	LEDTUBE T8 EM U
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LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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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-tunable 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	1513.00 mm
Height	26.70 mm
Width	26.70 mm
Chromaticity coordinate x	0.3123
Chromaticity coordinate y	0.3283
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	1334064,1529754
Model number	AC45363,AC51573,AC45363,AC51573







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

Photometric and lighting design files		Document name
	IES file (IES)	LEDTUBE T8 EM UO P 1500 23.1W 865
	LDT file (Eulumdat)	LEDTUBE T8 EM UO P 1500 23.1W 865
	UGR file (UGR table)	LEDTUBE T8 EM UO P 1500 23.1W 865
	Light distribution curve type polar	LEDTUBE T8 EM UO P 1500 23.1W 865
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 6500K

Tender texts	Document name
 Tender documents	LED TUBE T8 EM ULTRA OUTPUT P 1500 mm 23.1W 865-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854037054	Sleeve 1	1,605 mm x 29 mm x 29 mm	260.00 g	1.35 dm ³
4099854037061	Shipping box 10	1,635 mm x 180 mm x 95 mm	3247.00 g	27.96 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.