

PRODUCT DATASHEET LED TUBE T8 UNIVERSAL ULTRA OUTPUT P 1500 mm 23W 865

LED TUBE T8 UNIVERSAL ULTRA OUTPUT P | LED tubes for electronic control gear (ECG), electromagnetic control gear (CCG) and AC mains, shatterproof



Areas of application

- General illumination within ambient temperatures from -20...+45 $^{\circ}\text{C}$
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

Product benefits

- No bending thanks to glass technology
- 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
- Support the implementation of the HACCP concepts from production through to presentation
- Also suitable for operation at low temperatures

Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG, ECG luminaires or on AC mains
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- Low flicker according to EU 2019-2020 (SVM \leq 0.4 / PstLM \leq 1)





- Lamp tube made of glass with splinter protection
- For especially uniform illumination
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime up to 60,000 h

TECHNICAL DATA

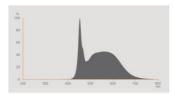
Electrical data

Nominal wattage	23 W
Construction wattage	23.00 W
Nominal voltage	220240 V
Operating mode	ECG, CCG, AC Mains 1)
Nominal current	106 mA
Type of current	AC
Inrush current	7 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	70
Max. lamp number on MCB B10 A - CCG without compensation	70
Max. lamp number on MCB B10 A - CCG with compensation	28
Max. lamp number on MCB B16 A	110
Max. lamp number on MCB B16 A - CCG without compensation	110
Max. lamp number on MCB B16 A - CCG with compensation	47
Total harmonic distortion	< 30 %
Power factor λ	0.90

¹⁾ Check ECG compatibility at ledvance.com/compatibility

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 sdcm
Rated LLMF at 6,000 h	0.90
Flickering metric (Pst LM)	1.0
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	27.80 mm
Product weight	307.00 g

Temperatures & operating conditions

Ī	Ambient temperature range	-20+45 °C ¹⁾
	Maximum temperature at tc test point	75 °C
	Performance temp. acc. to IEC 62717	55 °C ²⁾

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

Lifespan

Lifespan L70/B50 at 25 °C	60000 h
Lifespan L80/B50 at 25 °C	60000 h
Number of switching cycles	200000
Lumen maintenance at end of service lifetime	0.70

²⁾ In operation with CCG/AC. Tp: 55°C in ECG operation. / Tp rated. Tp point coincides with Tc point - marked on device

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	The declared values in the data sheet refer to the operation of the LED tube on AC mains operation 230VAC 50Hz	
Capabilities		
Dimmable	No	
Certificates & Standards		
Energy efficiency class	C 1)	
Energy consumption	23.00 kWh/1000h	
Type of protection	IP20	
Standards	CE	
Photobiological safety group acc. to EN62778	RG0	
Denergy efficiency class (EEC) on a scale of A (highest efficiency) to Country-specific categorizations	3 (lowest efficiency)	
Order reference	LEDTUBE T8 UN U	
LOGISTICAL DATA		
COGISTICAL DATA Temperature range at storage	-20+80 °C	
	-20+80 °C	
Temperature range at storage	-20+80 °C	
Temperature range at storage Energy labelling regulation data acc EU 2019/2015		
Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used	LED	
Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional	LED NDLS	
Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains	LED NDLS MLS	
Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface)	LED NDLS MLS G13	
Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS)	LED NDLS MLS G13 No	

No

SINGLE_VALUE

Correlated colour temperature type

Anti-glare shield

Claim of equivalent power	No
Length	1513.00 mm
Height	27.80 mm
Width	27.80 mm
Chromaticity coordinate x	0.3123
Chromaticity coordinate y	0.3283
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	1317784
Model number	AC42579,AC42579

Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The operating temperature range of LED tube is restricted. In case of doubt regarding suitability of the application please measure Tc temperature on the product prior to installation.
- For operation of LED TUBE T8 UN with a conventional control gear, the existing starter must be exchanged with the including LED starter in the LED tube packaging.
- All electrical connections must be made by a qualified person.
- Not suitable for emergency lighting.

DOWNLOAD DATA

	Documents and certificates	Document name
POF	User instruction / safety instructions	LEDTUBE T8 UNIVERSAL Ledvance
Addon technical information LED TUBE T8 UNIVERSAL T8 HF T5 HF Gen 11 ballast compatibil		LED TUBE T8 UNIVERSAL T8 HF T5 HF Gen 11 ballast compatibility 2023
PDF	Addon technical information LED TUBE T8 T5 HF ballast compatibility 2025	
PDF	Legal information Informationstext 18 Abs 4 ElektroG	
PDF	Declarations of conformity LED TUBES T8 HF/UN	LED TUBES T8 HF/UN
PDF	Declarations of conformity UKCA LED TUBES T8 HF/UN UKCA	

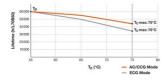
	Documents and certificate	es Docume	ent name	
PDF	ECG compatibility list	LED TUE	E T8 UNIVERSAL T8 HF T5 HF Gen 11 ballast compatibility 2023	
	Photometric and lighting d	lesign files	Document name	
	IES file (IES)		LEDTUBE T8 UN UO P 1500 23W 865 LEDV	
	LDT file (Eulumdat)		LEDTUBE T8 UN UO P 1500 23W 865 LEDV	
	UGR file (UGR table)		LEDTUBE T8 UN UO P 1500 23W 865 LEDV	
	Light distribution curve type polar		LEDTUBE T8 UN UO P 1500 23W 865 LEDV	
	Spectral power distribution		EPREL data spectral diagram PROF LEDr 6500K	
	Tender texts	Document name		
	Tender documents	LED TUBE T8 UNIVERSAL ULTRA OUTPUT P 1500 mm 23W 865-EN		
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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854026591	Sleeve 1	1,605 mm x 29 mm x 29 mm	341.00 g	1.35 dm ³
4099854026607	Shipping box 10	1,652 mm x 210 mm x 115 mm	4250.00 g	39.90 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.

ADDITIONAL CATALOG INFORMATION



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.