

# PRODUCT DATASHEET LED TUBE T8 UNIVERSAL V 600 mm 8W 865

LED TUBE T8 UNIVERSAL V | LED tubes for electronic control gear (ECG), electromagnetic control gear (CCG) and AC mains



#### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Industry
- Warehouses
- Cooling and storage rooms
- Domestic applications
- Supermarkets and department stores

#### **Product benefits**

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 58 % (compared to T8 fluorescent lamp)
- Very high resistance to switching loads
- 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, 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 ≤0,4 / PstLM ≤ 1)
- Tube made of glass
- Uniform illumination
- Mercury-free and RoHS compliant





- Type of protection: IP20

- Lifetime: up to 30,000 h

## **TECHNICAL DATA**

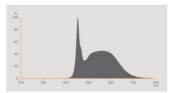
## Electrical data

Nominal wattage	8 W
Construction wattage	8.00 W
Nominal voltage	220240 V
Operating mode	ECG, CCG, AC Mains <sup>1)</sup>
Nominal current	39 mA
Type of current	AC
Inrush current	7 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	190
Max. lamp no. on circuit break. B10 A - CCG without compensation	190
Max. lamp no. on circuit break. B10 A - CCG with compensation	37
Max. lamp no. on circuit break. 16 A (B)	305
Max. lamp no. on circuit break. B16 A - CCG without compensation	305
Max. lamp no. on circuit break. B16 A - CCG with compensation	62
Total harmonic distortion	< 30 %
Power factor $\lambda$	0.80

 $<sup>1) \ {\</sup>it Check\ ECG\ compatibility\ at\ ledvance.com/compatibility}}$ 

# Photometrical data

Luminous flux	900 lm
Luminous efficacy	112 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
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	≤0.4



# Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 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	27.80 mm
Tube diameter	25,5 mm
Maximum diameter	28 mm
Product weight	153.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	60 °C
Performance temp. acc. to IEC 62717	50 °C ¹)

 $<sup>1) \ \</sup>hbox{In operation with CCG/AC. Tp:} \ 55 ^{\circ}\hbox{C in ECG operation.} \ / \ \hbox{Tp rated. Tp point coincides with Tc point - marked on device}$ 

## Lifespan

Lifespan L70/B50 at 25 °C	30000 h
Lifespan L80/B50 at 25 °C	30000 h
Number of switching cycles	200000

	PRODUCT DATASH
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
Capabilities	
Dimmable	No
Certificates & Standards	
Energy efficiency class	E <sup>1)</sup>
Energy consumption	8.00 kWh/1000h
Type of protection	IP20
Standards	CE
Photobiological safety group acc. to EN62778	RG0
1) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lo	owest efficiency)
Country-specific categorizations	
Order reference	LEDTUBE T8 UN V
LOGISTICAL DATA	
Temperature range at storage	-20+80 °C
Energy labelling regulation data acc EU 2019/2015	

Non-directional or directional  Mains or non-mains  MLS  Light source cap-type (or other electric interface)  Connected light source (CLS)  No  Color-tuneable light source  No  Envelope  No  High luminance light source  Anti-glare shield  No  Correlated colour temperature type  NIDLS  MLS  MLS  MLS  No  No  SINGLE_VALUE		
Mains or non-mains  MLS  Light source cap-type (or other electric interface)  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	Lighting technology used	LED
Light source cap-type (or other electric interface)  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	Non-directional or directional	NDLS
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	Mains or non-mains	MLS
Color-tuneable light source No  Envelope No  High luminance light source No  Anti-glare shield No  Correlated colour temperature type SINGLE_VALUE	Light source cap-type (or other electric interface)	G13
Envelope No High luminance light source No Anti-glare shield No Correlated colour temperature type SINGLE_VALUE	Connected light source (CLS)	No
High luminance light source  Anti-glare shield  Correlated colour temperature type  SINGLE_VALUE	Color-tuneable light source	No
Anti-glare shield No  Correlated colour temperature type SINGLE_VALUE	Envelope	No
Correlated colour temperature type SINGLE_VALUE	High luminance light source	No
	Anti-glare shield	No
Claim of equivalent power No	Correlated colour temperature type	SINGLE_VALUE
	Claim of equivalent power	No

Length	603.00 mm
Height	27.80 mm
Width	27.80 mm
Chromaticity coordinate x	0.3123
Chromaticity coordinate y	0.3283
R9 Colour rendering index	<b>`</b> 0
Beam angle correspondence	SPHERE_360
Survival factor	<b>`</b> 0.9
Displacement factor	0.8
LED light source replaces a fluorescent light source	No
EPREL ID	1317774
Model number	AC42594

## 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 max temperature on the product prior to installation.
- For operation of LEDTUBE T8 UN with a conventional control gear, the existing starter must be exchanged with the including LED starter in the LED tube packaging.

#### **DOWNLOAD DATA**

	Documents and certificates
PDF	User instruction
POF	Addon Technical Information
PDF	Declarations Of Conformity CE
POF	Declarations Of Conformity UKCA
	Photometric and lighting design files
	IES file (IES)
	LDT file (Eulumdat)

Photometric and lighting design files
UGR file (UGR table)
LDC typ polar
Spectral power distribution

#### **LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854026553	Sleeve 1	695 mm x 29 mm x 29 mm	171.00 g	0.58 dm <sup>3</sup>
4099854026560	Shipping box 10	742 mm x 210 mm x 115 mm	2142.00 g	17.92 dm³

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.