PRODUCT DATASHEET
LED TUBE T5 EXTERNAL HO24 549 mm 10.5W 830

LED TUBE T5 EXTERNAL | LED TUBE T5 EXTERNAL for LED DRIVER EXTERNAL



PERFOR-
MANCE
CLASS

Areas of application

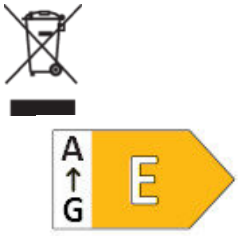
- Industrial lighting (e.g. manufacturing plants, logistic centers, warehouses)
- Linear lighting for office, education, storage areas and retail
- Shops, supermarkets

Product benefits

- Simple upgrade to dimmable LED system
- Shatter protection thanks to special PET coating
- No bending thanks to glass tube
- 5 years guarantee

Product features

- Designed to power only with LED DRIVER LED TUBE EXTERNAL DALI
- Lamp tube made of glass with splinter protection
- Quality dimming of 1…100 %
- High resistance to switching loads
- Suitable for ambient temperatures from -20…+50 °C



TECHNICAL DATA

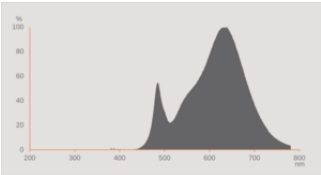
Electrical data

Nominal wattage	10.5 W
Nominal voltage	21 V
Operating mode	EXT [1)]
Nominal current	500 mA
Type of current	DC
Operating frequency	0 Hz
Mains frequency	0 Hz
Maximum total harmonic distortion	< 20 %
Power factor λ	0.90

1) Designed to power with LEDVANCE LED DRIVER LED TUBE EXTERNAL DALI P

Photometrical data

Luminous flux	1450 lm
Luminous efficacy	138 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	80
Light color	830
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
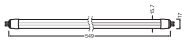


EPREL data spectral diagram PROF LEDr 3000K

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Light technical data

Beam angle	180 °
Warm-up time (60 %)	‹ 2.00 s
Starting time	< 1.0 s

Dimensions & Weight



Overall length	563.00 mm
Length with base excl. base pins/connection	549.00 mm
Diameter	17.00 mm
Product weight	180.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C [1)]
Maximum temperature at tc test point	80 °C

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

Lifespan

Lifespan L70/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)	G5
Mercury content	0.0 mg
Mercury-free	Yes
Product remark	Single sided LED TUBE (one-sided DC input) complying with safety requirement acc. IEC 62776:2014. Safety protection against electrical shock in misuse (ECG/CCG/Mains operation).

Capabilities

Dimmable	Yes

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Certificates & Standards

Energy efficiency class	E [1)]
Energy consumption	11.00 kWh/1000h
Type of protection	IP20
Standards	CE / 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 T5 EXT

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	NMLS
Light source cap-type (or other electric interface)	G5
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 W
Claim of equivalent power	No
Length	563.00 mm
Height	17.00 mm
Width	17.00 mm
Chromaticity coordinate x	0,433
Chromaticity coordinate y	0,403
R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0,90
Displacement factor	0,90
LED light source replaces a fluorescent light source	No

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EPREL ID	1939308
Model number	AC59116,AC59116

Required Accessories and Components

Product image	Product name	EAN
	DR EXTERNAL DALI -1X15-37W 220-240	4058075730632
	DR EXTERNAL DALI -1X7-37W 220-240	4099854295157
	DR EXTERNAL DALI -2X7-26W 220-240	4099854295171

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.
- LED TUBE T5 EXTERNAL HO80 cannot be operated with 2-channel driver.
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LEDTUBE EXT P User instruction LEDV
PDF	Extended installation guide	LEDVANCE Luminaire conversion checklist
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LEDTUBE T5-T8 EXT
PDF	Declarations of conformity UKCA	LEDTUBE T5_T8 EXT

	Photometric and lighting design files	Document name
IES	IES file (IES)	LEDTUBE T5 EXT HO24 P 549 10.5W 830 LEDV

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	Photometric and lighting design files	Document name
	LDT file (Eulumdat)	LEDTUBE T5 EXT HO24 P 549 10.5W 830 LEDV
	UGR file (UGR table)	LEDTUBE T5 EXT HO24 P 549 10.5W 830 LEDV
	Light distribution curve type polar	LEDTUBE T5 EXT HO24 P 549 10.5W 830 LEDV
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K

	Tender texts	Document name
	Tender documents	LED TUBE T5 EXTERNAL P 549 mm 10.5W 830-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854294228	Sleeve 1	565 mm x 22 mm x 22 mm	199.00 g	0.27 dm^3
4099854294235	Shipping box 25	619 mm x 159 mm x 178 mm	6028.00 g	17.52 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 T5 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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