

# PRODUCT DATASHEET

## LED TUBE T5 EXTERNAL HE35 P 1449 mm 18W 830

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



### 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
- Hassle free application, no ballast compatibility check necessary
- Suitable for emergency lighting (self-contained battery pack)
- 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	18 W
Construction wattage	18.00 W
Nominal voltage	41 V
Operating mode	EXT <sup>1)</sup>
Nominal current	450 mA
Type of current	DC
Operating frequency	0 Hz
Mains frequency	0 Hz
Total harmonic distortion	< 20 %
Power factor $\lambda$	0.90

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

Photometrical data

Luminous flux	2550 lm
Luminous efficacy	142 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 sdc <sub>m</sub>
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

Light technical data

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

Dimensions & Weight



Overall length	1463.00 mm
Length with base excl. base pins/connection	1449.00 mm
Diameter	17.00 mm
Tube diameter	15.7 mm
Maximum diameter	17 mm
Product weight	137.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C <sup>1)</sup>
Maximum temperature at tc test point	65 °C

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

Lifespan

Lifespan L70/B50 at 25 °C	50000 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 &amp; Standards

Energy efficiency class	E <sup>1)</sup>
Energy consumption	18.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA
Photobiological safety group acc. to EN62778	RG0

<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

## Country-specific categorizations

Order reference	LEDTUBE T5 EXT
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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	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	1463.00 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
EPREL ID	1278961
Model number	AC43084,AC43084

### 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
	User instruction / safety instructions	LEDTUBE EXT P User instruction LEDV
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	LEDTUBE T5 and T8
	Declarations of conformity UKCA	LEDTUBE T5 and T8 EXT
Photometric and lighting design files		Document name
	IES file (IES)	LEDTUBE T5 EXT HE35 P 1449 18W 830
	LDT file (Eulumdat)	LEDTUBE T5 EXT HE35 P 1449 18W 830
	UGR file (UGR table)	LEDTUBE T5 EXT HE35 P 1449 18W 830
	Light distribution curve type polar	LEDTUBE T5 EXT HE35 P 1449 18W 830
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K

Tender texts		Document name
	Tender documents	LED TUBE T5 EXTERNAL P 1449 mm 18W 830-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854015151	Sleeve 1	1,465 mm x 20 mm x 20 mm	159.00 g	0.59 dm³
4099854015168	Shipping box 25	1,522 mm x 152 mm x 175 mm	5300.00 g	40.49 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](http://www.ledvance.com/ledtube)

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