PRODUCT DATASHEET
LED TUBE T5 AC HE28 PERFORMANCE 1149 mm 16W 830

LED TUBE T5 AC MAINS PERFORMANCE | LED tubes for operation on AC mains

PERFOR-
MANCE
CLASS

Areas of application

- General illumination within ambient temperatures from -20…+45 °C
- Offices, public buildings
- Supermarkets and department stores
- Industry

Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- High luminous flux for sophisticated lighting tasks

Product features

- LED replacement for T5 fluorescent lamps with G5 base on AC mains
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- High color consistency: ≤ 5 sdcm
- Lifetime up to 50,000 h
- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM ≤ 1)
- Type of protection: IP20

TECHNICAL DATA

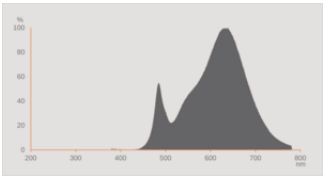
Electrical data

Nominal wattage	16 W
Construction wattage	16.00 W
Nominal voltage	220…240 V
Operating mode	AC Mains
Nominal current	75 mA
Type of current	AC
Inrush current	11 A
Suitable for DC input	Yes
Input voltage DC	186…260 V [1)]
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	40
Max. lamp number on MCB B16 A	48
Total harmonic distortion	20 %

1) Permitted voltage range

Photometrical data

Luminous flux	2150 lm
Nominal useful luminous flux 90°	2150 lm
Luminous efficacy	134 lm/W
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	≥80
Light color	830
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4



EPREL data spectral diagram PROF LEDr 3000K

Dimensions & Weight

Overall length	1163.00 mm
Length with base excl. base pins/connection	1149.00 mm
Diameter	19.00 mm
Tube diameter	16 mm
Product weight	155.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+45 °C [1)]
Maximum temperature at tc test point	75 °C
Performance temp. acc. to IEC 62717	60 °C [2)]

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

2) Tp rated. Tp point coincides with Tc point - marked on device

Lifespan

Lifespan L70/B50 at 25 °C	50000 h
Lifespan L80/B50 at 25 °C	50000 h

Additional product data

Base (standard designation)	G5
Mercury-free	Yes
Design / version	Frosted

Certificates & Standards

Energy efficiency class	E [1)]
Type of protection	IP20
Standards	CE / UKCA / EAC
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 AC H

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	MLS
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
Networked standby power for CLS	0 W
Claim of equivalent power	No
Length	1163.00 mm
Height	19.00 mm
Width	19.00 mm
Chromaticity coordinate x	0.434
Chromaticity coordinate y	0.403
R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.90

LED light source replaces a fluorescent light source	No
EPREL ID	1408603,2209902
Model number	AC46715,AC71277

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.
- 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.
- After rewiring of a luminaire the installer will be responsible for all technical and safety consequences.
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.
- Lamp not suitable for emergency operation.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LED TUBE T5 AC MAINS
PDF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LED TUBE T5 AC
PDF	Declarations of conformity	LEDTUBE
PDF	Declarations of conformity UKCA	LED TUBE T5 AC
PDF	Declarations of conformity UKCA	LEDTUBE

	Photometric and lighting design files	Document name
IES	IES file (IES)	LEDTUBE T5 AC HE28 P 1149 16W 830 LEDV
LDT	LDT file (Eulumdat)	LEDTUBE T5 AC HE28 P 1149 16W 830 LEDV
	UGR file (UGR table)	LEDTUBE T5 AC HE28 P 1149 16W 830 LEDV

	Photometric and lighting design files	Document name
	Light distribution curve type polar	LEDTUBE T5 AC HE28 P 1149 16W 830 LEDV
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K

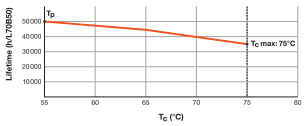
	Tender texts	Document name
	Tender documents	LED TUBE T5 AC MAINS P 1149 mm 16W 830-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075824294	Sleeve 1	1,165 mm x 20 mm x 24 mm	173.00 g	0.56 dm^3
4058075824300	Shipping box 10	1,245 mm x 140 mm x 85 mm	2200.00 g	14.82 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

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