PRODUCT DATASHEET
LED TUBE T5 AC HE28 PERFORMANCE 1149 mm 16W 840

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

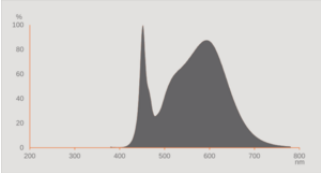
Nominal wattage	16 W
Nominal voltage	220…240 V
Operating mode	AC Mains
Nominal current	75 mA
Type of current	AC
Inrush current	11 A
Suitable for DC input	Yes
Input voltage DC	186…260 V [1)]
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	40
Max. lamp number on MCB B16 A	48
Total harmonic distortion	20 %
Power factor λ	> 0.90

1) Permitted voltage range

Photometrical data

Luminous flux	2400 lm
Luminous efficacy	150 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
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

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EPREL data spectral diagram PROF LEDr 4000K

Light technical data

Beam angle	190 °
Warm-up time (60 %)	‹ 2.00 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	1163.00 mm
Length with base excl. base pins/connection	1149.00 mm
Diameter	19.00 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
Number of switching cycles	200000

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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
Design / version	Frosted

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	D [1)]
Energy consumption	16.00 kWh/1000h
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

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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	0.382
Chromaticity coordinate y	0.380
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	1408604,2209901
Model number	AC46716,AC71278

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 2026 10 EN
PDF	Extended installation guide	LEDVANCE Luminaire conversion checklist
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LED TUBE T5 AC
PDF	Declarations of conformity	LEDTUBE

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	Documents and certificates	Document name
PDF	Declarations of conformity UKCA	LED TUBE T5 AC
PDF	Declarations of conformity UKCA	LEDTUBE
PDF	Certificates	LED TUBE T5 AC HE28 1149 16W 8XX
PDF	Certificates	LED TUBE T5 AC HE28 1149 16W 8XX
PDF	Certificates	LED TUBE T5 AC HE28 1149 16W 8XX
PDF	EPD	EPD EN LED TUBE T5 AC MAINS P

	Photometric and lighting design files	Document name
IES	IES file (IES)	LEDTUBE T5 AC HE28 P 1149 16W 840 LEDV
LDT	LDT file (Eulumdat)	LEDTUBE T5 AC HE28 P 1149 16W 840 LEDV
	UGR file (UGR table)	LEDTUBE T5 AC HE28 P 1149 16W 840 LEDV
	Light distribution curve type polar	LEDTUBE T5 AC HE28 P 1149 16W 840 LEDV
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

	Tender texts	Document name
TXT	Tender documents	LED TUBE T5 AC MAINS P 1149 mm 16W 840-EN

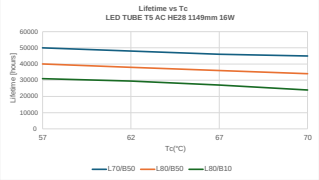
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075824317	Sleeve 1	1,165 mm x 20 mm x 24 mm	173.00 g	0.56 dm^3
4058075824324	Shipping box 10	1,245 mm x 140 mm x 85 mm	2280.00 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.

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ADDITIONAL CATALOG INFORMATION



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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