

PRODUCT DATASHEET LED TUBE T8 HF PERFORMANCE 1200 mm 14W 840

LED TUBE T8 HF PERFORMANCE | LED tubes for electronic high frequency control gear (ECG), shatterproof



Areas of application

- General illumination within ambient temperatures from -20...+45 $^{\circ}\text{C}$
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

Product benefits

- No bending thanks to glass tube
- Shatter protection thanks to special PET coating
- Very high resistance to switching loads
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 66 % (compared to T8 fluorescent lamp)
- Also suitable for operation at low temperatures

Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in ECG luminaires
- Compatible with many common electronic control gears (see also compatibility list)
- Low flicker according to EU 2019-2020 (SVM \leq 0.4 / PstLM \leq 1)
- Lamp tube made of glass with splinter protection
- For especially uniform illumination



mm 14W 840



- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime up to 75,000 h

TECHNICAL DATA

Electrical data

Nominal wattage	14 W
Construction wattage	14.00 W
Nominal voltage	4065 V
Operating mode	ECG 1)
Nominal current	350 mA
Type of current	AC
Inrush current	15 A
Operating frequency	3575 kHz
Mains frequency	3575 kHz
Max. lamp number on MCB B10 A	17
Max. lamp number on MCB B16 A	28
Total harmonic distortion	< 10 %
Power factor λ	0.90

¹⁾ Check ECG compatibility at ledvance.com/compatibility

Photometrical data

Luminous flux	2100 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	0.90
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	≤0.4



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	1211.00 mm
Length with base excl. base pins/connection	1200.00 mm
Diameter	27.80 mm
Product weight	238.00 g

Temperatures & operating conditions

Ambient temperature range	-20+45 °C ¹⁾
Maximum temperature at tc test point	70 °C
Performance temp. acc. to IEC 62717	50 °C ²⁾

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

Lifespan

Lifespan L70/B50 at 25 °C	75000 h
Lifespan L80/B50 at 25 °C	75000 h
Number of switching cycles	200000

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

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	

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Ī	Mercury content	0.0 mg
	Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	D 1)
Energy consumption	14.00 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 (lowest efficiency)

Country-specific categorizations

Temperature range at storage

Order reference	LEDTUBE T8 HF P
LOGISTICAL DATA	

-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)	G13
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
Claim of equivalent power	No

Length	1211.00 mm
Height	27.80 mm
Width	27.80 mm
Chromaticity coordinate x	0.3818
Chromaticity coordinate y	0.3797
R9 Colour rendering index	' 0
Beam angle correspondence	SPHERE_360
Survival factor	` 0.9
Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1317752
Model number	AC42562

Safety advice

- Not suitable for operation with low-loss and conventional control gears and main voltage.
- 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.
- All electrical connections must be made by a qualified person.
- Not suitable for emergency lighting.

DOWNLOAD DATA

	Documents and certificates	Document name	
PDF	User instruction / safety instructions	LEDTUBE T8 HF Ledvance	
POF	Legal information	Informationstext 18 Abs 4 ElektroG	
POF	Declarations of conformity	LED TUBES T8 HF/UN	
POF	Declarations of conformity UKCA	LED TUBES T8 HF/UN UKCA	
PDF	ECG compatibility list	Ballast compatibility LEDVANCE LED TUBE T5 HF_T8 HF_T8 UNIVERSAL 2025	
	Photometric and lighting design files	Document name	

Photometric and lighting design files	Document name
IES file (IES)	LEDTUBE T8 HF P 1200 14W 840 LEDV

Photometric and lighting design files	Document name
LDT file (Eulumdat)	LEDTUBE T8 HF P 1200 14W 840 LEDV
UGR file (UGR table)	LEDTUBE T8 HF P 1200 14W 840 LEDV
Light distribution curve type polar	LEDTUBE T8 HF P 1200 14W 840 LEDV
Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

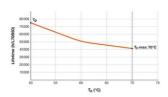
Tender texts	Document name
Tender documents	LED TUBE T8 HF P 1200 mm 14W 840-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854025938	Sleeve 1	1,220 mm x 31 mm x 31 mm	261.00 g	1.17 dm ³
4099854025945	Shipping box 10	1,272 mm x 210 mm x 115 mm	3243.00 g	30.72 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

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.