PRODUCT DATASHEET
LED TUBE T8 EM CONNECTED ZIGBEE 1500 mm 23W 840

LED TUBE T8 EM CONNECTED GEN 3 | LED tube for electromagnetic control gear (CCG) works with Connected Sensors, shatterproof



PERFOR-
MANCE
CLASS

Areas of application

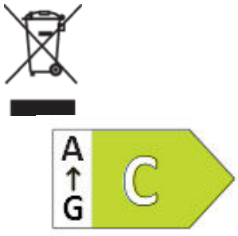
- General illumination within ambient temperatures from -20…+50 °C
- Parking lots, warehouses, production areas
- Industry

Product benefits

- Easy to install and set up via smartphone in minutes
- No gateway, cloud, or registration required

Product features

- Operates with LEDVANCE CONNECTED SENSOR DIRECT ZB
- Easy installation and control - with LEDVANCE DIRECT EASY App
- Compatible with EM (CCG) ballast or direct mains
- Very long lifetime: up to 75,000 h



TECHNICAL DATA

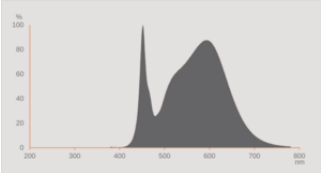
Electrical data

Nominal wattage	23 W
Nominal voltage	220…240 V
Operating mode	CCG, AC Mains
Nominal current	100 mA
Type of current	AC
Inrush current	20.3 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	13
Max. lamp number on MCB B10 A - CCG without compensation	23
Max. lamp number on MCB B10 A - CCG with compensation	14
Max. lamp number on MCB B16 A	21
Max. lamp number on MCB B16 A - CCG without compensation	37
Max. lamp number on MCB B16 A - CCG with compensation	27
Maximum total harmonic distortion	< 30 %
Power factor λ	0.90

Photometrical data

Luminous flux	3700 lm
Nominal useful luminous flux 90°	3700 lm
Luminous efficacy	160 lm/W
Lumen main.fact.at end of nom.life time	0.96
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
Stroboscope effect metric (SVM)	0.4

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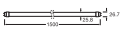


EPREL data spectral diagram PROF LEDr 4000K

Light technical data

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

Dimensions & Weight



Overall length	1513.00 mm
Length with base excl. base pins/connection	1500 mm
Diameter	26.70 mm
Product weight	278.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C [1)]
Maximum temperature at tc test point	78 °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	0.96
Rated lamp survival factor at 6,000 h	≥ 0.90

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Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

Capabilities

Dimmable	Yes [1)]

1) Only dimmable with LEDVANCE Connected Sensor

Certificates & Standards

Energy efficiency class	C [1)]
Energy consumption	23.00 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 T8EM CO

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)	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
Networked standby power for CLS	0.50 W
Claim of equivalent power	No

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Length	1513.00 mm
Height	26.70 mm
Width	26.70 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	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	2299236
Model number	AC56413

Required Accessories and Components

Product image	Product name	EAN
	CONNECTED SENSOR LOW BAY ZIGBEE	4099854501890
	CONNECTED SENSOR HIGH BAY ZIGBEE	4099854501838

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.
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.
- Not suitable for emergency lighting.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LED Tube
PDF	Extended installation guide	Connected tube system user guide

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	Documents and certificates	Document name
PDF	Legal information	Safety insert_G11244640
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LEDTUBE T8EM CON ZB P
PDF	Declarations of conformity UKCA	LEDTUBE T8EM CON ZB P
PDF	Certificates	LEDTUBE T8EM CON ZB P 1500 23W
PDF	Certificates	LEDTUBE T8EM CON ZB P 1500 23W
PDF	Certificates	LEDTUBE T8EM CON ZB P 1500 23W

	Photometric and lighting design files	Document name
IES	IES file (IES)	LEDTUBE T8EM CON ZB P 1500 23W 840 LEDV
LDT	LDT file (Eulumdat)	LEDTUBE T8EM CON ZB P 1500 23W 840 LEDV
	Light distribution curve type polar	LEDTUBE T8EM CON ZB P 1500 23W 840 LEDV
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

	Tender texts	Document name
TXT	Tender documents	LED TUBE T8 EM CONNECTED GEN 3 1500 mm 23W 840-en

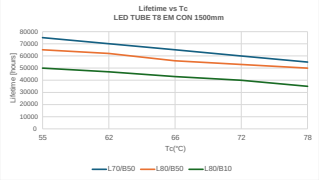
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854577970	Sleeve 1	1,605 mm x 29 mm x 29 mm	312.00 g	1.35 dm^3
4099854577987	Shipping box 10	1,635 mm x 175 mm x 95 mm	3762.00 g	27.18 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 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.

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