

PRODUCT DATASHEET LED TUBE T8 EM ULTRA OUTPUT HIGHBAY 1500 mm 22.1W 840

LED TUBE T8 EM ULTRA OUTPUT HIGHBAY | High performance LED tubes for electromagnetic control gear (CCG) and AC mains, and for high bay applications



Areas of application

- General illumination within ambient temperatures from -20...+50 $^{\circ}\text{C}$
- Storage and (high bay) warehouses
- Illumination of production areas
- Industry

Product benefits

- Very high illuminance level compared to standard LED tubes
- Very high resistance to switching loads
- High luminous flux for sophisticated lighting tasks
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 62 % (compared to T8 fluorescent lamp)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Also suitable for operation at low temperatures

Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Narrow beam angle: 90°
- Rotatable end caps





- Low flicker according to EU 2019-2020 (SVM ≤ 0.4 / PstLM \leq 1)
- ENEC 10 VDE mark
- Lifetime up to 75,000 h
- Type of protection: IP20
- Mercury-free and RoHS compliant

TECHNICAL DATA

Electrical data

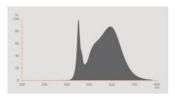
Nominal wattage	22.1 W	
Construction wattage	22.10 W	
Nominal voltage	220240 V	
Operating mode	CCG, AC Mains	
Nominal current	105 mA	
Type of current	AC	
Inrush current	9.92 A	
Suitable for DC input	Yes	
Input voltage DC	186260 V	
Operating frequency	50/60 Hz	
Mains frequency	50/60 Hz ¹⁾	
Max. lamp number on MCB B10 A	4	
Max. lamp number on MCB B10 A - CCG without compensation	30	
Max. lamp number on MCB B10 A - CCG with compensation	3	
Max. lamp number on MCB B16 A	6	
Max. lamp number on MCB B16 A - CCG without compensation	48	
Max. lamp number on MCB B16 A - CCG with compensation	5	
Total harmonic distortion	11 %	
Power factor λ	0.90	

¹⁾ DC 0Hz

Photometrical data

Luminous flux	4100 lm
Luminous efficacy	185 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	0.80
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	90 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	1514.00 mm
Length with base excl. base pins/connection	1500.00 mm
Diameter	28.00 mm
Product weight	320.00 g

Temperatures & operating conditions

Ambient temperature range	-20+50 °C ¹⁾	
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	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		
Additional product data			
Base (standard designation)	G13		
Mercury content	0.0 mg		
Mercury-free	Yes	Yes	
Capabilities			
Dimmable	No		
Certificates & Standards			
Energy efficiency class	B 1)		
Energy consumption	23.00 kWh/1000h		
Type of protection	IP20		
	CE / UKCA / VDE / ENEC / EAC		
Standards			
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No

Claim of equivalent power

Length	1514.00 mm	
Height	28.00 mm	
Width	28.00 mm	
Chromaticity coordinate x	0.3818	
Chromaticity coordinate y	0.3797	
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	1879595	
Model number	AC59261,AC59261	

EQUIPMENT / ACCESSORIES

- Replacement starter for LED tubes

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.
- Not suitable for emergency lighting.
- Disconnect mains before installation.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LEDTUBE T8 EM UO HB S
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LED tube
PDF	Declarations of conformity UKCA	LED tubes
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Photometric and lighting design files	Document name
IES file (IES)	LEDTUBE T8 EM UO HB S 1500 22.1W 840

Photometric and lighting design files		Document name
IES file (IES)		LEDTUBE T8 EM UO HB S 1500 22.1W 840
LDT file (Eulumdat)		LEDTUBE T8 EM UO HB S 1500 22.1W 840
LDT file (Eulumdat)		LEDTUBE T8 EM UO HB S 1500 22.1W 840
UGR file (UGR table)		LEDTUBE T8 EM UO HB S 1500 22.1W 840
Light distribution curve type cone		LEDTUBE T8 EM UO HB S 1500 22.1W 840
Light distribution curve type polar		LEDTUBE T8 EM UO HB S 1500 22.1W 840
Light distribution curve type polar		LEDTUBE T8 EM UO HB \$ 1500 22.1W 840
Spectral power distribution		EPREL data spectral diagram PROF LEDr 4000K
Tender texts Document name		
Tender documents LED TUBE T8 EM ULTF		TRA OUTPUT HIGHBAY S 1500 mm 22.1W 840-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854258671	Sleeve 1	1,555 mm x 29 mm x 29 mm	354.00 g	1.31 dm ³
4099854258688	Shipping box 10	1,590 mm x 170 mm x 95 mm	4291.00 g	25.68 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.

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.