

PRODUCT DATASHEET

SubstiTUBE T8 EM Value 18.3 W/4000 K 1500 mm

SubstiTUBE T8 EM VALUE | Economic LED tubes for electromagnetic control gears (CCG)



Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Industry
- Warehouses
- Cooling and storage rooms
- Domestic applications
- Supermarkets and department stores

Product benefits

- No bending thanks to glass tube
- Energy savings of up to 68 % (compared to T8 fluorescent lamp on CCG)
- Quick, simple and safe replacement without rewiring
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads
- 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
- Low flicker according to EU 2019-2020 (SVM $\leq 0,4$ / PstLM ≤ 1)
- Single and tandem operation on conventional control gear (0.6 m version)
- Tube made of glass
- Mercury-free and RoHS compliant



- Uniform illumination
- Type of protection: IP20

TECHNICAL DATA

Electrical data

Nominal wattage	18,3 W
Construction wattage	18.30 W
Nominal voltage	220...240 V
Nominal current	90 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	19
Max. lamp no. on circuit break. B10 A - CCG without compensation [PIM]	22
Max. lamp no. on circuit break. B10 A - CCG with compensation [PIM]	5
Max. lamp no. on circuit break. 16 A (B)	24
Max. lamp no. on circuit break. B16 A -CCG without compensation [PIM]	27
Max. lamp no. on circuit break. B16 A -CCG with compensation [PIM]	7
Total harmonic distortion	52 %
Power factor λ	> 0,90

Photometrical data

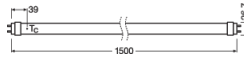
Luminous flux	2200 lm
Luminous efficacy	120 lm/W
Lumen main.fact.at end of nom.li	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥ 80
Light color	840
Standard deviation of color matching	≤ 6 sdcn
Rated LLMF at 6,000 h	0.80
Valoare pãlpãire Pst LM	1
Valoare efect stroboscopic SVM	0.4



Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak valu	190.00 °

Dimensions & Weight



Construction length [PICOS]	1513.00 mm
Diameter	26,70 mm
Tube diameter	26,7 mm
Maximum diameter	27 mm
Product weight	230,00 g

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	65 °C

Lifespan

Nominal life time	30000 h
Number of switching cycles	200000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,	≥ 0.90

Additional product data

Base (standard designation)	G13
Lamp mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	E ¹⁾
Energy consumption	19.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC
Photobio. safety group a EN62778	RG0

¹⁾ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

Country-specific categorizations

Order reference	LEDTUBE T8 EM V
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LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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Date privind reglementarea etichetării energetice (EU 2019/2015)

Tehnologia de iluminat utilizată	LED
Nedirecțională sau direcțională	NDLS
Cu alimentare de la rețea sau nealimentată de la rețea	MLS
Tipul de soclu al sursei de lumină (sau altă interfață electrică)	G13
Sursă de lumină conectată (SLC)	No
Sursă de lumină cu posibilitatea de reglare a culorilor	No
Anvelopă	No
Surse de lumină cu lăminanță mare	No
Protecție antireflexie	No
Tip de temperatură de culoare corelată	SINGLE_VALUE
Puterea în modul standby	0 W
Declarație de putere echivalentă	No
Length	1513.00 mm
Height (incl. cylin. luminaires) [calc.]	26.70 mm
Width (incl. round luminaires) [Calc.]	26.70 mm

Coordonata X a diagramei cromatica a culorilor	0.382
Coordonata Y a diagramei cromatica a culorilor	0.380
Valoarea indicelui de redare a culorilor R9	0.00
Correspondență unghi fascicul	SPHERE_360
Factorul de supraviețuire	0.90
Factorul de defazaj	0.90
Sursa de lumină LED care înlocuiește o lumină fluorescentă	No
EPREL ID	563369,996634
Model number	AC35009,AC38672






EQUIPMENT / ACCESSORIES

- Suitable for operation with low-loss and conventional control gears

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.

DOWNLOAD DATA

DOWNLOAD DATA	
	User instruction
	User instruction
	Declarations Of Conformity CE
	Installation guide
	Installation guide

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075611757	Sleeves 1	1,555 mm x 29 mm x 29 mm	264.00 g	1.31 dm ³