

PRODUCT DATASHEET

SubstiTUBE T8 EM Advanced Ultra Output 15.6 W/4000 K 1200 mm

SubstiTUBE T8 EM ADVANCED ULTRA OUTPUT | LED tubes for electromagnetic control gear (CCG)



Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores

Product benefits

- No bending thanks to glass tube
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (compared to T8 fluorescent lamp on CCG)
- Very high resistance to switching loads
- High luminous flux for sophisticated lighting tasks
- Also suitable for operation at low temperatures
- Instant-on light, therefore ideally suitable in combination with sensor technology

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)
- Tube made of glass
- For especially uniform illumination



- Mercury-free and RoHS compliant
- Type of protection: IP20

TECHNICAL DATA

Electrical data

Nominal wattage	15,6 W
Construction wattage	15.60 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	36 W
Nominal current	74 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	61
Max. lamp no. on circuit break. B10 A - CCG without compensation [PIM]	61
Max. lamp no. on circuit break. B10 A - CCG with compensation [PIM]	13
Max. lamp no. on circuit break. 16 A (B)	97
Max. lamp no. on circuit break. B16 A -CCG without compensation [PIM]	97
Max. lamp no. on circuit break. B16 A -CCG with compensation [PIM]	21
Total harmonic distortion	20 %
Power factor λ	> 0,90

Photometrical data

Luminous flux	2500 lm
Luminous efficacy	160 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	83
Light color	840
Standard deviation of color matching	≤ 5 sdc _m
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]	1212.00 mm
Diameter	26,70 mm
Tube diameter	25.3 mm
Maximum diameter	27 mm
Product weight	175,00 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	70 °C

Lifespan

Nominal life time	50000 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
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Lamp mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	C 1)
Energy consumption	16.00 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 A
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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
Declarație de putere echivalentă	No
Length	1212.00 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

