

PRODUCT DATASHEET

LED TUBE T8 EM FOOD P 600 mm 5.2W 833

LED TUBE T8 EM FOOD P | LED tubes for electromagnetic control gear (CCG) and AC mains, shatterproof, for food presentation



Areas of application

- Food presentation in e.g. butchers, bakeries, supermarkets or meat processors
- Suitable for ambient temperatures of -20 to +50° C

Product benefits

- Food looks fresh and appetizing without unduly “beautifying” it
- Quick, simple and safe replacement of fluorescent lamps without rewiring the CCG
- Energy savings of up to 74 % (compared to T8 fluorescent lamp)
- Shatter protection thanks to special PET coating
- Support the implementation of the HACCP concepts from production through to presentation
- No bending thanks to glass tube
- Also suitable for operation at low temperatures

Product features

- Specially tailored spectral distribution (comparable to T8 FL NATURA 76)
- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- ENEC 10 VDE mark
- Type of protection: IP20



- Mercury-free and RoHS compliant

TECHNICAL DATA

Electrical data

Nominal wattage	5,2 W
Construction wattage	5.20 W
Nominal voltage	220...240 V
Operating mode	CCG, AC Mains
Nominal current	24 mA
Type of current	AC
Inrush current	2.92 A
OSR - Suitable for DC input	Yes
Input voltage DC	186...260 V
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	205
Max. lamp no. on circuit break. B10 A - CCG without compensation [PIM]	87
Max. lamp no. on circuit break. B10 A - CCG with compensation [PIM]	30
Max. lamp no. on circuit break. 16 A (B)	257
Max. lamp no. on circuit break. B16 A - CCG without compensation [PIM]	109
Max. lamp no. on circuit break. B16 A - CCG with compensation [PIM]	35
Total harmonic distortion	< 20 %
Power factor λ	> 0,90

Photometrical data

Luminous flux	500 lm
Luminous efficacy	96 lm/W
Lumen main.fact.at end of nom.li	0.70
Light color (designation)	NATURA
Color temperature	3300 K
Color rendering index Ra	80
Light color	833
Standard deviation of color matching	≤ 6 sdcn
Rated LLMF at 6,000 h	0.80

Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Construction length [PICOS]	603.00 mm
Length with base excl. base pins/connection	600.00 mm
Diameter	26,70 mm
Tube diameter	25,8 mm
Maximum diameter	27 mm
Product weight	100,00 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	60 °C

Lifespan

Lifespan L70/B50 at 25 °C	60000 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 consumption	6.00 kWh/1000h
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Type of protection	IP20
Standards	CE / UKCA / VDE / ENEC / EAC
Photobio. safety group a EN62778	RG0

Country-specific categorizations

Order reference	LEDTUBE T8 EM F
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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 luminanță mare	No
Protecție antireflexie	No
Puterea în modul standby	0 W
Declarație de putere echivalentă	No
Length	603,00 mm
Height (incl. cylin. luminaires) [Calc.]	26.70 mm
Width (incl. round luminaires) [Calc.]	26.70 mm
Coordonata X a diagramei cromatica a culorilor	0.3684
Coordonata Y a diagramei cromatica a culorilor	0.2816
Valoarea indicelui de redare a culorilor R9	70
Corespondență unghi fascicul	SPHERE_360
Factorul de supraviețuire	0.9
Factorul de defazaj	0.9
Sursa de lumină LED care înlocuiește o lumină fluorescentă	No

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.