

# PRODUCT DATASHEET

## ST8PRO-EM 6.7 W/4000K 600 mm

SubstiTUBE PRO EM | High performance LED tubes for electromagnetic control gears, shatterproof



### AREAS OF APPLICATION

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

### PRODUCT BENEFITS

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- Support the implementation of the HACCP concepts from production through to presentation
- 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 63 % (compared to T8 fluorescent lamp on CCG)
- 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
- Low flicker according to EU 2019/2020
- Lamp tube made of glass with splinter protection e.g. for food industry applications



- VDE certified according to IEC62776
- Single and tandem operation on conventional control gear (0.6 m version)
- Lifetime: up to 60,000 h
- Type of protection: IP20
- Mercury-free and RoHS compliant
- For especially uniform illumination

## TECHNICAL DATA

### Electrical data

Rated wattage	6.70 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	6.70 W
Nominal current	0.032 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	141
Max. lamp no. on circuit break. B10 A - CCG without compensation	141
Max. lamp no. on circuit break. B10 A - CCG with compensation	16
Max. lamp no. on circuit break. B16 A - CCG without compensation	225
Max. lamp no. on circuit break. B16 A - CCG with compensation	25
Max. lamp no. on circuit break. 16 A (B)	225
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.90

### Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	1100 lm
Rated luminous flux	1100 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	1100 lm
Color rendering index Ra	83
Standard deviation of color matching	$\leq 5$ sdc <sub>m</sub>

### Light technical data

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

Dimensions & weight



<b>Length with base excl. base pins/connection</b>	600.00 mm
<b>Tube diameter</b>	25.8 mm
<b>Base diameter</b>	26.7 mm
<b>Product weight</b>	100.00 g
<b>Overall length</b>	603.0 mm

Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
<b>Maximum temperature at tc test point</b>	75 °C

Lifespan

<b>Nominal lamp life time</b>	60000 h
<b>Rated lamp life time</b>	60000 h
<b>Number of switching cycles</b>	200000

Additional product data

<b>Base (standard designation)</b>	G13
<b>Mercury-free</b>	Yes

Capabilities

<b>Dimmable</b>	No
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Certificates & standards

<b>Type of protection</b>	IP20
<b>Standards</b>	CE; VDE
<b>Energy efficiency class</b>	A++
<b>Energy consumption</b>	7 kWh/1000h

Country-specific categorizations

<b>Order reference</b>	ST8PRO-0.6M 6,7
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## Logistical data

<b>Temperature range at storage</b>	-20...+80 °C
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**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.

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075454088	Sleeves 1	695 mm x 29 mm x 29 mm	118.00 g	0.58 dm <sup>3</sup>
4058075454095	Shipping carton box 10	742 mm x 210 mm x 115 mm	1612.00 g	17.92 dm <sup>3</sup>

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/substitute](http://www.ledvance.com/substitute)

**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.