

# PRODUCT DATASHEET

## ST8V-EM

SubstiTUBE Value | Economic LED tubes for electromagnetic control gears



---

### AREAS OF APPLICATION

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

---

### PRODUCT BENEFITS

- No bending thanks to glass technology
- Energy savings of up to 65 % (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
- Uniform illumination
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (0.6 m version)
- Tube made of glass



**TECHNICAL DATA**

Electrical data

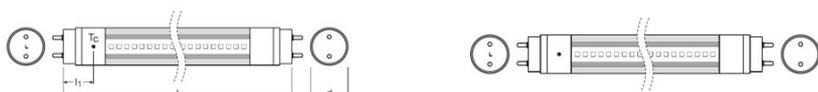
<b>Operating frequency</b>	50...60 Hz
<b>Type of current</b>	AC
<b>Max. lamp no. on circuit break. 10 A (B)</b>	65 / 12 / 70 <sup>1)</sup>
<b>Max. lamp no. on circuit break. 16 A (B)</b>	105 / 20 / 110 <sup>1)</sup>

<sup>1)</sup> Operated with conventional control gear / Operated with conventional control gear incl. compensation capacitor / Operated with direct mains connection (220...240 V)

Photometrical data

<b>Light color (designation)</b>	Cool White
----------------------------------	------------

Dimensions & weight



<b>Length with base excl. base pins/connection</b>	1498.00 mm
<b>Tube diameter</b>	26 mm
<b>Base diameter</b>	27.5 mm

Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+45 °C
<b>Maximum temperature at tc test point</b>	65 °C <sup>1)</sup>

<sup>1)</sup> Maximum at the Tc-point

Lifespan

<b>Lifespan</b>	30000 h
-----------------	---------

Additional product data

<b>Mercury-free</b>	Yes
<b>Product remark</b>	When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system/Not usable in luminaires with serial lamp connection, i.e. more than one tube at one magnetic ballast (tandem circuitry)

Certificates & standards

Type of protection	IP20
Standards	CE

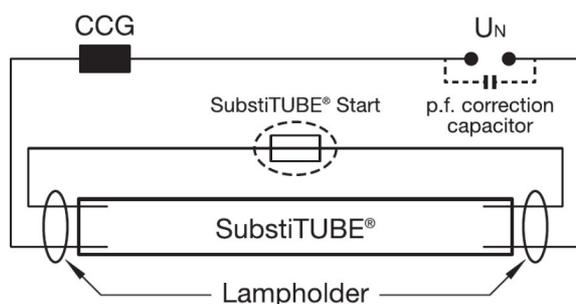
Country-specific categorizations

ILCOS	DR-20/840-G13-26/1500
-------	-----------------------

Logistical data

Temperature range at storage	-20...+80 °C
------------------------------	--------------

Wiring Diagram



Wiring diagram

EQUIPMENT / ACCESSORIES

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

SAFETY ADVICE

Not suitable for operation with electronic control gear.

The Tc Point is located underneath the product label on the front side of the lamp.

Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

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.