

## OSRAM SubstiTube Value ST8V-EM 8W 0.6m

SubstiTUBE Value | Economical LED tubes



### Areas of application

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

### Product benefits

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 65 % (compared to T8 fluorescent lamp on CCG)
- 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 alternative to classic T8 fluorescent lamps in CCG luminaires
- Integrated ECG with high power factor
- Uniform illumination
- Lifetime: up to 30,000 h
- Wide beam angle: 220°
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Tube made of glass



## Technical data

### Electrical data

Nominal wattage	8.00 W
Rated wattage	8.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal current	0.036 A
Type of current	AC
Max. tube no. on circuit break. 10 A (B)	170 / 20 / 180 <sup>1)</sup>
Max. tube no. on circuit break. 16 A (B)	280 / 30 / 290 <sup>1)</sup>
Power factor $\lambda$	> 0.90
Rated lamp efficacy (standard condition)	100 lm/W

<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

Light color (designation)	Cool Daylight
Available Color temperature	3000K/4000K/6500 K
Nominal luminous flux	800 lm
Rated luminous flux	800 lm
Color rendering index Ra	>80
Standard deviation of color matching	≤6 sdcn

### Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	220.00 °

# Product datasheet

## Dimensions & weight

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Overall length	603.0 mm
Length with base excl. base pins/connection	589.00 mm
Tube diameter	26 mm
Base diameter	27.5 mm
Product weight	110.00 g
Maximum diameter	28.0 mm

## Temperatures & operating conditions

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

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

## Lifespan

Nominal lamp life time	30000 h
Rated lamp life time	30000 h
Lumen main.fact.at end of nom.life time	0.70
Number of switching cycles	200000

## Additional product data

Base (standard designation)	G13
Mercury-free	Yes
Product remark	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)

## Capabilities

Dimmable	No
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# Product datasheet

## Certificates & standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A+
Energy consumption	8 kWh/1000h

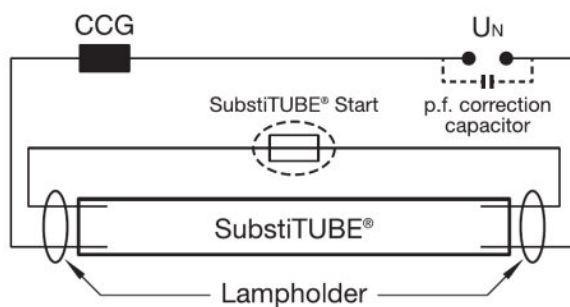
## Country specific categorizations

ILCOS	DR-8/865-G13-26/590
Order reference	ST8V-0.6M 8W/86

## Logistical data

Temperature range at storage	-20...80 °C
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## Wiring Diagram



Wiring diagram

## Equipment / Accessories

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

## Product datasheet

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### 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.

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### References / Links

For current information see

- ▶ [www.ledvance.com/substitute](http://www.ledvance.com/substitute)
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### 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.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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