

ST8A-EM 7.3 W/840 600 mm

SubstiTUBE Advanced | High performance LED tubes for electromagnetic control gears



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

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (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
- Extremely break resistant thanks to aluminum heat sink and polycarbonate cover

Product features

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Bright, robust and durable
- Uniform illumination
- Single and tandem operation on conventional control gear (0.6 m version)
- Wide beam angle: 160° (0.6 m), 150° (1.2 m, 1.5 m)
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Integrated ECG with high power factor



Product datasheet

Technical data

Electrical data

Nominal wattage	7.30 W
Rated wattage	7.30 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal current	0.035 A
Type of current	AC
Max. tube no. on circuit break. 10 A (B)	190
Max. tube no. on circuit break. 16 A (B)	300
Power factor λ	> 0.90
Rated lamp efficacy (standard condition)	150 lm/W

Photometrical data

Light color (designation)	Cool White
Color temperature	4000 K
Nominal luminous flux	1050 lm
Rated luminous flux	1050 lm
Color rendering index Ra	>80
Standard deviation of color matching	≤ 4 sdc _m

Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	160.00 °

Dimensions & weight



Overall length	603.0 mm
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Product datasheet

Length with base excl. base pins/connection	589.00 mm
Tube diameter	27.3 mm
Base diameter	27.3 mm
Product weight	84.00 g
Maximum diameter	28.0 mm

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	70 °C ¹⁾

¹⁾ Maximum at the Tc-point

Lifespan

Nominal lamp life time	50000 h
Rated lamp life time	50000 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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Certificates & standards

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

Country specific categorizations

ILCOS	DR-7,3/840-G13-27.5/590
Order reference	ST8A-0.6M 7,3W/

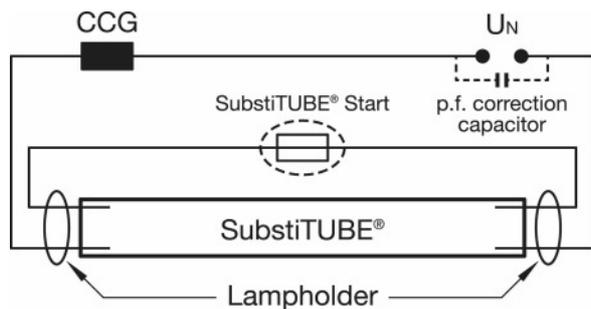
Logistical data

Product datasheet

Temperature range at storage

-25...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.

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

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899956087	ST8A-EM 7.3 W/840 600 mm	Shipping carton box 25	726 mm x 166 mm x 182 mm	21.93 dm ³	3564.00 g

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.

Product datasheet

References / Links

For current information see

▶ 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.