PRODUCT DATASHEET
ST8A-EM 20.6 W/4000 1500 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

- No bending thanks to glass technology
- 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

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)
- Tube made of glass
- Mercury-free and RoHS compliant



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- Type of protection: IP20
- Integrated ECG with high power factor

TECHNICAL DATA

Electrical data

Nominal wattage	20.60 W
Rated wattage	20.60 W
Nominal voltage	220…240 V
Operating frequency	50…60 Hz
Nominal current	0.095 A
Type of current	AC
Power factor λ	> 0.90

Photometrical data

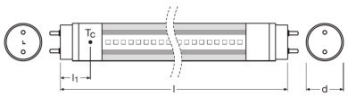
Light color (designation)	Cool White
Rated color temperature	4000 K
Nominal luminous flux	3100 lm
Rated luminous flux	3100 lm
Color rendering index Ra	>80
Lumen main.fact.at end of nom.life time	0.70
Color temperature	4000 K
Luminous flux	3100 lm
Color rendering index Ra	>80
Standard deviation of color matching	≤4 sdcm

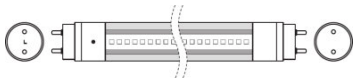
Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	210.00 °

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Dimensions & weight





Length with base excl. base pins/connection	1500.00 mm
Product weight	252.00 g
Overall length	1513 mm

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C

Lifespan

Lifespan	50000 h
Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	200000

Additional product data

Base (standard designation)	G13
Mercury-free	Yes

Capabilities

Dimmable	No

Certificates & standards

Type of protection	IP20
Standards	CE; VDE
Energy efficiency class	A++
Energy efficiency class	A++
Energy consumption	21 kWh/1000h

Country-specific categorizations

ILCOS	DR-20.6/840-G13-25.5/1513

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Order reference	ST8A-1.5M 20,6W

Logistical data

Temperature range at storage	-20…80 °C

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
4058075818170	ST8A-EM 20.6 W/4000 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm^3	3654.00 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.

REFERENCES / LINKS

For current information see
- www.ledvance.com/substitube

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.

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