PRODUCT DATASHEET
ST8A-EM 14 W/4000 K 1200 mm

SubstiTUBE Advanced | 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
- 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
- Shatter protection thanks to special PET coating
- Support the implementation of the HACCP concepts from production through to presentation

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)



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- Tube made of glass
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lamp tube made of glass with splinter protection e.g. for food industry applications

TECHNICAL DATA

Electrical data

Rated wattage	14.00 W
Nominal voltage	220…240 V
Operating frequency	50…60 Hz
Nominal wattage	14.00 W
Nominal current	0.065 A
Type of current	AC
Power factor λ	> 0.90

Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	2100 lm
Rated luminous flux	2100 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	2100 lm
Color rendering index Ra	83
Standard deviation of color matching	≤5 sdcm

Light technical data

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

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Dimensions & weight



Length with base excl. base pins/connection	1200.00 mm
Tube diameter	25.8 mm
Base diameter	26.7 mm
Product weight	200.00 g
Overall length	1212 mm

Temperatures & operating conditions

Ambient temperature range	-25…+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	14 kWh/1000h

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Country-specific categorizations

Order reference	ST8A-1.2M 14W/8

Logistical data

Temperature range at storage	-25...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
4058075136496	ST8A-EM 14 W/4000 K 1200 mm	Shipping carton box 10	1352 mm x 210 mm x 115 mm	32.65 dm^3	2981.00 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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