PRODUCT DATASHEET
ST8A-EM 22 W/4000 K 1200 mm

SubstiTUBE Advanced HE&HO | LED Tubes for electromagnetic control gears application with high efficacy and light output

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 replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- 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

- Type of protection: IP20
- Lamp tube made of glass with splinter protection e.g. for food industry applications

TECHNICAL DATA

Electrical data

Nominal wattage	22 W
Nominal voltage	220…240 V
Nominal current	111 mA
Type of current	AC
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	2800 lm
Luminous efficacy	127 lm/W
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥80
Light color	840

Light technical data

Beam angle	160 °
Starting time	< 0.5 s

Dimensions & Weight

Overall length	1213.60 mm
Diameter	26.90 mm
Base diameter	25,7 mm
Product weight	200.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C

Lifespan

Number of switching cycles	100000

Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No

Certificates & Standards

Type of protection	IP20
Standards	CE

Country-specific categorizations

Order reference	ST8A-1.2M 22W/8

LOGISTICAL DATA

Temperature range at storage	-20…+80 °C

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	1213.60 mm
Height	26.90 mm
Width	26.90 mm

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.

DOWNLOAD DATA

	Photometric and lighting design files	Document name
	IES file (IES)	AC13799 ST8-1.2m-22W840-EM-01
	IES file (IES)	ST8A-1.2M 22W 840 EM
	Light distribution curve type polar	ST8A-1.2M 22W 840 EM

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075207899	Sleeve 1	1,305 mm x 30 mm x 30 mm	233.00 g	1.17 dm^3
4058075320345	Shipping box 10	1,352 mm x 210 mm x 115 mm	2981.00 g	32.65 dm^3
4058075207905	Shipping box 10	1,335 mm x 185 mm x 185 mm	6914.00 g	45.69 dm^3
4099854020667	Shipping box 10	1,335 mm x 180 mm x 95 mm	2720.00 g	22.83 dm^3
4058075320147	Shipping box 10	1,352 mm x 210 mm x 115 mm	2981.00 g	32.65 dm^3

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.