

## PRODUCT DATASHEET

### ST8A-UN 20 W/3000 K 1500 mm

SubstiTUBE Advanced UN | LED tubes for electronic and electromagnetic control gears



#### Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Supermarkets and department stores
- Industry
- Illumination of production areas

#### Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- Also suitable for operation at low temperatures
- High luminous flux for sophisticated lighting tasks
- Easy installation

#### Product features

- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- For especially uniform illumination



## TECHNICAL DATA

### Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	220...240 V
Operating mode	Electronic control gear (ECG), Conventional control gear (CCG), Line voltage
Nominal current	100 mA <sup>1)</sup>
Type of current	AC
Inrush current	37 A
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz <sup>2)</sup>
Max. lamp no. on circuit break. 10 A (B)	43
Max. lamp no. on circuit break. B10 A - CCG without compensation	43
Max. lamp no. on circuit break. B10 A - CCG with compensation	37
Max. lamp no. on circuit break. 16 A (B)	69
Max. lamp no. on circuit break. B16 A - CCG without compensation	69
Max. lamp no. on circuit break. B16 A - CCG with compensation	62
Power factor $\lambda$	> 0.90

1) 480 mA for ECG (HF)

2) 20-75KHz for ECG (HF)

### Photometrical data

Luminous flux	2800 lm
Luminous efficacy	140 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	83
Light color	830
Standard deviation of color matching	≤5 sdcm
Rated LLMF at 6,000 h	0.80

### Light technical data

Beam angle	160 °
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Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

### Dimensions & Weight

Overall length	1500.00 mm
Length with base excl. base pins/connection	1498 mm
Diameter	28.00 mm
Tube diameter	26,7 mm
Base diameter	28,0 mm
Maximum diameter	28 mm
Product weight	297.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	62 °C

### Lifespan

Number of switching cycles	200000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

### Additional product data

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

### Capabilities

Dimmable	No
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### Certificates & Standards

Energy efficiency class	A++ <sup>1)</sup>
Energy consumption	20.00 kWh/1000h
Type of protection	IP20
Standards	CE
Photobiological safety group acc. to EN62778	RG0

<sup>1)</sup> Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

### Country-specific categorizations

Order reference	ST8A-1.5M 20W/8
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## LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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## Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	1500.00 mm
Height	28.00 mm
Width	28.00 mm

## Safety advice

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

## DOWNLOAD DATA

Documents and certificates	
	Installation guide

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075137707	Sleeve 1	1,605 mm x 29 mm x 29 mm	331.00 g	1.35 dm <sup>3</sup>
4058075137714	Shipping box 10	1,652 mm x 210 mm x 115 mm	4250.00 g	39.90 dm <sup>3</sup>

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/substitute](http://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.