

# PRODUCT DATASHEET

## ST8A-UN 20 W/4000K 1500 mm

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



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### AREAS OF APPLICATION

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

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### PRODUCT BENEFITS

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

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### PRODUCT FEATURES

- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime: up to 50,000 h
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- Shatterproof according IEC 61549 AMD 2:2010 -810-1 4.4.1 (Certificate in preparation)
- High color consistency:  $\leq 5$  SDCM



## TECHNICAL DATA

### Electrical data

Rated wattage	20.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz <sup>1)</sup>
Nominal wattage	20.00 W
Nominal current	0.1 A <sup>2)</sup>
Type of current	AC
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. B16 A - CCG without compensation	69
Max. lamp no. on circuit break. B16 A - CCG with compensation	62
Max. lamp no. on circuit break. 16 A (B)	69
Power factor $\lambda$	> 0.90

<sup>1)</sup> 20-75KHz for ECG (HF)

<sup>2)</sup> 480 mA for ECG (HF)

### Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	3100 lm
Rated luminous flux	3100 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	3100 lm
Color rendering index Ra	83
Standard deviation of color matching	≤5 sdcn

### 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



<b>Length with base excl. base pins/connection</b>	1498.00 mm
<b>Tube diameter</b>	26.7 mm
<b>Base diameter</b>	28.0 mm
<b>Product weight</b>	297.00 g
<b>Overall length</b>	1500 mm

Temperatures & operating conditions

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

Lifespan

<b>Lifespan</b>	50000 h
<b>Nominal lamp life time</b>	50000 h
<b>Rated lamp life time</b>	50000 h
<b>Number of switching cycles</b>	200000

Additional product data

<b>Base (standard designation)</b>	G13
<b>Mercury-free</b>	Yes

Capabilities

<b>Dimmable</b>	No
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Certificates & standards

<b>Type of protection</b>	IP20
<b>Standards</b>	CE
<b>Energy efficiency class</b>	A++
<b>Energy consumption</b>	20 kWh/1000h

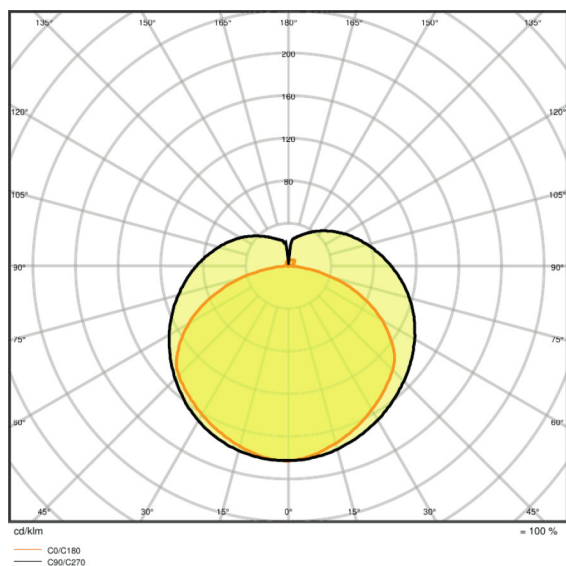
Country-specific categorizations

<b>Order reference</b>	ST8A-1.5M 20W/8
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Logistical data

<b>Temperature range at storage</b>	-20...+80 °C
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Light Distribution



LDC typ polar

SAFETY ADVICE

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

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075137721	Sleeves 1	1605 mm x 29 mm x 29 mm	331.00 g	1.35 dm <sup>3</sup>
4058075137738	Shipping carton box 10	1652 mm x 210 mm x 115 mm	4320.00 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)

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#### 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.

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#### DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.