

PRODUCT DATASHEET

ST8A-UN 7.5 W/6500K 600 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

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

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: ≤ 5 SDCM



TECHNICAL DATA

Electrical data

Rated wattage	7.50 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz ¹⁾
Nominal wattage	7.50 W
Nominal current	0.045 A ²⁾
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	113
Max. lamp no. on circuit break. B10 A - CCG without compensation	113
Max. lamp no. on circuit break. B10 A - CCG with compensation	37
Max. lamp no. on circuit break. B16 A - CCG without compensation	166
Max. lamp no. on circuit break. B16 A - CCG with compensation	62
Max. lamp no. on circuit break. 16 A (B)	166
Power factor λ	0.80

¹⁾ 20-75KHz for ECG (HF)

²⁾ 378 mA for ECG (HF)

Photometrical data

Rated color temperature	6500 K
Nominal luminous flux	1100 lm
Rated luminous flux	1100 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Luminous flux	1100 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



Length with base excl. base pins/connection	598.00 mm
Tube diameter	26.7 mm
Base diameter	28.0 mm
Product weight	139.00 g
Overall length	600.0 mm

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	53 °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
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Certificates & standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A++
Energy consumption	8 kWh/1000h

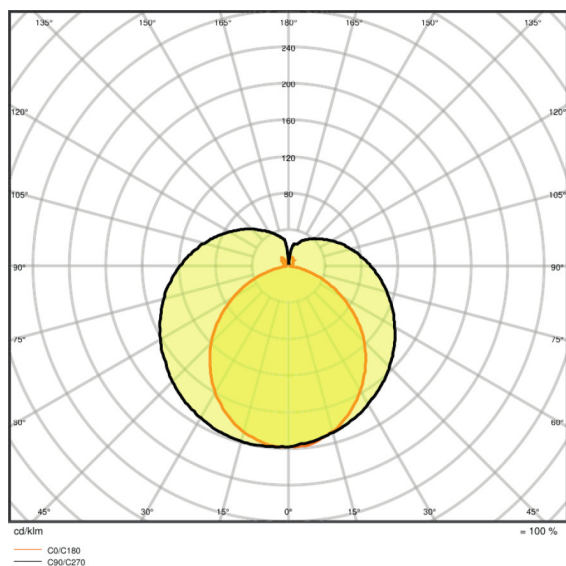
Country-specific categorizations

Order reference	ST8A-0.6M 7,5W/
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Logistical data

Temperature range at storage	-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
4058075137622	Sleeves 1	695 mm x 29 mm x 29 mm	157.00 g	0.58 dm ³
4058075137639	Shipping carton box 10	742 mm x 210 mm x 115 mm	2002.00 g	17.92 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/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.