

PRODUCT DATASHEET

ST8AU-UN 23 W/4000K 1500 mm

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



AREAS OF APPLICATION

- General illumination within ambient temperatures from -25...+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 60,000 h
- Shatterproof according IEC 61549 AMD 2:2010 -810-1 4.4.1 (Certificate in preparation)
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- High color consistency: ≤ 5 SDCM



TECHNICAL DATA

Electrical data

Rated wattage	23.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz ¹⁾
Nominal wattage	23.00 W
Nominal current	0.11 A ²⁾
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 λ	> 0.90

¹⁾ 20-75KHz for ECG (HF)

²⁾ 476 mA for ECG (HF)

Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	3700 lm
Rated luminous flux	3700 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	3700 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	1498.00 mm
Tube diameter	26.7 mm
Base diameter	28.0 mm
Product weight	295.00 g
Overall length	1500 mm

Temperatures & operating conditions

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

Lifespan

Lifespan	60000 h
Nominal lamp life time	60000 h
Rated lamp life time	60000 h
Number of switching cycles	200000

Additional product data

Base (standard designation)	G13
Mercury-free	Yes
Product remark	When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system/Not usable in luminaires with serial lamp connection, i.e. more than one tube at one magnetic ballast (tandem circuitry)

Capabilities

Dimmable	No
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Certificates & standards

Type of protection	IP20
Standards	CE

Energy efficiency class	A++
Energy consumption	23 kWh/1000h

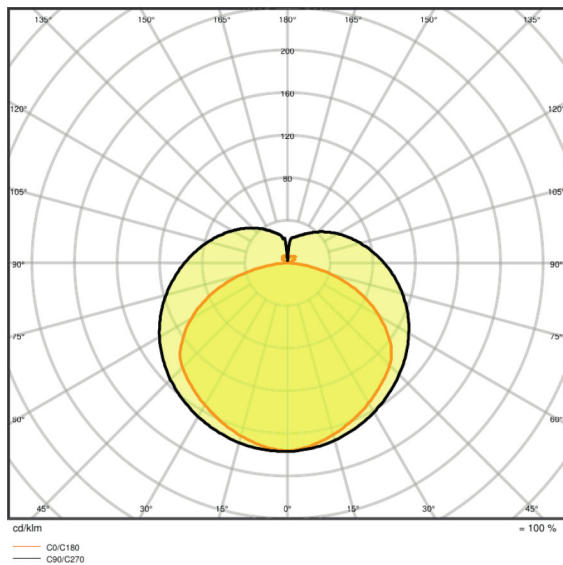
Country-specific categorizations

Order reference	ST8AU-1.5M 23W/
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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
4058075137806	Sleeves 1	1605 mm x 29 mm x 29 mm	329.00 g	1.35 dm ³
4058075137813	Shipping carton box 10	1652 mm x 210 mm x 115 mm	4130.00 g	39.90 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.