

# PRODUCT DATASHEET

## ST8A-UN 16 W/840 K 1200 mm

SubstiTUBE Advanced UO 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
- Offices, public buildings

---

### PRODUCT BENEFITS

- Also suitable for operation at low temperatures
- Excellent luminous flux
- Easy installation

---

### PRODUCT FEATURES

- T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime: up to 60,000 h
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage



**TECHNICAL DATA**

Electrical data

<b>Rated wattage</b>	16.00 W
<b>Nominal voltage</b>	220...240 V
<b>Operating frequency</b>	50...60 Hz
<b>Nominal wattage</b>	16.00 W
<b>Nominal current</b>	0.071 A
<b>Type of current</b>	AC
<b>Power factor <math>\lambda</math></b>	> 0.90

Photometrical data

<b>Rated color temperature</b>	4000 K
<b>Nominal luminous flux</b>	2400 lm
<b>Rated luminous flux</b>	2400 lm
<b>Lumen main.fact.at end of nom.life time</b>	0.70
<b>Light color (designation)</b>	Cool White
<b>Color temperature</b>	4000 K
<b>Luminous flux</b>	2400 lm
<b>Color rendering index Ra</b>	>80
<b>Standard deviation of color matching</b>	$\leq 4$ sdc <sub>m</sub>

Light technical data

<b>Starting time</b>	< 0.5 s
<b>Warm-up time (60 %)</b>	< 2.00 s
<b>Rated beam angle (half peak value)</b>	160.00 °

Dimensions & weight



<b>Length with base excl. base pins/connection</b>	1198.00 mm
<b>Tube diameter</b>	25.5 mm

<b>Base diameter</b>	27.5 mm
<b>Product weight</b>	232.00 g
<b>Overall length</b>	1213 mm

#### Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
----------------------------------	--------------

#### Lifespan

<b>Lifespan</b>	60000 h
<b>Nominal lamp life time</b>	60000 h
<b>Rated lamp life time</b>	60000 h
<b>Number of switching cycles</b>	200000

#### Additional product data

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

<b>Dimmable</b>	No
-----------------	----

#### Certificates & standards

<b>Type of protection</b>	IP20
<b>Standards</b>	CE
<b>Energy efficiency class</b>	A++
<b>Energy consumption</b>	16 kWh/1000h

#### Country-specific categorizations

<b>ILCOS</b>	DR-16/840-G13-25,5/1200
<b>Order reference</b>	ST8AU-1.2M 16W/

#### Logistical data

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

#### 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
4058075818811	Sleeves 1	1319 mm x 36 mm x 29 mm	309.00 g	1.38 dm <sup>3</sup>
4058075818828	Shipping carton box 8	1367 mm x 182 mm x 125 mm	4068.00 g	31.10 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.