

## PRODUCT DATASHEET

### ST8V-UN 19 W/4000 K 1500 mm

SubstiTUBE T8 UNIVERSAL VALUE | LED tubes for electronic control gears (ECG), electromagnetic control gears (CCG) and mains



#### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Warehouses

#### Product benefits

- No bending thanks to glass technology
- Also suitable for operation at low temperatures
- Easy installation

#### Product features

- T8 LED tube made of glass with G13 base
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- Low flicker according to EU 2019/2020
- Uniform illumination
- Lifetime: up to 30,000 h
- Mercury-free lamps



## TECHNICAL DATA

### Electrical data

|  |  |
|--|--|
| Nominal wattage  | 19 W   |
| Construction wattage   | 19.00 W  |
| Nominal voltage  | 220...240 V  |
| Operating mode   | Electronic control gear (ECG), Conventional control gear (CCG), Line voltage |
| Nominal current  | 90 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) 475 mA for ECG (HF)

2) 20-75KHz for ECG (HF)

### Photometrical data

|   |               |
|---|---------------|
| Luminous flux                           | 2000 lm       |
| Luminous efficacy                       | 105 lm/W      |
| Lumen main.fact.at end of nom.life time | 0.70          |
| Light color (designation)               | Cool White    |
| Color temperature                       | 4000 K        |
| Color rendering index Ra                | $\geq 80$     |
| Light color                             | 840           |
| Standard deviation of color matching    | $\leq 6$ sdcM |
| Rated LLMF at 6,000 h                   | 0.80          |

### Light technical data

|            |       |
|------------|-------|
| Beam angle | 160 ° |
|------------|-------|

|                     |          |
|---------------------|----------|
| 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                              | 284.00 g   |

### Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+45 °C |
| Maximum temperature at tc test point | 62 °C        |

### Lifespan

|  |        |
|--|--------|
| Number of switching cycles                   | 100000 |
| 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 |
|----------|----|

### Certificates & Standards

|                         |                 |
|-------------------------|-----------------|
| Energy efficiency class | F 1)            |
| Energy consumption      | 19.00 kWh/1000h |
| Type of protection      | IP20            |
| Standards               | CE              |

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

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | ST8V-1.5M 19W/8 |
|-----------------|-----------------|

## LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

## 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   |
| EPREL ID  | 1582633    |
| Model number  | AC11163    |

## Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The operating temperature range of LED tube is restricted. In case of doubt regarding suitability of the application please measure Tc max temperature on the product prior to installation.
- For operation of LEDTUBE T8 UN with a conventional control gear, the existing starter must be exchanged with the including LED starter in the LED tube packaging.

## DOWNLOAD DATA

### Documents and certificates



Installation guide

### Photometric and lighting design files



IES file (IES)



LDT file (Eulumdat)



LDC typ polar

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075137547 | Sleeve<br>1                  | 1,605 mm x 29 mm x 29 mm             | 318.00 g     | 1.35 dm <sup>3</sup> |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075137554 | Shipping box<br>10           | 1,652 mm x 210 mm x 115 mm           | 4020.00 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.

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### 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.