

# PRODUCT DATASHEET

## SubstiTUBE T5 AC HO80 37 W/3000 K 1449.00 mm

SUBSTITUBE® T5 220-240V AC | LED tubes for operation on AC mains connection



### Areas of application

- Offices, public buildings
- Supermarkets and department stores
- Industry
- General illumination within ambient temperatures from -20...+45 °C

### Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- High luminous flux for sophisticated lighting tasks

### Product features

- LED replacement for T5 fluorescent lamps with G5 base on AC mains
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- High color consistency:  $\leq 5$  SDCM
- Lifetime: up to 50,000 h



- Low flicker according to EU 2019/2020
- Type of protection: IP20

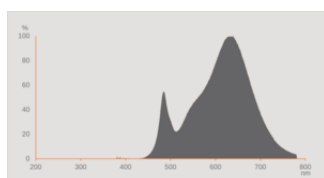
## TECHNICAL DATA

### Electrical data

|                                          |             |
|------------------------------------------|-------------|
| Nominal wattage                          | 37 W        |
| Construction wattage                     | 37.00 W     |
| Nominal voltage                          | 220...240 V |
| Claimed equiv. conventional lamp power   | 80 W        |
| Nominal current                          | 165 mA      |
| Type of current                          | AC          |
| Inrush current                           | 12.6 A      |
| Operating frequency                      | 50/60 Hz    |
| Mains frequency                          | 50/60 Hz    |
| Max. lamp no. on circuit break. 10 A (B) | 27          |
| Max. lamp no. on circuit break. 16 A (B) | 44          |
| Total harmonic distortion                | < 20 %      |
| Power factor $\lambda$                   | > 0.90      |

### Photometrical data

|                                         |               |
|-----------------------------------------|---------------|
| Luminous flux                           | 5050 lm       |
| Luminous efficacy                       | 136 lm/W      |
| Lumen main.fact.at end of nom.life time | 0.70          |
| Light color (designation)               | Warm White    |
| Color temperature                       | 3000 K        |
| Color rendering index Ra                | 83            |
| Light color                             | 830           |
| Standard deviation of color matching    | $\leq 5$ sdcm |
| Flickering metric (Pst LM)              | 1.0           |
| Stroboscope effect metric (SVM)         | 0.4           |



Light technical data

|                                    |          |
|------------------------------------|----------|
| Beam angle                         | 160 °    |
| Warm-up time (60 %)                | < 2.00 s |
| Starting time                      | < 0.5 s  |
| Rated beam angle (half peak value) | 160.00 ° |

Dimensions & Weight



|                  |            |
|------------------|------------|
| Overall length   | 1449.00 mm |
| Diameter         | 19.00 mm   |
| Tube diameter    | 16,0 mm    |
| Maximum diameter | 19 mm      |
| Product weight   | 182.00 g   |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+45 °C |
| Maximum temperature at tc test point | 75 °C        |

Lifespan

|                                     |         |
|-------------------------------------|---------|
| Lifespan                            | 50000 h |
| Number of switching cycles          | 50000   |
| Lumen maintenance at end of serv    | 0.70    |
| Rated lamp survival factor at 6,000 | ≥ 0.90  |

Additional product data

|                             |         |
|-----------------------------|---------|
| Base (standard designation) | G5      |
| Mercury content             | 0.0 mg  |
| Design / version            | Frosted |

Capabilities

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

Certificates & Standards

|                         |   |
|-------------------------|---|
| Energy efficiency class | D |
|-------------------------|---|



|                                              |                 |
|----------------------------------------------|-----------------|
| Energy consumption                           | 37.00 kWh/1000h |
| Type of protection                           | IP20            |
| Standards                                    | CE              |
| Photobiological safety group acc. to EN62778 | RG0             |

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LEDTUBE T5 AC H |
|-----------------|-----------------|

### LOGISTICAL DATA

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

### Energy labelling regulation data acc EU 2019/2015

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Lighting technology used                             | LED             |
| Non-directional or directional                       | NDLS            |
| Mains or non-mains                                   | MLS             |
| Light source cap-type (or other electric interface)  | G5              |
| Connected light source (CLS)                         | No              |
| Color-tuneable light source                          | No              |
| Envelope                                             | No              |
| High luminance light source                          | No              |
| Anti-glare shield                                    | No              |
| Correlated colour temperature type                   | SINGLE_VALUE    |
| Claim of equivalent power                            | No              |
| Length                                               | 1449.00 mm      |
| Height                                               | 19.00 mm        |
| Width                                                | 19.00 mm        |
| Chromaticity coordinate x                            | 0.433           |
| Chromaticity coordinate y                            | 0.403           |
| Beam angle                                           | SPHERE_360      |
| Survival factor                                      | 0.90            |
| Displacement factor                                  | 0.90            |
| LED light source replaces a fluorescent light source | No              |
| EPREL ID                                             | 642839          |
| Model number                                         | AC35124,AC35124 |

### Safety advice

- Not suitable for operation with electronic control gear.
- 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.

## DOWNLOAD DATA

| DOWNLOAD DATA                                                                    |                    |
|----------------------------------------------------------------------------------|--------------------|
|  | User instruction   |
|  | Installation guide |
|  | Installation guide |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075630505 | Sleeve<br>1                  | 1,465 mm x 20 mm x 24 mm             | 208.00 g     | 0.70 dm <sup>3</sup>  |
| 4058075630512 | Shipping box<br>10           | 1,518 mm x 153 mm x 80 mm            | 2602.00 g    | 18.58 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.

## DISCLAIMER

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