

# PRODUCT DATASHEET

## SubstiTUBE T5 AC HO80 37 W/6500 K 1449 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

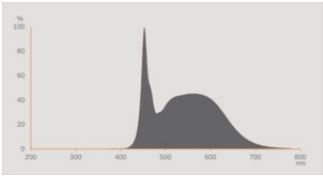
TECHNICAL DATA

Electrical data

|                                          |             |
|------------------------------------------|-------------|
| Nominal wattage                          | 37 W        |
| Construction wattage                     | 37.00 W     |
| Nominal voltage                          | 220...240 V |
| Nominal current                          | 165 mA      |
| Type of current                          | AC          |
| Inrush current                           | 15.4 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

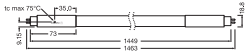
|                                         |               |
|-----------------------------------------|---------------|
| Luminous flux                           | 5600 lm       |
| Luminous efficacy                       | 151 lm/W      |
| Lumen main.fact.at end of nom.life time | 0.70          |
| Light color (designation)               | Cool Daylight |
| Color temperature                       | 6500 K        |
| Color rendering index Ra                | 83            |
| Light color                             | 865           |
| 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 |
| Length with base excl. base pins/connection | 1449 mm    |
| Diameter                                    | 19.00 mm   |
| Tube diameter                               | 16 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  |
| Mercury-free                | Yes     |
| Design / version            | Frosted |

Capabilities

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

Certificates & Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | D <sup>1)</sup> |
| Energy consumption                           | 37.00 kWh/1000h |
| Type of protection                           | IP20            |
| Standards                                    | CE              |
| Photobiological safety group acc. to EN62778 | RG0             |

<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

### 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 |
| Standby power                                       | 0 W          |
| Networked standby power for CLS                     | 0 W          |
| Claim of equivalent power                           | No           |
| Length                                              | 1449.00 mm   |
| Height                                              | 19.00 mm     |
| Width                                               | 19.00 mm     |
| Chromaticity coordinate x                           | 0.312        |
| Chromaticity coordinate y                           | 0.328        |
| R9 Colour rendering index                           | 0.00         |
| Beam angle correspondence                           | SPHERE_360   |
| Survival factor                                     | 0.90         |
| Displacement factor                                 | 0.90         |

|                                                      |         |
|------------------------------------------------------|---------|
| LED light source replaces a fluorescent light source | No      |
| EPREL ID                                             | 642841  |
| Model number                                         | AC35126 |

### 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.
- After rewiring of a luminaire the installer will be responsible for all technical and safety consequences.

### DOWNLOAD DATA

| Documents and certificates                                                          |                                 |
|-------------------------------------------------------------------------------------|---------------------------------|
|     | User instruction                |
|     | Installation guide              |
|    | Declarations Of Conformity CE   |
|   | Declarations Of Conformity UKCA |
| Photometric and lighting design files                                               |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |
|  | Spectral power distribution     |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075543386 | Sleeve<br>1                  | 1,465 mm x 20 mm x 24 mm             | 208.00 g     | 0.70 dm <sup>3</sup>  |
| 4058075543393 | 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.

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## DISCLAIMER

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