

# PRODUCT DATASHEET

## Submarine 1 x 19W 4000K

SUBMARINE® | Damp-proof luminaires for LED tubes

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### Areas of application

- Basements, garages, warehouses
- For indoor use only



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### Product benefits

- Energy savings of up to 65 % comp. to luminaires using T8 fluorescent lamps on CCG
- Easy installation thanks to improved space for mounting brackets and easy to open tray
- Quick and easy lamp replacement
- Extremely break resistant SubstiTUBE Star PC LED-Tube included
- Good, even illumination

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### Product features

- Damp-proof luminaire with LED tube for mains voltage operation
- Durable and energy-saving LED luminaire
- Dust-protected and jet-proof (IP65)
- Mercury-free and RoHS compliant
- M20 cable gland for 8-12 mm cables
- Not dimmable



TECHNICAL DATA

Electrical data

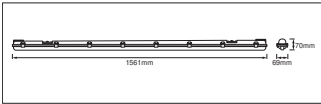
|                           |             |
|---------------------------|-------------|
| Nominal wattage           | 19.00 W     |
| Nominal voltage           | 220...240 V |
| Mains frequency           | 50...60 Hz  |
| Nominal current           | 90.000 mA   |
| Total harmonic distortion | ≤ 20 %      |
| Protection class          | I           |

Photometrical data

|                                                |            |
|------------------------------------------------|------------|
| Luminous flux                                  | 2050 lm    |
| Total luminous flux of contained light sources | 2200 lm    |
| Luminous efficacy                              | 107 lm/W   |
| Color temperature                              | 4000 K     |
| Light color (designation)                      | Cool White |
| Color rendering index Ra                       | ≥80        |
| Standard deviation of color matching           | ≤6 sdcn    |
| Flickering metric (Pst LM)                     | ≤ 1        |
| Photobiological safety group acc. to EN62778   | RG0        |
| Beam angle                                     | 140 °      |

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1561.00 mm |
| Width          | 66.00 mm   |
| Height         | 75.00 mm   |
| Product weight | 1280.00 g  |



SUBMARINE LED 1X19W 840 150

Materials & Colors

|               |      |
|---------------|------|
| Product color | Gray |
|---------------|------|

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| Housing color                              | Gray                                  |
| Body material                              | Acrylonitrile butadiene styrene (ABS) |
| Cover material                             | Polycarbonate (PC)                    |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C                                |
| Mercury content                            | 0.0 mg                                |

### Application & Mounting

|                                        |                             |
|----------------------------------------|-----------------------------|
| Ambient temperature range              | -20...+35 °C                |
| Type of connection                     | Terminal, 3-Pole (L, N, PE) |
| Type of protection                     | IP65                        |
| Protection class IK (shock resistance) | IK06                        |
| Dimmable                               | No                          |
| Mounting type                          | Surface                     |
| Mounting location                      | Ceiling                     |
| Application environment                | Indoor                      |
| With light source                      | Yes                         |
| Replaceable light source               | No                          |
| Holder designation                     | G13                         |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 30000 h <sup>1)</sup> |
| Number of switching cycles | 100000                |

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Certificates & Standards

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Standards                                            | CE / EAC / UKCA |
| Luminaire with limited surface temperature, "D sign" | No              |

### Additional product data

|                       |   |
|-----------------------|---|
| Number of illuminants | 1 |
|-----------------------|---|

### EQUIPMENT / ACCESSORIES

– SubstiTUBE STAR PC EM are delivered with the product

### Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.

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## DOWNLOAD DATA

| Documents and certificates                                                       |                                        | Document name                       |
|----------------------------------------------------------------------------------|----------------------------------------|-------------------------------------|
|  | User instruction / safety instructions | SUBMARINE LED                       |
|  | Declarations of conformity             | SUBMARINE LED 2X7W 840 60      LEDV |
|  | Declarations of conformity UKCA        | Fixed LUM                           |

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## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075303966 | Folding box<br>1             | 77 mm x 71 mm x 1,565 mm             | 1384.00 g    | 8.56 dm <sup>3</sup>  |
| 4058075303973 | Shipping box<br>6            | 1,582 mm x 235 mm x 182 mm           | 9535.00 g    | 67.66 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.