# PRODUCT DATASHEET
# Submarine Recycled Plastic 150 1 X 20W 840 G13 T8

SUBMARINE PCR | Damp-proof luminaires



## Areas of application

– Basements, garages, warehouses
– For indoor use only

## Product benefits

– Easy installation thanks to improved space for mounting brackets and easy to open tray
– Very efficient Energy Label D Lamp tube made of glass to further reduce the use of conventional environmental harmful plastics
– Made of recycled plastics, the lamp contributes to the reduction of $CO_2$ emissions and landfill waste

## 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
– Minimum 50 % of recycled plastic (out of total plastic weight) used
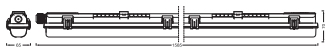
# TECHNICAL DATA

## Electrical data

| | |
|---|---|
| Nominal wattage | 20.00 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 90.000 mA |
| Inrush current | 0.09 A |
| Inrush current time $T_{h50}$ | 484 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 12 |
| Max. number of luminaires per miniature circuit breaker C10 | 12 |
| Max. number of luminaires per miniature circuit breaker C16 | 20 |
| Power factor λ | > 0.90 |
| Total harmonic distortion | < 20 % |
| Protection class | II |
| Operating mode | Mains voltage |

## Photometrical data

| | |
|---|---|
| Luminous flux | 2300 lm |
| Total luminous flux of contained light sources | 3100 lm |
| Luminous efficacy | 115 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | > 80 |
| Standard deviation of color matching | ≤5 sdcm |
| Flickering metric (Pst LM) | <1 |
| Stroboscope effect metric (SVM) | <0.4 |
| Photobiological safety group acc. to EN62778 | RG0 |
| Beam angle | 120 ° |
| UGR | < 25 |

## Dimensions & Weight

| | |
|---|---|
| Length | 1585.00 mm |
| Width | 65.00 mm |
| Height | 70.00 mm |
| Product weight | 1094.00 g |

SUBMARINE PCR 150 1X20W 840
G13 T8

## Materials & Colors

| | |
|---|---|
| Product color | White |
| Housing color | White |
| Body material | Polycarbonate (PC) |
| Cover material | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C |

## Application & Mounting

| | |
|---|---|
| Ambient temperature range | -20…+40 °C |
| Type of connection | Terminal, 3-Pole (L, N, PE) |
| Type of protection | IP65 |
| Protection class IK (shock resistance) | IK08 |
| Dimmable | No |
| Mounting type | Surface |
| Mounting location | Ceiling |
| Application environment | Indoor |
| With light source | Yes |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 40000 h [1] |
| Number of switching cycles | 100000 |

[1] 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

| | |
|---|---|
| Product remark | Maximum tube wattage: 24 W |
| Number of illuminants | 1 |

| Added function | Natureloop |
|---|---|

## EQUIPMENT / ACCESSORIES

– Energy Class D LED TUBE T8 EM P is delivered with the product

## Safety advice

– All electrical connections must be made by a qualified person.
– Caution, risk of electric shock.

## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | SUBMARINE PCR |
| PDF | Legal information | Legal Insert |
| PDF | Declarations of conformity | CE Declaration SUBMARINE PCR 60/120/150 840 G13 T8 |
| PDF | Declarations of conformity UKCA | UKCA Declaration SUBMARINE PCR 60/120/150 840 G13 T8 |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075831070 | Folding box 1 | 75 mm x 70 mm x 1,578 mm | 1269.00 g | 8.28 dm$^3$ |
| 4058075831087 | Shipping box 6 | 1,592 mm x 224 mm x 175 mm | 8624.00 g | 62.41 dm$^3$ |

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.