

# PRODUCT DATASHEET

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

SUBMARINE PCR | Damp-proof luminaires

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### Areas of application

- Basements, garages, warehouses
- For indoor use only



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### 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 CO2 emissions and landfill waste

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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
- Minimum 50 % of recycled plastic (out of total plastic weight) used



## TECHNICAL DATA

### Electrical data

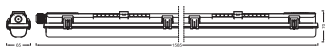
Nominal wattage	20.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	90.000 mA
Inrush current	0.09 A
Inrush current time $T_{h50}$	484 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	12
Max. number of luminaires per miniature circuit breaker C10	12
Max. number of luminaires per miniature circuit breaker C16	20
Power factor $\lambda$	> 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	$\leq 5$ sdc <sub>m</sub>
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
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	40000 h <sup>1)</sup>
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
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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
	User instruction / safety instructions	SUBMARINE PCR
	Legal information	Legal Insert
	Declarations of conformity	CE Declaration SUBMARINE PCR 60/120/150 840 G13 T8
	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 <sup>3</sup>
4058075831087	Shipping box 6	1,592 mm x 224 mm x 175 mm	8624.00 g	62.41 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.