

3.80.1830

SEA-LED Lighting System



Introducing IHC Hytech LED BELL / HABITAT / ROV LIGHTING SYSTEM

The IHC Hytech SEA-LED 3.80.1830 Lighting system has been designed to use on diving cages, diving bell, habitats, ROV's etc. etc..

It has following advantages on existing submersible lights which use a halogen bulb as light source:

- Lifetime single chip LED source ≥ 20.000 hours against a halogen bulb 1000 hours
- Shockproof
- Low temperature
- Low power consumption - 7 times less than a halogen bulb with the same light output
- Less dependence upon voltage variations and voltage drop due to long cable lengths.
- Cable conductors can be reduced in diameter
- Light colour 5500—6000 °Kelvin (daylight colour)

A halogen bulb produces light with a colour temperature of ± 3500 °Kelvin, since the red and yellow spectrum shall be absorbed by water first and blue light travels longer distances in water. The red light shall penetrate much more.

The IHC Hytech Sea-Led 3.80.1830 Lighting system consist of two main components

1. The LED Driver housing type 3.80.1816
2. The LED light source on SEA-LED type 3.80.1813

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Connecting

The LED driver housing must be connected by a surface power source with a voltage of 110 up to 260 VAC, 50 or 60 cycles.

The driver housing can be fitted with 1, 2 or 3 LED driver electronics.

Also 1, 2 or 3 SEA-LEDs can be connected to the driver housing,

Connection cable with a standard length of 1500 mm are supplied with each SEA-LED.

Longer cables can be ordered as an option. Cable lengths up to 10 meter are possible.

Each SEA-LED light source can be ordered with a single LED chip of 50, 70 or 100 Watt output.

Technical Specifications

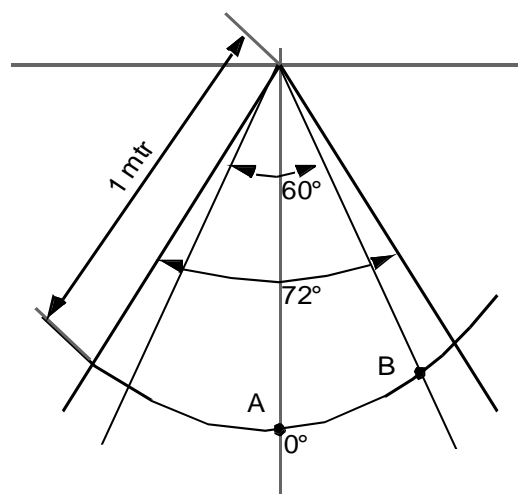
- Depth range up to 1000 msw (up to 4000 on request)
- Power consumption 110-260 VAC, 50/60 cycles, 3.8 Ampere max
- Single LED light source: 50, 70 or 100 Watt fitted with special reflector and collimator lens
- Light angle 72 °
- Light intensity see
- Temperature range -20—+ 50 °C
- Temperature protected by thermal switch 80 °C

Light Output Measuring Results

- Measured with an Iso-tech 1335 light meter, serial number 090406174.
- Lightsensor with human visual light diffuser (human invisible light spectrum not measured in result).

SEA-LED 50—70—100 Watt General

- Light output approx. 72° on 2 x 36° from centerline 0°.
- Measured -A- in centerline at 100 cm.
- Measured -B- at 30° angle from centerline
- Light colour—Daylight (5500—6200 °Kelvin)



Results *	50 Watt SEA-LED	70 Watt SEA-LED	100 Watt SEA-LED
A	3300 Candela	5200 Candela	8200 Candela
B	2100 Candela	3500 Candela	5600 Candela

* = Due to variations in driver electronics and LED output may vary ± 10 %

IHC Hytech

Elftweg 3
4941 VR Raamsdonksveer
The Netherlands

Phone +31 162 52 22 02
Fax +31 162 51 90 69
email Hytech@hytech.nl
www.ihcmerwede.com