



## **LED-CL Chamber Light**

The AquaVision LED-CL Chamber Light is the first of its kind resulting in a lunge forward in safety and reliability through advanced technology and innovation.

The light has 100,000 hour life and has been designed specifically for use within the Hyperbaric Diving environment, whether that be in Hyperbaric Chambers, TUP's, Diving Bells or even Wet Bells.

The Chamber Lamps are available in either Dry or Wet options, which are then fitted with a helium relief valve to ensure the safe egress of any gas which may migrate through the sealing faces during compression, thus eliminating any potentially explosive hazard when decompressed.

The lights run very cool compared with conventional lamps, of an equivalent output, due to the use of highly efficient, high brightness Bowtech LED clusters. They also produce at least double the lumen output. This of course removes the need for a heavy heat sink.

When supplied as a Chamber lamp, the light is populated with a White and Red LED cluster to allow them to be remotely switched from white light for the waking hours and red light during resting hours.

When supplied as a bunk light, an extended bezel is fitted to provide a focused beam.

Either lamp can be fitted with an on/off switch built into an integrated cable assembly, to provide personal control.

**High Light Output**

**Low Temperature  
Operation**

**Long Life Approximately  
100,000 hours**

**70 Bar Pressure Rated**



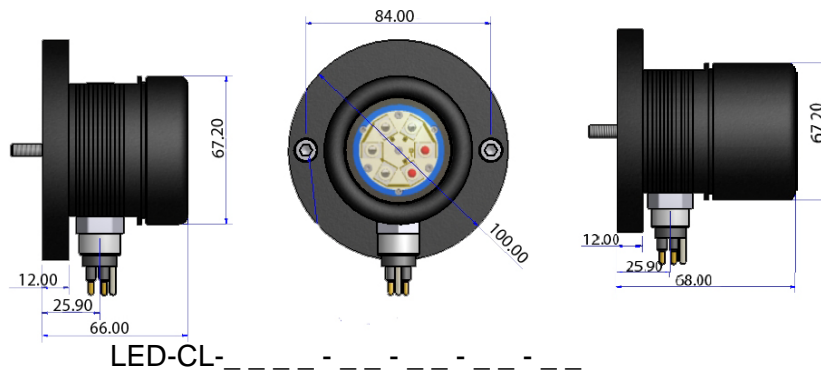
# LED-CL Chamber Light

## SPECIFICATIONS

	Chamber Light	Bunk Light
Housing Material:	Hard Anodized 6082-T6 Aluminium	Hard Anodized 6082-T6 Aluminium
Length (excluding connector):	65mm (2.56in)	87mm (3.43in)
Diameter	67mm (2.64in) front end 100mm (3.94in) base	67mm (2.64in) front end 100mm (3.94in) base
Window/Lens:	Acrylic	Acrylic
Lamp Type:	Bowtech LED Array, (6 white/6 red with different combinations)	Bowtech LED Array, (6 white LEDs)
Weight in Air	0.6kg (1.32lbs)	0.7kg (1.55lbs)
Design Pressure:	70bar (with o-rings and helium relief valve fitted)	70bar (with o-rings and helium relief valve fitted)
Mounts:	2 off M6 mounting holes on 84mm PCD	2 off M6 mounting holes on 84mm PCD
Typical Beam Angle:	75 Degrees	65 Degrees
Power Requirement:	24Vdc, 370mA (per circuit)*	24Vdc, 270mA
Typical Luminous Flux:	White 320 Lumens, Red 80 Lumens	360 Lumens white
Typical Colour Temperature:	6600 kelvin (White)	6600 kelvin (options available)
Red LED Wavelength:	630nm	630nm
Standard Connector:	MCBH3M	MCBH3M
Optional Connectors:	A wide range of Connectors	In line reed switch assembly with MCIL-3M
Lumen Maintenance (70%):	50,000 hours	50,000 hours

\*Red LED and White LED circuits cannot be powered at the same time without causing damage to the light

Chamber light



Bunk light

LED-CL-

Please Select Colour (All Lloyds Approved)		Length of Cowl (All Lloyds Approved)		Seal Kit		Connector Fitted (All Lloyds Approved)		Swivel Switch	
6 White LED, 0 Red LED	W6R0	Short Cowl (Wide Beam)	SC	No Seal Kit	NK	MCBH-3M-SS-SC	I3	No Swivel Switch (if not required or Reed Switch fitted)	-
4 White LED, 2 Red LED	W4R2	Long Cowl (Narrow Beam)	LC	No Seal Kit with LSOH 5m Cable (IP68 Cable Gland)	NG	Reed Switch (MCIL- 3M) <sup>1</sup>	RS	Swivel Switch	SS
4 White LED, 2 White LED	W4W2								
6 Red LED, 0 White LED	R6W0			Sealed with Helium Relief Valve (Lloyds Approved)	SR				
4 Red LED, 2 White LED	R4W2								
4 Red LED, 2 Red LED	R4R2								

On the basis of surveys completed by Lloyds Register, it is now considered that the equipment has been tested and certified in accordance with the requirements of the applicable sections of LR's Rules and Regulations for Submersibles and Underwater Systems December 1989 as amended, commensurate with operation in pressurised diving chambers using nitrogen-oxygen-helium atmospheres to 35barg between -10°C and +55°C.



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