



OceanTools

L5 DyeLighter®

Subsea leak detection LED lamp

The **L5 DyeLighter** is a DC powered blacklight replacement flood lamp for subsea leak detection with up to 5,000 lumen output, supporting a range of control options.



The OceanTools **L5 DyeLighter** subsea leak detection lamps utilise the latest in LED technology to give unrivalled performance to generate an output of up to 5,000 lumens at 520–530nm (green) for Rhodamine dyes, 470–480nm (blue) for Fluorescein dyes, or 360–370nm for Ultraviolet illumination.

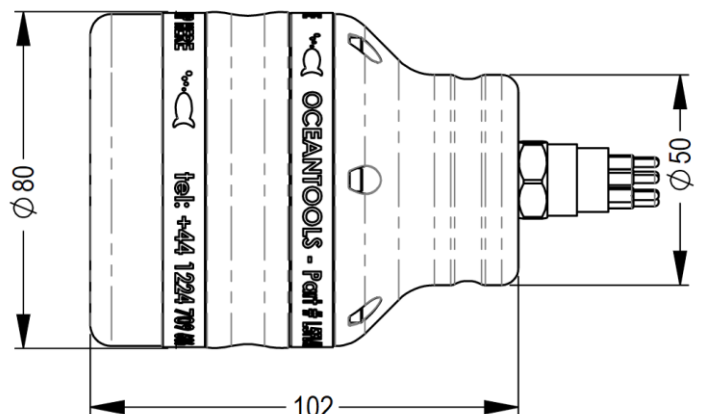
The lamps are designed to be used with a **C3-40** dye detection camera, which contains special filters to remove background light to aid detection of the dye. Lamp housings are available in two depth ratings – 4000m aluminium and 8000m titanium – with provision for a mounting bracket or clamp.

Key Product Features

- Rhodamine, Fluorescein or Ultraviolet dye illumination
- Flicker free control options including RS232, RS485 and Analogue
- Field serviceable including in-field replacement of LED board
- 24 LED flood configuration
- Operating life > 50,000 hours
- Provision for mounting bracket or clamp

Key Product Benefits

- Low lifetime cost of ownership
- Highly versatile and multi-functional
- Ease of system integration





Specifications

		L5-R	L5-F	L5-U
Optical	Target dye	Rhodamine	Fluorescein	Ultraviolet
	Excitation wavelength	520–530nm	470–480nm	360–370nm
	Light output	Up to 5,000 lumens	Up to 2,000 lumens	TBA
	Beam angle	Flood 110°		
Environmental & Electrical	Depth rating	4000 or 8000 metres		
	Operating temperature	-10°C to +40°C		
	Storage temperature	-30°C to +70°C		
	Input voltage	24VDC (12–32VDC)		
	Maximum current	2.5A @ 24VDC		
	Dimming	RS232, RS485 or 0-5/10VDC		
Mechanical	Housing material	Anodised Aluminium (4000m) or Titanium (8000m)		
	Window material	Sapphire Glass		
	External diameter	80mm		
	Length excl connector	102mm (4000m) or 106mm (8000m)		
	Weight in air	0.9kg (4000m) or 1.3kg (8000m)		
	Weight in water	0.5kg (4000m) or 0.8kg (8000m)		
	Standard connector	Subconn MCBH5M or Glenair G5507-1506 (others on request)		

Related Products

C3-40 dye detection cameras contain a band pass filter to remove background light to aid detection of fluorescing dye when illuminated by a leak detection lamp.

D7 DyeTector systems include the very latest photon multiplier technology to detect even the smallest amounts of fluorescence from the agitated dye molecules. Advanced detection electronics convert the measurements to digital data.

Product datasheets, GA drawings, case studies and other supporting documents are available to download from data.oceantools.co.uk

All specifications are subject to change without notice. E&OE.

Version 8 (21.02.2023)

