



Bluefin Led Underwater lights.

Firefly Flood Light FB/FF/FR Installation manual.

Thank you for choosing Bluefin LED lights, our products have been designed and tested rigorously to ensure optimum performance and longevity.

As these lights are highly polished please be careful on installation not to scratch the lights as they will mark easily.

Please ensure that your product is installed as per our instructions below, failure to do so may invalidate your warranty.

Specs: electrical/fuse ratings

	Voltage	Current	Fuse rating
Flood light	12/24VDC	12v 850ma/24v 420ma	3 amp

Warnings:

- Ensure that the correct voltage is used for the light.
- Ensure that an in line fuse is installed with the correct fuse rating per the light installed.
- Ensure that use the Screws provided.
- Ensure all connections are made water tight.
- Do not hold the light by the cable.
- Do not use abrasives to clean the light.
- Do not look directly into the light at close proximity

Tools required for installation:

- 3.5mm (9/64") and 5mm drill bit for Bracket mounted option.
- 3mm and 8mm drill bit for surface mounted option
- 3mm drill bit and multi tool cutter for recessed mounted option.
- Drill
- Posi head hand screwdriver

Installation:

Bracket mounted option Fig 1

Choose the location for the bracket flood light to be mounted, use the bracket as a template for the screw holes and drill two holes using a 3.5mm drill.

Mount the bracket using the two supplied screws.

You will notice single larger hole in the centre of the bracket, this is for the cable to be passed through if necessary. Please be careful not to bend the cable at the light end. The cable dia is 5mm for the cable to be passed through the structure being mounted too.

Adjust the angle of the light and lock in place using a 3mm Allen key on the two side bolts.

Surface mount option Fig 2

Choose the location for the surface flood light to be mounted, use the two holes on the light as a template for the screw holes and drill the two holes using a 3mm drill.

Drill an 8mm hole central for the cable access to be passed through..

Mount the Light using the two supplied screws.

Recessed mounted option Fig 3

Cut a rectangular hole for the recessed Flood light at 121mm x 56mm using a multi tool with the appropriate cutter for the material. Place the Light into the hole and mark and drill the four screw holes using a 3mm drill.

Screw the light in place using the four screws provided.

Electrical connection:

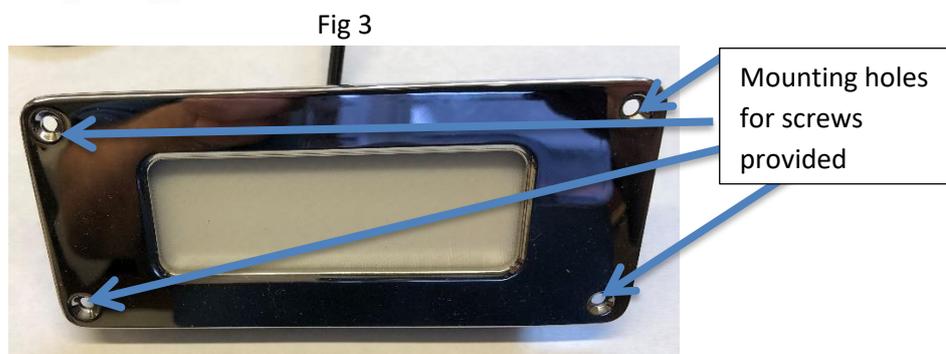
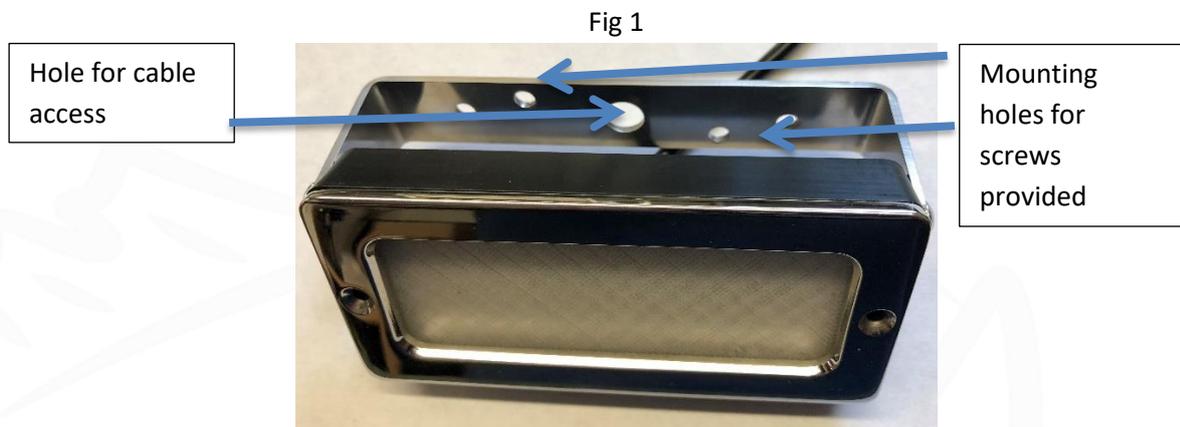
Only attach the light cable to a waterproof connection or junction box, the cable must have a watertight connection otherwise your **warranty will be void**.

Care should be taken when planning your electrical feeds/cables to the lights so as to ensure voltage drop between the batteries or power supply is minimised, on 12V systems this is especially important as the lower system voltage means a high current requirement which in turn means the potential for more voltage drop in the cable runs & connections.

If the cable gauge & connections are not sufficient for the lighting load attached you may experience incorrect operation of the lights & intermittent illumination as the supply dips below specification.

Please see the wire gauge guide attached to the instruction manual.

For help with calculations always consult with a qualified professional or contact Bluefin LED directly.



Testing:

Test the light before installation ensuring that you use the correct voltage and the light is illuminated correctly.

After installation ensure again that the light is illuminated correctly.

The light has internal indicator LED's for fault finding, these are as follows:

- Over voltage will flash red. (check the voltage to the light)
- Under voltage will show a constant red. (check the voltage to the light)
- Over temperature will show amber. (allow the light to cool down and check)

Maintenance:

Only clean the light with a clean soft cloth.

Do not use anything abrasive to clean the light.

Warranty:

Your product has a 2-year limited warranty for defects.

For any warranty issues please contact your point of sale retailer or go to www.bluefinled.com for further advice.

Installer please ensure that the SERIAL NUMBERS of the lights are written below and the manual is handed over to the end user.

Please make a note of the serial numbers of the lights here.

SERIAL NUMBERS

--	--	--	--	--	--

Bluefin LED

Cottage Farm, Cottage Lane,

Norton Juxta Twycross, Atherstone. CV9 3QH

Sales - Tel: 07950 909048

Email: simon.steadman@bluefinled.com

Service - Tel: 01827 880450

Email: mark.branson@bluefinled.com

Administration - Tel: 01827 880450

Email: samantha.barrie@bluefinled.com

Registered Address: Square Rig Limited, t/a Bluefin Led, Cottage Farm, Cottage Lane, Norton Juxta Twycross, Atherstone, CV9 3QH

Company Registration Number: 08871451 **VAT Number:** 179 2690 64



