SeaBlaze**X3**
UNDERWATER LIGHT
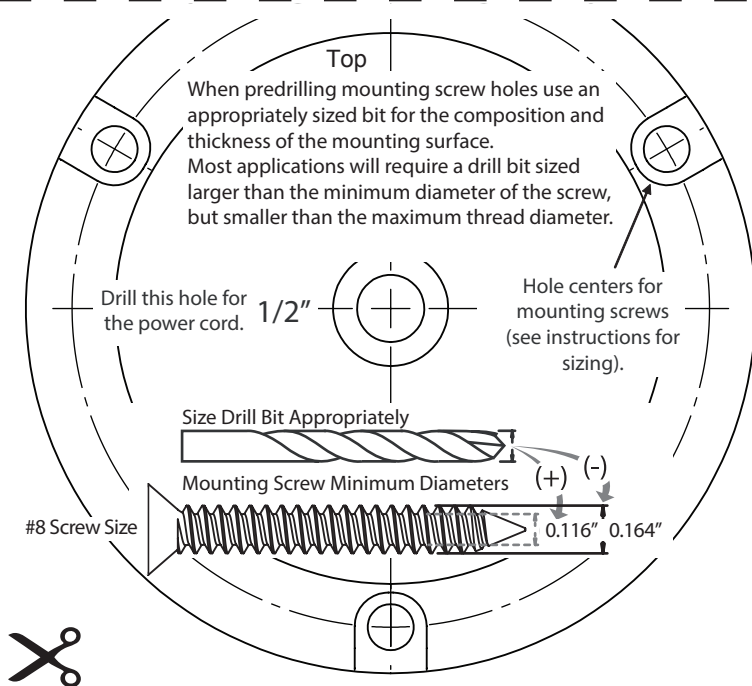
LUMITEC ®
A Clarience Technologies Company

Installation Instructions

1. Choose a location on the transom 6 to 12 inches beneath the waterline. The mounting surfaces should be flat, clean, dry, and free of existing hardware or holes. Check inside the hull for wiring or obstructions prior to drilling.

2. Before mounting, ensure that the light will not interfere with the operation of engines, trim tabs, rudders, etc.

3. Clean the gelcoat or remove any bottom paint from the gelcoat surface. Tape the mounting template (below) to the hull in the desired location of the light.

4. Mark the light center and drill a 0.5" hole. Mark the screw location holes and using a 9/64 drill bit (may need to be adjusted depending on hull type and location), drill the screw holes.

5. Spread a generous bead of sealant (3M 4200 or equivalent) around the inside surface of the light bezel, the screw holes, and the wire stem up to the exposed wire. Add additional sealant into the wire hole in the hull with the light about one inch away.

6. Feed the light housing through the hole and orient using the logo on the reflector. Be careful not to push the sealant from the wire hole as you feed the cable through. Fasten in place with tape.

7. Apply a generous bead of sealant (3M 4200 or equivalent) to the wire hole on the inside of the hull to prevent water entering the fiberglass core.

8. On the exterior, tighten the screws with isolating washers hand-tight with a screwdriver (do not use power tools as you may snap the #8 screws or clip the gelcoat).

9. You should see sealant expelled from around the light housing to ensure adequate bond. Wipe off any excess sealant.

Top

When predrilling mounting screw holes use an appropriately sized bit for the composition and thickness of the mounting surface.
Most applications will require a drill bit sized larger than the minimum diameter of the screw, but smaller than the maximum thread diameter.

Drill this hole for the power cord. 1/2"

Hole centers for mounting screws (see instructions for sizing).

Size Drill Bit Appropriately

Mounting Screw Minimum Diameters

(+) (-)

#8 Screw Size   0.116" 0.164"

Operation:

Spectrum: Light will cycle through all available colors (including white) within the first 20 seconds. An abrupt OFF/ON toggle of your standard (SPST) switch will allow the user to select any discrete color during the cycle. After 20 seconds without interruption, the light will repeat the full color cycle over a period of 3 minutes – discrete colors can still be chosen during the 3-minute cycle. The 3-minute cycle will repeat continuously if left un-interrupted. You can reset the light at any time by switching the power off for more than 3 seconds.

Dual-Color (White/Blue): An abrupt OFF/ON toggle of your standard (SPST) switch allows the SeaBlazeX3 to transition through each light output mode.
1- Cross-Color Fade – gently undulating color mix,
2- Blue Only, 3- White Only.

600953-C

SeaBlazeX3
UNDERWATER LIGHT

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SEABLAZE **X3** UNDERWATER LIGHT WIRING DIAGRAMS

2-WIRE CONNECTION TO SWITCH
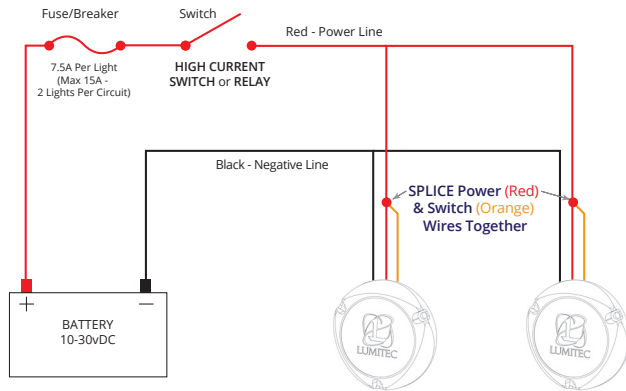
Fuse/Breaker · Switch · Red - Power Line

7.5A Per Light
(Max 15A -
2 Lights Per Circuit)

HIGH CURRENT SWITCH or **RELAY**

Black - Negative Line

SPLICE Power (Red) & Switch (Orange) Wires Together

BATTERY
10-30vDC

Each lighting circuit must be protected by a fuse or circuit breaker not exceeding 15A when wired outside an engine space** (max two (2) lights per circuit @ 12 VDC).

Lumens (White):	8,000
Voltage:	10-30vDC
12v DC Amps:	5.5A
24v DC Amps:	2.5A
Signal Wire (Orange):	0.1A per light
Rated Watts:	65W
CCT:	6500
CRI:	70+
Cable:	16 AWG, 105°C
Cable Length:	5' Feet

DO NOT INSTALL MORE THAN TWO (2) LIGHTS ON A SINGLE PROTECTED CIRCUIT.

3 -WIRE CONNECTION TO SWITCH

Fuse/Breaker · Switch · Orange - Signal Wire

1.5A

TOGGLE SWITCH or **DIGITAL SWITCH**
Max current draw 0.1 Amps per light

7.5A Per Light
(Max 15A -
2 Lights Per Circuit)

Red - Power Line
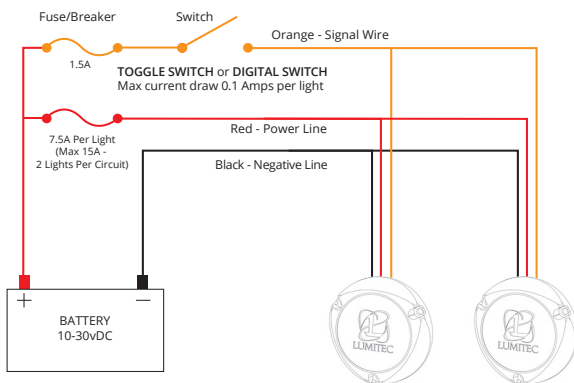
Black - Negative Line

BATTERY
10-30vDC

Each lighting circuit must be protected by a fuse or circuit breaker not exceeding 15A when wired outside an engine space** (max of two (2) lights per circuit @ 12 VDC). Signal wire (orange) must be protected with a 1.5A fuse (max).

3 -WIRE CONNECTION TO POCO MODULE
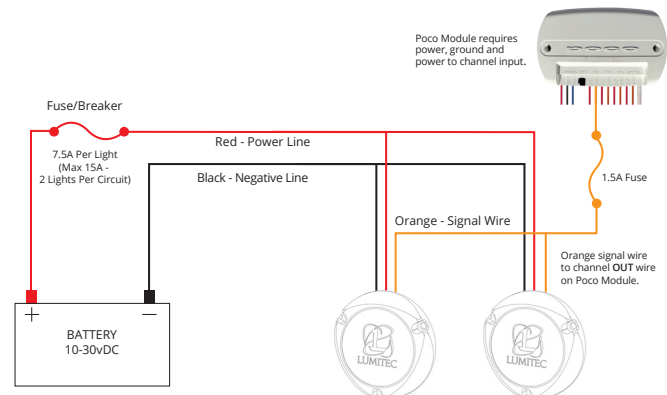
Poco Module requires power, ground and power to channel input.

Fuse/Breaker · Red - Power Line

7.5A Per Light
(Max 15A -
2 Lights Per Circuit)

Black - Negative Line

Orange - Signal Wire

1.5A Fuse

Orange signal wire to channel **OUT** wire on Poco Module.

BATTERY
10-30vDC

Each lighting circuit must be protected by a fuse or circuit breaker not exceeding 15A when wired outside an engine space** (max of two (2) lights per circuit @ 12 VDC). Signal wire (orange) must be protected with a 1.5A fuse (max).

**GENERAL FUSE RECOMMENDATIONS ARE BASED ON ABYC E-11
For your specific installation or wiring in an engine space, consult a certified ABYC installer

Troubleshooting Chart

Problem	Cause	Solution
Light Does not power on (2-wire installation).	Red and Orange wire are not receiving + voltage. Ground wire disconnected.	Check power. Check fuse is not blown. Check ground wire connection. Check the switch and ensure it is rated for the load. Check voltage polarity.
Light Does not power on (3-wire installation).	Red and/or Orange wires are not receiving positive (+) voltage. Ground wire disconnected.	Check power. Check fuse is not blown. Check ground wire connection. Check switch is in the ON position.
Light Does not power on (3-wire installation Poco).	Red wire not receiving positive (+) voltage. Orange wire not connected to Poco Channel output. Poco is not setup correctly.	Check power. Check fuse is not blown. Check ground wire connection. Check Poco Configuration (light group set to Clan 4). If Clan 4 does not exist in Light Groups, update your Poco firmware. Check Poco Configuration to ensure Switch is set to the correct Light Group.
Light Quickly Blinks Problem: Light Quickly Blink.	Insufficient voltage or current at light.	Check for proper voltage at light (10vDC minimum required). Ensure the battery is at full charge. Verify wire gauge size is sufficient.