



1237 Lady Marion Lane, Dunedin, FL USA  
Tel (727) 474-2877 / Fax (727) 342-7304  
Email: info@shadow-caster.com

# SCY-40™

## Install Instructions

### What you will need:

- Scissors
- Low Stick Masking Tape
- Power drill
- Use appropriately sized drill bit to pre-drill mounting
- 1" Diameter drill bit
- #4 Flathead Screwdriver
- Alcohol
- Clean cloth or paper towel
- Sealant, 3M 4200 is recommended

THIS DRAWING IS THE PROPERTY OF SHADOW-CASTER MARINE LEDs. COPYRIGHT IS RESERVED BY THEM. THE DRAWING IS ISSUED UNDER THE CONDITION THAT IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN WHICH IT IS SUPPLIED AND NOT BE COPIED, REPRODUCED, RETAINED OR DISCLOSED TO UNAUTHORIZED PERSONS WHOLLY OR IN PART WITHOUT THE CONSENT IN WRITING OF SHADOW-CASTER MARINE LEDs.

Visit us online at  
[www.shadow-caster.com](http://www.shadow-caster.com)  
for product news and updates.

Shadow-Caster® Marine LEDs utilize state-of-the-art high powered LED technology combined with a rugged military grade design to bring you the best value in underwater lighting. Our lights are manufactured in the U.S.A. and are inspected to meet the highest standards of quality.

The following steps are recommended to properly install your SCY-Series™ underwater lights. Avoiding to do so may void your warranty.

- 1) Choose mounting location - The lights require water cooling and should be installed on a flat surface area that is frequently submerged, splashed, or sprayed. Also consider the area inside the boat where the wire will enter and make sure it will be accessible to retrieve the wire. It IS recommended to mount the light as low as possible for optimal water penetration and cooling. It IS NOT recommended to mount the lights on the bottom of the hull because it will create drag and increase the risk of damage when beaching the vessel and from floating debris.
- 2) The provided template can be used for finding an appropriate mounting location. Verify that the template matches the wire hole on the light if using this as a drill template. Make sure you are drilling into a place where you can get to the hole from inside the boat in order to feed wire. Mark center drill location with pencil. Remove template and store in a safe place.
- 3) Pre-Drill a pilot hole in the center hole location. Then drill a 1" diameter hole for the cable in the center hole location.
- 4) If mounting to an aluminum hull use a foam or rubber spacer for galvanic isolation to prevent corrosion (For more information, visit us at [www.shadow-caster.com](http://www.shadow-caster.com)).
- 5) Feed the cable through the hull into the boat.
- 6) Place a sufficient amount of silicone or 3M® 4200 marine sealant on the hull around the backside of the light housing. It is not necessary to fill the wire hole with sealant.
- 8) Then thread the central mounting hub from inside the boat hull until it sits firmly against the boat hull itself. Use a #4 flat head screwdriver to tighten each individual screw on the mounting hub.
- 9) Install wiring:
  - a. Route wire through the boat in a manor such that it is tied up out of standing water and protected from excessive heat or abrasion.
  - b. Route wire to a switch rated at a minimum of twice the continuous current draw (i.e. for two SCY-40™ lights: 3.5 amps x 2 lights x 2 = 14) [amp switch and circuit breaker minimum rating]. Switch not provided.
  - c. Red wire is positive, black wire is ground. Reversing the polarity will void your warranty. The lights must be wired through a fuse or circuit breaker. FAILURE TO DO SO COULD CAUSE A FIRE AND INJURY OR DEATH. Each light should be fused separately and will require 4 amps at 12 volts, with a 7.5 amp fuse to handle in-rush current.
  - d. Blue wire is the PWM (Pulse Width Modulation) control wire. This is to control strobing and dimming functions integrated into the light. Contact Shadow-Caster® Marine LED Lighting to purchase a compatible controller or dimming