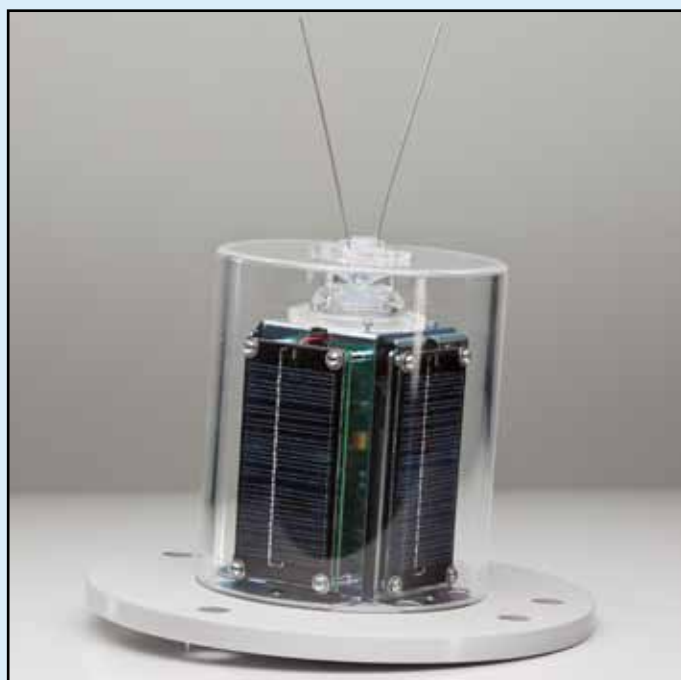


SERIES  
**CR2000**  
LED SELF-POWERED  
MARINE SIGNAL LIGHT



Series CR2000 LED Self-Powered Marine Signal Light

**CR2000 LED SELF-POWERED  
MARINE SIGNAL LIGHT**

The CR2000 is a technically advanced, yet simple to use LED Self-Powered Light for marine aids to navigation. It offers up to 3 mile visibility, contains (4) solar panels, a battery, LED drive circuitry with flash rhythm selection for up to 256 rhythms and a light sensor to turn the light off during sunlight periods. Its light weight all plastic design on all exposed parts avoids any type of corrosion.

Horizontal and vertical uniformity has tested best in the industry through our patented side emitting lens. This is accomplished without the use of diffusers or mold parting seams that cause light output losses. The LED drive circuit is the most efficient available. Power storage is the proven technology of lead acid and it offers the widest operating temperature range of all the battery technologies.

**SPECIFICATIONS:**

**Light Head:** CR acrylic Side Emitting Lens with One 1 watt LED directly attached to large heat sink to allow adequate cooling capability to attain manufacturer rated maximum life expectancy of 100,000 hours. We have received two U.S.A. patents for the innovation of our lens and heat sink mounting system.

**Electronics:** LED drive circuit utilizes the technique of pulse width modulation (PWM) to optimize efficiency. Flash circuit offers up to 256 flash rhythms and (4) light intensity settings accessible by DIP switch under the switch cover on bottom of lantern. Daylight Control circuitry automatically turns light ON at dusk and OFF at dawn to save power.

**Solar Panels:** Four – the highest efficiency available

**Battery:** Lead Acid absorbed glass mat (AGM) technology offers the widest operating temperature range and most suitable charge/discharge characteristics among the various battery chemistries presently available. Allows for up to 11 days of autonomy with 12% flash rhythm duty cycle at highest power setting. Lower power settings will yield longer days of autonomy.



Series CR2000 switch cover access

**Mounting Plate:**

Offers industry standard 3 and 4 bolt hole mounting patterns sized 5/8" (16mm) on a standard 7 7/8" (200mm) bolt circle. Material is high density polyethylene (HDPE).

**Bird Deterrent:**

Stainless steel. It snaps into place and can be easily removed with a blade screwdriver for easier transport of the light.

**Venting:** Water, dust, dirt, cleaning agents and most oils are repelled by the oleophobic membrane on the bottom of the lantern, thereby protecting the electronics while allowing the free-flow of gases to equalize atmospheric pressures inside the lantern.

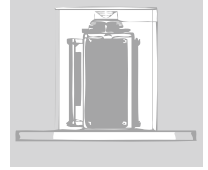
**Output in Candela\*:**

- Red: 25 cd
- Green: 50 cd
- White: 60 cd
- Amber: 35 cd

Color wavelengths and output measurements based on International Association of Lighthouse Authorities (IALA) recommendations E200-I and E122

**Protective Cover:** Optical grade cast Acrylic - which is unaffected by ultra-violet (UV) radiation and is the superior plastic material for optical applications. It is the most scratch resistant of the thermoplastics. It will not degrade, yellow or get cloudy the way UV stabilized polycarbonate will.

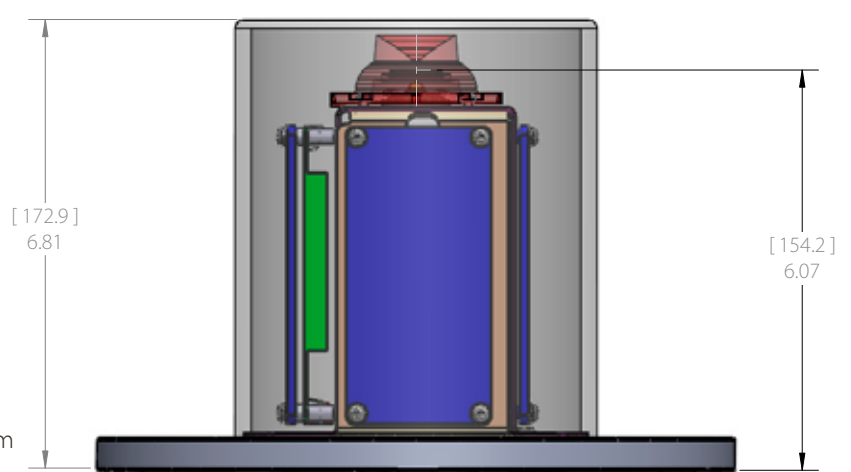
\* Maximum peak intensity for the CR2000 power system



SERIES  
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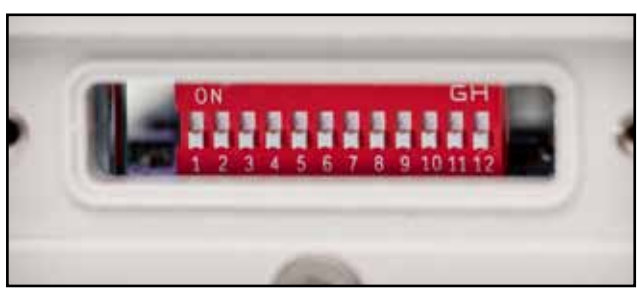


Series CR2000 LED Self-Powered Marine Signal Light solar panel and light detail



**Turning the unit ON and  
Setting the Flash Rhythm:**

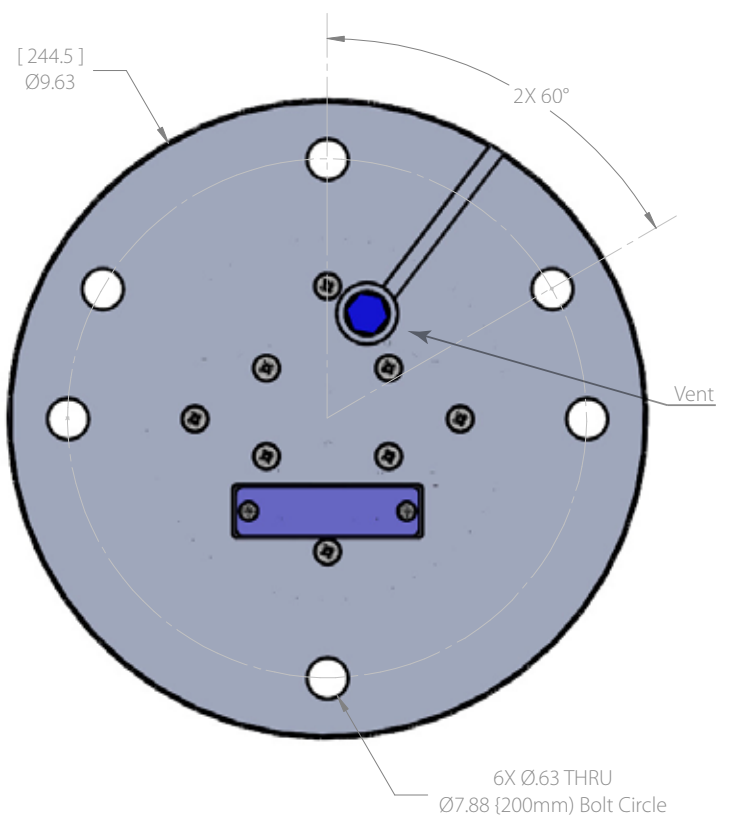
The switch cover is found on the bottom of the light.  
Switches 1-8 are for rhythm selection—please see Rhythm Manual included with these instructions.



Series CR2000 LED Self-Powered Marine Signal Light switch detail

Switches 9 and 10 are for switching one of four LED light intensity settings.  
Switch 12 is for turning the light ON and OFF.

Note: As with all self-contained lights, you must carefully select the one that meets the requirements of your location, light intensity and flash rhythm duty cycle, while staying within the parameters of the solar panels and battery power system. We can help you with your selection by sizing your light correctly with our sizing programs.



U.S. Patents:: 7,703,950 & 7,726,837

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