



## **BCM Courtesy Lights Installation and Operation Manual**



Baltimore • Boston • California • Columbia • Dana • Detroit • Florida  
Nevada • Portland • Sarasota • Savannah • Tampa

## Overview

BCM courtesy light fixtures are specifically designed for marine step and indirect lighting applications. The courtesy lights in this range are all offered in a 3000K warm white LED color and several finishes within each family. They are precision engineered to take advantage of the latest in LED technology. They feature lightweight construction, minimal power consumption, superior reliability and less radiated heat than traditional light sources. When installed properly, these products will provide years of dependable performance.

We encourage you to read this installation guide thoroughly as there are electronic & electrical criteria, and other important installation details that should be met in order to assure many years of enjoyment from your new BCM product(s).

For more information or technical questions concerning BCM products, please contact Imtra at 508-995-7000 or via email at [lighting@imtra.com](mailto:lighting@imtra.com)

## Specifications

Input Voltage Range	8-32 VDC
Mounting	Banded Springs or Screws, Friction Fit
Cutout Diameter	See Table 1
Recess Depth Including Airspace	See Table 1
Power Consumption	See Table 1
IP Rating	IP66*

\* IP66: "Protected against powerful water jets from any direction"

# Sizing & Specifications

Light/MM	Cutout Diameter	Recommended (min) Recess Depth	Power Consumption	Amps 12V	Amps 24V
California 60	44mm (1.73in)	20mm (0.79in)	1.5W	0.13	0.07
California 75	54mm (2.13in)	22mm (0.87in)	2W	0.17	0.09
California 85	65mm (2.56in)	35mm (1.38in)	4W	0.34	0.17
California 95	76mm (2.99in)	46mm (1.81in)	6W	0.5	0.25
Savannah 40	27mm (1.06in)	30mm (1.18in)	1.5W	0.13	0.07
Tampa 40	27mm (1.06in)	30mm (1.18in)	1.5W	0.13	0.07
Sarasota 40	27mm (1.06in)	30mm (1.18in)	1.5W	0.13	0.07
Florida 40	27mm (1.06in)	30mm (1.18in)	1.5W	0.13	0.07
Portland 40	27mm (1.06in)	30mm (1.18in)	1.5W	0.13	0.07
Detroit 20	13mm (0.51in)	30mm (1.18in)	0.5W	0.05	0.03
Boston 20	13mm (0.51in)	30mm (1.18in)	0.5W	0.05	0.03
Columbia 35	19mm (0.75in)	30mm (1.18in)	0.5W	0.05	0.03
Dana 35	19mm (0.75in)	30mm (1.18in)	0.5W	0.05	0.03
Nevada 35	19mm (0.75in)	30mm (1.18in)	0.5W	0.05	0.03
Baltimore 35	19mm (0.75in)	30mm (1.18in)	0.5W	0.05	0.03

Table 1

## Installation Instructions

1. Determine the location of your courtesy light and cut a circle in the mounting surface according to the cutout diameter required by your light (see Table 1). For screw mounted lights, mark and drill pilot holes for the fasteners as required.
2. Connect the light to a DC power source following the wiring instructions in the next section of this guide.
3. Once all electrical connections are made and secure, install the light in the mounting surface.
4. For band spring mounted lights, gently press the light into the cutout for a friction fit. Optionally, secure light in place with screws.
5. For 35mm lights, gently press the light into the cutout for a friction fit.

## Wiring Instructions

1. Before making wiring connections, be sure the power is off!
2. Connect the yellow wire to DC (+) and the black wire to DC (-).
3. Ensure wire connections and securements are in accordance with ABYC standards.
4. Turn the power to the light on.

## Note on Wire Size

The BCM downlight family of products feature integrated driver electronics. These components are sensitive to DC system voltage drops. Therefore, it is imperative to select the correct wire size to supply DC voltage to the lights. This prevents excessive impedance and voltage drop to the lights which can cause premature failure. It is recommended that the supply wire size be selected according to the ABYC Wiring Recommendations Chart for a 10% voltage drop. These charts can be found at [www.imtra.com](http://www.imtra.com)

## Limited Warranty

Imtra/BCM warrants the light-emitting LSA (LED Sub-Assembly) component of this product for three years from the date of purchase. If the LSA should cease to function within three years, return it to Imtra for repair or replacement.

This warranty does not apply to damage resulting from actions of the user such as misuse, improper wiring/installation, operation outside of specification, improper maintenance or repair, unauthorized modification, lightning strike or damage from a power surge.

The decorative bezel of this product is warranted for one year.

Imtra/BCM specifically disclaims any implied warranties, merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Imtra's total liability is limited to repair or replacement of the product.

The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

If it should become necessary to return a fixture for service during or beyond the warranty period, please refer to Imtra's standard Return Policy as detailed on Imtra's website ([www.imtra.com](http://www.imtra.com)) or call Imtra customer service at (508) 995-7000.

No returns are accepted without a Return Authorization (RA) number. (REV 1.0)