

CM CHANNEL MARGIN LIGHT Specification



GENERAL: The channel margin light shall be Model CM, as manufactured by B&B Roadway, LLC, (888) 560-2060.

APPLICATIONS: The channel margin navigation light shall be designed for use as a marine signal light for marking channel margin, and shall meet or exceed all Coast Guard recommendations and requirements pertaining to channel margin and obstruction marking signals. (See Model CC for center of channel light.)

HOUSING and GENERAL CONSTRUCTION: The housing shall be of cast aluminum [option: cast silicon bronze]. Casting alloy used shall be suitable for marine environment. Construction shall be rain-tight and fully gasketed. The light assembly shall be designed for heavy duty, long life service. Design shall provide ready access for lamp service.

LENS: Lens shall be tempered fresnel glass. Lens section shall be 180 degrees red. Inside lens diameter shall measure approximately 7" (175mm). Outside lens diameter shall measure approximately 8" (205mm). Lens shall have a wide angle of divergence suitable for high mounting on bridges or structures. The angle of divergence shall not be less than 27 degrees.

LAMP and RECEPTACLE: Lamp shall be 100W [option: 60W], 120V, A-19 shape, clear. Lamp shall have a rated life of 20,000 hours and shall be of a rough service design with multiple filament support fingers. Medium base receptacle shall be rated for 250V, 660W and shall be porcelain with a nickel-plated brass shell to resist lamp freezing. [option: A single medium base 8W, 120V 100,000 hour LED lamp shall be provided in a color to match the lens.]

STEM: Lamp fixture head shall be suspended from the swivel on a 1 1/2" schedule 40 pipe, 1.90" O.D. (48mm) [option: 2" schedule 40 pipe, 2.375" O.D. (60mm)]. Pipe material shall be galvanized steel [option: stainless pipe used with bronze castings]. Dimension from center of swivel to focal plane of lens shall be 48" (1219mm) [option: as specified].

SWIVEL: The swivel design shall provide for all wiring to be completely contained inside the light assembly. Gaskets and o-rings shall be used to provide a weather-tight assembly. Swivel shall be of heavy-duty construction, cast of the same material as the fixture head. Spindle shall be of stainless steel.

AUTOMATIC LATCH: An automatic latch shall hold the light securely in normal operating and service positions. A firm pull on the service chain shall automatically release the latch, allowing the fixture to pivot. As the light is raised, latch shall automatically engage to hold light in the service position. Service position shall be 30 degrees from vertical [option: as specified]. Fixture assembly shall be dual-handed (i.e. light may be pulled up from either side).

MOUNTING: Base shall be cast of the same material as the fixture head (aluminum or silicon bronze). Light assembly shall mount via four 1/2" diameter bolts through the base, provided by installer to suit installation.

SERVICE CHAIN: A stainless steel, #25 sash type service chain shall be provided to facilitate raising and lowering light for service.

PARTIAL LIST OF AVAILABLE OPTIONS:

Dual Lamps: A dual lamp shall be provided. An automatic transfer relay shall switch power to the backup lamp upon failure of the primary lamp. The relay shall provide a second independent contact for remote signaling of "primary lamp failure" status. [Additional option: An indicator light to signal "primary lamp failure" status shall be included, when specified. The indicator light shall have a 360 degree blue Fresnel lens. A 27W lamp shall be included.] Transfer relay components shall be contained in a cast box of the same material as the fixture head.

Junction Box: A cast junction box with gasketed access cover shall be provided. Junction box shall be of the same material as the fixture assembly and shall match the navigation light base footprint. Orientation of junction box shall be capable of rotation in 90 degree increments.

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