

PL-VR VANDAL RESISTANT PIER LIGHT Specifications



GENERAL: The pier light shall be Model PL-VR, as manufactured by B&B Roadway, (888) 560-2060.

APPLICATIONS: The navigation light shall be designed for use as a marine signal light for marking stationary piers and fenders, and shall meet or exceed all Coast Guard recommendations and requirements pertaining to pier and obstruction marking signals.

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. In addition, the light shall incorporate vandal resistant features. External fasteners shall be stainless steel and tamper resistant. A lens guard formed of expanded stainless steel shall provide protection from projectiles such as rocks or other thrown objects. Lens guard shall be painted black.

LENS: Lens shall be tempered fresnel glass. Nominal lens section shall be 180 degrees [option: 360 degrees]. Inside lens diameter shall measure approximately 7" (175mm). Outside lens diameter shall measure approximately 8" (205mm). Color shall be red [option: green or clear].

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: Dual lamp option adds a second lamp and receptacle.] [option: A single medium base, 120V, 100,000 hour LED lamp shall be provided in a color to match the lens.]

STEM: Lamp fixture head and base shall be mounted 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]. Standard dimension from the light base to the focal plane of the lens shall be 15" (356mm). [option: dimension as specified, greater 15" (356mm)].

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.

PARTIAL LIST OF AVAILABLE OPTIONS: (items marked with ** are the most popular options)

****Junction Box:** A cast junction box with gasketed access cover shall be provided when specified. 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. Junction box shall provide two conduit entries, threaded for 3/4" standard pipe size.

****Dual Lamps:** A dual lamp arrangement 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. Transfer relay components shall be contained in a cast box of the same material as the fixture head.

Indicator Light: An indicator light to signal "primary lamp failure" status shall be included, when specified, for remote installation. The indicator light shall have a 360-degree blue Fresnel lens. A 27W lamp shall be included.

Rectifier: A rectifier shall be pre-wired as part of the light assembly, when specified. (Rectified power increases lamp life approximately 20%.)

Bird Spike Lid: A cone-shaped lid with integral bird spike shall be substituted for the standard flat lid.

Revised 6/14