

HIGHWAY LIGHTING MATERIALS - LED
(REV 9-30-15)

ARTICLE 992-2.4 is deleted and the following substituted:

992-2.4 Luminaires, Ballasts, etc.: The luminaire shall consist of precision cast aluminum with a corrosive resistant polyester powder coat finish. The standard color shall be gray. The optical portion of the housing shall be sealed to provide an IP 66 rating or greater. The mounting assembly shall be a slipfitter type to accommodate a nominal 2 inch pipe size (2-3/8 inch O.D.) connection. The luminaire manufacturer shall place a permanent tag on the luminaire housing on which the following is imprinted: the manufacturer, luminaire voltage, lamp wattage and a blank area for the Contractor to inscribe the installation date. The refractor shall be tempered clear or micro-prismatic glass.

LED fixtures shall meet the following requirements: UL 1598 listed and labeled for installation in wet locations; CCT 4000 K meeting ANSI C78.377A (3985°K plus or minus 275°K); maintain 94.1% Intensity at 10,000 hours (IES LM-80) and have IESNA light distribution curves (IES LM-79) by an EPA-Recognized Laboratory.

The driver/ballast shall be rated for 100,000 hours and have a power factor equal to or greater than 90% at full load with a total harmonic distortion equal to or less than 20% at full load. The fixture shall accommodate for a circuit voltage of 480 volts.

Luminaires shall be provided with a minimum 10Kv/10Ka internal surge suppression module meeting UL 1449/ANSI C62.41.2 Category C.

The manufacturer shall provide a five year non-prorated warranty to the Department. The warranty shall begin on the project acceptance date.

The luminaires shall meet the requirements shown in the plans.