

MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING AND OPERATIONS

JUNE 2016

RECESSED OR SURFACE MOUNTED
DIRECTIONAL LUMINAIRE SPECIFICATIONS

1) PURPOSE

The purpose of these specifications is to prescribe the minimum requirements for the design, manufacture, fabrication, finishing and delivery of recessed/surface mounted luminaire. The recessed/surface mounted directional luminaires are intended for use in areas that require low level lighting with elongated symmetrical distribution and shallow forward lighting (i.e. high pedestrian traffic areas, streetscape areas) mounted in or on concrete walls. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and attached drawings.

2) DESCRIPTION

This luminaire shall be an outdoor fixture, rectangular in shape with an overall height of 11 ¼ inches, a width of 12 ¼ inches and a depth of 6 ¼ inches. All exterior and structural parts shall be of cast aluminum alloy. All components shall fit together snugly so as to provide a weatherproof joint between the luminaire and the molded acrylic lens. All metal parts shall be corrosion-proof. The luminaire shall come ready for quick and easy field assembly or fully assembled and shall include the following components:

- a) Lamp
- b) Multi-tap ballast
- c) All necessary hardware and fasteners to assemble and install on and/or into walls concrete prior to concrete placement.

The luminaire housing must be able to accommodate lamps and ballast for 35, 50, 70, 100 watt High Pressure Sodium Vapor (HPSV) or 35, 50, 70 or 100 watt Metal Halide.

3) HOUSING

The housing shall be a one-piece die cast aluminum and include apertures for access the electrical connections in all mounting positions. The housing shall be U.L. and C.S.A. listed and approved for use in "Outdoor Wet Areas". Flush cover plates and gaskets shall be provided to seal unused aperture. The housing shall not exceed 11¼ inches by 12¼ inches by 6¼ inches.

4) LENS

The lens shall be a vandal resistant one-piece injection molded clear acrylic not subject to deterioration by UV light with a masked upper portion to shield the lamp at normal viewing angles. The lens shall be secure by four tamper resistant stainless steel screws, retained by a drop hinge when opened. The lens shall have a continuous neoprene waterproof gasket. The gasket shall fit into groves molded into the housing plate.

5) BALLAST

The ballast shall be an auto regulator or multi-tap style to accept a 120-volt power supply. The ballast shall be fastened by two captive fasteners and have polarized quick disconnect electrical connections. Ballast carrier shall be capable of accommodating up to 100 watt HPSV or MH ballast.

6) REFLECTOR ASSEMBLY

The reflector assembly shall be a two-piece assembly a primary reflector and a secondary reflector consisting of the following items:

6.1) The primary reflector shall be a hydroformed, reflector mounted to the aluminum housing by four screws.

6.2) The secondary reflector shall be mounted to the acrylic lens by four permanent anchor clips.

7) LAMP

The luminaire may be used with wattage as follows:

ANSI Code – 35, 50, 70, 100 watt High Pressure Sodium Vapor (HPSV), with medium base ED-17 socket;

ANSI Code – 35, 50, 70, 100 watt Metal Halide (MH), with medium base ED-17 socket, as specified

8) PHOTOCELL

The photocell shall be NEMA twist lock for a surface mounted luminaire or mounted on the light adjacent to a recessed mounted luminaire.

9) EXTERIOR FINISH

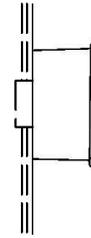
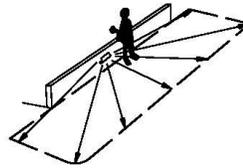
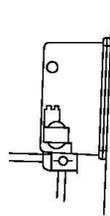
The finish shall consist of a primary protective polymer primer, deionized water rinse, oven dry off and final coating with a exterior electrostatically-applied thermoset polyester powder coat finish or equal. The luminaire shall be "Federal Semi-Gloss Black" Federal Standard 595B Color # 27040.

SPECIFICATIONS FOR STREETLIGHT HARDWARE

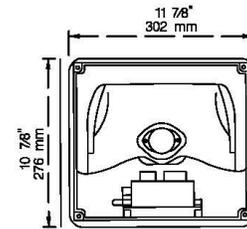
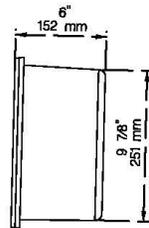
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SPECIFICATIONS FOR STREETLIGHT HARDWARE

MOUNTING OPTIONS



HOUSING



LENS

