

LUMINAIRE, 100W HPS, 480 VOLT  
POST TOP TRADITIONAL STYLE

I. Quantity

The base bid shall include the number indicated of 100 watt High Pressure sodium post top luminaires furnished and installed as hereinafter specified.

II. Material

a. Luminaire

Post mounted luminaire shall consist of a die-cast aluminum housing, pressed one piece prismatic refractor and spun aluminum removable hood/reflector assembly.

The die-cast housing shall slip fit onto a 3" O.D. tenon and be secured by four stainless steel, serrated cone point tamper resistant set screws. The housing shall contain the ballast and socket, suitable for 100 watt vertically mounted lamp.

The optical section of the luminaire shall be completely sealed and gasketed at the top and bottom of the single piece borosilicate glass refractor. When equipped with 100 watt lamp, the luminaire shall provide an IES/ANSI type III light distribution.

The removable hood/reflector assembly shall be secured to the die-cast ribs by four captive corrosion-resistant thumb screws and held for servicing by a captive stainless steel cable. Top of hood shall be finished with decorative ball.

The luminaire shall have an approximate weight of 30 lbs. and a projected area of 1.6 square feet and shall be furnished with an oven cured textured polyester powder paint.

The color of the luminaire shall be black. The luminaire shall be a Unique Solutions #RP100HP48BG3-PS or approved equal.

b. Lamps

The High Pressure Sodium lamps to be furnished with the luminaire shall be 100 watt, with a rated life of 24,000 hours equal in quality, design and performance to General Electric Company's LU100.

III. Installation

The colonial post top luminaire shall be installed on the poles shown on the drawings and indicated in the field by the engineer. Orientation and leveling of the units shall be so as to provide for uniform appearance, maximum lighting efficiency and ease of maintenance, as directed by the engineer.

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IV. Information Required

Bidders shall also furnish complete performance data on the luminaire equipped with the lamp they propose to furnish. The data submitted shall contain at least the following information:

THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE DIVISION OF ELECTRICITY UPON REQUEST.

- Isocandle Curves from Photometric Test
- Utilization Curves
- Isolux Lines of Horizontal Foot-candles from a single unit
- Total Wattage of Fixture
- Volt-Watt Traces
- Lamp Trapezoid Traces
- Drawings showing magnitude, shape, position and duration of starting pulse
- Value of Ballast Losses
- Ballast Open Circuit Voltage

V. Quotation

The complete Post Top Luminaire with lamp shall be quoted as a unit price in the appropriate section of this document.