

**POST TOP LUMINAIRE, 100W, 480V**  
**ACORN TYPE**

I. Quantity

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

II. Material

A. Luminaire

Post mounted luminaire acorn style shall consist of a die-cast aluminum housing, and one piece borosilicate glass prismatic refractor with clear plastic finial. The luminaire shall provide an IES/ANSI III light distribution. The housing shall contain the 480-volt auto-transformer ballast and socket, suitable for 100-watt vertical burning lamp. The color of the luminaire shall be black to match the lamppost. **The housing shall have an access door or opening to allow for photocell placement. The opening shall be sealed so water won't penetrate the housing.**

1) Ballast Housing for 7" U filter cast iron standard

The die-cast aluminum housing shall fit a 7" U Fitter and be secured by four stainless steel, serrated cone point tamper resistant set screws.

The luminaire shall be a **Holophane** GV100HP48CB7NCUP or **approved** equal.

2) Ballast Housing for 3" tenon Fiberglass or Cast Iron Standard

The die cast aluminum housing shall have a raised oak leaf pattern and fit a 2 7/8" to 3 1/8" O.D. tenon.

The luminaire shall be secured to the tenon by four hex head stainless steel set screws.

The luminaire shall be **Holophane #** GV100HP48LB3NCUP, **Sternberg #** G743-OLF-cf-3"/100HPS/480V-bk OAKLEAF-CLEAR/FIN-MOD, 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 30,000 hours equal in quality, design and performance to Sylvania #67559-LU100/Plus/ECO; ANSI #S54

III. Installation

The post top luminaire acorn type shall be installed on the poles shown on the drawings and as 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.

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:

FAILURE TO FURNISH THE INFORMATION BELOW MAY RESULT IN REJECTION OF BID

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 acorn type with lamp shall be quoted as a unit price in each in the appropriate place in this document.

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