

**LUMINAIRE, 400W HPS, 480 VOLT**  
**TEAR DROP (BLACK)**

I. Quantity

The base bid shall include the indicated number of 400 watt HPS luminaires to be furnished and installed as hereinafter specified.

II. Material

a. Luminaire

The luminaire shall have a wiring chamber at the top with 1-1/2 inch NPT threaded entry or stem lock for pendant mounting. Stainless steel set screws shall be provided to lock the unit in position on the fitter. The chamber shall have a terminal block prewired with a plug that connects to the electrical module.

The cast aluminum electrical/reflector assembly shall be hinged to the wiring chamber for access to the terminal block and the electrical module. The assembly shall be latched in place by a captive stainless steel screw. The electrical module shall consist of the ballast, a street lighting grade socket and other electrical components pre wired with a plug for attachment to the terminal block plug, mounted to a removable cast aluminum plate. The anodized reflector shall be formed to control voltage rise in the lamp and work with the refractor to provide a type III distribution of light. The ballast shall be a lead type 400W HPS/480 Volt.

The refractor/door assembly shall have a cast aluminum door to cradle the teardrop shaped glass refractor. The refractor shall provide an I.E.S. type III cut off distribution. The refractor assembly shall be hinged from the electrical reflector assembly and secured in place with a stainless steel, captive wing nut latch assembly.

The luminaire shall be finished with polyester powder paint black.

The luminaire shall be U.L. listed suitable for wet locations at 40 degrees C.

The luminaire shall be Holophane #ESU400HP48SB4, King #K84-EGD-III-400HPS-480V-KPL30-BLK, Lumec #400 HPS-RN30-THB3GL-480-BKTX-LMS16340, Sun Valley Lighting LCLS-III-400HPS-BKM-GELU400, Sternberg 1914G3/AHS/400HPS/480/RO3HL/BK or approved equal.

b. Fitter

The decorative arm fitter shall be designed to match the luminaire. The fitter body shall be heavy wall cast aluminum with top cover and threaded male connector for attachment to the luminaire. The fitter shall be supplied with two (2) stainless steel set screws that lock the fitter to the 2" bracket. The unit shall allow minimum adjustments of +-5 degrees horizontal and +-4 degrees vertical. The cast top cover shall be removable to allow access to the wire connections. All mounting and locking hardware shall be stainless steel.

The fitter shall be finished with polyester powder paint, black to match the luminaire. The fitter shall be Holophane Catalog #CPDF13200BK, King #KPL30-BLK, Lumec #SMA-BKTX-LMS16340, Sun Valley Lighting #LCLS-LA-BKM or approved equal.

- c. The 400-watt HPS Non Cycling lamp shall have a rated life of 40,000 hours and be equal in quality, design and performance to GE or Sylvania.

III. Installation

The 400-watt HPS luminaire fitter and lamp shall be assembled and be installed as shown on the drawings and indicated in the field by the engineer.

IV. Quotation

The 400-watt HPS luminaire shall be quoted as a unit price each in the appropriate place of this document.