

**LUMINAIRE, 250W HPS, 480 VOLT**  
**CUT OFF STYLE**  
**(POLARIS)**

I. Quantity

The base bid shall include the indicated number of 250 watt HPS luminaires to be furnished and installed as hereinafter specified.

II. Material

- a. Luminaire - The luminaire shall be suitable for attachment by means of a slip-fitter connection to a 2" IPS bracket. The slip-fitter shall include means for securely attaching the luminaire and shall also provide for adjustment of approximately 5 degrees above or below horizontal.

Each luminaire shall be furnished with an internally mounted 480 volt ballast. The ballast must provide a maximum of 20% wattage variation to a normal lamp when nominal input voltage varies within a range of plus or minus 10%.

The ballast must be capable of starting and maintaining lamp burning in ambient temperatures as low as -20 degrees Fahrenheit. Ballast and lamp socket shall be pre-wired and ready for installation; all of which shall be accessible for maintenance purposes.

Optical assembly shall consist of a segmented reflector having a surface with a highly specular coating and a tempered glass lens.

Luminaire housing and lens frame shall be die-cast aluminum, joined by an integrally cast hinge with stainless steel pins at the mounting ends. The housing shall be cast with integral cooling fins over the optical chamber and electrical compartment. The reflector module shall be Type III light distribution.

A one hand cam-latch shall be provided for the lens door. The luminaire finish shall be a white thermoset polyester powder-coat paint, electrostatically applied and oven cured. The nominal thickness of the final finish coat shall be 2.5 mil.

Hardware shall be of corrosion-resistant materials.

Electrical module shall be provided for quick, easy field servicing. All electrical components shall be mounted to the module power pad.

An 85 amp, 600 volt box clamp terminal block shall be mounted to housing inside electrical compartments to facilitate field wire connections. The block shall be factory prewired to the ballast module disconnect plug.

Gasket shall be a high temperature, one piece extruded and vulcanized E.P.D.M. material.

The luminaire shall be Kim Lighting Catalog Number IA/AR3/250HPS480/WHP/SF-TB and Hadco #S7830-250-HPS-480-WHT or approved equal.

The 250 watt HPS lamp shall have a rated life of 24,000 hours and be equal in quality, design and performance to General Electric Co. LU250.

III. Installation

The 250 watt HPS luminaires shall be installed as shown on the drawings and indicated in the field by the engineer.

IV. Quotation

The 250 watt HPS luminaire shall be quoted as a unit price each in the appropriate place of this document.