

S. C. ELECTRIC COOPERATIVES'

100 WATT HPS LIGHTING PACKAGE SPECIFICATIONS

This package shall include all materials for installing a 100-watt high pressure sodium fixture on a wooden pole.

The luminaire housing shall be die-cast aluminum. Housing shall meet all EEI-NEMA dimension standards. Housing shall include a single-bolt leveling device operating in conjunction with slipfitter mounting screws.

The reflector shall be hydroformed from sheet aluminum and shall conform to all dimensions as outlined in the applicable EEI-NEMA standards. Reflector is attached to the luminaire housing by means of two toggle latches.

The refractor shall be made of acrylic with open bottom design and straight sides effecting light distribution pattern IES Type V. The refractor shall be securely attached to the reflector.

The photo control receptacle contacts shall be phosphor bronze coated.

A 180 joule (minimum) MOV lightning arrester shall be installed in the head.

(Choose One)

- _____ Furnish package with photo control - as per attached SC Electric Cooperatives' Electronic Photocontrol Specification.
- _____ Furnish package without photo control.

The starter board shall be encapsulated, plug-in type and easily removed by a lineworker wearing insulating rubber gloves. If specified by the purchaser, the starter board socket shall accommodate the proposed ANSI-NEMA standard starter.

The ballast shall be a high pressure sodium 120V AC reactor type rated 100 watts.

The lamp socket shall be mogul base and have nickel-plated brass contacts. The center contact shall be spring-loaded. The socket base shall be fully insulated.

The lamp shall be a clear 100 watt high pressure sodium mogul base lamp manufactured by GE (LU100), Sylvania (LU100) or Phillips (C100S54). If specified by the purchaser, the lamp shall be the "non-cycling" type.

The terminals shall have pressure connectors to accommodate wire sizes as large as #8 AWG.

The luminaire housing shall have slipfitter mounting for use with 1 1/4"-2 3/8" pipe size mast arm. The mast arm is to be curved and have a 24-inch mounting distance. Arm shall be 1 1/4" diameter (minimum) aluminum pipe with bracket for mounting to a round wooden pole. Include provision for grounding of assembly to include a galvanized or stainless steel 3/8" X 1" carriage bolt with washer and nut.

There shall be one white and one black five-foot long #14 AWG (minimum) copper leads with 105°C (minimum) insulation.

The mounting hardware shall all be hot dipped galvanized steel and shall consist of two 3/8" x 3" lag screws, one 5/8" x 10" galvanized machine bolt, one 5/8" square nut and one 2 1/4" square washer.

This lighting package shall have a five (5) year manufacturer's warranty.

RCD 8/22/07 (revised)