

1200 TUNGSTEN FOLLOWSPOT SPECIFICATION

June 6, 2013

Part 1 GENERAL

1.01 RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions, apply to work of this section

1.02 DESCRIPTION OF WORK:

- a. The Intent of this specification is to provide for the furnishing, installing, testing and placing in operation Tungsten Followspots. This equipment is designed to provide high quality lighting capabilities, with maximum ease of use and reliability for the wide variety of functions housed in these facilities.
- b. This Contractor shall provide all labor and materials and make all necessary arrangements, except as specifically noted herein, so that when the Contractor is finished, a fully working Followspot system will be turned over to the Owner. Any errors, omissions, or ambiguities are not to condition this requirement, but shall be brought to the attention of the Owner in their possible effect on the intent of this specification.

1.03 QUALITY ASSURANCE:

- a. The equipment specified is the result of efforts to select equipment for reliability, ease of maintenance, and suitability for the Owner's purposes. Strict adherence to these specifications shall be required.
- b. Manufacturers:
 1. Provide products by the manufacturers indicated on the drawings and specifications. This apparatus is fully catalogued and described with complete technical data available from the manufacturers.
 2. Manufacturer approval shall not relieve the manufacturer from meeting the full requirements and intent of these specifications on each product specified.
 3. Alternate Manufacturers or Products shall be acceptable only when they are submitted and approved at least ten days prior to the bid. Only equipment that in the opinion of the Owner's Designated Representative equals or exceeds the features specified will be considered.
 - A. The Bidder shall provide working samples of proposed alternate equipment including lamping for any lighting fixtures, to be delivered to the premises designated, for examination by the Architects, Engineers, and such representatives as the Owner may direct. Handling shipping and delivery to, or removal from the site, of any sample required shall be at the cost of the Bidder.
 - B. The bidder shall further provide evidence of the alternate manufacturer's ability and plans to support the Followspots with service, parts and accessories.
 - C. Proposals which fail to address specification requirements or review comments will be rejected.
 4. Equipment by a manufacturer which has not been approved prior to the bid shall not be acceptable.

c. Warranties:

This contractor shall warranty the Followspots specified herein (except lamps) to be free from defects of material or workmanship for a period of two year from the date of acceptance. During the period of this warranty equipment which proves to be defective shall be repaired or replaced at no charge.

1.04 OPERATION AND MAINTENANCE MANUALS:

When the installation is complete, the owner shall be supplied with:

- a.** One (1) set of Operation and Maintenance Manuals per unit, including Safety and Maintenance information on all major units and principal components of the system.

1.05 PRODUCT STORAGE, DELIVERY AND HANDLING:

- a.** Deliver Followspots securely cushioned in fiberboard type containers.
- b.** Handle equipment and controls carefully to prevent breakage, denting and scoring finish. Do not install damaged equipment and controls; replace and return damaged units to equipment manufacturer.

Part 2 PRODUCTS

2.01 FOLLOWSPOT

- a.** The basis of this design shall be the Lycian Zot12 follow spotlight. Only Followspots manufactured in the USA shall be acceptable.
- b. Physical**
 - 1. The unit frame and enclosure shall be constructed of formed cold rolled steel and sturdy aluminum extrusions, free of burrs and protected by a black powder coat finish with powder coat accents.
 - 2. A handle shall be provided to facilitate smooth operation and to lift the unit.
 - 3. A yoke with 1-1/8" industry standard spigot with three-point floor stand is to be included. Using standard and custom 1-1/8" fittings a variety of mounting options are available.
 - 4. The yoke/stand will include:
 - A. Easy height adjustments,
 - B. Horizontal Swing Control Lever and
 - C. Vertical Tilt Control Lever
 - 5. The Power Supply shall be self-contained in the followspot, mounted in an easily removable tray for servicing. Followspots containing external power supplies shall not be acceptable.
 - 6. Weight of Head unit shall not exceed 78 pounds.
 - 7. Length of head unit with all controls shall not exceed 42-1/4".

c. Controls

8. The Lamphouse shall as a minimum incorporate the following:
 - A. Quiet forced-air cooling by internally wired fans;
 - B. Bayonet twist lamp mount/lamp combination
 - C. Bulb positioning controls.
9. The body of the unit shall, as minimum incorporate the following:
 - A. Nichrome steel iris
 - B. Fader
 - C. Spot Size Controller
 - 1) This followspot shall be capable of producing a continuous range of field angles from 1.9 degrees in spot to 9.5 degrees in flood
 - D. Fine Focus Control allowing adjustment between soft and sharp edges
 - E. An internal 6 color, self-canceling boomerang. Front mounted and color boomerangs that allow color frames to hang outside the main housing are not acceptable.

d. Optical

10. The unit's optical train shall consist of :
 - A. Socket mounted 1200 watt single-ended tungsten lamp
 - B. Fixed Optical Quality faceted dichroic glass reflector
 - C. Fixed focus lens system utilizing 8" optical-quality glass front lens. Units having less than 8" lens is not acceptable
 - D. Lycian manufactured Nichrome Iris
 - E. Fine Focus knob for edge hardness adjustment
11. The spot size control shall increase light intensity as it decreases the spot diameter

e. Electrical

12. Tungsten lamp system input shall be 110-120 V.AC, 60 Hz, single phase
13. Power Supply shall be inside spotlight unit
14. Lamp shall be Philips 1200 watt Hi Brite Fast-Fit or Osram 1200 watt Lok-It.

f. Performance

The Field diameter at a 100 foot throw shall be continuously adjustable from 16.4 feet in Flood focus to 1.75 feet in Spot focus.

- g.** Furnish ___ Zot 1200's complete with followspot head, ballast, standard 3 leg castered base and ballast power cables and all necessary accessories

Part 3 EXECUTION

3.01 INSTALLATION:

- a.** This Contractor must examine areas and conditions under which followspots are to be installed and notify owner in writing of conditions detrimental to proper completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in an acceptable manner.
- b.** Prior to energizing the followspots, all wiring shall be checked and tested to insure the system is free from grounds, opens and shorts.

3.02 SYSTEM COMMISSIONING:

- a.** After installation is complete, and before energizing the followspots, this contractor shall provide the services of a factory trained and authorized technician to commission the system as follows:
 - 1. Safely lamp each followspot
 - 2. Mechanically adjust the followspots to correct any misalignment caused by transportation or handling during the construction period.
 - 3. Trim the light output of each followspot to maximize intensity with flat field.
- b.** This Contractor shall provide training to instruct persons designated in the safe operation and maintenance of the followspot system
- c.** This Contractor shall further submit certificates stating installed system is operating properly and complies with manufacturer's recommendations.

***** END OF SPECIFICATION *****