

750 WATT TUNGSTEN FOLLOWSPOT SPECIFICATION
MAY 22, 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

1.01 DESCRIPTION OF WORK:

- a. The Intent of this specification is to provide for the furnishing, 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.

1.02 WORK EXCLUDED:

The following work is not included in this section:

- a. Receiving, uncrating, and placing in position of the Followspots;
- b. Electrical work, including the wiring of power receptacles to feed the Followspots.

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 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 parts and accessories.
 - 4. Proposals which fail to address specification requirements or review comments will be rejected.
 - 5. Equipment by a manufacturer which has not been approved prior to the bid shall not be acceptable.

c. Warranties:

1. The Followspots specified herein (except lamps) shall be warranted by the manufacturer to be free from defects of material or workmanship for a period of two yearS from the date of acceptance. During the period of this warranty, components which prove to be defective shall be repaired or replaced at no charge. Manufacturer's warrantees less than two years are not acceptable.
2. This contractor shall coordinate all warranty repairs and replacements in cooperation with the owner.

1.04 OPERATION AND MAINTENANCE MANUALS:

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

1. One (1) set of **Operation and Maintenance Manuals**, 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 wrapped in factory containers.
- b. Handle equipment and controls carefully to prevent breakage, denting and scoring of 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 1239 Clubspot 7.5 follow spotlight, as manufactured by Lycian Stage Lighting of Sugar Loaf, NY.
- 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 and grey wrinkle powder coat finish.
 - A. The lamphouse shall include venting to direct heat out of the followspot lamphouse. Cooling requirements shall by with one low speed, low volume muffin fan.
 - B. The unit shall be mounted on a stable, fixed three-point stand with locking casters.
 2. Weight of the followspot Head and Base shall not exceed 91 pounds.
 3. Length of head unit with color changing boomerang shall not exceed 42-1/8".
- c. Controls
 1. The Lamphouse shall, as a minimum incorporate the following:
 - A. Forced-air cooling by internally wired fan
 - B. ON/OFF control is located on the followspot body
 - C. Rear door tungsten bulb mount
 2. The body of the unit shall, as minimum incorporate the following:
 - A. Three Control Levers on top:
 - 1) Top mounted fader mechanism for smooth manual dimming
 - 2) Nichrome steel iris

- 3) Horizontal shutter
 - B. Trombone style zoom focus
 - C. Spot edge focus adjusting knob
2. The unit shall house a six color manual boomerang
 - A. Boomerang shall be rigidly mounted internally to the body of the followspot
 - B. Front mounted boomerangs shall not be acceptable.
3. The stand/yoke shall incorporate:
 - A. Horizontal Swing Control Lever
 - B. Vertical Tilt Control Lever
 - C. Height Adjustment
- d. Optical**
 1. The unit's optical train shall consist of
 - A. 750 watt single ended tungsten lamp.
 - B. Variable focus condenser lens system utilizing Optical-quality glass
 - C. Iris, Chopping Shutter and Dowser for beam shaping control
 - D. Six color boomerang
 - E. Gobo slot
 2. The zoom focus shall increase light intensity as it decreases the spot diameter.
 3. The light color temperature shall be 3250° Kelvin ($\pm 200^\circ$ K.). (Lamp dependent)
- e. Electrical**
 1. Tungsten lamp system input shall be 100-120 V.AC, 60 Hertz, single phase, 15 ampere maximum and fused for 20 amperes. Alternate voltage and frequency units shall be available for international current.
 2. Internal magnetic power supply.
 3. Only those lamps recommended by followspot manufacturer are acceptable.
- f. Performance**
 1. Adjusted for flat field (approximately 70%) the unit shall produce 77 foot candles @ 80 feet in Spot focus
 2. The Field diameter at an 80 foot throw shall be continuously adjustable from 18.3 feet in Flood focus to 7.75 inches in small spot. Minimum spot with iris shall be 9".
 3. Field soft to hard edge focus shall be changed with an adjusting knob.
- g.** The following Optional accessories shall be available at and after time of purchase:
 1. Gobo Holder
- h.** Furnish _____ #1239 Clubspot 7.5 Long Throw followspots, complete with 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 by the owner 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 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.** The Contractor shall further submit certificates stating installed system is operating properly and complies with manufacturer's recommendations.

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