

1.01 WASH LIGHTING

A. General

1. Luminaire shall be a 575 or 750-watt hybrid parabolic reflector spotlight with a G9.5 medium two-pin or HPL based socket with heat sink to accept an axially mounted tungsten-halogen lamp, housed inside high-grade aluminum, chemically polished and coated. Reflector shall be designed for use with Bi-plane filaments (GLA, GLC, or HPL).
2. The fixture shall be constructed of rugged die-cast aluminum lamp housing and cap.
3. Each unit shall include four tool free interchangeable lenses (VNSP, NSP, MFL, WFL). Lens changes shall be possible regardless of fixture orientation. Luminaires not offering this feature will not be acceptable.
4. Luminaire shall be equipped with rigid flat steel with locking dog tilt handle, and indexed pivot angle markings.
5. Luminaire shall be supplied with an insulated rear mounted ring handle, which serves as a cord wrap, stand, and positioning aid.
6. Luminaires shall be supplied with safety cable, and a three-foot (.9 M), three-wire lead encased in a black fiberglass sleeve.
7. IES Photometric files shall be available upon request from the manufacturer to model light output using the industry standard design software.
8. The fixture shall be ETL Listed to UL1573 for stage and studio use as well as Portable Electric Luminaires (UL Standard 153), Surface Mount Luminaires (UL Standard 1598) and CE Marked.

B. Physical

1. The fixture shall be constructed of an Aluminum Die cast shell. Construction shall employ all corrosion-resistant materials and hardware and shall be free of pits and burrs.
 - a. Standard Finish shall be Epoxy Sandtex black, electrostatic application. The fixture shall be available with optional white, and custom color finishes as specified.
 - b. The housing shall serve as a convection chimney when installed in a vertical or horizontal orientation.

2. Fixture dimensions shall be 11.75" (300mm) L x 15.25" (390mm) H x 8" (203.2mm) Dia. and weigh 18lbs (8.16kg).
3. Each unit shall be provided with a low friction lens holder fully rotational via three insulated finger tabs.
4. Fixture shall be equipped with three replaceable two-slot accessory holder with tool-free quick release lens holder clips with self-closing and self-locking accessory retaining latch.
5. An integrated rigid flat steel yoke with locking dog tilt handle shall be available for overhead pipe mounting.
 - a. Pipe mounted fixtures shall require, as an additional accessory, a cast iron C-clamp Altman #510 suitable for use on up to 2" (50mm) O.D. pipe. Clamp must incorporate a 360-degree rotational "safety stud" with locking bolt. Any clamp not offering this safety feature will not be acceptable.
 - b. Fixtures shall be supplied with safety cable for use when securing the fixture to a pipe.

C. Thermal

1. The luminaire shall be cooled via natural convection with no aide of fans or other cooling systems.
2. Ambient operating temperature shall be 32°F to 104°F (0 – 40 °C) non-condensing and IP-20 rated for indoor dry location use.

D. Electrical

1. The fixture shall receive power via a 5'-0" (1.5m) inline hardwired power cord with:
 - a. 2 P&G (Stage Pin)
 - b. NEMA 5-15P
 - c. NEMA L520 (Twistlok)
 - d. Territory Power Plug

E. Optical

1. All lenses to feature cosine beam and field distribution and feature a 4:1 beam to field distribution ratio.
2. Each unit shall include four tool free interchangeable lenses (VNSP, NSP, MFL, WFL). Lens changes shall be possible regardless of fixture orientation. Fixtures not offering this feature will not be acceptable.
3. Four (4) different Lens assemblies shall be available in variations of:

- a. VNSP (Glass Very Narrow Spot)
 - b. NSP (Glass Narrow Spot)
 - c. MFL (Glass Medium Flood)
 - d. WFL (Wide Flood)
4. Fixture shall employ a high-grade aluminum reflector polished to a mirror finish.

END SPECIFICATION

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