1.01 PROJECTOR SPOT / FLOOD LIGHT

A. General

1. The luminaire shall be an Altman Lighting Gallery spotlight as manufactured by Altman Stage Lighting., or approved equal

2. The unit shall be dimmable using ANSI 1.11 USITT DMX512-A / ANSI E1.20 RDM (Remote Device Management), Mains Dim Phase cut, DALI, and 0-10v control.

3. The Luminaire shall be a fully scalable fixture utilizing Five (5) different lens types to allow each luminaire to act as either a spot or a wash. Luminaires not employing this versatility and convertibility shall not be accepted.

B. Physical

1. The luminaire shall be constructed of die cast aluminum, free of burrs and pits, finished in high temperature powder coat paint.
   a. Luminaires shall be available in black, white, silver and custom colors as specified
   b. Accessories and painted parts shall be color-matched to the specified color.
   c. Exceptions to color-matching shall be noted prior to custom paint approval.
   d. Non-painted parts shall be available in black, white or silver.
   e. Accessory Slots shall employ a three position locking slot allowing for color media and external beam shaping accessories such as top hats, concentric rings, barn doors, and tapered snoots.
   f. Mounting options shall include:
      1) Altman Smart Track (DMX or DALI)
      2) Ceiling Canopy Mount
      3) Portable Mount
      4) Pendant
      5) Unistrut

2. Luminaire shall be a fully convertible fitting, a lens change shall be all that is necessary to change from a wash to a profile spot light. Lens changes shall be completely tool-free. Luminaires that do not offer this level of flexibility shall not be accepted. The Lens offering shall include:
   a. Wall Wash at a fixed 85 degree asymmetric beam spread
   b. Beam Wash with a 15-60 degree beam spread
   c. Zoom Profile spot with a 15 – 35 degree beam spread
   d. Zoom Profile spot with a 25 –50 degree beam spread
   e. Flood at a fixed 85 degree beam spread

3. The luminaire:
    a. Shall utilize stainless steel shutters constructed A301 grade aluminum or better.
    b. Shall provide a 360 degree lens rotation independent of shutter rotation.
    c. Shall provide an independent pattern and shutter assembly capable of 360 degree rotation.
    d. Profile Spot light shall have a slot with a removable cover for patterns/ gobos
        1) Shall allow for use of E-sized metal and glass patterns
        2) Shall include a pattern holder
    e. Shall have a single arm aluminum yoke allowing at least 320 -degree tilt of the fixture within the yoke.
    f. Shall have tool-free tilt and beam adjustment, while allowing for tool-tightening at all movement points.

C. Electrical

1. The luminaire shall be available in:
    a. 100 – 277 VAC 50/60 Hz for Dali and DMX versions (40 Watt)
    b. 120 -277 VAC 50/60 Hz for Phase cut mains and 0-10vac dimming. (42 Watt)
2. The luminaire shall employ cooling system with an ambient dBa level no greater that 7dBa registered at the luminaire and shall be imperceptible to the human ear.
    a. The Luminaire shall employ an active cooling sensing system which will shut down the led in the event of a cooling system failure. Luminaires not employing shut down safety circuity shall not be accepted.

D. Optical

1. The luminaire shall utilize high-contrast aspheric lenses, with an anti-reflective coating and edge blackened lensing to increase transmission, with:
    a. Adjustable hard and soft beam edges
    b. Crisp pattern imaging without significant halation
    c. Sharp shutter cuts without halation
    d. Beam wash and wall wash to provide a soft beam from center to edge with a 2:1 cosine distribution from center to edge of beam
2. The luminaire shall utilize a two plane shutter design to provide adjustable framing angles with the ability to overlap cuts.
    a. The luminaire design shall have built-in active heat dissipation to prevent shutter warping and burnout in normal use.
3. The luminaire shall be capable of being fitted with barn-doors to further control beam shape.
4. The luminaire shall utilize a single LED >92 CRI emitter and be available in configurations that include:
    a. 2,700 Kelvin

b. 3,000 Kelvin

c. 4,000 Kelvin

d. 5,000 Kelvin

5. The dimming of the luminaire shall be flicker free all the way to complete 0. Luminaires which do not dim smoothly to complete 0 shall not be acceptable.

6. The LED shall be rated for an average of 70% output after 50,000 hours of use (L70 Rating).

7. The luminaire shall have an expected average power consumption of 40W maximum.

8. The luminaire shall have a minimum output of 3600 lumens in DMX / Dali versions.

>>>END GALLERY SPECIFICATION>>>>>