## projector spot / flood light

### General

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

#### 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.

#### 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.

### Physical

#### The luminaire shall be constructed of die cast aluminum, free of burrs and pits, finished in high temperature powder coat paint.

##### Luminaires shall be available in black, white, silver and custom colors as specified

##### Accessories and painted parts shall be color-matched to the specified color.

##### Exceptions to color-matching shall be noted prior to custom paint approval.

##### Non-painted parts shall be available in black, white or silver.

##### 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.

##### Mounting options shall include:

###### Altman Smart Track (DMX or DALI)

###### Ceiling Canopy Mount

###### Portable Mount

###### Pendant

###### Unistrut

#### 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:

##### Wall Wash at a fixed 85 degree asymmetric beam spread

##### Beam Wash with a 15-60 degree beam spread

##### Zoom Profile spot with a 15 – 35 degree beam spread

##### Zoom Profile spot with a 25 –50 degree beam spread

##### Flood at a fixed 85 degree beam spread

#### The luminaire:

##### Shall utilize stainless steel shutters constructed A301 grade aluminum or better.

##### Shall provide a 360 degree lens rotation independent of shutter rotation.

##### Shall provide an independent pattern and shutter assembly capable of 360 degree rotation.

##### Profile Spot light shall have a slot with a removable cover for patterns/ gobos

###### Shall allow for use of E-sized metal and glass patterns

###### Shall include a pattern holder

##### Shall have a single arm aluminum yoke allowing at least 320 -degree tilt of the fixture within the yoke.

##### Shall have tool-free tilt and beam adjustment, while allowing for tool-tightening at all movement points.

### Electrical

#### The luminaire shall be available in:

##### 100 – 277 VAC 50/60 Hz for Dali and DMX versions (40 Watt)

##### 120 -277 VAC 50/60 Hz for Phase cut mains and 0-10vac dimming. (42 Watt)

#### 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.

##### 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.

### Optical

#### The luminaire shall utilize high-contrast aspheric lenses, with an anti-reflective coating and edge blackened lensing to increase transmission, with:

##### Adjustable hard and soft beam edges

##### Crisp pattern imaging without significant halation

##### Sharp shutter cuts without halation

##### 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

#### The luminaire shall utilize a two plane shutter design to provide adjustable framing angles with the ability to overlap cuts.

##### The luminaire design shall have built-in active heat dissipation to prevent shutter warping and burnout in normal use.

#### The luminaire shall be capable of being fitted with barn-doors to further control beam shape.

#### The luminaire shall utilize a single LED >92 CRI emitter and be available in configurations that include:

##### 2,700 Kelvin

##### 3,000 Kelvin

##### 4,000 Kelvin

##### 5,000 Kelvin

#### 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.

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

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

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

###### >>>END GALLERY SPECIFICATION>>>>>