SHOWLINE SL PARBLAZER 100 UV LED LUMINAIRE SPECIFICATIONS.

GENERAL.

A.) Overview.

1.) The luminaire shall be a LED luminaire employing forty (40) LED engines.

2.) The luminaire shall conform to UL 1573 stage and studio use as well as UL 8750 LED standards and tested via ETL to conform to the aforementioned UL specifications. The luminaire shall hold ETL, cETL and CE markings.

3.) The luminaire shall conform to USITT DMX-512A(RDM) protocol standards.

4.) The luminaire shall employ forty (40) LED light source engines will emit light in the ultra-violet spectrum (wavelengths under 400nm for UV-A,B, or C. Units that emit light over this this wavelength shall not be accepted.

5.) The luminaire shall have an integrated control system that provides local controls offering access to set up parameters.

6.) The luminaire shall be a wash luminaire with a fixed twenty (20) degree homogenized output.

7.) The luminaire shall have an output of 17,000 mW

8.) The luminaire shall have control inputs for:

   a. DMX512 with input/output connectivity via a 5 Pin DMX connector

   b. RDM with input/output connectivity via a 5 Pin DMX connector

9.) .All LED luminaires shall be provided by a single manufacturer to ensure over all compatibility.

B.) Physical

1.) The construction of the unit shall be die cast aluminum.

2.) The luminaire shall be of compact dimensions, not exceeding 10.9 inches [278 mm] in length, 13.85 inches [352 mm] in height and 10.8 inches [274 mm] in width.

3.) The luminaire shall weigh no more than 17.82 lbs. [8.1 kg].

4.) The luminaire shall provide a split yoke design consisting of a primary outer yoke and a secondary inner yoke. It shall be possible to mount the luminaire on a floor without an additional floor stand accessory.

5.) A safety cable attachment point shall be located on the top of the luminaire.

E.) Mechanical Data.

    1.) A heat sink integrated into the luminaire design shall be used for silent passive cooling. Luminaires utilizing fans for active cooling shall not be accepted.

    2.) A LCD menu system shall provide essential system information and operational controls.

    3.) The finish shall be matt black.

    4.) The luminaire shall be supplied with a limited two-year warranty when used in normal applications.

    5.) The luminaire shall have a manual pan and tilt system comprising a yoke and plastic tilt knob.

    6.) The luminaire shall be rated for outdoor use to IP65.

C.) Electrical.

    1.) Supply Voltage shall be 120 to 240V, 50/60Hz. (+/- 10% auto-ranging)

    2.) The luminaire current draw shall not exceed 100 watts at full output.

    3.) The light source shall consist of forty (40) two ½ (2.5) watt UV LED engines. It shall be possible to control all nineteen engines together.

    4.) The luminaire shall be ETL and cETL listed, and CE marked.

D.) Environmental.

    1.) Maximum operating ambient temperature shall not exceed 104 degrees Fahrenheit (40 degrees Celsius)

    2.) A silent passive cooling system shall be employed to maintain the optimal operating temperature of the luminaire.

    3.) Luminaires shall be low maintenance and environmentally friendly, all units shall be mercury free.

E.) Operation.

    1.) The luminaire shall have control inputs for:

        a. DMX512 with input/output via an IP65 rated DMX Male and Female connector

        b. RDM with input/output via an IP65 rated DMX Male and Female connector.

        c. Luminaires utilizing proprietary only controls shall not be accepted.

    2.) DMX512 control will be via 8-Bit or 16-Bit mode.

a. Simple 8-Bit Mode (1 Channel)
　　　　　　a. Intensity

　　　　b. 16-Bit Mode (2 Channel)
　　　　　　a. Intensity Coarse
　　　　　　b. Intensity Fine

　　　　c. Luminaire addressing shall be setup via two different methods:

　　　　　　i. From the control menu – under Settings/DMX– set up the DMX address using the navigation arrows to set DMX 512 mode, LED grouping, and address.
　　　　　　ii. RDM – using any RDM controller, the DMX address shall be assignable via standard RDM commands.

3.) The luminaire shall include an onboard LCD display and controls of the following:

　　　a. Menu settings:
　　　　　　i. DMX Address
　　　　　　ii. Manual Dimming
　　　　　　iii. DMX Personality
　　　　　　iv. DMX Fail
　　　　　　v. Default Setting
　　　　　　vi. Temperature
　　　　　　vii. Firmware
　　　　　　viii. RDM UID

Luminaires not utilizing this type of technology shall not be accepted.

4.) The luminaire shall provide temperature monitoring technology. This technology employs provides the operating temperature for the luminaire
5.)
Luminaires not utilizing temperature monitoring technology and luminaire status will not be accepted.

6.) The luminaire shall include forty (40) UV LED engines for the light output and delivering full field dimming - allowing for both smooth timed fades and fast blackouts.
　　　a. The LEDs used in the luminaire shall be high brightness and proven quality from established and reputable LED manufacturers.

　　　b. The 2.5W UV LED emitters used in the luminaire shall be rated for a nominal 25,000-hour LED life to 70% intensity at an ambient temperature of 40C.

　　　c. The luminaire (100% of each lot) shall undergo a minimum seventy-two (72) hour burn-in test during manufacturing.

F). DIMMING.

    1.) The luminaire, in 16-bit mode, shall use 16-bit nonlinear scaling techniques for high-resolution dimming.

        a. Dimming curves shall be selectable via the luminaire menu for various methods of smooth dimming over long timed fades.

        b. The luminaire shall be digitally driven using high-speed pulse width modulations (PWM) in concert with power factor control (PFC) to ensure a smooth flicker free dimming curve from 100 to 0 % and shall be imperceptible to video cameras and video related devices.

END OF SPECIFICATION.