Tender Specifications

SUNRISE2IP

IP rated modular LED blinder with
2x75W LED WW and Tungsten emulation

1. General

1. The luminaire shall be a modular 2x1 LED Blinder light, with DMX control of intensity including dimmer ramp with tungsten emulation.
2. The luminaire shall be CE compliant.
3. The luminaire shall comply with the USITT DMX-512 A and ANSI RDM E 1.20, 1.33, 1.37-1, 1.37-2, 1.37-7 protocol standards.
4. The luminaire shall feature 2 x COB (67W Warm White LED + 8W Amber LED).
5. The luminaire shall not infringe any Intellectual Property unless licenced by the owner.

2. Physical

1. The luminaire shall be constructed in sturdy die cast aluminium body, free of burrs and pits, conceived for long time durability.
2. The luminaire dimensions shall be:
    a) W: 432 mm (17.0") H: 230 mm (9.5") D: 102 mm (4.01")
    b) The luminaire shall weight 7,6 kg (16.75 lbs).
3. The luminaire shall be able to be mounted or stand on a surface. Fixture shall be suitably designed for operation in any enviromental conditions, for temporary outdoor use.
4. The luminaires shall have a tilt angle of 360 degrees.
5. The luminaire shall have suspension and fixing hanging bracket with " Quick-Lock" system.
6. The luminaire shall have a modular fast-locking assembly to combine multiple units together.
7. Power Supply and driver electronics shall be integral to the luminaire.

3. LED Emitters

1. The luminaire shall feature 2 COB LED emitters manufactured by LUMILEDS, with a total Rated power of 146 Watt, and total Driven power of 122 Watt.

2. The luminaire shall feature an LED source consisting only of LED emitters from a know production batch and bin.
3. The luminaires shall feature only LED emitters rated for nominal 70'000-hours LED life.
4. The luminaire shall feature a minimum of three hours burn-In test during its manufacturing process.
5. Fixtures shall have PWM frequency of 25KHz to avoid flicker on camera.

4. Photometric documentation

1. The luminaire shall be supplied with a full and detailed photometric report measured by a calibrated two axis photogoniometer in a constant temperature environment and with the luminaire in a stabilised condition with not more than 0.5% variation in output over a 15 minute period.
2. The photometric report supplied with the luminaire shall detail CRI, CQS, TM-30 and spectral distribution at full output.
3. The photometric report supplied with the luminaire shall detail the spectral distribution of each constituent LED colour of LED source.
4. The photometric report supplied with the luminaire shall detail light level measured in lux and foot candles and beam diameter measured in meters and feet at 1 m, 2 m, 3 m 4 m, 5 m, 6 m, 7.5 m, 10 m, 15 m, 20 m, 25 m 30 m, 40 m distance with the luminaire at the following beam angle: minimum beam angle, medium beam angle, maximum beam angle.
5. The photometric report supplied with the fixture shall include ISO LUX and candela diagrams, showing light distribution in both X and Y planes measured with the luminaire mounted at height of 10 meters.

5. Photometric performance and Opticals

1. The luminaire shall meet the following minimum photometric performance requirements which should be supported by the photometric documentation.
2. The luminaire shall have a lumen output > 10'000 lm at full on.
3. The luminaire shall have a CRI in excess of 93 at full on.
4. The luminaire shall have a beam angle of 60 degrees and a field angle of 100 degrees.
5. The luminaire shall feature a CCT of 2'700K (+/- 125 K) with LEDs at full on.

6. Electrical

1. The luminaire shall feature an internal auto sensing power supply with an input range from 100 V to 240 V AC 50/60 Hz protect by on board fuse.
2. The luminaire shall feature a nominal power consumption of 160 W.
3. The luminaire shall a Seetronic PowerCON True 1 main input connector.
4. The luminaire shall feature a Seetronic PowerCON True 1 main Through connector.
5. The luminaire shall feature a Seetronic 5 pin XLR connectorr for DMX input and DMX through.
6. The luminaire shall be compatible with the USITT DMX-512A RDM protocol.
7. The luminaire shall support firmware upgrades using a dedicated UP-LOADER device via the 5 pin XLR Connector.
8. The luminaire shall meet all requirements of the LVD (Low Voltage Directive) 2014/35EC and with the EMC (Electromagnetic Compatibility Directive) 2014/30/EU.

7. Environmental

1. The luminaire shall feature IP 65 rating.
2. The luminaire shal feature IK 08 rating.
3. The luminaire shall features a C2 minimum environment classification.
4. The luminaire shall features a C5M environmental classification available on request.
5. The luminaire shall be capable of operating in ambient temperature range of -10°C (14°F) to +45°C (113°F).
6. The luminaire shall feature a natural passive cooling and fan free.
7. Thermal management shall include LED board temperature sensor.
8. Users shall permit monitoring of temperature sensor via user Touch Graphic Display.
9. Fixtures that do not provide the active thermal monitoring of LED board, shall not be acceptable.

8. Control And User Interface

1. The luminaire shall feature a temperature sensor which shall be accessible in real time via RDM.

2. The luminaire shall be compatible with the ANSI RDM E 1.20, 1.33, 1.37-1, 1.37-2, 1.37-7.
3. Fixtures not offering RDM compatibility features access or temperature monitoring via RDM shall not be acceptable.
4. The luminaire shall offer 4 DMX control profiles.
   a) Standard DMX control profile shall have 6 channels control.
   b) Extended DMX control profile shall have 12 channels control.
5. The luminaire shall offer additional user definable options setting using the Touch Graphic Display to including:
   a) Loss of data behaviour need to hold last DMX frame or back to Stand Alone mode if selected.
   b) 4 selectable dimming curves.
   c) Master and Slave function for Stand Alone synchronization of more units linked together,
   d) Several pre-built macros with adjustable speed.
   e) Pixel2Pixel controllable separately.
   f) Strobe effect from slow to fast or fast to slow, pulse and random effect, selectable with dedicate DMX channel.
   g) Tungsten emulation function selectable from dedicate DMX channel.
   h) Transfering the same menu setting of one fixture to all the other in the daisy chain including or not the DMX address.
   i) All the functions are selectable from on board Touch Panel and from dedicated DMX channel.

9. Dimming

1. The luminaire shall feature continuous smooth and linear dimming of intensity from 0% to 100%.
2. LED control shall be compatible with broadcast equipment in the following ways:
   a) PWM control of LED levels shall be imperceptible to video cameras and related equipment.
   b) PWM rates shall be adjustable by the user at the fixture if necessary to avoid any visible interference on video camera and related equipment.

3. The luminaire shall feature a minimum of 4 options for dimming curves, selectable from the Touch Graphic Display or DMX charts.

10. Accessories

The following accessories shall be included in fixture supplied:

1. Quick-Lock omega bracket.
2. Hanging bracket.

The following accessories shall be available as an optional:

a) Different hanging brackets to combine multiple units together.
b) Flight case for 4 units.
c) Steel security cable.
d) Upbox 1.

Approved device shall be the PROLIGHTS SUNRISE2IP; no alternates or equals.