

1.01 SAI-500, Medium-Throw 440W LED Follow Spotlight

A. General

1. The luminaire shall be a 5,800K high CRI( $R_a \geq 93$ ) equipped with 400w white COB LED light source, 440 watt follow spotlight. The luminaire shall be the Sai-500CB LED follow spotlight from Ushio Lighting, Inc.
2. The luminaire shall incorporate a quiet cooling fan no greater than 42dB.
3. The luminaire shall be equipped with a mechanical iris that closes completely.
4. The luminaire shall comply with USITT DMX-512 standard.
5. The luminaire shall be ETL and CE compliant.
6. Luminous output shall produce no less than 111fc(1200lx) at 82ft(25m) at narrow beam.

B. Physical

1. The luminaire shall be constructed with sheet iron and finished in black.
2. The luminaire shall be shipped with:
  - a. adjustable and collapsible stand: STD-S500
  - b. 16.4ft(5m) long Neutrik® PowerCON TRUE1 TOP to NEMA plug
  - c. Gobo holder (B-size)
  - d. Removable color changer (Size: 6 inches x 6 colors)
  - e. Optical sight shall be available as an option.
3. The luminaire shall weigh no more than 63.93lb(29kg).
4. Overall dimensions of the luminaire shall not be larger than the following:
  - a. 23.98in(609mm) tall [including yoke]

- b. 16.77in(426mm) wide
  - c. 44.57in(1132mm) long
5. Operation angle range of luminaire shall be within 20°upward, 52°downward.
  6. Zoom, focus, douser and iris lever of the luminaire shall be equipped with resin to minimize the noise of the lever.
  7. The luminaire shall be equipped with a slot for frosted filter and B size gobo.
  8. Handles of the luminaire shall be positioned at both left and right sides so that the luminaire can be operated from preferable sides.
  9. Stand of the luminaire shall be equipped with casters and stopper. When using a stopper, a caster shall be locked in the same direction as a stand leg.
  10. The length of iris and dimming levers shall be different to minimize any confusion.

C. Thermal

1. The luminaire shall be equipped with dual cooling fans.
2. Fans shall automatically adjust for lowest possible noise output for a given luminance output.
3. Maximum ambient temperature of luminaire shall be 35°C(95°F).
4. Maximum surface temperature of luminaire shall be 53°C(127°F).
5. Minimum throw distance of luminaire shall be 3.3ft(1.0m).
6. Minimum offset distance of luminaire shall be 0.3ft(0.1m).
7. The luminaire shall be equipped with an abnormal temperature detections sensor to lower the LED output when an abnormal temperature is detected. When an abnormal temperature is detected, a green lamp on a control panel blinks as warning.

D. Electrical

1. The luminaire shall be equipped with 100V to 240V 50/60Hz

internal power supply.

2. Power input shall be via Neutrik® powerCON TRUE1 TOP.
3. The luminaire shall not consume more than 440w in normal operation.

E. Light Emitting Diodes

1. LED lifetime of the luminaire shall be 50,000 hours at 25°C(77°F) max.
2. Strobe function shall be equipped in the luminaire. (On:10ms, Off:90ms 10Hz)
3. LED power of the luminaire shall be automatically reduced when the iris is fully closed to protect the iris from the heat.

F. Optical

1. The luminaire shall be equipped with an anti-halation mechanism to achieve a clear spot surface.
2. The luminaire shall provide 5 – 15 degree zoom angles.

G. Dimming

1. The luminaire shall be equipped with 0-100% electrical dimming controlled by a conventional lever control.
2. Dimming curves shall be smooth with step less curves.
3. Dimming control of the luminaire shall be also controlled by DMX-512.

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