

1.01 SAI-300, Short-Throw 230W LED Follow Spotlight

A. General

1. The luminaire shall be a 5,800K high CRI($R_a \geq 90$) equipped with 225w white COB LED light source, 230 watt follow spotlight. The luminaire shall be the Sai-300CB LED follow spotlight from Ushio Lighting, Inc.
2. The luminaire shall incorporate a quiet cooling fan no greater than 35 dB.
3. The luminaire shall be equipped with a mechanical iris that closes completely.
4. The luminaire shall be ETL and CE compliant.
5. Luminous output shall produce no less than 1115fc(12000lx) at 16ft(5m) at narrow beam.

B. Physical

1. The luminaire shall be constructed with sheet iron, aluminum plate and finished in black.
2. The luminaire shall be shipped with:
 - a. adjustable and collapsible stand: STD- II /B
 - b. 16.4ft(5m) long Neutrik® PowerCON TRUE1 to NEMA plug
 - c. Gobo holder (B-size)
 - d. Removable color changer (Size: 6 inches x 6 colors)
3. The luminaire shall weigh no more than 37.5lb(17kg).
4. Overall dimensions of the luminaire shall not be larger than the following:
 - a. 15.6in(397mm) tall [including yoke]
 - b. 10.8in(275mm) wide
 - c. 42.9in(1090mm) long

5. Operation angle range of luminaire shall be within 45°upward, 45°downward.

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 48°C(118°F).
5. Minimum throw distance of luminaire shall be 1.0ft(0.3m).
6. Minimum offset distance of luminaire shall be 0.3(0.1m).
7. The luminaire shall be equipped with an abnormal temperature detections sensor. When an abnormal temperature is detected, a green lamp on a side of luminaire 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.
3. The luminaire shall not consume more than 230w 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)

F. Optical

1. The luminaire shall provide 7 – 14 degree zoom angles.

G. Dimming

1. The luminaire shall be equipped with 0-100% electrical dimming controlled by a local dimmer knob.
2. Dimming curves shall be smooth with step-less curves.

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