

TENDER DOCUMENT

Product Name:

F1 FC

Article Number:

CLF1FC

Short Description

Fresnel lens spotlight, for tunable white light and colored light, 2,500 luminous flux class

Specification Text:

It must be possible to remove the Fresnel lens completely for easy cleaning without the need for tools. The adjustment of the lens must be carried out via a movable tube, which remains self-locking in the set position by means of gear wheel linkage. Two adjustment knobs for beam angle adjustment must be located on the right and left of the base element. Screw clamps on the tube are not acceptable.

The light beam must distribute light evenly and have a soft light effect typical of Fresnel lenses and diffuse softly towards the edge. A light field with multi-shadows, color shadows, "halo" edges or color borders is not acceptable. Shadowing with a barn door must result in a straight shadow without multi-shadows. The color must not change when dimming. Dimming behavior must be appropriate for theater applications. Light pumping or switching behavior, even in the lowest setting range 0–5%, will not be accepted.

Operation must be carried out via three rotary-push encoders. Common four-key operation is not acceptable.

The menu display must have at least three rows and an additional status row must show the current mode.

A quick-light function should allow easy control of the spotlight without having to navigate through the menu.

Halogen behavior must be separately adjustable via Response Time and Redshift. At least 58 of the standard Lee colors must be directly available as color presets. It must be possible to gently fade from one color preset to another over a certain time. It must be possible for the operator to save at least 8 colors and recall them as color presets. In DMX single-channel mode, it must be possible to dim the color that has been saved as a preset color by the user. It must be possible to shift a white light color set via CCT toward or away from green via a tint channel. It must be possible to control each individual color LED via 16 bit. Color mixing via HSI must be possible. Calibration must ensure that the color space remains the same for a subsequent purchase of additional spotlights of this type. The bracket must be securely fastened in the desired position with a tommy screw. It must be possible to adjust the alignment of the locking screw toggle. The spotlight must not allow any stray light to emit from the housing from the sides or to the rear.

The spotlight must have plastic feet so that it can be set down securely and without scratching. Cooling must be adjustable in normal and silent operation. In Silent operating mode, the spotlight must ensure extremely quiet operation (theater-appropriate). It must be possible to operate the spotlight independently of the mains via standard V-mount rechargeable batteries (14.4 or 14.8 volts nominal). The housing surface must be matt and made of a scratch-resistant powder coating.

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Requested Data:Half-value angle: $\leq 15.4^\circ$ to $\geq 54.3^\circ$

Lens material: Plastic

External diameter: 150 mm

Tunable white color: 1600–6500K

Color mixing via: 10 x red, 10 x green, 6 x blue and 20 x white LEDs

Luminous intensity, spot: $\geq 16,600$ cdLuminous intensity, wide: $\geq 3,600$ cdLuminous flux: $\geq 2,600$ lmCRI: ≥ 89

PWM 600 Hz / 1,200 Hz / 2,000 Hz / 4,000 Hz / 6,000 Hz / 25,000 Hz

Dimmer curves: linear, exponential, logarithmic, S curve

Dimmer function: Response Halogen Simulation/LED, Redshift (DimToWarm)

Calibration modes: RAW, User, Factory

Behavior in the event of DMX failure: Hold, 0%, 100%, last stand-alone value.

DMX functions: Dimmer, Dimmer 16-bit, Strobe, RGB, RGBW, CCT with tint, HSI, Gel, User Color, Color Preset Crossfade, Dimmer Curve, Dimmer Response, PWM Frequency, Redshift, Fan Setting, Display, Default set

Protocols: DMX512, RDM

Stand-alone modes Dimmer, CCT with Tint, HSI, RGBW, Gel, User Colors 1–8, User Loops 1–8, Master/Slave

Display: Operating hours, LED temperature

Suspension bracket: M12 and bore for spotlight plate as per DIN 15 560

Adjustment aids: Tilt scale, zoom scale

AC input connector: Compatible with PowerCon True One

AC output connector: Compatible with PowerCon True One

DC input connector: 4-pin XLR

Signal in: 5-pin XLR

Signal out: 5-pin XLR

Protection class: 1

AC in: 100 V AC–240 V AC, 50–60 Hz

DC in: 11 V - 17 V DC

Pmax: 130 W

Color: Black

Housing material: Magnesium

Dimensions: $\leq 225 \times 225 \times 280$ mmWeight (without barn doors): ≤ 4.5 kg

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General:

The spotlight offered must meet CE standards, ETL Listing and FCC certified, or equivalent, and meet the UL1573 standard for studio and stage use.

The following accessories must be available as an option:

- V-mount rechargeable battery mount for the spotlight offered
- Update box for the spotlight offered
- Softbox adapted to the available spotlight shape

The following are to be included in the delivery:

- Suspension hook (coupler)
- Power supply cable Schuko 1.5 m (included)
- Safety cable
- Safety cable for accessories (included)
- Rotating 8-wing door with foil retaining clips (included)
- Color filter frame in quality metal (included)