

# TENDER DOCUMENT

**Product:**

F4 FC

**Article number:**

CLF4FC

**Brief Description:**

Fresnel lens spotlight, for tunable white light and colored light, in the 10,500 luminous flux class

## Specification Text:

It must be possible to remove the Fresnel lens completely for use with a softbox and 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. The frequency of the dimming must allow a frequency of 25 kHz, must be switchable at different frequencies and must not fall below a frequency of 800 Hz. 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 red shift. 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). The housing surface must be matte and made of a scratch-resistant powder coating.

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## Required data:

Half-value angle:  $\leq 14^\circ$  to  $\geq 54^\circ$ 

Lens quality: Glass

Lens diameter: 250 mm

Tunable white color: 1,600–6,500 K

Color mixing via: red, green, blue, and white LEDs

Luminous intensity, spot:  $\geq 81,000$  cdLuminous intensity, wide:  $\geq 15,000$  cdLuminous flux:  $\geq 10,500$  lmCRI:  $\geq 95$ 

PWM 800 Hz, 1,200 Hz, 2,000 Hz, 3,600 Hz, 12,000 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 setting

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

Signal in: 5-pin XLR

Signal out: 5-pin XLR

Protection class: 1

AC in: 100 V AC–240 V AC, 50–60 Hz

Pmax: 355 W

Color: Black

Housing material: Die-cast aluminum

Dimensions:  $\leq 410 \times 364 \times 433$  mmWeight (without barn doors):  $\leq 18$  kg

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## General:

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

The following accessories must be available as an option:

- Update box for the spotlight offered
- Softbox adapted to the available spotlight shape

The following are to be included in 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)