

TENDER DOCUMENT

Product Name:

F1 D

Article Number:

CLF1D

Short Description

Fresnel lens spotlight, daylight, 6000 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 in the set position self-locking by means of gear wheel linkages. 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, "halo" edges or color edges is not acceptable. Shadowing with a barn door must result in a straight shadow without multi-shadows. The color temperature 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 a central rotary-push encoder. A 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.

If there is no DMX control signal, but the device is in DMX reception mode, it must be possible to adjust the brightness of the spotlight immediately by turning the encoder without using the editing menu. 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

White light color: 5600 K

Luminous intensity, spot: $\geq 38,500$ cdLuminous intensity, wide: $\geq 5,700$ cdLuminous flux: $\geq 5,800$ 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.

Response time: LED, halogen simulation

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

DMX functions: Dimmer, fine dimmer, strobe, dimmer curve, dimmer response, PWM frequency, fan setting, display, default setting

Protocols: DMX512, RDM

Stand-alone modes Dimmer, strobe, master/slave, Quick Light

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: 90 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)