

TENDER DOCUMENT

Product:

TS 200 FC

Article number:

CLTS200FC

Brief Description:

Fresnel lens spotlight, for tunable white light and colored light, 5,000 luminous flux class

Specification Text:

To change the beam angle, the LED must be moved via a spindle drive in the position relative to the fixed Fresnel lens. Spindle adjustment must be carried out via a control dial on the rear. Screw clamps or a movable 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" borders or color borders is not acceptable. Shadowing with a barn door must result in a straight shadow without multi-shadows. 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. An extended color space must be covered by using a cyan-colored LED in addition to the blue LED, a lime-colored LED in addition to the green LED, and an amber-colored LED in addition to the red LED. Operation must be carried out using a standard four-key operation. The menu display must be capable of displaying graphics and have at least a 2-line structure. A Static mode 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 15 common colors must be directly available as color macros. It must be possible to gently fade from one color preset to another over a defined time. In DMX single-channel mode, it must be possible to dim the color last set by the user to stand-alone modes Macro, HSI, CCT, or Direct. 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. Color mixing via HSI must be possible. The user must be able to dim individual colors via a mode (user calibration). This dimming must have a proportional influence on all actuations.

The bracket must be able to be securely fastened in the desired position with tommy screws on both sides. 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: $\leq 13^\circ$ to $\geq 50^\circ$

Lens material: Plastic

Tunable white color: 2,800–8,000 K

Color mixing via: red, green, blue, amber, cyan, and lime LEDs

Luminous intensity, spot: $\geq 34,200$ cdLuminous intensity, wide: $\geq 9,300$ cdLuminous flux: $\geq 5,300$ lmCRI: ≥ 90

PWM 650 Hz, 1,530 Hz, 3,600 Hz, 12 KHz, 25 KHz

Dimmer curves: linear, exponential, logarithmic, S curve.

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

Calibration modes: User

Behavior in the event of DMX failure: Hold, 0%.

DMX functions: dimmer, dimmer 16-bit, strobe, RGBALC, CCT with tint, HSI, 15 color macros, color preset crossfade, dimmer curve, dimmer response,

PWM frequency, redshift, fan setting, display, default setting

Protocols: DMX512, RDM

Stand-alone modes: CCT with tint, HSI, RGBALC, 15 color macros, auto 1–6, slave

Display: Operating hours, LED temperature, firmware

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

AC input connector: PowerCon

AC output connector: PowerCon

Signal in: 3-pin and 5-pin XLR

Signal out: 3-pin and 5-pin XLR

Protection class: 1

AC in: 100 V AC–240 V AC, 50–60 Hz

Pmax: 200 W

Color: Black

Housing material: Die-cast metal

Dimensions: $\leq 320 \times 370 \times 310$ mmWeight: ≤ 8.1 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

The following are to be included in delivery:

Suspension hook (coupler)

Power supply cable Schuko 1.5 m (included)

Safety cable

Rotating 4-wing door (included)

Color filter frame in quality metal (included)