

# CANTATA LED FRESNEL, FC

Date: \_\_\_\_\_

Type: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Project: \_\_\_\_\_

The Cantata LED Fresnel Full Color (FC) is a modern LED theatrical Fresnel designed for midsized applications. This full color luminaire uses an RGBALC (Red, Green, Blue, Amber, Lime & Cyan) color mixing system for a wide mixable color spectrum, but it can be easily controlled with traditional CYM controls using the SmartColor Control system. The Cantata LED Fresnel is also available in tunable cold white (4000K to 6500K) and tunable warm white (2700K to 4500K) versions, offering a consistent CRI exceeding >94 CRI across all color temperatures. Cantata uses a manually operated zoom system located on either side near the front of the luminaire, providing a smooth zoom range of 10° to 55°. The locking default standard size accessory rails located at the front of the fixture allows for further beam shaping using the optional 8 leaf barn door or third-party accessories. To ensure these high-powered LED fixtures are suitable for use in the quietest of applications, the Cantata LED utilizes SmartFan Control technology with Standard, Studio, and Whisper modes.



- High output midsized LED theatrical luminaires - modern fixtures with quality you can trust.
- Full Color, Warm White, and Cool White Versions with Consistent High CRI - perfect fixture for any application.
- High CRI RGBALC Color System with SmartColor Control - wide range of vivid color options that can be programmed using CYM.
- Tunable white with >94 CRI - adjust color temperature without compromising output or quality of light.
- Independent color mixing and temperature controls - match color palette to color temperature without manual adjustment for simpler programming.

- Standard-size accessory rails to support optional 8 leaf barn door or third - party accessories- multiple, easily-accessible options to get the perfect look.
- Adjustable frequency to exceed camera frame rates - camera-friendly fixtures for IMAG, event recordings, or TV and film applications.
- Quiet operation with variable fan control (Standard, Studio, and Whisper) - perfect for use in quiet environments.

For detailed product information, please refer to the Product Guide at <https://www.vari-lite.com/global/products/cantata-led-fresnel>



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# Specifications

Due to continuous improvements and innovations, specifications may change without notice.

## Source

|                              |  |
|------------------------------|--|
| LED                          | Multichromatic Light Engine - RGBALC                   |
| Source Max Power Consumption | 240W   |
| LED Refresh Rate             | 12 Hz to 25kHz   |
| Dimming                      | Electronic 16-bit                                      |
| Dimmer Curves                | Square Law (Default), Linear, S -Curve                 |
| Dimmer Control Option        | Dimmer Snap On/Off<br>On reduces auto dimmer smoothing |
| Tungsten Fade                | Selectable On/Off                                      |
| Strobe Speed                 | 0 - 30Hz   |
| Strobe Modes                 | Standard, Lightening, Random                           |

## Optical Performance

|               |                  |
|---------------|------------------|
| Lens Size     | 215 mm (9.0 in)  |
| Beam Angle    | 10 - 55°         |
| Zoom Control  | Manual control   |
| Output Lumens | Standard - 8,700 |
| CRI RA        | 95               |
| CRI R9        | 84               |
| Tm30          | Rf 92 / Rg 101   |
| TLCI          | 82               |

## Color System

|                              |   |
|------------------------------|---|
| Color Mixing                 | RGBALC  |
| Color Mixing Control         | Smart Color, Open Source or Quick Color   |
| Color Calibration            | Selectable On/Off   |
| Color Mixing Control Option  | Color Snap On/Off<br>On reduces auto smoothing color to create faster color changes |
| Variable CTO                 | 2700 K to 10000 K (Smart Color Mode)  |
| Color Presets                | 32 Calibrated Colors  |
| User Definable Color Presets | 20  |
| Chromatic Aberration         | Magenta / Green shift control   |

## Electrical

|                              |   |
|------------------------------|---|
| Max output Power Consumption | 250 W @ 120 V, 247 W @ 240 V  |
| Power Connection             | TrueOne Compatible - In / Thru<br>Power cable not included - input connector only |
| Input Voltage                | 100–240 VAC, 50 / 60 Hz   |

## Data

|                               |                                |
|-------------------------------|--------------------------------|
| Supported Protocols           | DMX512-A (RDM)                 |
| DMX Modes                     |                                |
| Smart Color Control (default) | 14 Channels                    |
| Q Color Mode                  | 4 Channels                     |
| Open Color Control            | 19 Channels                    |
| Manual                        | Dial Mode                      |
| Data Connections              | 5 - Pin XLR Input and Thru     |
| Manual Preset Mode            | Advanced Feature local control |

## Noise Level / Fan Control (Base Level 30 dB @ 1 m (3.3 ft))

|                     |  |
|---------------------|--|
| Standard Mode       | 43 dB                                      |
| Studio Mode         | 34 dB                                      |
| Whisper Mode        | 30 dB                                      |
| Fan Mode            | Continuous (On) / Auto Ramping             |
| Fan Level Preset    | Standard, Studio, Whisper                  |
| Cooling System Type | Hybrid sealed liquid and forced air system |

## Mounting

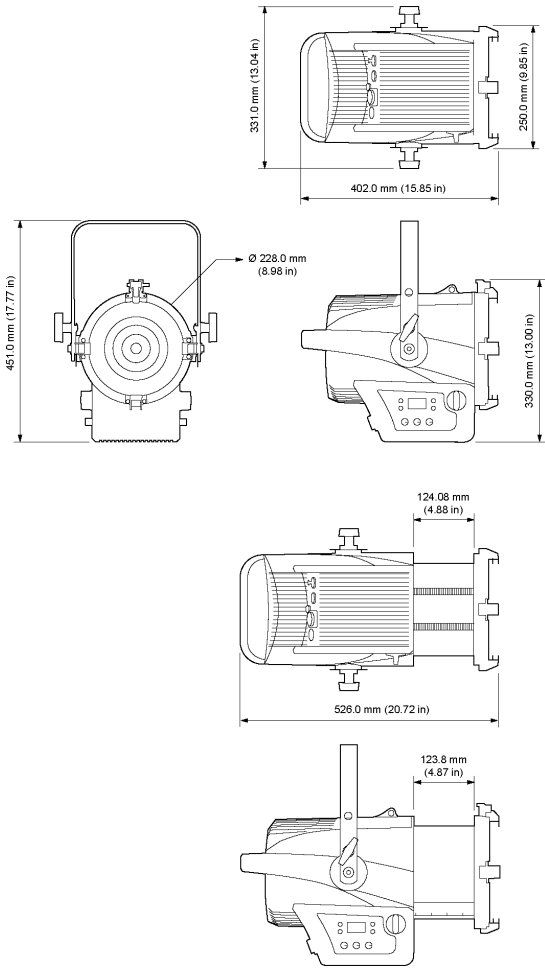
|                                      |   |
|--------------------------------------|---|
| Yoke                                 | Double clutch locking yoke >270° Swivel Yoke M12<br>(1/2") Centre hole          |
| Fixture mounting/Hanging orientation | Hanging - Floor - Side  |
| Secondary Safety Wire Point          | 1 x Safety point located on rear of fixture housing<br>Safety Wire not included |

## Photometrics and IES Files

|                         |                    |
|-------------------------|--------------------|
| Narrow @ 5 m / 16.4 ft  | 4,068 lux (378 fc) |
| Mid @ 5 m / 16.4 ft     | 896 lux (83 fc)    |
| Wide @ 5 m / 16.4 ft    | 240 lux (22 fc)    |
| Narrow @ 10 m / 32.8 ft | 1,017 lux (94 fc)  |
| Mid @ 10 m / 32.8 ft    | 896 lux (83 fc)    |
| Wide @ 10 m / 32.8 ft   | 66 lux (6 fc)      |

For IES files and photometric reports, please refer to the product page:  
<https://www.vari-lite.com/global/products/cantata-led-fresnel>

# Dimensions



## Physical

|                       |   |
|-----------------------|---|
| Construction          | Superstructure made of Aluminum, and steel metal plates,<br>Covers Aluminum |
| IP Rating             | IP20  |
| Standard Finish       | Black, White  |
| Dimensions            | 250 x 300 x 403 mm (10.0 x 12.0 x 16.0 in)                                  |
| Fixture Weight        | 10.0 kg (22.0 lb)   |
| Operating Temperature | 0-45°C (32-113°F)   |

## Certification and Safety

|              |                                      |
|--------------|--------------------------------------|
| Approbations | CE, ETL, UL, FCC CSA, RoHS, ISO 9001 |
|--------------|--------------------------------------|

# Luminaire and Accessories

| Product type  | Order Code |
|---|------------|
| CANTATA LED FRESNEL, Full Color, Black  | 64507-003  |
| CANTATA LED FC, 240w Multichromatic Light Engine - RGBALC, c/w Power input connector, Black |            |
| CANTATA LED FRESNEL, Full Color , White   | 64507-103  |
| CANTATA LED FC, 240w Multichromatic Light Engine - RGBALC, c/w Power input connector, White |            |
| <b>Accessories</b>  |            |
| CANTATA LED BARNDOOR  | 64507-004  |
| CANTATA LED , Barn door - 8 Leaf,Black  |            |
| CANTATA LED GEL FRAME   | 2440118375 |
| CANTATA LED , Gel frame   |            |



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