

FRESNEL, FC

Date: _____

Type: _____

Firm Name: _____

Project: _____

The Vari-Lite 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 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. The Fresnel 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 Vari-Lite Fresnel 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/fresnel-fc>



VARI*LITE

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 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
Smart Color CCT	1800 K to 10000 K
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 On reduces auto smoothing color to create faster color changes
Variable CTO	1800 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 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

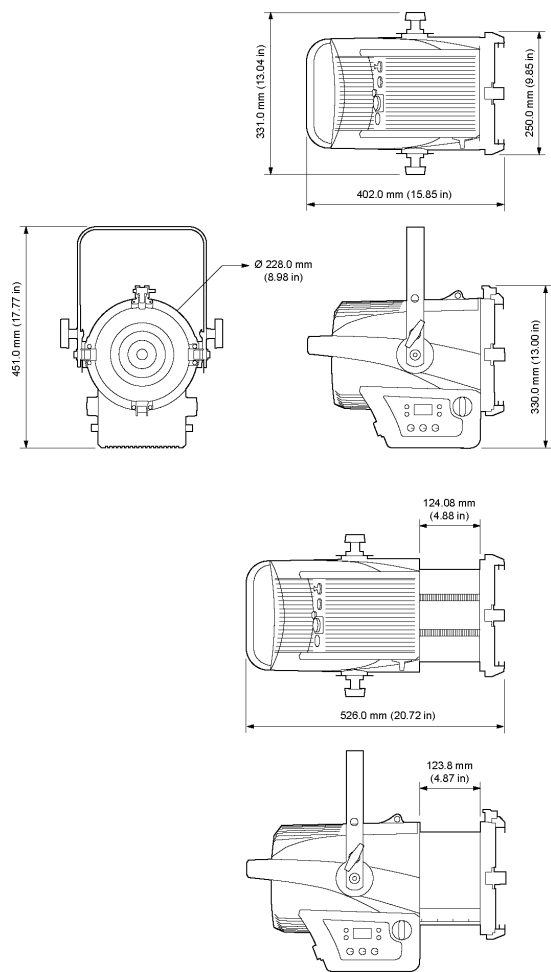
Yoke	Double clutch locking yoke >270° Swivel Yoke M12 (1/2") Centre hole
Fixture mounting/Hanging orientation	Hanging - Floor - Side
Secondary Safety Wire Point	1 x Safety point located on rear of fixture housing Safety Wire not included

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/fresnel-fc>

Dimensions



Physical

Construction	Superstructure made of Aluminum, and steel metal plates, 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
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Gobo and Effect Wheels

Luminaire and Accessories

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



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