

Colour-Fresnel CFN60



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Manual Revision V1.1

Overview

The Colour-Fresnel CFN60 is a recessed luminaire based on the Reggiani 002 housing. It uses high power coloured light emitting diodes to provide digital colour mixing. The fixture is supplied with four removable black barn doors.

The lens is fresnel, with concentric prisms. A variable manual focus is available.

The CFN60 provides manual pan to 360 degrees and tilt to 80 degrees.

The Colour-Fresnel CFN60 contains an array of red, green, and blue LED's which can be controlled in order to produce a wide array of resultant colours.

The Colour-Fresnel CFN60 is a passive device that requires an external controller or power supply.

Connection

The Colour-Fresnel CFN TF60 is connected via a 4 pin Tyco connector. The mating connector and crimp pins are supplied with the product. The following drawing shows the pin arrangement when viewing the male connector attached to the fixture.



Cable Colour	Pin	Function	Voltage for Max Output
Blue	1	Active Low Drive for Blue	0 VDC
Green	2	Active Low Drive for Green	0 VDC
Red	3	Active Low Drive for Red	0 VDC
Black	4	Positive Voltage Common	24 VDC

Specification

Item	Colour-Fresnel CFN60
Illumination Lux @ 1m	400
Illumination Ft Candle @ 3ft	40
IP Rating	Interior
Power	9W
Voltage	24V
Current	0.35A
Diameter	242mm
Cut out mounting diameter	220mm
Depth (behind ceiling)	205mm
Weight	1.82Kg
Control Connector	Tyco 4 pin
Control	24V *
LED's	RGB
Operating Temperature Range	-20 to +40 Celsius
Operating Humidity Range	0 to 90% non condensing
Number of Units powered by Power-Pipe.	25
Number of Units powered by LVD-12	25

Safety

The Colour-Fresnel CFN60 is a SELV device operating at 24VDC.

The LED core is designed to use convection cooling. For this reason the luminaire must be mounted such that free air movement is not obstructed.

Power and Control Options

The Colour-Fresnel CFN60 can be controlled in the following modes:

1. Static PSU: A 24V PSU is used to drive any combination of the three primary colours. This provides seven possible output colours.
2. Power-Pipe: The Power-Pipe product provides:
 - DMX512 control of all 16 million possible colours.
 - Stand-alone operation with numerous pre-programmed colour fades and effects.
 - The Power-Pipe can be used to power and control multiple Colour-Fresnel CFN60s, however all will produce the same output colour at any given time.
3. LVD-12 / LVD-24: The LVD (Low Voltage Dimmer) product provides:
 - DMX512 control of all 16 million possible colours.
 - Stand-alone operation with numerous pre-programmed colour fades and effects.
 - The Low Voltage Dimmer can be used to power and control multiple Colour-Fresnel CFN60s with 12 individual channels of control.

Mounting

The Colour-Fresnel CFN60 requires a circular mounting hole of diameter 220 mm.

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