

NanoCove™ RGB LED Lighting

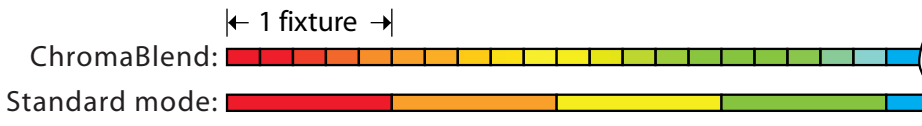
120° x 120° beam angle

Linear, color changing LED lighting fixture for archtainment applications

The NanoCove RGB color-changing linear LED lighting fixtures by ChromaCove represent the latest innovation in colorful, controllable lighting for stunning archtainment use in a small form factor. Available in 12, 36, and 72 inch lengths, each fixture employs ChromaBlend™ which automatically provides a smooth blend of color across each fixture.

High-Resolution lighting

ChromaBlend, a proprietary driver technique, automatically blends colors internally across each of five sections per foot, from its assigned fixture to the next fixture or section. This allows the units to create high-resolution blend effect without increasing control system requirements.



DMX Controllable

NanoCove is controlled via DMX512-A using either 8 or 16 bit control over the colors, mixing Red, Green and Blue to provide a possible array of up to 281.5 trillion color combinations. Each unit employs RDM support for easy addressing and configuration.

High Dynamic Range

Excellent low-end dimming and brightness control is achieved with NanoCove's unique driver design, perfect for use in low-light conditions. Additionally, PWM strobing is eliminated with spread-spectrum modulation, providing a visually steady illumination. This is important for use in areas where viewers are moving or visually following a moving point of interest.

Small footprint

Each fixture is only 0.5 inch wide and 0.281 inch tall, allowing NanoCove to be mounted in areas of limited space.

Adaptive Mounting

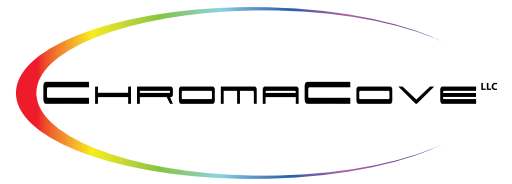
Mounting is easy with a multitude of specialty brackets designed to mount each fixture in a variety of situations. Many styles also allow axial rotation for on-sight angle adjustment.

Efficient Design

There is a lot of capability packed into this small fixture, which only consumes 7.2 watts of power at maximum illumination.

RoHS Compliance

All of our products are designed and manufactured in the USA using RoHS compliant components and a lead-free process.

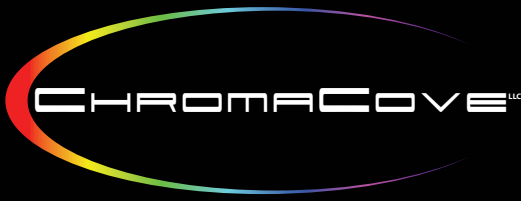


Preliminary Data Sheet

Quick Facts:

NanoCove™ RGB

Color:	Red, Green, Blue
Lumens:	~140 / ft
Angle:	120°
Dim:	0.5" x 0.281" x 12"
Voltage:	12VDC
Current:	0.3A
Power:	7.2W
Control:	DMX512-A
Bit Depth:	8 or 16
Features:	ChromaBlend™



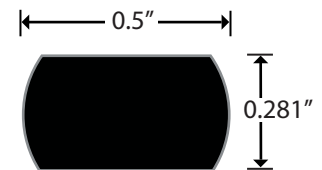
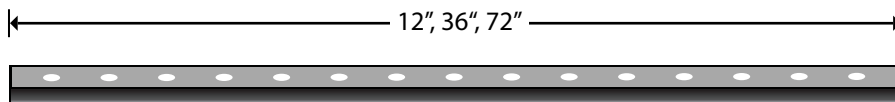
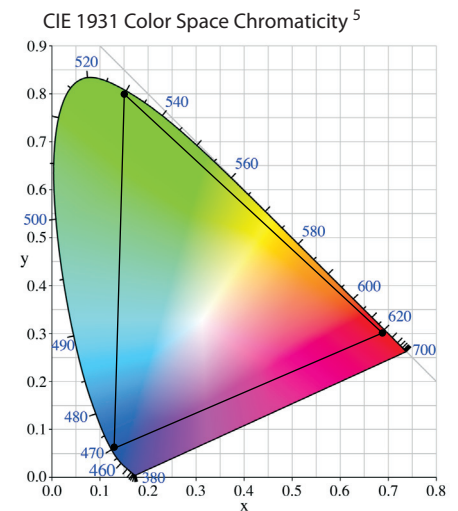
www.ChromaCove.com
sales@ChromaCove.com

ChromaCove, LLC
12265 Chippewa Rd.
Brecksville, Ohio 44141
Phone: +1 330-541-LEDS (5337)
Fax: +1 216-574-7600

NanoCove™ RGB LED Lighting Specifications*

Item	Specification	NCRGB-120
Output	Lumens ¹	~140 lm
	Lumen Maintenance ²	100,000 hrs L70 @ continuous use , full output
	Primary Cone	120° x 120°
	Color Mix Distance ⁴	~0" (internal to fixture)
	Color Range	281.5 trillion colors
Electrical	Fixture Voltage	12 VDC
	Fixture Current	0.3 Amps @ balanced white
	Chained Units	Up to 16 units per power supply
	Power Supply V-in	100-240 VAC, auto switching, 50/60 Hz
	Power Supply Current	1.1 Amp @115 VAC
	Power Supply V-out	12 VDC, current limited to 5 Amps max
	Power Supply Certifications	UL 1310 Class 2 TUV EN60950-1, EN61347-1, EN61347-2-13 CAN/CSA C22.2 No. 223-m91
	Physical	Dimensions ³ (L x W x H)
Weight ³		1.6oz (45g) per foot max.
Housing Material		Aluminum Extrusion
Lens ⁴		Clear or Frosted Acrylic
Mounting		Various specialty brackets available
Control	Signal Protocol	DMX512-A, E1.20 RDM enabled
	Bit Depth	8 or 16 bits per color (24 or 48 bits per fixture)
	Chained Control	170 or 85 units per DMX512 Universe
	Steps of Control per Color	256 or 65536 user selectable levels per color
	Modulation Type	ChromaBlend™ with proprietary modulation
Patents	Licensing	This fixture utilizes technology licensed from the Philips patent portfolio.
Origin	This product is designed and manufactured in the United States of America	

Preliminary Data Sheet



*Specifications are subject to change without notice. Custom fixtures and the latest innovations may not be listed here. Please check www.ChromaCove.com for the latest information on our products.

- 1) Total lumens of light available from the unbalanced output of the LEDs within the light engine.
- 2) L70 rating refers to 70% of initial luminous intensity after time elapsed. Numbers and ratings for lifetime are based on precise B50/L70 extrapolations made by the manufacturer of the series of LEDs employed in this fixture.
- 3) Dimensions and weight do not include mounting brackets or other hardware.
- 4) The use of a frosted lens reduces color blend distance for smoother inter- and intra-fixture blending, increases output angle, and may reduce the total light output per fixture.
- 5) CIE 1931 Color Space Chromaticity Chart is drawn based on average wavelengths of LEDs employed in the fixture. Color balance is adjustable globally and per fixture using the gamma curve correction within ChromaCove Designer™.

Copyright © 2011 - ChromaCove, LLC. All rights reserved. ChromaCove™, the ChromaCove logo, NanoCove™, ChromaBlend™ and ChromaCove Designer™ are trademarks of ChromaCove, LLC.