NanoCove™ Ultra-Slim LED Lighting

120˚ x 120˚ beam angle, available as RGB or White
Linear, color-changing LED lighting fixture for architainment applications

NanoCove is a small yet surprisingly powerful fixture, offering an unprecedented level of control for such a petite design. At only a 0.5" wide and 0.281" tall, this colorful and controllable fixture is designed to provide stunning results in areas where space is a factor. Each foot-long fixture employs Performance Profiles which allow adaptation into a wide range of control scenarios while offering smooth fades and flicker-free operation.

Preliminary Data Sheet

Quick Facts:

NanoCove™

Color:	RGB or White
Lumens:	RGB: ~140 / ft White: ~440 lm / ft
Angle:	120˚ x 120˚
L x W x H:	12" x 0.5" x 0.281"
Voltage:	12 VDC
Current:	0.3 A
Power:	3.6 W
Control:	DMX512-A
Bit Depth:	8-16 bits per color, 24-48 bits per fixture
Features:	Performance Profiles, ChromaBlend™

High-Resolution Lighting

NanoCove is our first product to feature ChromaBlend™, a part of our proprietary driver technology. Rather than illuminating as a single color, each fixture blends to the color of its neighbor across the length of the fixture to create a more smooth color gradient with an effective resolution of 2.5 inches. This high-resolution blend effect is created automatically, without increasing control system requirements.

DMX Controllable

NanoCove is controlled via DMX512-A using either 8 or 16 bit (24 or 48 bits per fixture) control over each color, mixing red, green and blue light to provide a possible array of up to 281.5 trillion assignable color combinations prior to the internal smoothing process. 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 our enhanced-spectrum modulation, providing a visually-steady illumination. This is important for use in areas where viewers are visually following a moving point of interest, or are themselves moving, such as when enjoying an amusement ride or simply walking into a room.

Performance Profiles

NanoCove can be configured for a wide range of control scenarios by combining built-in features. With 36 unique profiles to choose from, features such as Low-End Curve Correction, ChromaBlend, Bit Depth and Internal Fade Slewing make NanoCove a powerfully adaptable lighting device.

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.

Efficient Design

There is a lot of capability packed into this small fixture, which only consumes 3.6 watts of power at maximum illumination. The manufacturing process is streamlined to produce minimal waste, most of which is recyclable.

Made in the USA

All of our LED fixtures are designed and manufactured in the USA using high-quality CREE LEDs, RoHS compliant components and a lead-free process. The manufacturing process is streamlined to produce minimal waste, most of which is recyclable.

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Preliminary Data Sheet

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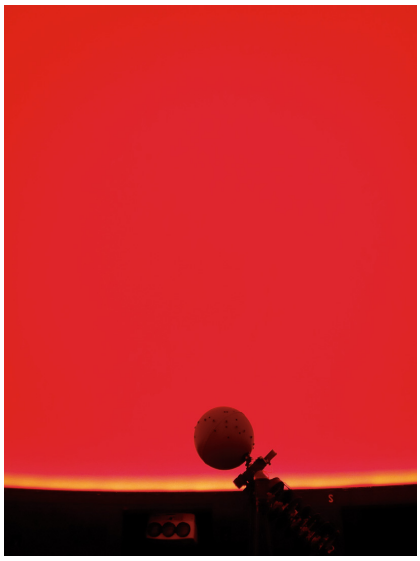
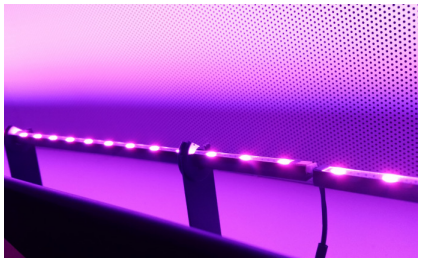
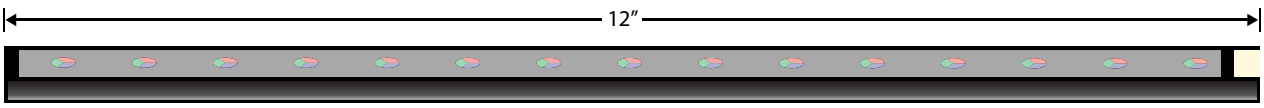
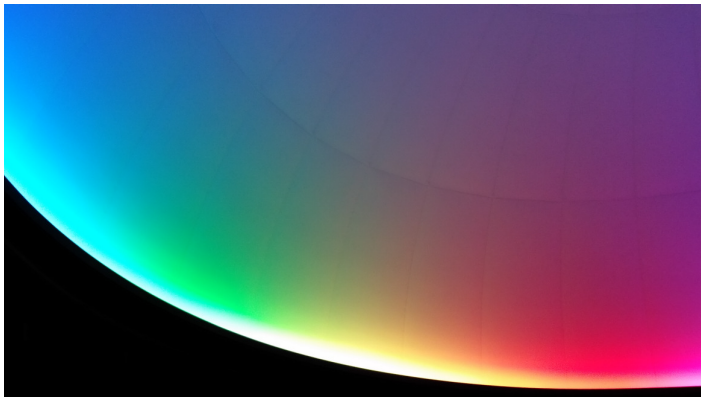
NanoCove™ LED Lighting Specifications*

Item	Specification	NCRGB-120P	NCW-120P
Output	Lumens[1]	~140 lm	~440 lm
	Primary Cone	120˚ x 120˚	
	Color Mix Distance	~0" (internal to fixture)	
	Color Range	281.5 trillion colors	65.5k (grayscale shades)
Electrical	Power Source	Use only with Class 2 power unit	
	Input Voltage	12 VDC	
	Fixture Current	0.3A max at full output	0.6A max at full output
	Chained Units	Up to 14 / power supply	Up to 8 / power supply
Safety	Environment	Dry locations, Indoor use only	
	Fixture Certifications	ETL / Intertek Listed Conforms to ANSI/UL Std. 2108 Certified to CAN/CSA Std. C22.2#250.0	
Physical	Dimensions[2] (L x W x H)	12" x 0.5" x 0.281" (305 x 13 x 7 mm)	
	Weight[2]	1.6oz (45g) per foot max.	
	Housing Material	Anodized Aluminum Extrusion	
	Lens	Clear Cast 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)	
	Addressing	Set via RDM	
	Chained Control	Up to 170 units per DMX512 Universe	
	Modulation Type	Enhanced-Spectrum Modulation, ChromaBlend™ and 36 Performance Profiles	
Patent Licensing	ChromaCove operates under a direct license agreement with Philips to utilize certain patented technologies. Proof of this agreement is available upon request.		
Origin	This product is designed and manufactured in the United States of America.		









*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) Dimensions and weight do not include mounting brackets or other hardware.

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