

# ChromaCove™ Signature Series High-Power LED Lighting

140° x 140° beam angle, available as RGB or White

Linear, color-changing LED lighting fixture for archtainment applications

The brightest of our LED lighting, this fixture boasts an impressive wide-angle output with a high dynamic range driver, making it the fixture of choice for large domes and archtainment situations requiring superior brightness.

## Bright and Colorful

The ChromaCove Signature Series High-Power fixture was developed to be a very bright and colorful fixture. A powerful array of 15 CREE LEDs offer 10-20 times that of lesser RGB fixtures with only 50-100 lumens. At ~1100 lumens of combined red, green and blue light or ~2100 lumens of white, these fixtures really are something to behold.

## Controllable

Controlled via standard DMX512-A using 16 bits of precision per color in each fixture, mixing red, green and blue to provide a possible array of up to 281.5 trillion color combinations. (8-bit/ch also available)

## High Dynamic Range

Excellent low-end dimming and brightness control is achieved with a unique driver design. Using enhanced-spectrum modulation provides a visually-steady illumination without flicker or PWM strobing common to many LED lighting products. This allows us to achieve a solid color and is important for use in areas where viewers are moving or visually following a moving point of interest.

## Adaptive Mounting

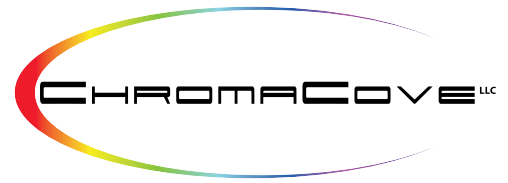
Mounting is easy with a multitude of custom bracket options for using the fixtures in a variety of situations. Many styles offer axial rotation for on-site angle adjustment.

## Efficient Design

The 2-inch wide aluminum housing acts as rigid form for mounting and as a heat sink to dissipate the small amount of heat generated by the powerful ChromaCove light engine. Each 24-volt fixture consumes less than 20 watts of power at maximum illumination.

## Made in the USA

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



## Preliminary Data Sheet

### Quick Facts:

#### ChromaCove™ HP-140

Colors: RGB or White

Lumens: RGB: ~1100 / ft

White: ~2100 / ft

Angle: 140° x 140°

L x W x H: 12.125" x 2" x 1.15"

Voltage: 24VDC

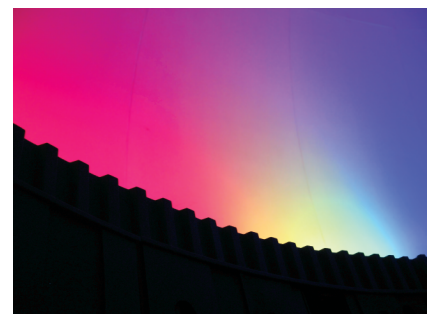
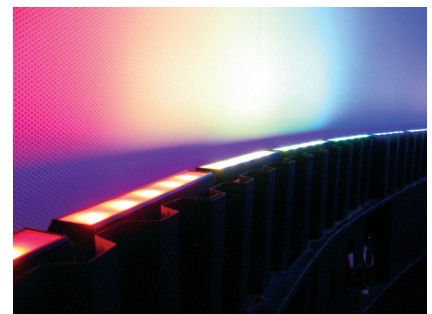
Current: 0.8A

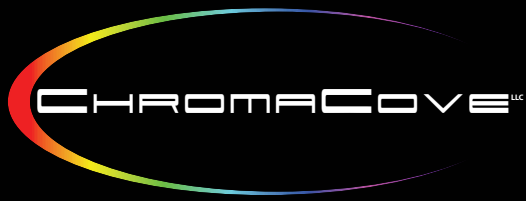
Power: 19.2W

Control: DMX512-A

Bit Depth: 16 bits per color,  
(48 bits per fixture)

Features: High Brightness





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Preliminary Data Sheet

# ChromaCove™ Signature Series High-Power LED Lighting Specifications\*

Item	Specification	CC-HP140-RGB	CC-HP140-W
Output	Lumens <sup>1</sup>	~1,100 lm	~2,100 lm
	Primary Cone	140° x 140°	140° x 140°
	Color Mix Distance <sup>3</sup>	~3" (~102 mm)	
	Color Range	281.5 trillion colors	Warm or Cool White
Electrical	Fixture Voltage	24 VDC	
	Fixture Current	0.8 amps @ balanced white	
	Chained Units	5 units per power supply feed	
Physical	Dimensions <sup>2</sup> (L x W x H)	13.3" x 2" x 1.15" (308 x 51 x 29mm)	
	Weight <sup>2</sup>	1.25 lb (0.57 kg)	
	Housing Material	Aluminum Extrusion	
	Lens <sup>3</sup>	Acrylic or Diffused Acrylic	
	Mounting	Various and custom bracket heights available	
Control	Signal Protocol	DMX512-A	
	Bit Depth	16 bits per color (48 bits per fixture for RGB) 8-bit control available upon request	
	Addressing	Set via dip switches	
	Modulation Type	Proprietary modulation with internal smoothing	
	Chained Control	85 addressed units per DMX universe	
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		

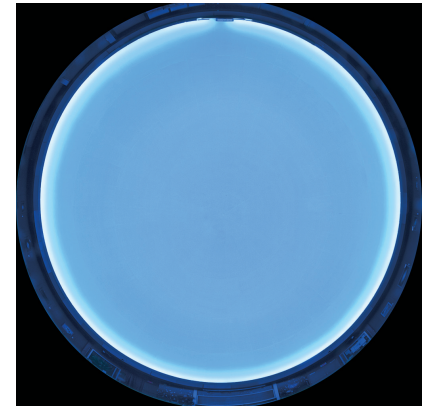
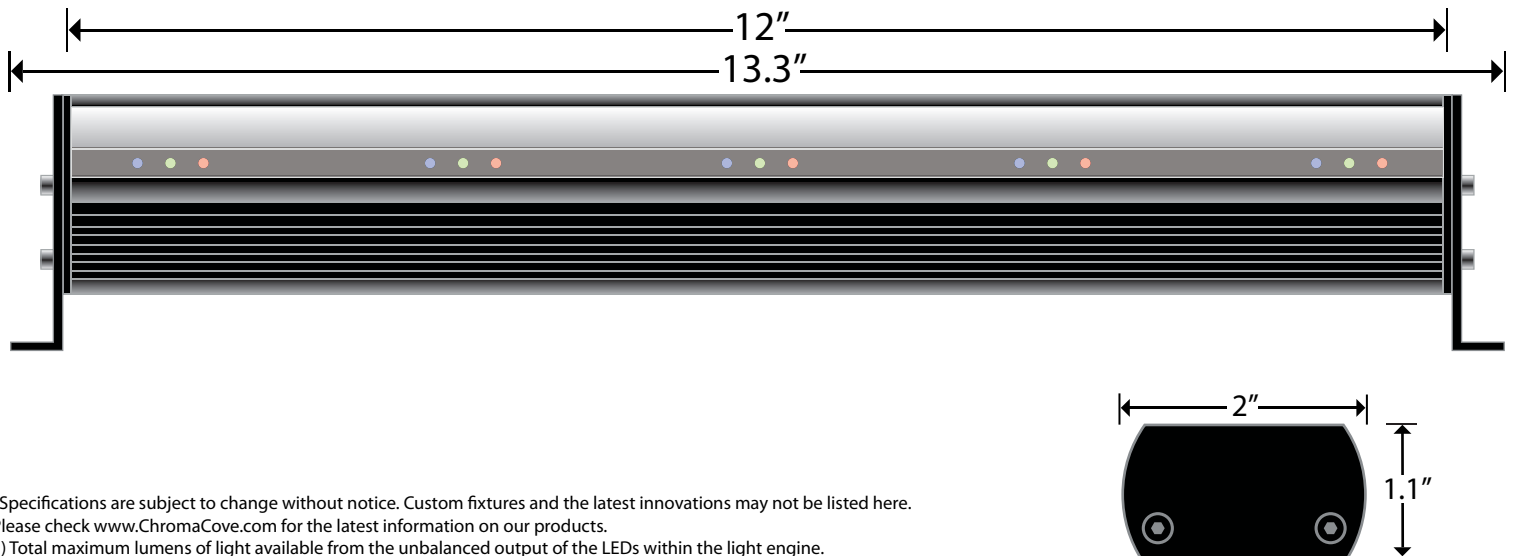


Photo Courtesy Dr. Patrick Durrell

ChromaCove provides great coverage across the dome. Shown here, sky blue lights the dome by mixing some green into the very deep blue to create a lighter blue.



\*Specifications are subject to change without notice. Custom fixtures and the latest innovations may not be listed here. Please check [www.ChromaCove.com](http://www.ChromaCove.com) for the latest information on our products.

1) Total maximum 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.  
3) The use of a diffused lens reduces color blend distance for smoother inter- and intra-fixture blending, increases output angle, and may reduce the total light output per fixture.