unoCOLOR COVE

Color Kinetics® unoColor Cove is a digital, single-color cove light. It brings colored light and lighting effects to alcoves, task areas, accent areas and other tight spaces without the expense or constraints of conventional colored lighting methods.

unoColor Cove is modular in design, and projects a soft-edge strip of light at a 110° beam angle. Each length of unoColor Cove is available with red, green, blue, or amber LEDs.

unoColor Cove is available in fixed lengths of six and twelve inches. Each segment is cased in a low-profile, vented, molded plastic housing. The housing snaps directly into a one-piece mounting bracket; there is no need to open the case to mount the segment. The mounting brackets are indexed to lock unoColor Cove into place, allowing for the uniform alignment of multiple fixtures as well as the easy rotation of fixtures. Each segment is equipped with a three-pin header that attaches to a master cable, making installations with curves or complicated geometry easy. Each master cable is designed to plug into an unoColor Cove power supply, which supplies power to all connected lights.

unoColor Cove comes packaged in lots of ten units. Each six- and twelve-inch unoColor Cove fixture comes with a mounting bracket and screws for use with the power supply and master cable, sold separately. Twelve-inch unoColor Cove fixtures are available for immediate delivery. Six-inch unoColor Cove requires an eight week lead time with a minimum quantity requirement. Contact Color Kinetics for additional information.

Items Needed

Power Supply	unoColor Cove Power Supply (ITEM#: 109-000011-01)
Cable Harness	unoColor Cove Wire Harness (ITEM# 108-000010-00)

iCOLOR COVE SPECIFICATIONS

COLOR OPTIONS	Red, green, blue, or amber
SOURCE	High brightness colored LEDs
BEAM ANGLE	110° x 50°
HOUSING	Two-piece vented plastic
CONNECTORS	3-pin power connector for use with master cable and Color Kinetics unoColor Cove power supply.
LISTINGS	UL listed, CE certified

ELECTRICAL SPECIFICATIONS

POWER REQUIREMENT	24VDC
POWER CONSUMPTION	Maximum 12-inch: 1.7 Watts, Red and amber; 2.5 Watts, green and blue Maximum 6-inch: 0.9 Watts, Red and amber; 1.3 Watts green and blue
POWER SUPPLY	unoColor Cove Power Supply

LED SOURCE LIFE

In traditional lamp sources, lifetime is defined as the point at which 50% of the lamps fail. This is also termed Mean Time Between Failure [MTBF]. LEDs are semiconductor devices and have a much longer MTBF than conventional sources. However, MTBF is not the only consideration in determining useful life. Color Kinetics uses the concept of useful light output for rating source lifetimes. Like traditional sources, LED output degrades over time (lumen depreciation) and this is the metric for SSL lifetime.

LED lumen depreciation is affected by numerous environmental conditions such as ambient temperature, humidity, and ventilation. Lumen depreciation is also affected by means of control, thermal management, current levels, and a host of other electrical design considerations. Color Kinetics systems are expertly engineered to optimize LED life when used under normal operating conditions. Lumen depreciation information is based on LED manufacturers' source life data as well as other third party testing. Low temperatures and controlled effects have a beneficial effect on lumen depreciation. Overall system lifetime could vary substantially based on usage and the environment in which the system is installed.

Temperature and effects will affect lifetime. Color Kinetics rates product lifetime using lumen depreciation to 50% of original light output. When the fixture is running at room temperature using a color wash effect, the range of lifetime is in the range of 30,000-50,000 hours. This is LED manufacturers' test data. For more detailed information on source life, please see www.colorkinetics.com/lifetime.

OPTIBIN®

There are inherent variations in the fabrication processes of all semiconductor materials. For LEDs, this variance results in differences in the color and intensity of light output as well as electrical characteristics. Due to these differences, LED manufacturers sort production into "bins," but insuring the availability of a single bin is very difficult. To minimize this issue and achieve optimal color consistency in its products, Color Kinetics has developed and uses a proprietary technology called Optibin. Optibin is an advanced production binning optimization process that minimizes the effects of LED variance for the best possible output uniformity in the final product. Color Kinetics Optibin technology gives you the most consistent control of color and intensity from product to product.

OPTIBIN®
BY COLOR KINETICS

DRY

ITEM# 112-000001-00 (RED, 12-inch)
112-000001-01 (GREEN, 12-inch)
112-000001-02 (BLUE, 12-inch)
112-000001-03 (AMBER, 12-inch)

112-000002-00 (RED, 6-inch)
112-000002-01 (GREEN, 6-inch)
112-000002-02 (BLUE, 6-inch)
112-000002-03 (AMBER, 6-inch)

This product is protected by one or more of the following patents: U.S. Patent Nos. 6,016,038, 6,150,774 and other patents listed at http://colorkinetics.com/patents/. Other patents pending.

©2005-2006 Color Kinetics Incorporated. All rights reserved. Chromacore, Chromasic, Color Kinetics, the Color Kinetics logo, ColorBlast, ColorBlaze, ColorBurst, ColorCast, ColorPlay, ColorScape, Direct Light, iColor, iColor Cove, iPlayer, Optibin, Powercore, QuickPlay, Sauce, the Sauce logo, and Smartjuice are registered trademarks and DIMand, EssentialWhite, IntelliWhite, and Light Without Limits are trademarks of Color Kinetics Incorporated.

All other brand or product names are trademarks or registered trademarks of their respective owners.

BRO097 Rev 06

Specifications subject to change without notice. Refer to www.colorkinetics.com for the most recent data sheet versions.

Color Kinetics Incorporated • 10 Milk Street, Suite 1100 • Boston, MA 02108 • USA
Tel 888 FULL RGB • Tel 617 423 9999 • Fax 617 423 9998 • info@colorkinetics.com • www.colorkinetics.com

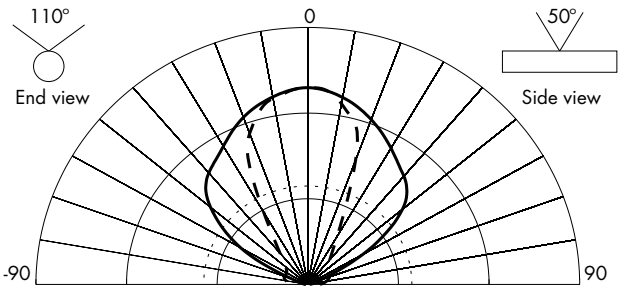
unoCOLOR COVE — 12”

PHOTOMETRIC PERFORMANCE

SOURCE SPECIFICATIONS

Optics:	Clear polycarbonate
Source:	15 LEDs
Beam Angle:	110° x 50°
	(at 50% of peak illuminance)
Distribution:	Asymmetric direct illumination

CANDLE POWER DISTRIBUTION



End View (solid line) and side view (dashed line) (Candelas)

Thin dashed line: Indicates 50% of peak

ILLUMINANCE DISTRIBUTION

0.1 / 1.3	0.2 / 2.3	0.2 / 2.3	0.2 / 2.3	0.2 / 2.3	0.1 / 1.3
0.3 / 3.4	0.7 / 7.2	0.7 / 8.0	0.7 / 8.0	0.7 / 7.2	0.3 / 3.4
0.6 / 6.5	1.6 / 17.0	3.5 / 38.0	3.5 / 38.0	1.6 / 16.9	0.6 / 6.5
1.1 / 12.0	1.6 / 17.1	3.6 / 38.4	3.5 / 38.2	1.6 / 17.0	1.1 / 11.9
0.3 / 3.4	0.7 / 7.3	0.7 / 8.0	0.8 / 8.1	0.7 / 7.3	0.3 / 3.4
0.1 / 1.3	0.2 / 2.3	0.2 / 2.3	0.2 / 2.3	0.2 / 2.3	0.1 / 1.3

1.5’/0.5m (top)

0’/0m (middle)

1.5’/0.5m (bottom)

1.5’/0.5m 0’/0m 1.5’/0.5m

Measured on: Green
Distance from surface: 1’/.3m (from center of grid)
Multipliers: 0.55 Red, 0.31 Blue, 2.2 Amber

LIGHT OUTPUT

COLOR	TOTAL OUTPUT (LUMENS)	POWER (WATTS)	EFFICACY (lm/W)
RED	10.2	1.7	6.0
GREEN	18.5	2.5	7.4
BLUE	5.7	2.5	2.3
AMBER	22.7	1.6	14.2

ILLUMINANCE

COLOR	3’ / 1m	6’ / 2m	9’ / 3m	12’ / 4m	15’ / 5m
RED	0.7 / 7.0	0.2 / 1.8	0.1 / 0.8	0.0 / 0.4	0.0 / 0.3
GREEN	1.2 / 12.9	0.3 / 3.2	0.1 / 1.4	0.1 / 0.8	0.0 / 0.5
BLUE	0.4 / 4.0	0.1 / 1.0	0.0 / 0.4	0.0 / 0.2	0.0 / 0.2
AMBER	3.1 / 33.4	0.9 / 9.1	0.4 / 4.3	0.2 / 2.2	0.2 / 2.2

Measured in Footcandles/Lux on axis.
lux = footcandles x 10.76

COLOR KINETICS INCORPORATED • 10 MILK STREET, SUITE 1100 • BOSTON, MA 02108 • USA
TEL 888 FULL RGB • TEL 617 423 9999 • FAX 617 423 9998 • INFO@COLORKINETICS.COM • WWW.COLORKINETICS.COM

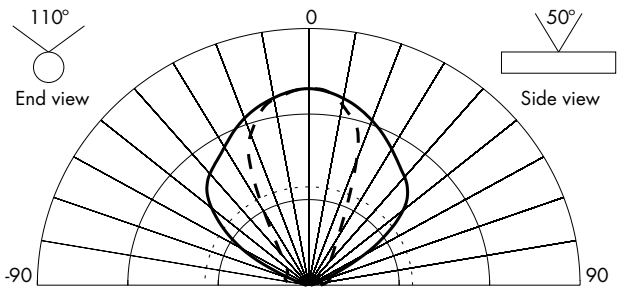
unoCOLOR COVE — 6”

PHOTOMETRIC PERFORMANCE

SOURCE SPECIFICATIONS

Optics:	Clear polycarbonate
Source:	8 LEDs
Beam Angle:	110° x 50°
	(at 50% of peak illuminance)
Distribution:	Asymmetric direct illumination

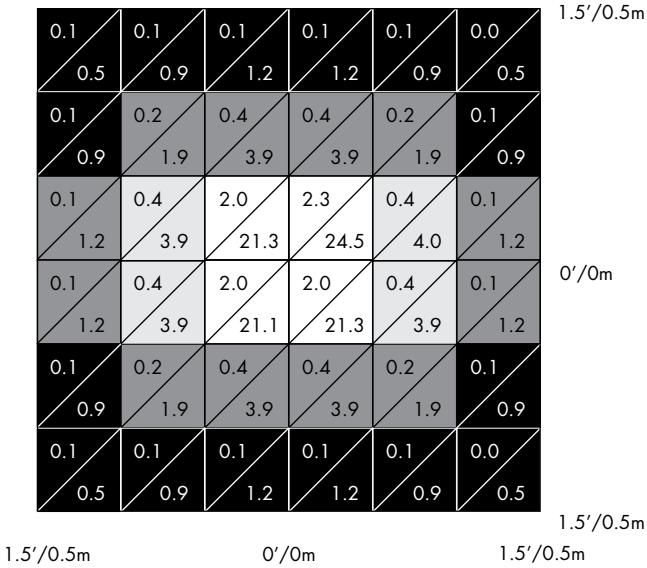
CANDLE POWER DISTRIBUTION



End View (solid line) and side view (dashed line) (Candelas)

Thin dashed line: Indicates 50% of peak

ILLUMINANCE DISTRIBUTION



Measured on: Green
Distance from surface: 1’/.3m (from center of grid)
Multipliers: 0.55 Red, 0.31 Blue, 2.2 Amber

LIGHT OUTPUT

COLOR	TOTAL OUTPUT (LUMENS)	POWER (WATTS)	EFFICACY (lm/W)
RED	5.1	0.9	5.6
GREEN	9.3	1.3	7.2
BLUE	2.9	1.3	2.2
AMBER	11.4	0.9	12.6

ILLUMINANCE

COLOR	3’ / 1m	6’ / 2m	9’ / 3m	12’ / 4m	15’ / 5m
RED	0.3 / 3.3	0.1 / 0.8	0.0 / 0.4	0.0 / 0.2	0.0 / 0.1
GREEN	0.6 / 6.0	0.1 / 1.5	0.1 / 0.7	0.0 / 0.4	0.0 / 0.2
BLUE	0.2 / 1.9	0.0 / 0.5	0.0 / 0.2	0.0 / 0.1	0.0 / 0.1
AMBER	1.6 / 17.2	0.5 / 5.4	0.2 / 2.2	0.1 / 1.1	0.1 / 1.1

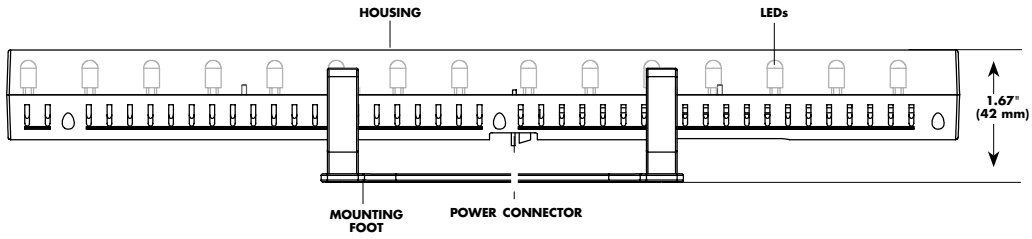
Measured in Footcandles/Lux on axis.
lux = footcandles x 10.76

COLOR KINETICS INCORPORATED • 10 MILK STREET, SUITE 1100 • BOSTON, MA 02108 • USA
TEL 888 FULL RGB • TEL 617 423 9999 • FAX 617 423 9998 • INFO@COLORKINETICS.COM • WWW.COLORKINETICS.COM

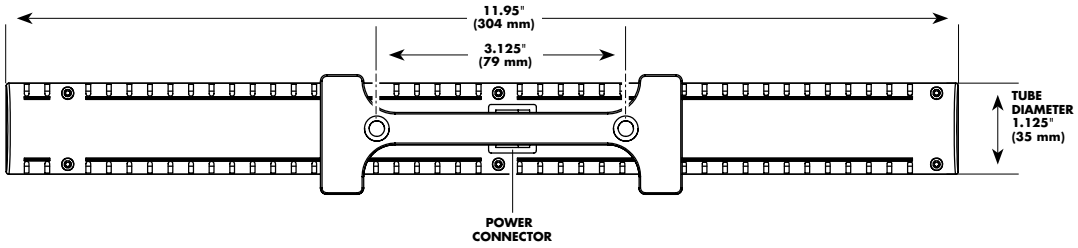
unoCOLOR COVE

PHYSICAL DIMENSIONS

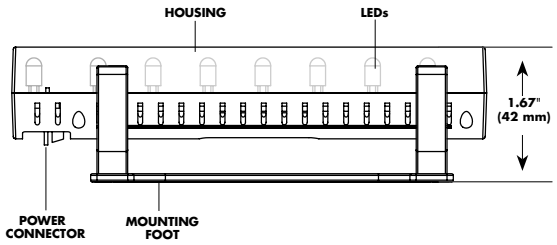
unoCOLOR COVE 12" (SIDE VIEW)



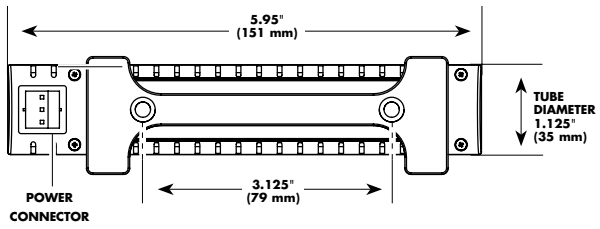
(BOTTOM VIEW)



unoCOLOR COVE 6" (SIDE VIEW)



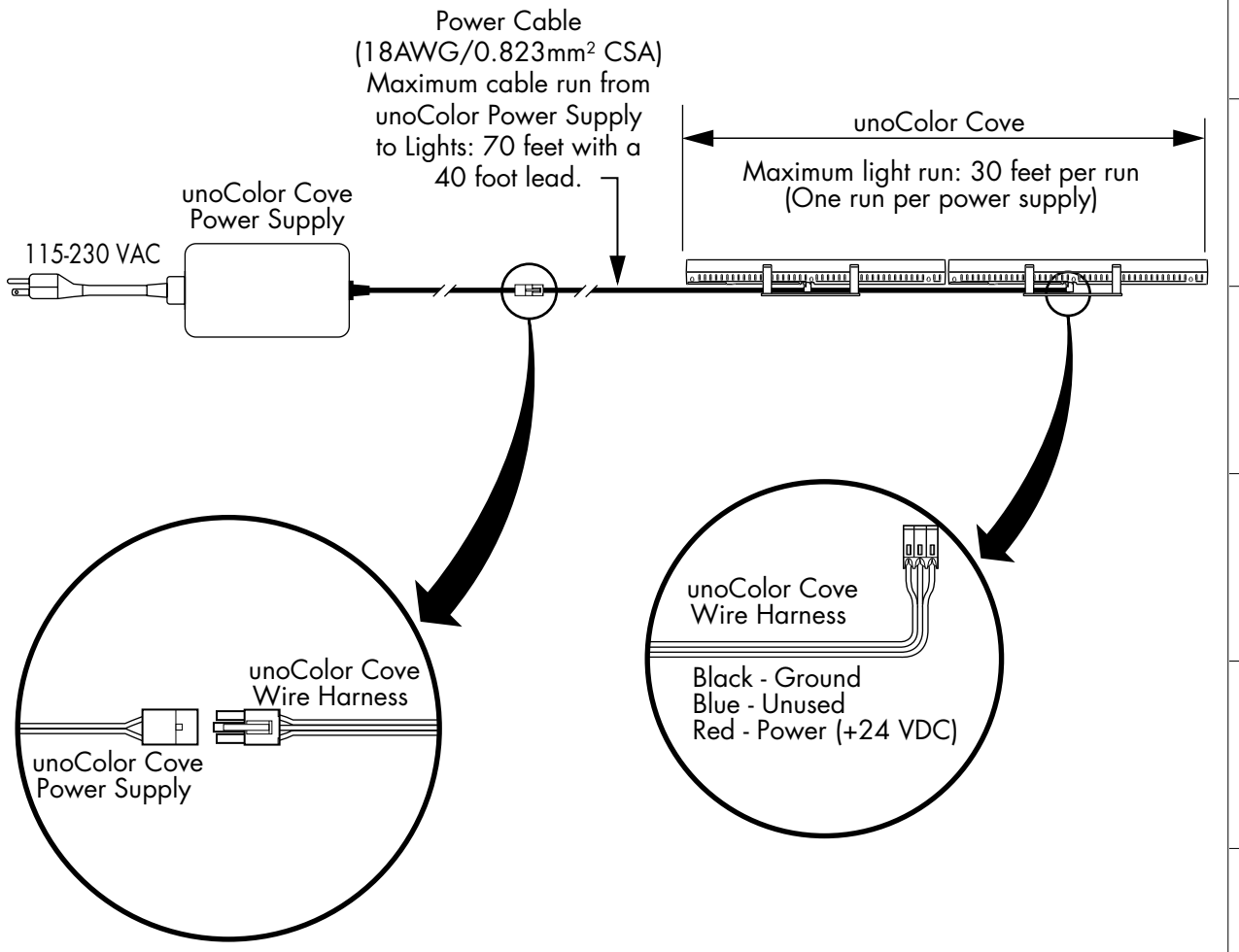
(BOTTOM VIEW)



Color Kinetics Incorporated • 10 Milk Street, Suite 1100 • Boston, MA 02108 • USA
Tel 888 FULL RGB • Tel 617 423 9999 • Fax 617 423 9998 • info@colorkinetics.com • www.colorkinetics.com

unoCOLOR COVE

FUNCTIONAL FLOW DIAGRAM



For complete installation instructions and safety precautions, refer to the unoColor Cove User Guide and wiring diagrams located at www.colorkinetics.com/support.

unoCOLOR COVE SERIES SPECIFICATIONS

ITEM#	112-000001-00	112-000001-01	112-000001-02	112-000001-03	112-000002-00	112-000002-01	112-000002-02	112-000002-03
COLOR	Red	Green	Blue	Amber	Red	Green	Blue	Amber
WEIGHT	3.9oz (111g)	3.9oz (111g)	3.9oz (111g)	3.9oz (111g)	2.0oz (57g)	2.0oz (57g))	2.0oz (57g)	2.0oz (57g))
POWER/DATA CONNECTOR	Three-pin header	Three-pin header	Three-pin header	Three-pin header	Three-pin header	Three-pin header	Three-pin header	Three-pin header
POWER REQUIREMENT	70mA @ 24VDC (1.7W)	104mA @ 24VDC (2.5W)	104mA @ 24VDC (2.5W)	70mA @ 24VDC (1.7W)	37.5mA @ 24VDC (0.9W)	70mA @ 24VDC (1.3W)	70mA @ 24VDC (1.3W)	37.5mA @ 24VDC (0.9W)

Color Kinetics Incorporated • 10 Milk Street, Suite 1100 • Boston, MA 02108 • USA
Tel 888 FULL RGB • Tel 617 423 9999 • Fax 617 423 9998 • info@colorkinetics.com • www.colorkinetics.com