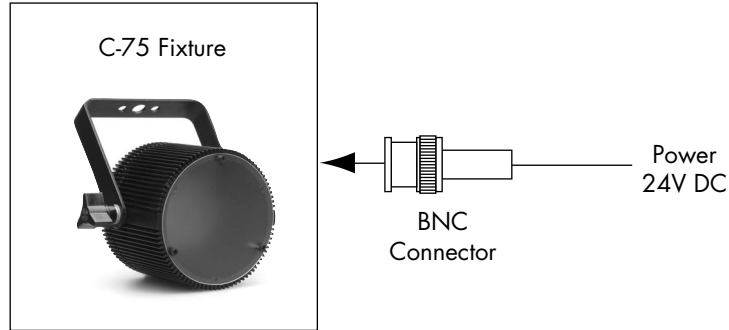


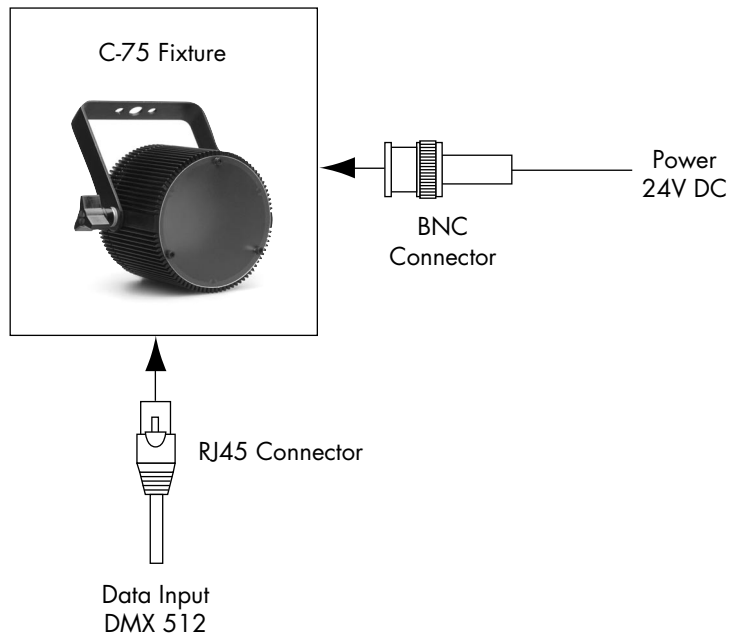
# C-75 FIXTURE

## WIRING DIAGRAM

### STANDALONE MODE



### EXTERNAL CONTROL MODE





# C-75 FIXTURE

POWERED BY CHROMACORE



Color Kinetics® C-75 is perfect for medium-sized applications using color-changing light. This fixture projects a soft-edge beam of light at a 22° beam angle. C-75 fixtures operate in either Stand Alone or external control mode. Using on-board intelligence, they run a pre-programmed assortment of shows including color washes, random color changes, fixed colors, ultra smooth cross fades and strobos. Shows can then be varied by speed, direction, saturation, etc. Alternatively, C-75 fixtures can be controlled via DMX512 (RS485) networks for the ultimate in flexibility and control.

C-75 fixtures operate from the C-Series Power Supply and the Multi Output Power Supply. These power supplies accept input voltages between 100-240VAC. C-75 fixtures are made from extruded aluminum with a black anodized finish and come equipped with a diffuser lens and hanging yoke.

## C-75 SPECIFICATIONS

<b>COLOR RANGE</b>	16.7 million (24bit) additive RGB colors; continuously variable intensity output range
<b>SOURCE</b>	High brightness colored LEDs
<b>BEAM ANGLE</b>	22°
<b>HOUSING</b>	Black aluminum
<b>CONNECTORS</b>	RJ45 data connectors, BNC power connector
<b>LISTINGS</b>	UL Listed, CE Certified

## COMMUNICATION SPECIFICATIONS

<b>DATA INTERFACE</b>	DMX512 (RS485) compatible; serial port compatible with Smart Jack Adapter
<b>CONTROL</b>	Stand Alone or DMX512 (RS485)

## ELECTRICAL SPECIFICATIONS

<b>POWER REQUIREMENT</b>	24V DC
<b>POWER CONSUMPTION</b>	Maximum: 10 Watts
<b>POWER SUPPLY</b>	C-Series Power Supply (ITEM# 109-000001-00), Multi Output Power Supply (ITEM # 109-000002-00)

## DESCRIPTION OF SHOWS

<b>FIXED COLOR</b>	Static display of a single color
<b>COLOR WASH</b>	Colors transition gracefully from color to color, cycling through the entire color wheel
<b>CROSS FADE</b>	Colors cycle back and forth gracefully between two colors
<b>RANDOM COLOR</b>	Colors step or jump from one color to the next in random order
<b>FIXED COLOR STROBE</b>	A constant color appears in a rapid series of intense flashes of light
<b>VARIABLE COLOR STROBE</b>	A sequence of colors appear in a rapid series of intense flashes of light

## MANUFACTURING STANDARDS

To ensure the highest level of product reliability, this Color Kinetics design endured accelerated life test conditions including an operating temperature span of 360°F and cyclic loading up to 60G.

## SOURCE LIFE

Color Kinetics illumination products utilize high brightness LEDs as the illumination source. LED manufacturers predict LED life of up to 100,000 hours MTBF (mean time between failure), the standard used by conventional lamp manufacturers to measure source life. However, like all basic light sources, LEDs also experience lumen depreciation over time. So while LEDs can emit light for an extremely long period of time, MTBF is not the only consideration in determining useful life. 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 [ambient temperature: -4° F to 104° F (-20° C to 40° C), humidity: 0-95% non-condensing humidity, adequate ventilation and air volume] and when operated using typical color-changing effects. Long-term operation outside of these ranges or conditions, or at the upper limits of these ranges or conditions, may subject the product to further degradation of the LED source life, or in extreme cases, failure of internal components. Source life information is based on LED manufacturers' data, as well as other third party testing.

## U.S. AND FOREIGN PATENTS AND PATENTS PENDING

Color Kinetics Incorporated grants the purchaser of its lighting products and controllers a personal and non-transferable license to use Chromacore®, its patented technology for networkable control of LED-based color-changing lighting fixtures for illumination, display and design. This license is granted only by Color Kinetics Incorporated, and may not be transferred except by the grantor. The design, duplication, manufacture, or sale of other products using networkable control of LED-based color-changing lighting may be prohibited and is not licensed hereunder. Other patents pending.



ITEM# 100-000002-00

U.S. PATENTS 6,016,038, 6,150,774 AND 6,211,626  
OTHER PATENTS PENDING

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

BR0007 Rev 06

Specifications subject to change without notice.

**WARNING:** The power must be OFF before installing or removing the product. The DMX address should be assigned BEFORE the product is installed.

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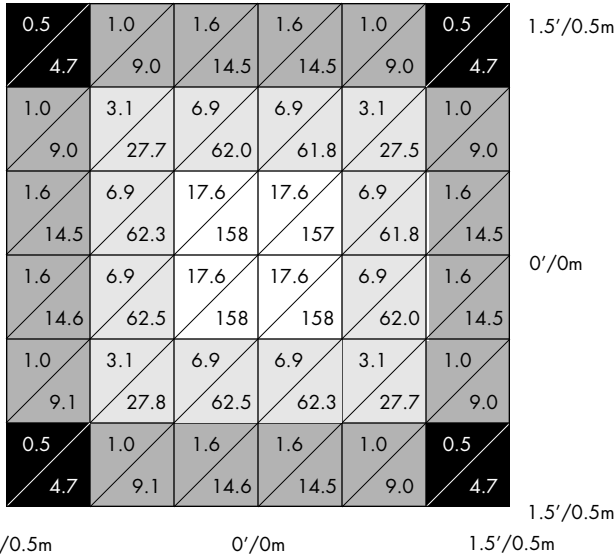
# C-75 FIXTURE

## PHOTOMETRIC PERFORMANCE

### SOURCE SPECIFICATIONS

Optics: Polycarbonate diffuser  
 Source: 77 LEDs  
 (27 Red, 25 Green, 25 Blue)  
 Beam Angle: 22° (at 50% of peak illuminance)  
 Distribution: Symmetric direct illumination  
 CCT: Adjustable 1,000K-10,000K  
 CRI: Not measurable (CIE 13.3-1995)

### ILLUMINANCE DISTRIBUTION



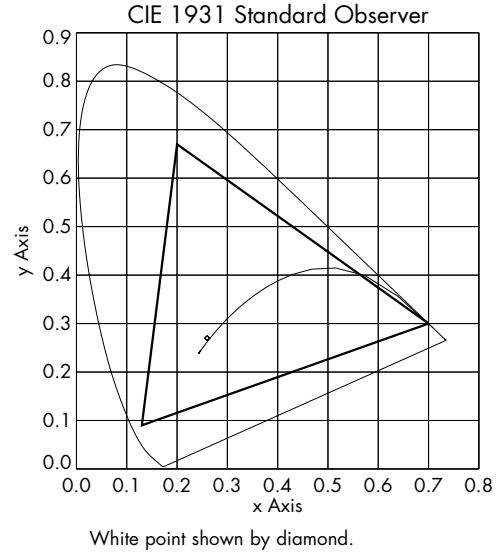
Units: Footcandles/Lux  
 Measured on: White  
 Distance from surface: 3'/1m (from center of grid)  
 Multipliers: 0.20 Red, 0.58 Green, 0.22 Blue

### ILLUMINANCE

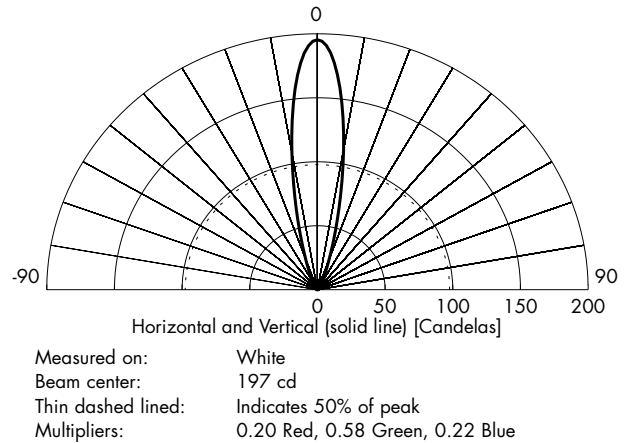
COLOR	3'	6'	9'	12'	15'
	1m	2m	3m	4m	5m
WHITE	21.9 197.0	5.5 49.3	2.4 21.9	1.4 12.3	0.9 7.9
RED	4.4 39.4	1.1 9.9	0.5 4.4	0.3 2.5	0.2 1.6
GREEN	12.7 114.3	3.2 28.6	1.4 12.7	0.8 7.1	0.5 4.6
BLUE	4.8 43.3	1.2 10.8	0.5 4.8	0.3 2.7	0.2 1.7

Measured in Footcandles/Lux on axis.

### GAMUT



### CANDLE POWER DISTRIBUTION

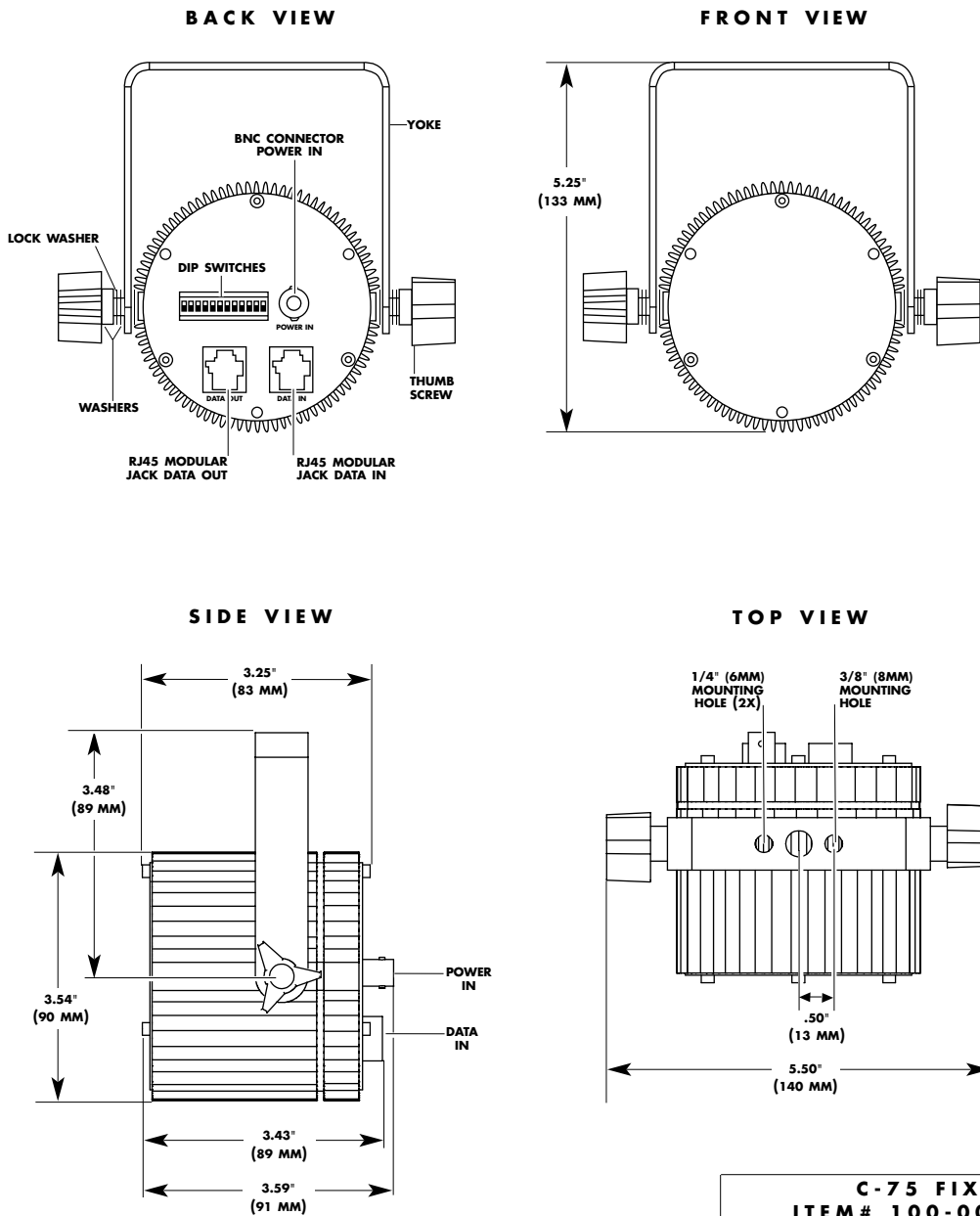


### LIGHT OUTPUT

COLOR	TOTAL OUTPUT (LUMENS)	POWER (WATTS)	EFFICACY (lm/w)
WHITE	40.5	8.9	4.6
RED	8.0	1.9	4.2
GREEN	24.0	3.6	6.7
BLUE	8.7	3.7	2.4

# C-75 FIXTURE

## PHYSICAL DIMENSIONS



C - 75 FIXTURE ITEM # 100-000002-00	
WEIGHT	15.5 oz (439g)
DATA	RJ45 connector data input and output ports
POWER CONNECTOR	BNC connector - female
POWER REQUIREMENT	400mA@24VDC (10w)