



COLORBLAZE 72



Color Kinetics® ColorBlaze® 72 is designed for washing large areas with far-reaching, rich, saturated colors and color changing effects. The streamlined, six-foot fixture is a simple yet powerful solution for large-area scenery and wash lighting for venues such as theaters, TV studios, concerts, events, casinos, and exhibits. On-board power supplies and addressing capabilities eliminate the need for special equipment, simplifying specification and installation, and its auto-switching power supplies are suited for both domestic and international use.

Designed in a rugged extruded aluminum housing, each fixture features attached mounting brackets, each with three, 1/2-inch (1.3 cm) mounting holes for use with Cheeseborough clamps or pipe clamps. Locking knobs located on the mounting brackets allow for 180° rotational adjustment and locking without the use of special tools. Optional ColorBlaze mounting bracket are available for T-handle mount applications. The housing is equipped to affix spread lenses, louvers, and other attachments and is available in a black or white painted finish. A single 3-wire, 18AWG 6-foot (1.8 m) UL/cUL rated cord with IEC and flying leads is supplied. (Consult distribution for cord sets listed for PSE or CE).

Each ColorBlaze 72 has 12 individual circuit board assemblies with 18 high-intensity LEDs per board, making it sequentially controllable in 6-inch increments by a Color Kinetics DMX controller or a third-party DMX512 controller. Each circuit board is pre-addressed for Light# 1-12/DMX# 1-36. Data can be daisy-chained from fixture to fixture with an RJ45 data cable or an XLR-5 data cable.

For protection from overheating, ColorBlaze 72 has been designed with a temperature monitoring feature. If operating temperatures rise to an unsafe level, a compensation circuit is triggered and ColorBlaze 72 operation is interrupted causing the lights to turn dull red. After 30 minutes the lights will auto-cycle and return to full intensity.

COLORBLAZE 72 SPECIFICATIONS

COLOR RANGE	16.7 million (24 bit) additive RGB colors; continuously variable intensity output range
SOURCE	High intensity light emitting diodes (LEDs)
BEAM ANGLE	10°
HOUSING	Extruded aluminum with black or white finish
POWER CONNECTOR	IEC 15A (max) with C13 plug, UL/cUL rated 2-pole, 3-wire, grounded, 15A, flying leads
DATA CONNECTORS	RJ45 or XLR-5
LISTINGS	UL/cUL, CE, PSE

COMMUNICATION SPECIFICATIONS

DATA INTERFACE	DMX512
CONTROL	Color Kinetics full line of DMX controllers or other DMX512 (RS485) controllers

ELECTRICAL SPECIFICATIONS

VOLTAGE REQUIREMENT	100-240VAC
POWER CONSUMPTION	420W, 3.7A nominal at full intensity (full RGB)

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	-40°F to 122°F (-40°C to 50°C) operating temperature 14°F to 122°F (-10°C to 50°C) starting temperature
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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 80,000-100,000 hours. This is LED manufacturers' test data. High output is defined as any LED device that is 1/2 watt or above. 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.

CHROMACORE®
BY COLOR KINETICS

OPTIBIN®
BY COLOR KINETICS



ITEM# 116-000015-00 (Black)
116-000015-01 (White)

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.

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BR0113 Rev 06

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

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PHOTOMETRIC PERFORMANCE

Photometric data is based on test results from an independent testing lab.

SOURCE SPECIFICATIONS

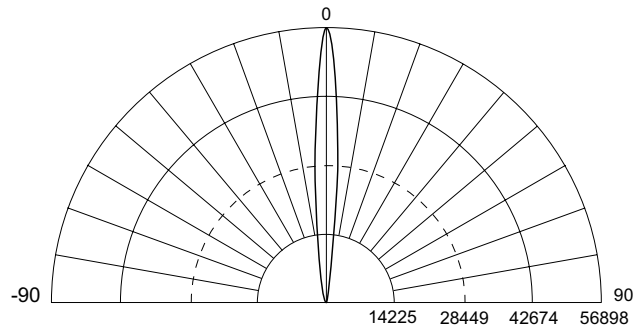
Optics:	Clear polycarbonate
Source:	216 LEDs (72 Red, 72 Green, 72 Blue)
Beam Angle:	10° (at 50% of peak illuminance)
Distribution:	Symmetric direct illumination
CCT:	Adjustable 1,000 – 10,000K
CRI:	Not measurable (CIE 13.3-1995)

ILLUMINANCE DISTRIBUTION

13.4	15.9	16.4	16.2	15.1	12.1	6.0'/2.0m
144.2	171.1	176.5	174.4	162.5	130.2	
30.5	36.7	38.4	38.1	34.3	23.1	
328.3	395.0	413.3	410.1	369.2	248.6	
105.0	123.0	126.0	127.0	119.0	71.1	
1130.2	1324.0	1356.3	1367.0	1280.9	765.3	3.0'/1.0m
143.0	195.0	202.0	203.0	195.0	140.0	
1539.3	2099.0	2174.3	2185.1	2099.0	1507.0	
78.2	128.0	136.0	135.0	132.0	112.0	
841.7	1377.8	1463.9	1453.1	1420.8	1205.6	
25.3	39.0	42.6	42.7	41.5	34.8	
272.3	419.8	458.5	459.6	446.7	374.6	0.0'/0.0m
3.0'/1.0m		0'/0m		3.0'/1.0m		

Units: Footcandles (top)/Lux (bottom)
 10.8 lux = 1 fc
 Measured on: All, reflectance model 80/50/20%
 Distance from surface: Bottom of grid, 3' (1.0 m) from surface, light at a 45° angle off horizontal

CANDLE POWER DISTRIBUTION



Measured on: White
 Beam center: 56898 cd
 Thin dashed line: Indicates 50% of peak
 Multipliers: 0.34 Red, 0.49 Green, 0.18 Blue

ILLUMINANCE

COLOR	3'	6'	9'	15'
	1m	2m	3m	5m
WHITE	1693.0	626.0	247.0	135.0
	18223.5	6738.3	2658.7	1453.1
RED	569.4	210.5	83.1	45.4
	6128.5	2266.1	894.1	488.7
GREEN	826.2	305.5	120.5	65.9
	8893.0	3288.3	1297.4	709.1
BLUE	308.1	113.9	45.0	24.6
	3316.7	1226.4	483.9	264.5

Measured in Footcandles (top)/Lux (bottom) on axis.
 Measured on: All, reflectance 0.

LIGHT OUTPUT

COLOR	TOTAL OUTPUT (lumens)	POWER (Watts)	EFFICACY (Lm/w)
WHITE	3532	382.0	9.2
RED	1187.8	166.0	7.2
GREEN	1723.6	166.0	10.4
BLUE	642.8	166.0	3.9

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PHYSICAL DIMENSIONS

