COLORBLAZE 48

POWERED BY CHROMACORE



Color Kinetics® ColorBlaze™ 48 is a Chromacore®-powered product, in the bColor Series, designed for washing large areas with far-reaching, rich, saturated colors, and color changing effects. ColorBlaze 48's on-board power supply and addressing capabilities eliminate the need for special equipment, simplifying specification and installation, and the auto-switching power supply is suited for both domestic and international use. The streamlined, four-foot housing provides a simple yet powerful solution for large-area scenery and wash lighting for venues such as theaters, TV studios, concerts, events, casinos, and exhibits. ColorBlaze 48 is the perfect foot light for TV productions and Broadway shows.

Designed in a stylish and 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 360° rotation, locking, and adjustment without the use of special tools. 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, 4-foot (1.2 m) cable provides power directly from a 100VAC to 240VAC power source via a 2-pole, 3-wire, grounded, 20A plug (not included).

Each ColorBlaze 48 has 8 individual circuit board assemblies with 18 high-intensity LEDs per board making it sequentially controllable in 6-inch increments by a Color Kinetics controller or a third-party controller. Data can be daisy-chained from fixture to fixture with an RJ45 data cable or an XLR-5 data

For protection from extreme temperatures, ColorBlaze 48 has been designed with a temperature monitoring feature. If operating temperatures rise to an unsafe level, a compensation circuit is triggered and ColorBlaze 48 operation is interrupted causing the lights to turn dull red. After 30 minutes the lights will auto-cycle and return to full intensity.

COLORBLAZE 48 SPECIFICATIONS

COLOR RANGE 16.7 million (24bit) additive RGB colors; continuously variable intensity

output range

High intensity power light emitting diodes (LEDs) SOURCE

BEAM ANGLE

Extruded Aluminum with black or white finish HOUSING POWER CONNECTOR 2-pole, 3-wire, grounded, 20A (not included)

DATA CONNECTORS RI45 or XLR-5

C-UL US listed, CE certified LISTINGS

COMMUNICATION SPECIFICATIONS

DMX 512 DATA INTERFACE

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

ELECTRICAL SPECIFICATIONS 100-240VAC POWER REQUIREMENT

280W, 2.5A nominal at full intensity (full RGB) POWER CONSUMPTION

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE -4°F to 122°F (-20°C to 50°C) based on testing of specific product

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 degrada-tion 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.

COLOR CONSISTENCY

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 the most consistent control of color and intensity from product to product.



∯ DRY



ITEM# 116-000008-00 (Black) 116-00008-01 (White)

U.S. PATENTS 6.016.038, 6.150.774 AND 6.340.868 EUROPEAN PATENT 1,016,062 OTHER PATENTS PENDING

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BR0116 Rev 00

Specifications subject to change without notice.

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PHOTOMETRIC PERFORMANCE

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

SOURCE SPECIFICATIONS

Optics: Clear polycarbonate

Source: 144 LEDs (48 Red, 48 Green, 48 Blue)
Beam Angle: 22° (at 50% of peak illuminance)
Distribution: Symmetric direct illumination
CCT: Adjustable 1,000–10,000K
CRI: Not measurable (CIE 13.3-1995)

ILLUMINANCE DISTRIBUTION

	6.0′/2.0m					
1.5	3.7	10.4	10.4	3.7	1.5	0.0 / 2.0111
16.1	39.8	111.9	111.9	39.8	16.1	
2.3	8.4	49.2	49.2	8.4	2.3	
24.8	90.4	529.6	529.6	90.4	24.8	
2.7	15.3	327.0	327.0	15.3	2.7	
29.1	164.7	3519.8	3519.8	164.7	29.1	2.0//1.0
2.5	12.3	290.0	290.0	12.3	2.5	3.0′/1.0m
26.9	132.4	3121.6	3121.6	132.4	26.9	
3.2	6.1	25.9	25.9	6.1	3.2	
34.4	65.7	278.8	278.8	65.7	34.4	
2.8	5.3	6.7	6.7	5.3	2.8	
30.1	57.0	72.1	72.1	57.0	30.1	0.0′/0.0m

3.0'/1.0m 0'/0m 3.0'/1.0m

Units: Footcandles/Lux

Measured on: White

Distance from surface: 3'/1m (from bottom of grid with

light at a 45° angle)

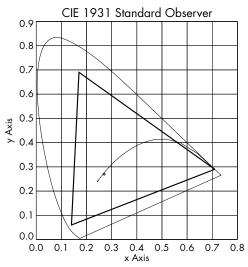
Multipliers: 0.31 Red, 0.51 Green, 0.26 Blue

ILLUMINANCE

COLOR	3′	6'	9′	15′
COLOR	lm	2m	3m	3m
WHITE	5180.3	1295.1	575.6	207.2
WHILE	55761.1	13940.3	6195.7	2230.4
RED	1605.9	401.5	178.4	64.2
KED	17285.9	4321.5	1920.7	691.4
GREEN	2642.0	660.5	293.6	105.7
OREEN	28438.2	7109.5	3159.8	1137.5
BLUE	1346.9	336.7	149.7	53.9
BLUE	14497.9	3624.5	1610.9	579.9

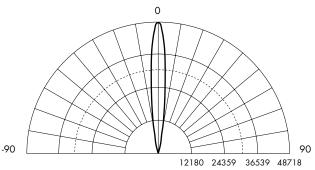
Measured in Footcandles/Lux on axis.

GAMUT



White point shown by diamond.

CANDLE POWER DISTRIBUTION

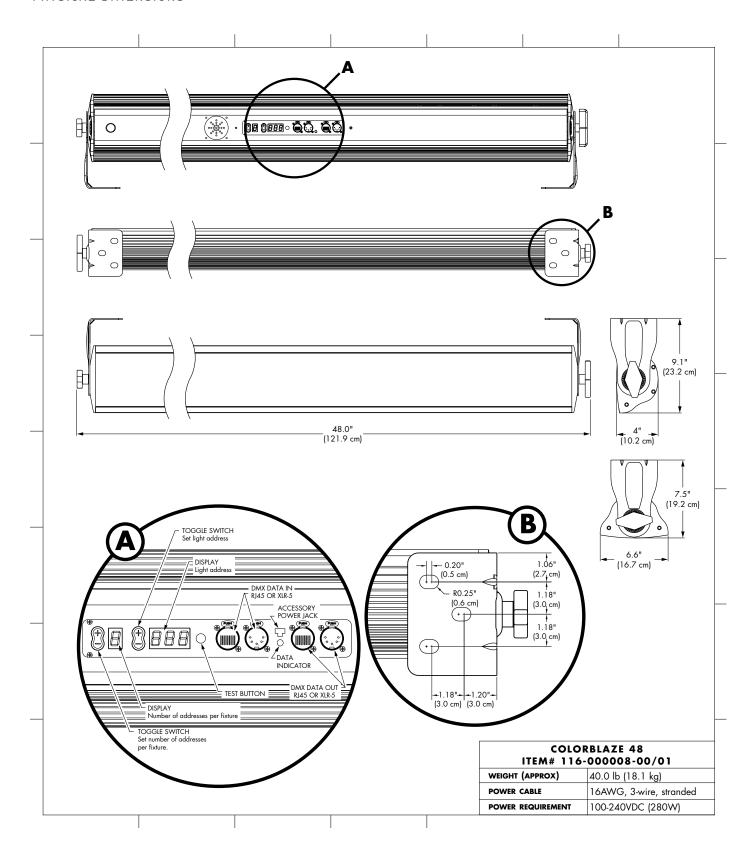


Measured on: White
Beam center: 48,718 cd
Thin dashed line: Indicates 50% of peak

Multipliers: 0.31 Red, 0.51 Green, 0.26 Blue

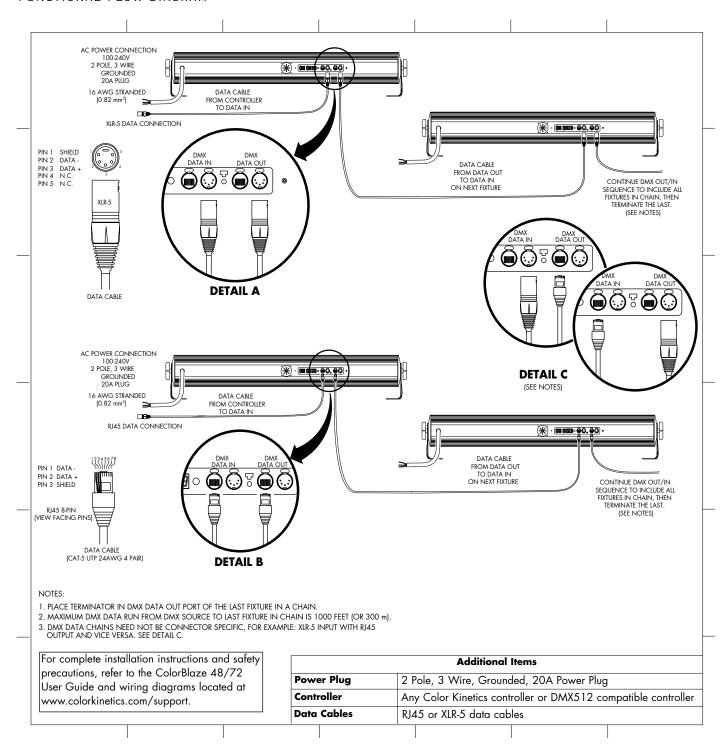
LIGHT OUTPUT

COLOR	TOTAL OUTPUT	POWER (WATTS)	EFFICACY (lm/W)
WHITE	2390	240.0	10.0
RED	740.9	84.0	8.8
GREEN	1218.9	84.0	14.5
BLUE	621.4	84.0	7.4



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FUNCTIONAL FLOW DIAGRAM



U.S. AND FOREIGN PATENTS AND PATENTS PENDING

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