



COLORBLAST 12

POWERED BY CHROMACORE



Color Kinetics® ColorBlast® 12 is a Chromacore®-powered product, in the bColor series, designed for washing walls with rich, saturated colors and color-changing effects. ColorBlast 12 is specifically designed with the needs of lighting designers, architects, and retail window directors in mind.

ColorBlast 12 is a sealed product designed for both indoor and outdoor installations. The stylish and rugged die-cast aluminum housing meets or exceeds specifications for use in wet and damp locations. ColorBlast 12 is available with a soft-focus, tempered glass lens or a clear tempered glass lens. The soft-focus lens produces a soft-edge 21° beam of light, while the clear lens offers an extended light projection. The housing is also equipped to affix spread lenses, louvers, and other attachments and is available in either a black, white, or aluminum powder coat finish to match its environment and prevent oxidation. A single 3-wire, 60-foot (18.3 m) cable, which provides both power and data to the light fixture, is rated for outdoor installations.

Designed to quickly aim the fixture without the need of special tools, ColorBlast 12 includes an industrial-grade constant torque hinge. Set screws and an Allen wrench are included for installations requiring locked positioning. The versatile base of ColorBlast 12 can be mounted to a junction box on a wall, ceiling, or floor. ColorBlast 12 includes a separate canopy, liquid-tight cable fitting, and swivel bracket. For a more finished look, mount the canopy to the base and mounting surface. The liquid-tight cable fitting seals the canopy opening. The swivel bracket allows for flexible fixture positioning.

ColorBlast 12 can be controlled by a Color Kinetics controller or a third-party controller. Each fixture comes pre-addressed to light number one. Simple effects such as fixed color and color wash, require no additional addressing. Other effects across multiple lights, including Chasing Rainbow or Color Sweep, require further addressing using one of the following Color Kinetics addressing tools: Serialized Addressing Software (SAS) or Zapi.

For protection from extreme temperatures, ColorBlast 12 has been designed with a temperature monitoring feature. If operating temperatures rise to an unsafe level, a compensation circuit is triggered and ColorBlast 12 operation is interrupted causing the lights to turn dull red. After 30 minutes the lights will auto-cycle and return to full intensity.

COLORBLAST SPECIFICATIONS

COLOR RANGE	16.7 million (24-bit) additive RGB colors; continuously variable intensity output range
SOURCE	High intensity power light emitting diodes (LEDs)
BEAM ANGLE	21° Beam angle
HOUSING	Die Cast Aluminum in black, white, or aluminum powder coat finish
LENSES	Soft-focus tempered glass or clear tempered glass
CONNECTORS	Unified power and data cable
LISTINGS	C-UL US listed, CE certified

COMMUNICATION SPECIFICATIONS

DATA INTERFACE	Color Kinetics data interface system
CONTROL	Color Kinetics full line of controllers or other DMX512 (RS485) compatible when using Color Kinetics power/data supply

ELECTRICAL SPECIFICATIONS

POWER REQUIREMENT	24VDC
POWER CONSUMPTION	50W Max. at full intensity (full RGB)
POWER SUPPLY	PDS-150e (ITEM# 109-000008-01); PDS-60 24V (ITEM# 109-000017-XX)

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	-4°F to 122°F (-20°C to 50°C) based on testing of specific product
PROTECTION RATING	IP66

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.



Low Voltage Fixture
78GF

ITEM# 116-000002-00 (White)
116-000002-01 (Black)
116-000002-02 (Aluminum)

U.S. PATENTS 6,016,038, 6,150,774, 6,340,868, AND 6,788,011
FOREIGN PATENTS: EUROPE 1,016,062, AUSTRALIA 757000,
HONG KONG 1025416, AND CANADA 2,302,227
OTHER PATENTS PENDING

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BR0089 Rev 04

Specifications subject to change without notice.

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COLORBLAST 12

PHOTOMETRIC PERFORMANCE

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

SOURCE SPECIFICATIONS

Optics:	Tempered soft focus glass diffuser Clear tempered glass (Photometrics not yet available)
Source:	36 LEDs (12 Red, 12 Green, 12 Blue)
Beam Angle:	21° (at 50% of peak illuminance)
Distribution:	Symmetric direct illumination
CCT:	Adjustable 1,000–10,000K
CRI:	Not measurable (CIE 13.3-1995)

ILLUMINANCE DISTRIBUTION

1.8	2.5	3.0	3.0	2.5	1.8	6.0'/2.0m
19.4	26.9	32.3	32.3	26.9	19.4	
2.1	6.0	8.5	8.5	6.2	2.1	
22.6	64.6	91.5	91.5	64.6	22.6	
1.6	7.1	27.0	27.0	7.1	1.6	
17.2	76.4	290.6	290.6	76.4	17.2	3.0'/1.0m
1.8	9.3	64.1	64.1	9.3	1.8	
19.4	100.1	690.0	690.0	100.1	19.4	
1.5	6.2	40.0	40.0	6.2	1.5	
16.1	66.7	430.6	430.6	66.7	16.1	
1.0	2.8	7.9	7.9	2.8	1.0	0.0'/0.0m
10.8	30.1	85.0	85.0	30.1	10.8	
3.0'/1.0m		0'/0m		3.0'/1.0m		

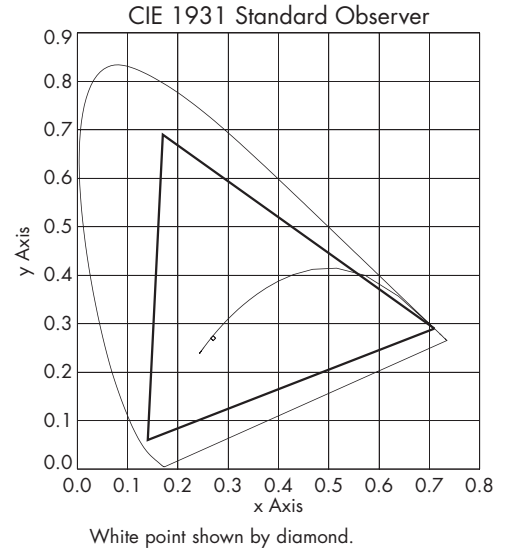
Units: Footcandles/Lux
 Measured on: White
 Distance from surface: 3'/1m (from bottom of grid with light at a 45° angle)
 Multipliers: 0.28 Red, 0.54 Green, 0.26 Blue

ILLUMINANCE

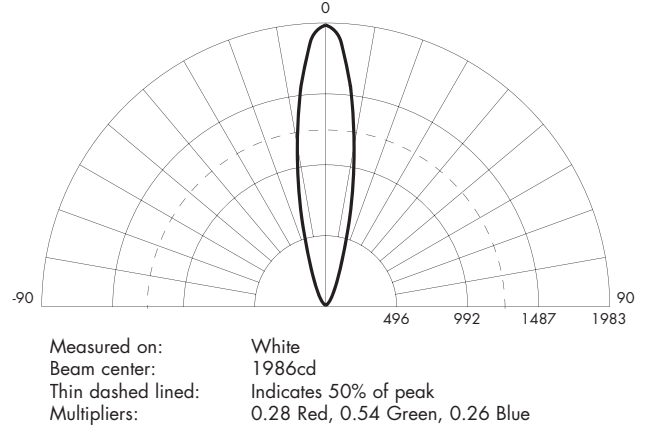
COLOR	3' 1m	6' 2m	9' 3m	12' 4m	15' 5m
WHITE	220.6 2374.5	55.2 594.2	24.5 263.7	13.8 148.5	8.8 94.7
RED	62.0 667.4	15.5 166.8	6.9 74.3	3.9 42.0	2.5 26.9
GREEN	118.4 1274.4	29.6 318.6	13.2 142.1	7.4 79.7	4.7 50.6
BLUE	56.7 610.3	14.2 152.8	6.3 67.8	3.6 38.8	2.3 24.8

Measured in Footcandles/Lux on axis.

GAMUT



CANDLE POWER DISTRIBUTION

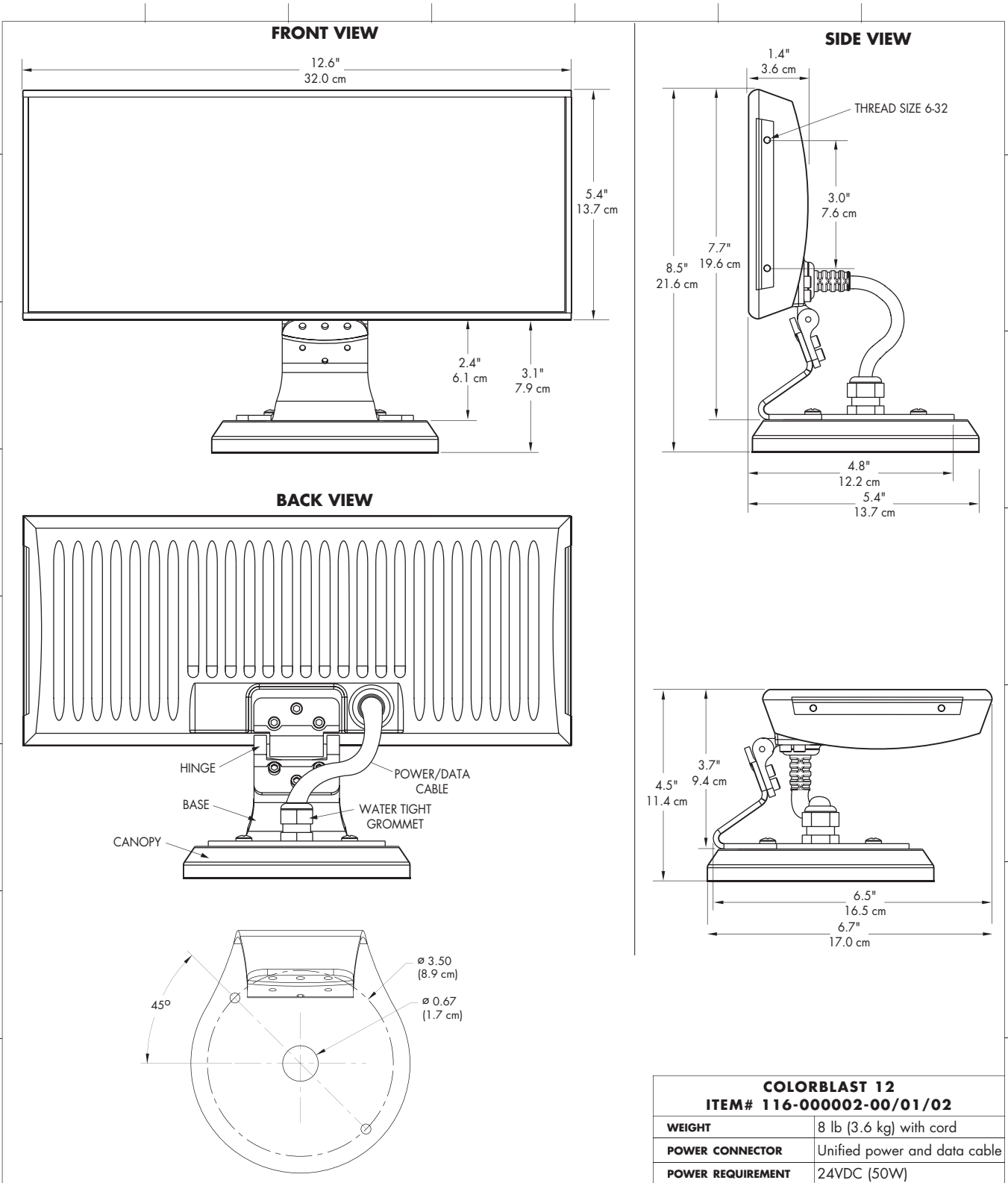


LIGHT OUTPUT

COLOR	TOTAL OUTPUT (LUMENS)	POWER (WATTS)	EFFICACY (lm/w)
WHITE	452	50.0	9.0
RED	124	17.2	7.2
GREEN	260	17.5	14.8
BLUE	117	17.9	6.5

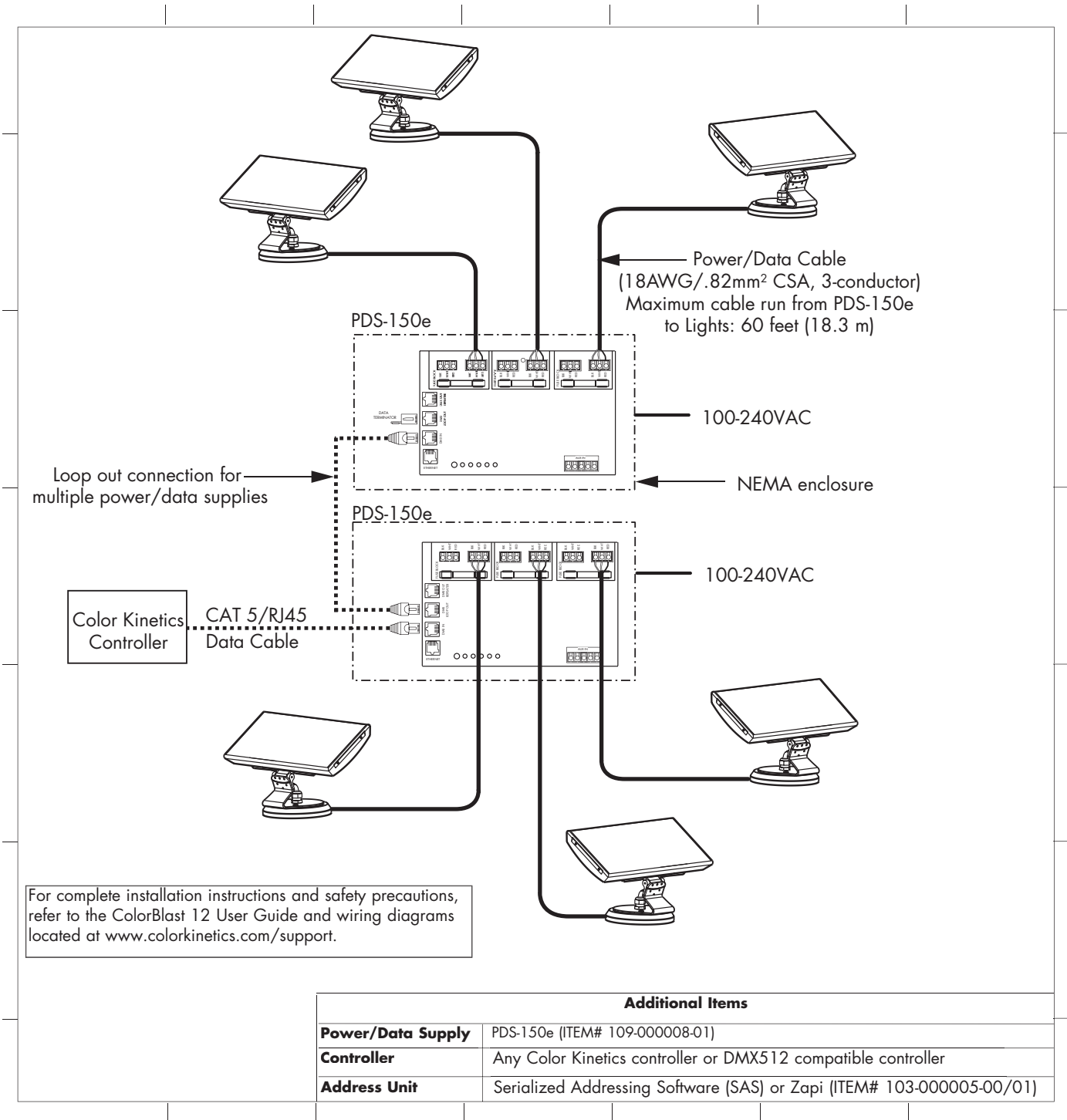
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PHYSICAL DIMENSIONS



COLORBLAST 12

FUNCTIONAL FLOW DIAGRAM



U.S. AND FOREIGN PATENTS AND PATENTS PENDING

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.