



COLORBURST 6

POWERED BY CHROMACORE



Color Kinetics® ColorBurst™ 6 is a Chromacore®-powered product in the bColor Series, and is designed to meet the needs of lighting designers. ColorBurst 6 provides lighting professionals a small, sleek solution for spotlighting and wall washing with rich, saturated colors and color changing effects.

Projecting a soft-edge beam of light, ColorBurst 6 is a sealed product designed for both indoor and outdoor installations. The fixture is fully enclosed in a stylish and rugged die-cast aluminum housing and meets or exceeds specifications for use in wet locations. Enclosed wiring gives ColorBurst 6 a neat appearance and optimum positioning. The housing is equipped with a three-screw accessory ring 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.

ColorBurst 6 has three 18AWG wire leads and attaches to a standard junction box or an optional mounting base, which has a 60-foot (18.3 m) three conductor cable. The 350° locking base swivel, with 350° locking fixture rotation, offers a versatile range of light positioning.

ColorBurst 6 can be controlled by a Color Kinetics controller or a third-party controller. Each fixture comes pre-addressed to light number one. With a Color Kinetics controller, 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, ColorBurst 6 has been designed with a temperature monitoring feature. If operating temperatures rise to an unsafe level, a compensation circuit is triggered and ColorBurst 6 operation is interrupted causing the light to turn dull red. After 30 minutes the light will auto-cycle and return to full intensity.

COLORBURST SPECIFICATIONS

COLOR RANGE	16.7 million (24bit) additive RGB colors; continuously variable intensity output range
SOURCE	High intensity power light emitting diodes (LEDs)
BEAM ANGLE	32°
HOUSING	Die cast aluminum in black, white, or aluminum powder coat finish
LISTINGS	C-UL US listed, CE certified

COMMUNICATION SPECIFICATIONS

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

ELECTRICAL SPECIFICATIONS

POWER REQUIREMENT	24VDC
POWER CONSUMPTION	25W Max. at full intensity (full RGB)
POWER SUPPLY	PDS-150e (ITEM# 109-000008-01)

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.



ColorBurst 6 ITEM# 116-000004-00 (White)
 116-000004-01 (Black)
 116-000004-02 (Aluminum)
 ColorBurst Base ITEM# 116-000005-00 (White)
 116-000005-01 (Black)
 116-000005-02 (Aluminum)

FOR USE UNDER U.S. PATENTS 6,016,038, 6,150,774 AND 6,340,868
 EUROPEAN PATENT 1,016,062
 OTHER PATENTS PENDING

©2002 Color Kinetics Incorporated. All rights reserved.
 Chromacore, Color Kinetics, the Color Kinetics logo, ColorBlast, ColorPlay, ColorScape, iColor, iPlayer, QuickPlay, and Smartjuice are registered trademarks, and ColorBurst and iColor Cove are trademarks of Color Kinetics Incorporated.

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

BR0100 Rev 00

Specifications subject to change without notice.

COLORBURST 6

PHOTOMETRIC PERFORMANCE

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

SOURCE SPECIFICATIONS

Optics:	Tempered soft focus glass diffuser
Source:	18 LEDs (6 Red, 6 Green, 6 Blue)
Beam Angle:	32° (at 50% of peak illuminance)
Distribution:	Symmetric direct illumination
CCT:	Adjustable 1,000–10,000K
CRI:	Not measurable (CIE 13.3-1995)

ILLUMINANCE DISTRIBUTION

1.0	2.1	3.3	3.3	2.1	1.0	6.0'/2.0m
10.8	22.6	35.5	35.5	22.6	10.8	
1.5	3.8	7.1	7.1	3.8	1.5	
16.1	40.9	76.4	76.4	40.9	16.1	
1.8	6.3	14.6	14.6	6.3	1.8	
19.4	67.8	157.2	157.2	67.8	19.4	
1.7	7.3	22.6	22.6	7.3	1.7	3.0'/1.0m
18.3	78.6	243.3	243.3	78.6	18.3	
1.1	4.6	15.7	15.7	4.6	1.1	
11.8	49.5	168.9	168.9	49.5	11.8	
0.4	1.5	3.9	3.9	1.5	0.4	0.0'/0.0m
4.3	16.1	41.9	41.9	16.1	4.3	
3.0'/1.0m	0'/0m	3.0'/1.0m				

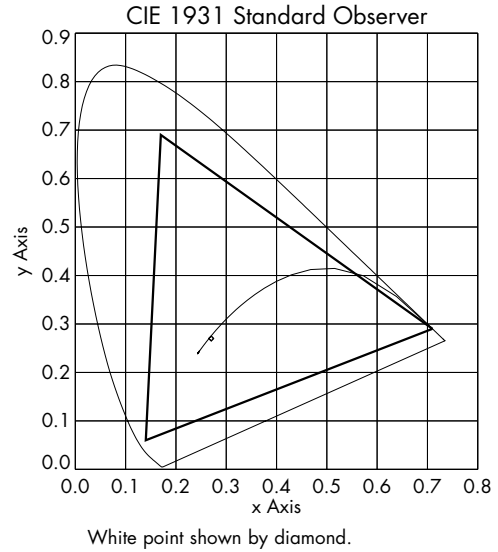
Units: Footcandles/Lux
 Measured on: White
 Distance from surface: 3'/1m (from bottom of grid with light at a 45° angle)
 Multipliers: 0.31 Red, 0.51 Green, 0.26 Blue

ILLUMINANCE

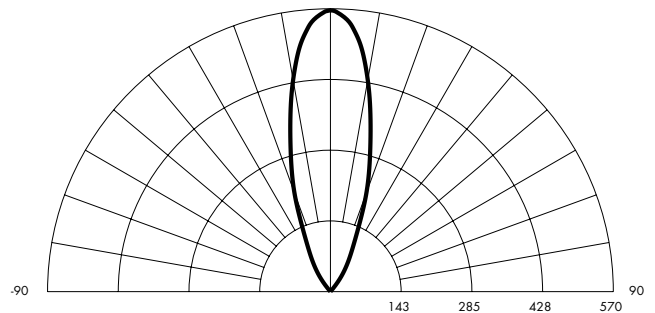
COLOR	3'	6'	9'	12'	15'
	1m	2m	3m	4m	5m
WHITE	63.3 681.4	15.8 170.1	7.0 75.3	4.0 43.1	2.5 26.9
RED	19.6 210.9	4.9 52.7	2.2 23.7	1.2 12.9	0.8 8.6
GREEN	32.3 347.7	8.1 87.2	3.6 38.8	2.0 21.5	1.3 13.9
BLUE	16.5 177.6	4.1 44.1	1.8 19.4	1.0 10.8	0.7 7.5

Measured in Footcandles/Lux on axis.

GAMUT



CANDLE POWER DISTRIBUTION



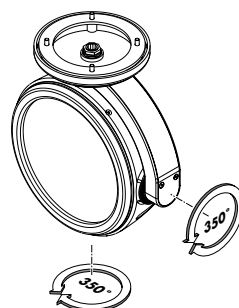
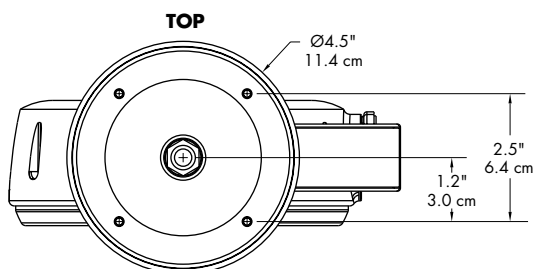
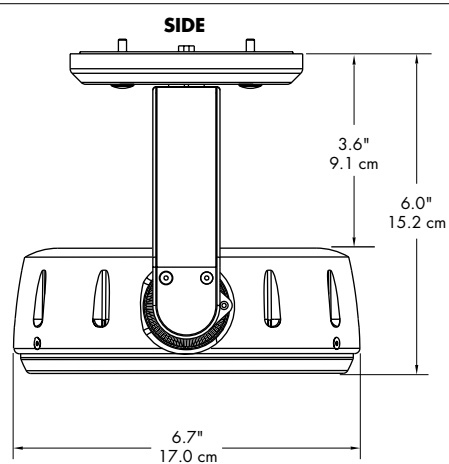
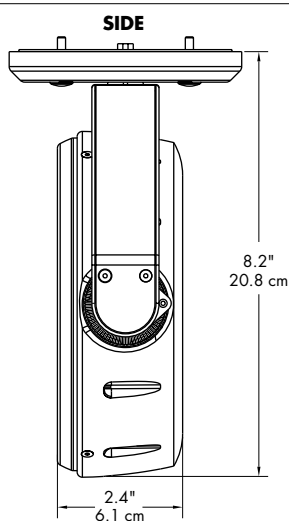
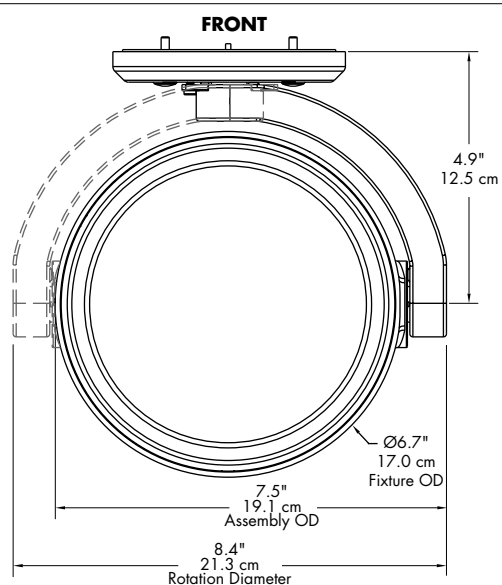
Measured on: White
 Beam center: 570cd
 Thin dashed lined: Indicates 50% of peak
 Multipliers: 0.31 Red, 0.51 Green, 0.26 Blue

LIGHT OUTPUT

COLOR	TOTAL OUTPUT (LUMENS)	POWER (WATTS)	EFFICACY (lm/w)
WHITE	246	25.4	9.7
RED	76.3	8.8	8.7
GREEN	125.5	8.8	14.3
BLUE	63.9	8.8	7.3

COLORBURST 6

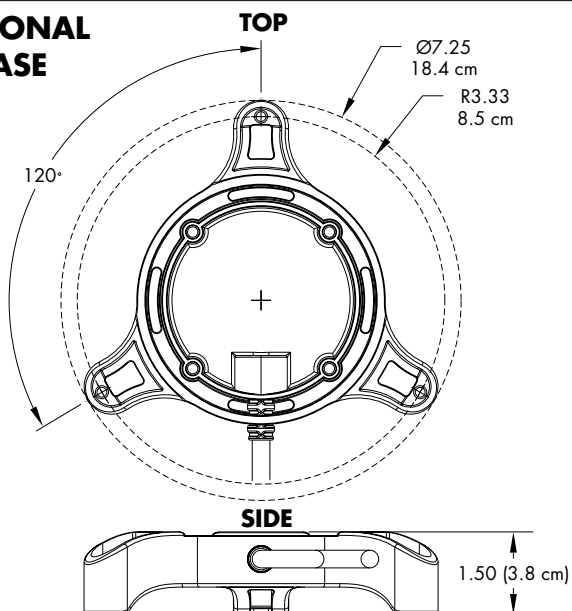
PHYSICAL DIMENSIONS



COLORBURST 6 ITEM#116-000004-00/01/02

POWER CONNECTION	3-Wire power/data cable
POWER REQUIREMENT	24VDC (25W)
WEIGHT	3.25 lbs (1.48 kg)

OPTIONAL BASE

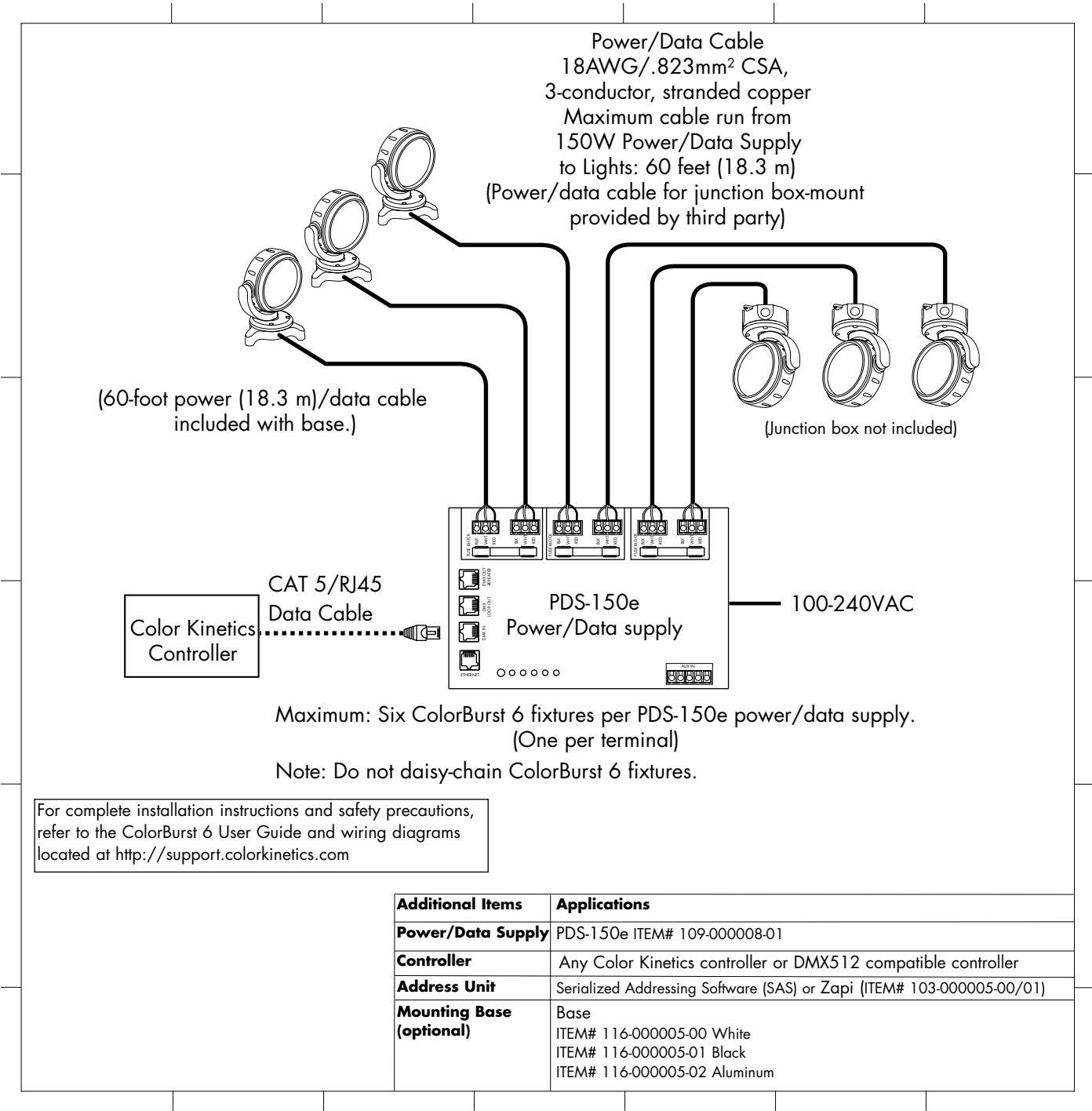


COLORBURST 6 OPTIONAL BASE ITEM#116-000005-00/01/02

POWER CONNECTION	60-foot, 3-Wire power/data cable
POWER REQUIREMENT	24VDC (25W)
WEIGHT	4.13 lbs (1.87 kg)

COLORBURST 6

FUNCTIONAL FLOW DIAGRAM



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.

MANUFACTURING DATA

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.