



C-SPLASH 2

POWERED BY CHROMACORE



Color Kinetics® C-Splash 2 is the submersible member of the bColor Series family of fixtures. It is designed to operate in underwater locations up to fifteen feet deep, including water treated with bromine or chlorine. C-Splash 2 is perfect for fountains and theme park applications.

NOTE: C-Splash 2 is designed for underwater use or non-submersible applications, but should NOT be used in human-occupied underwater locations, such as pools and spas.

This fixture projects a soft-edge beam of light at a 22° beam angle. C-Splash 2 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 on the following Color Kinetics addressing tools: Serialized Addressing Software (SAS) or Zapi.

C-Splash 2 comes with a unified power and data cable to minimize wiring. For maximum ease of installation, operation, and safety, Color Kinetics recommends using this fixture with the PDS-150e power/data supply.

The C-Splash 2 fixture consists of a cast brass housing and yoke with silicon bronze adjusting hardware, and is bronze in color. It also comes equipped with a tempered soft focus glass diffuser.

For protection from damage due to excessive temperature, C-Splash 2 has been designed with a temperature monitoring feature. If operating temperatures rise to beyond a permissible, C-Splash 2 operation is interrupted, causing the lights to turn dull red. After identifying and correcting the thermal problem, simply power cycle the fixture to return it to normal operation.

C-SPLASH 2 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	22°
HOUSING	Cast brass
CONNECTORS	Unified power and data cable
PROTECTION RATING	IP68
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

VOLTAGE REQUIREMENT	24 VDC
POWER CONSUMPTION	Maximum: 25 Watts at full intensity (full RGB)
POWER SUPPLY	Color Kinetics PDS-150e (ITEM#:109-000008-01)

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	- 4° F to 122° F (- 20° C to 50° C)
SUBMERSION DEPTH	Up to 15 feet (5 meters) maximum

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.

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.



ITEM# 116-000006-00

FOR USE UNDER 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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BRO112 Rev 02

Specifications subject to change without notice.

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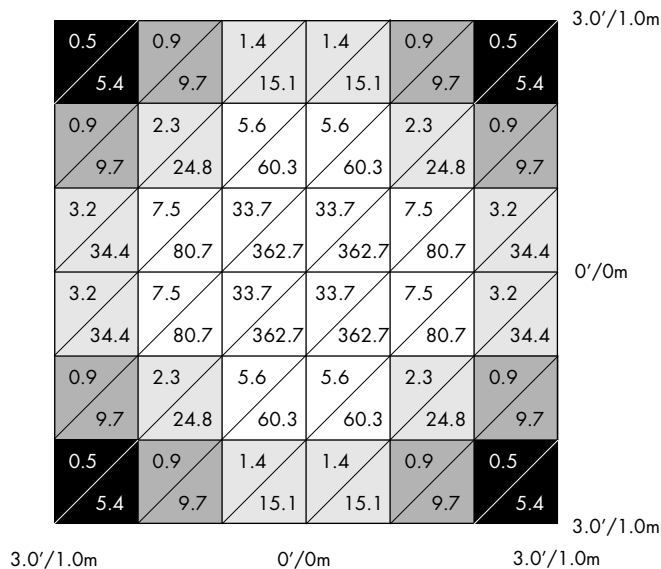
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PHOTOMETRIC PERFORMANCE

SOURCE SPECIFICATIONS

Optics:	Tempered soft focus glass diffuser
Source:	18 LEDs (6 Red, 6 Green, 6 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



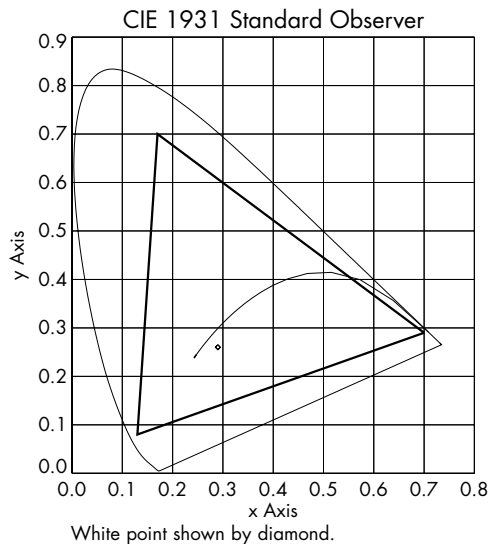
Units: Footcandles/Lux
 Measured on: White
 Distance from surface: 3'/1m (from center of grid)
 Multipliers: 0.31 Red, 0.52 Green, 0.26 Blue

ILLUMINANCE

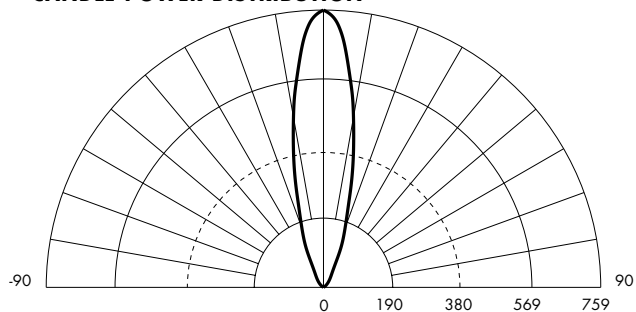
COLOR	3' 1m	6' 2m	9' 3m	15' 5m
WHITE	84.3 907.4	21.1 227.1	9.4 101.2	3.4 36.6
RED	26.1 280.9	6.5 70.0	2.9 31.2	1.0 10.8
GREEN	43.9 472.5	11.0 118.4	4.9 52.7	1.8 19.4
BLUE	21.9 235.7	5.5 59.2	2.4 25.8	0.9 9.7

Measured in Footcandles/Lux on axis.

GAMUT



CANDLE POWER DISTRIBUTION



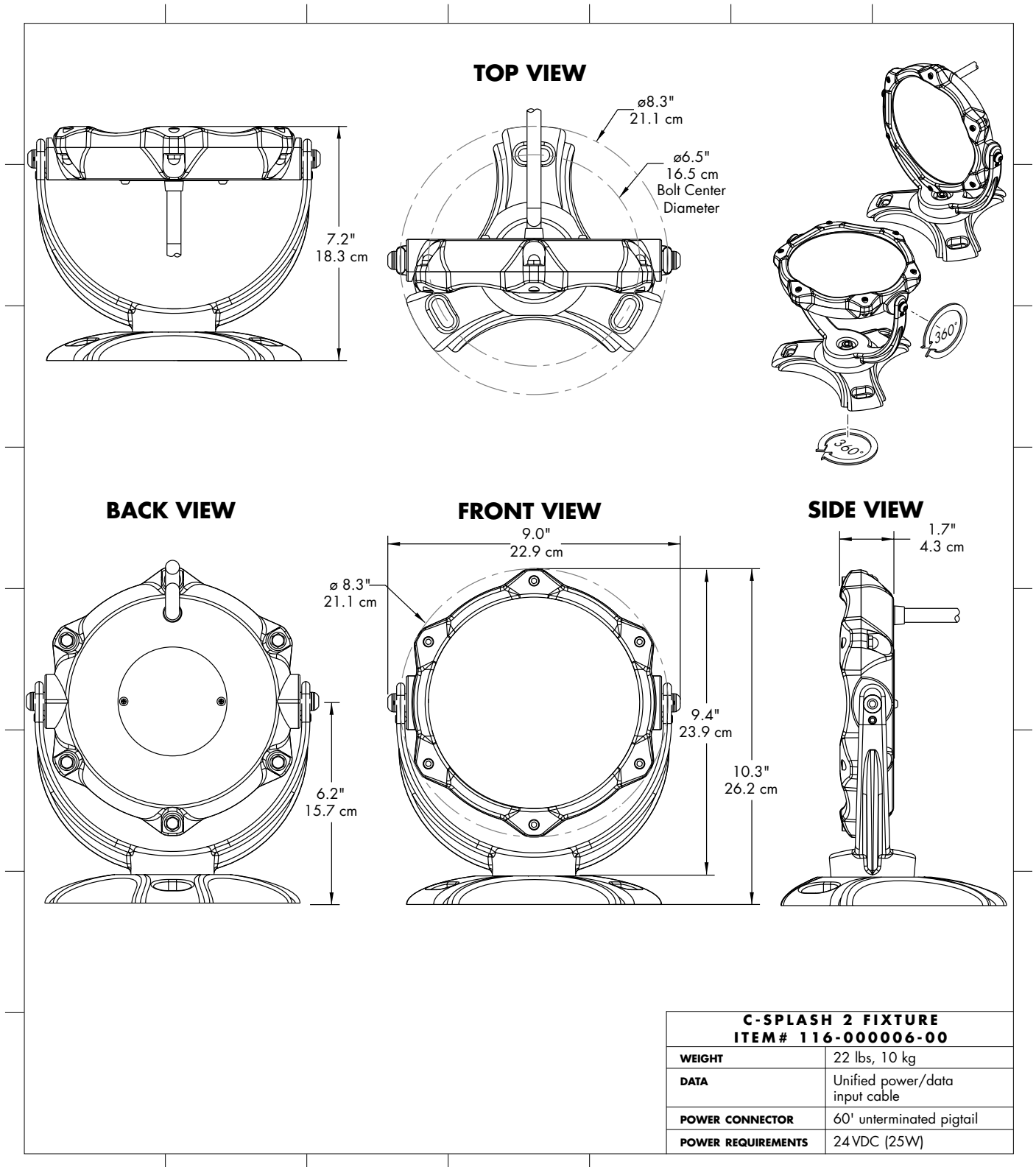
Measured on: White
 Beam center: 759 cd
 Thin dashed lined: Indicates 50% of peak
 Multipliers: 0.31 Red, 0.52 Green, 0.26 Blue

TYPICAL LIGHT OUTPUT

COLOR	TOTAL OUTPUT (LUMENS)	POWER (WATTS)	EFFICACY (lm/w)
WHITE	242.0	25	9.6
RED	75.0	8.8	8.5
GREEN	125.8	8.9	14.2
BLUE	62.9	8.8	7.1

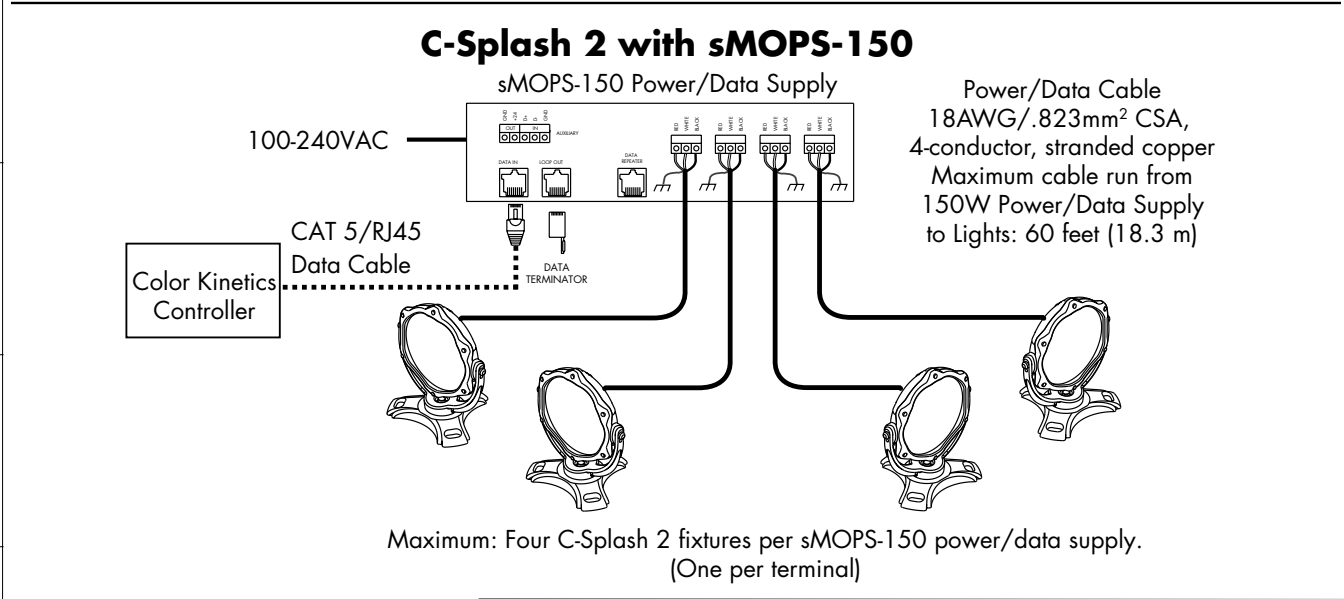
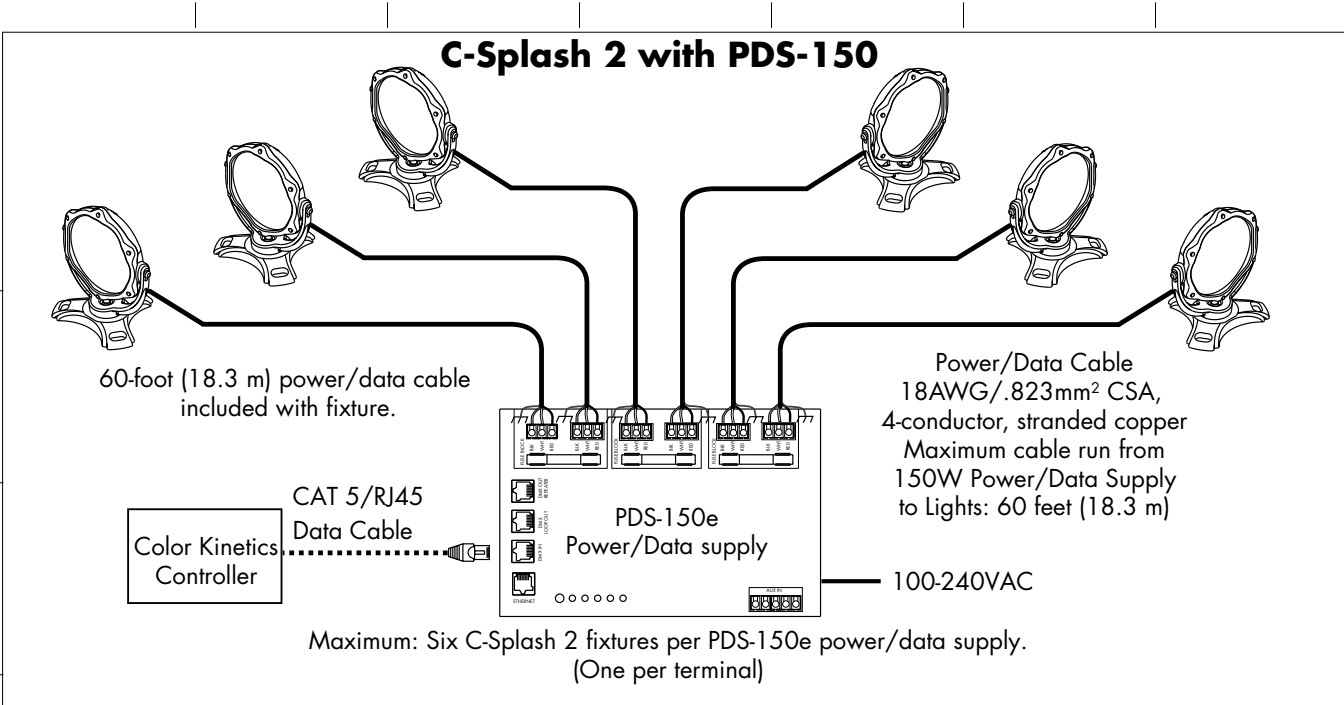
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PHYSICAL DIMENSIONS



C-SPLASH 2

WIRING DIAGRAM



For complete installation instructions and safety precautions, refer to the C-Splash 2 User Guide and wiring diagrams located at www.colorkinetics.com/support .	Additional Items	
	Power/Data Supply	PDS-150e ITEM# 109-000008-01
	Controller	Any Color Kinetics controller or DMX512 compatible controller
	Address Unit	Serialized Addressing Software (SAS) or Zapi (ITEM# 103-000005-00/01)

U.S. AND FOREIGN PATENTS AND PATENTS PENDING

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