

iCOLOR ACCENT

POWERED BY CHROMACORE®



Color Kinetics® iColor® Accent is a direct view indoor/outdoor linear light. Available in 1-, 4-, and 8- foot lengths, each segment can be interconnected to create long columns of color to highlight the outside of buildings or to accent displays in retail applications. Because iColor Accent has a diffused lens specifically designed for direct viewing, it can be used to create stunning effects in commercial and residential applications.

Designed to meet the rugged requirements of outdoor applications, iColor Accent is completely sealed and meets specifications for wet locations. It comes equipped with adjustable mounting brackets, which makes it extremely versatile and easily adaptable for even the most creative mounting environments.

iColor Accent is a harmonious blend of art and functionality. Modern and sophisticated, the housing combines a protective UV resistant and diffused plastic lens and a rugged support of extruded anodized aluminum. The diffused plastic lens provides a 250° viewing angle of uniform color mixing brilliance. iColor Accent is designed with translucent ends to allow for uninterrupted columns of color. Each unit is pre-wired with over-molded locking connectors to supply both power and data to the light and simplify installation.

iColor Accent can be controlled by a Color Kinetics controller or a third-party controller. Each fixture contains one, four, or eight light segments, depending on the size. Each segment is programmed with a serial number and addressed sequentially beginning with light number one at the time of manufacture. For example, a four-foot fixture is addressed with light numbers one through four. With a controller, address all segments to the same light number for simple effects such as fixed color and color wash. 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.

iCOLOR ACCENT SPECIFICATIONS

COLOR RANGE	16.7 million (24bit) additive RGB colors; continuously variable intensity output range
SOURCE	High intensity, surface mount, colored LEDs
VISIBILITY RANGE	253° x 180°
HOUSING	Sealed plastic housing with extruded aluminum support
CONNECTORS	Over-molded, integral male/female connectors
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	7.2W (1-foot), 28.8W (4-foot), 57.6W (8-foot) Max. at full intensity
POWER SUPPLY	PDS-500e (ITEM# 109-000009-00)

ENVIRONMENTAL SPECIFICATIONS

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

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 30,000-50,000 hours. This is LED manufacturers' test data. For more detailed information on source life, please see www.colorkinetics.com/lifetime.

CHROMACORE®
BY COLOR KINETICS

OPTIBIN®
BY COLOR KINETICS



ITEM# 101-000008-00 (1-foot)
101-000008-01 (4-foot)
101-000008-02 (8-foot)

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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BR0091 Rev 05

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

iCOLOR ACCENT

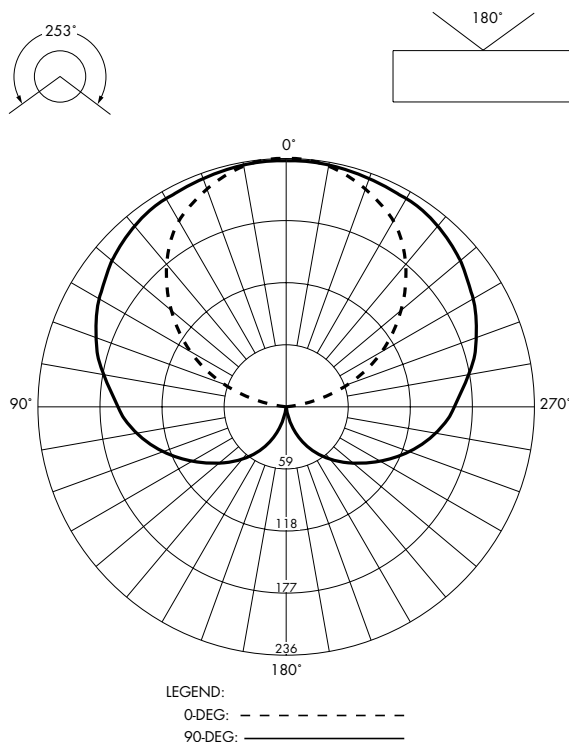
PHOTOMETRIC PERFORMANCE

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

SOURCE SPECIFICATIONS

Lens:	White polycarbonate diffuser
Source:	54 LEDs (18 Red, 18 Green, 18 Blue) per 1-foot section
Beam Angle:	253° x 180° (at 50% of peak illuminance)
Distribution:	Symmetric direct illumination
CCT:	Adjustable 1,000–10,000K
CRI:	Not measurable (CIE 13.3-1995)

CANDELA DISTRIBUTION



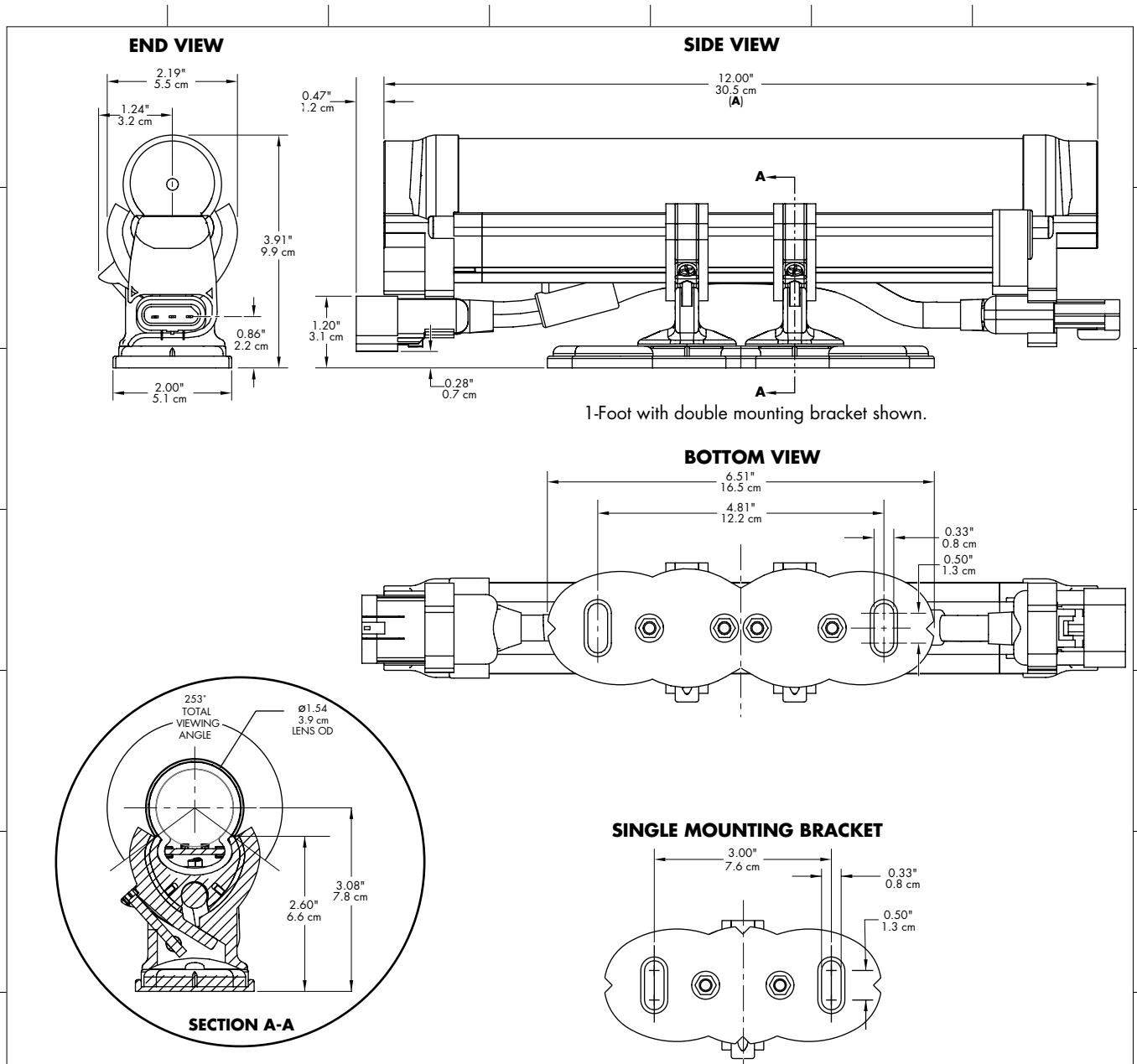
LUMINANCE DATA IN CANDELA/SQ METER

Angle in Vertical	Average 0	Average 45	Average 90
45	431	433	437
55	406	420	428
65	363	403	419
75	283	392	414
85	108	377	401

Note: iColor Accent is a direct view product. As a result, the measurements are luminance-based. Units are candela/meters² (nits).

iCOLOR ACCENT

PHYSICAL DIMENSIONS

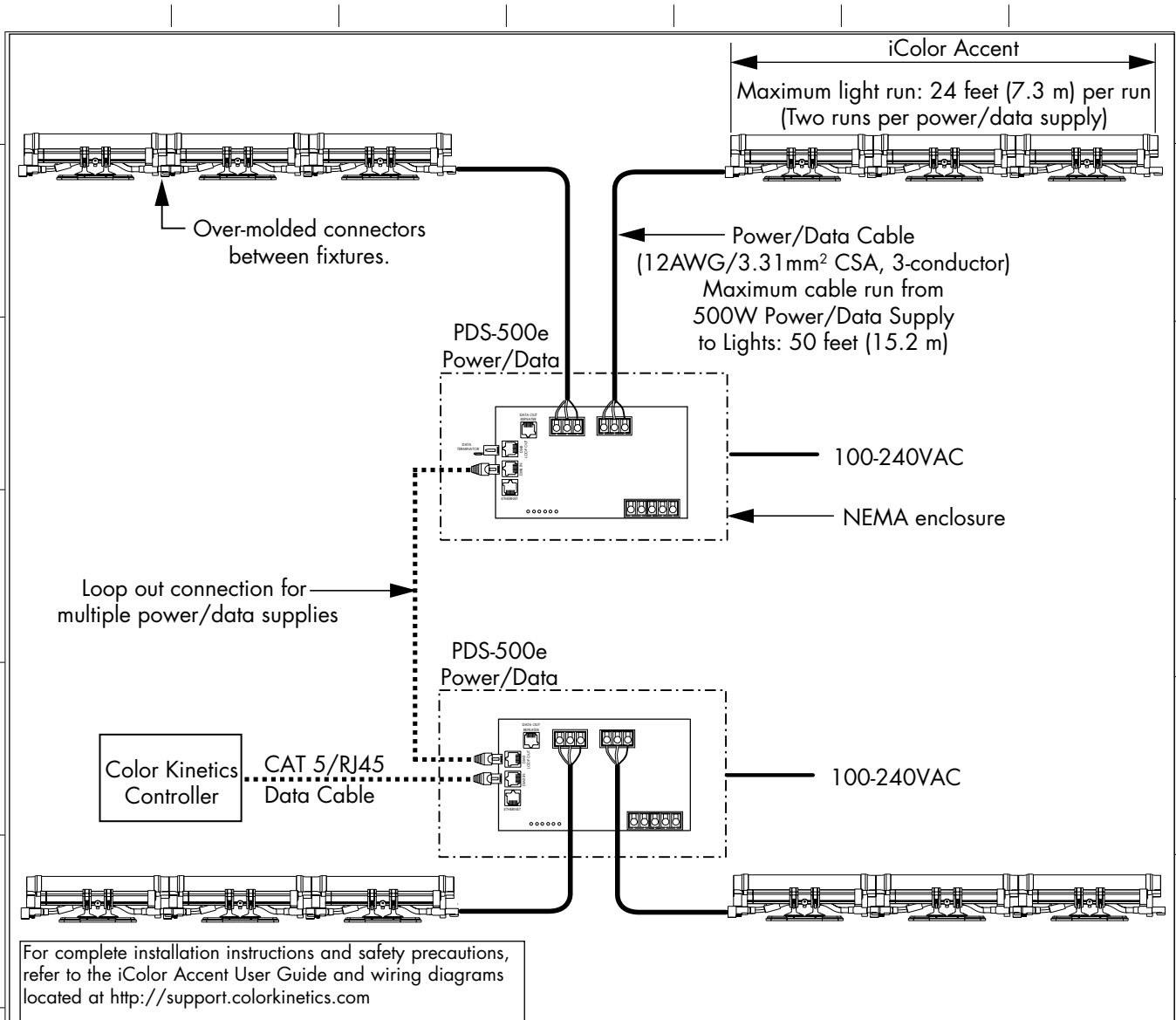


iCOLOR ACCENT DIMENSIONS AND REQUIREMENTS			
	iColor Accent 1'	iColor Accent 4'	iColor Accent 8'
DIM A	12.00" (30.48 cm)	48.00" (121.92 cm)	96.00" (243.84 cm)
MOUNTING BRACKET REQUIREMENT	1 Double Bracket minimum	3 Single Brackets minimum	4 Single Brackets minimum
WEIGHT (with required mounting feet)	1.5 lb. (.68 kg)	6 lb. (2.72 kg)	11.5 lb. (5.22 kg)

iCOLOR ACCENT SPECIFICATIONS			
MODEL	iColor Accent 1'	iColor Accent 4'	iColor Accent 8'
DATA CONNECTOR	Over-molded cable assembly	Over-molded cable assembly	Over-molded cable assembly
POWER CONNECTOR	Over-molded cable assembly	Over-molded cable assembly	Over-molded cable assembly
POWER REQUIREMENT	24VDC (7.2W)	24VDC (28.8W)	24VDC (57.6W)

iCOLOR ACCENT

FUNCTIONAL FLOW DIAGRAM



Additional Items	
Power/Data Supply	PDS-500e (ITEM# 109-00009-00)
Controller	Any Color Kinetics controller or DMX512 compatible controller
Cable	Controller Dependent
Address Unit	Serialized Addressing Software (SAS) or Zapi (ITEM# 103-00005-00/01)

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