

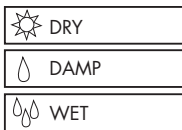
eW FLEX SLX

An EssentialWhite™ Product



CHROMASIC®
BY COLOR KINETICS

OPTIBIN®
BY COLOR KINETICS



eW Flex SLX ITEM#
500-000007-00 (2700K, 4", Translucent Dome)
500-000007-01 (2700K, 4", Clear Flat)
500-000007-02 (2700K, 12", Translucent Dome)
500-000007-03 (2700K, 12", Clear Flat)
500-000007-04 (4200K, 4", Translucent Dome)
500-000007-05 (4200K, 4", Clear Flat)
500-000007-06 (4200K, 12", Translucent Dome)
500-000007-07 (4200K, 12", Clear Flat)

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BRO199 Rev 02

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Color Kinetics® eW™ Flex SLX is a flexible LED string lighting solution that is a bright white-light version of the popular iColor® Flex SLX. Designed for accent or perimeter lighting or as a component of a custom fixture, eW Flex SLX provides lighting professionals with a “building block” for the design and creation of custom applications. eW Flex SLX is an excellent choice for use in building outlines, signage applications, under cabinet lighting, architectural details such as niches, coves, or handrails, amusement themes, store windows or other retail displays, museum lighting, restaurant, bar or nightclub lighting and more. eW Flex SLX may be used as a traditional string light or can be custom mounted with optional mounting clips or tracks.

eW Flex SLX is a strand of 50 individually-addressable LED nodes driven by Color Kinetics Chromasic® technology. Each node can generate fully dimmable light at any designer-specified time. Node lenses are available in two models, clear flat or translucent dome. Nodes are mounted in small plastic housings and are arrayed in 4- or 12-inch (0.1 or 0.3 m) increments along a three-wire 16 AWG cable. An integral 50-foot (15.2 m) leader runs from the power/data supply to the first node. Standard color for the eW Flex SLX node housing and cabling is white.

eW Flex SLX receives power and data from Color Kinetics 24V Chromasic power/data supplies – available with Ethernet control, DMX control, or pre-programmed effects. Additionally, simple on/off functionality with dimming is available via the PS-96 24V power supply. Single or multi-strand power/data supplies are available to facilitate linear or 3D installations.

eW FLEX SLX SPECIFICATIONS

COLOR TEMPERATURES	2700K or 4200K
SOURCE	50 Nodes; each with 5 White LEDs
AVAILABLE IN	Clear flat lens or Translucent domed lens
HOUSING	Polycarbonate, approx. 1.10" x 1.22" x .56"H (2.97 cm x 3.12 cm x 1.4 cm)
LISTINGS	UL/cUL, CE

COMMUNICATION SPECIFICATIONS

DATA INTERFACE	Color Kinetics data interface system
CONTROL	Ethernet, DMX512 or stand-alone

ELECTRICAL SPECIFICATIONS (LIGHTS)

POWER REQUIREMENT	24VDC
POWER CONSUMPTION	50W Max. at full intensity, per 50 node strand
POWER SUPPLY	PDS-60ca 24V (Item#: 109-000016-00/01/02) sPDS-60ca 24V (Item#: 109-000021-02) sPDS-480ca 24V (Item#: 109-000026-00) PS-96 24V (Item#: 109-000025-00)

ELECTRICAL SPECIFICATIONS (POWER/DATA SUPPLY)

POWER INPUT	100VAC to 240VAC auto ranging (50Hz–60Hz) Power factor correction (PFC)
POWER OUTPUT	24VDC
HEAT DISSIPATION	25 percent of total power output
HOUSING	NEMA 4 indoor/outdoor rated enclosure
CONNECTORS	Data: RJ45 input/output connectors; Power: 4-pin connector

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	-40°F to 122°F (-40°C to 50°C) operating temperature
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 70% of original light output. When the fixture is running on warm or cool, at room temperature, the LED lifetime is in the range 50,000 – 70,000 hours. This is based on LED manufacturers' test data. High output is defined as any LED device that is ½ watt or above. For more detailed information on source life, please see www.colorkinetics.com/lifetime.

eW FLEX SLX 2700K CLEAR FLAT

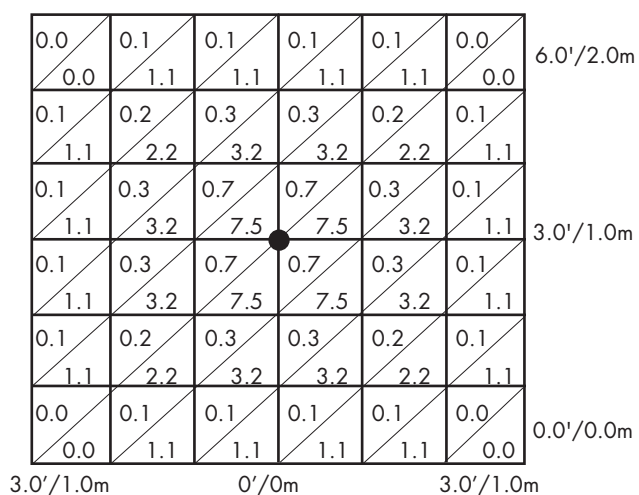
PHOTOMETRIC PERFORMANCE

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

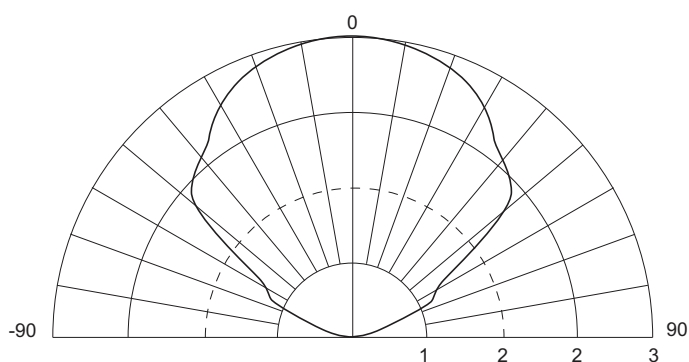
SOURCE SPECIFICATIONS

View Angle: 115°
 Distribution: Symmetric direct illumination
 Lens: Polycarbonate
 CCT: 2700K
 CRI: 70

ILLUMINANCE DISTRIBUTION



CANDLE POWER DISTRIBUTION



Beam center: 3.3 cd
 Dashed line: Indicates 50% of peak

ILLUMINANCE DISTRIBUTION PARAMETERS

Units: Footcandles (top)/Lux (bottom)
 10.8 lux = 1 fc
 Location: 2'/0.7m from surface
 Measured on: All, reflectance model 50%

ILLUMINANCE

COLOR	1' 0.3m	2' 0.7m	3' 1.0m	4' 1.3m
WHITE	2.4 25.8	0.9 9.7	0.4 4.3	0.2 2.2

LIGHT OUTPUT

	TOTAL OUTPUT (lumens)	POWER (Watts)	EFFICACY (lm/W)
WHITE	9	1.1	8.2

Measured in Footcandles (top)/Lux (bottom) on axis
 Measured on: All, reflectance 0

eW FLEX SLX 2700K TRANSLUCENT DOME

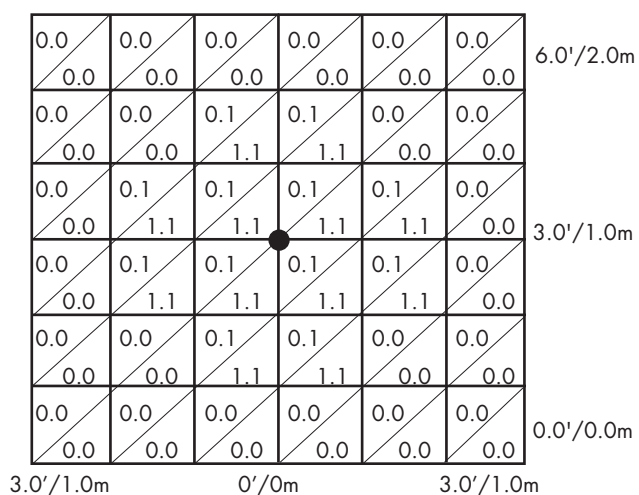
PHOTOMETRIC PERFORMANCE

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

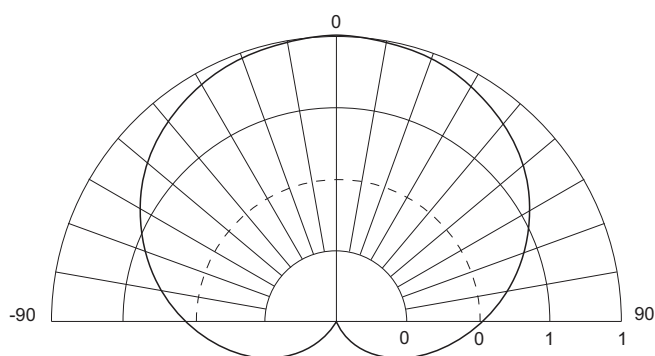
SOURCE SPECIFICATIONS

View Angle: 280° dome
 Distribution: Symmetric direct illumination
 Lens: Polycarbonate
 CCT: 2700K
 CRI: 70

ILLUMINANCE DISTRIBUTION



CANDLE POWER DISTRIBUTION



Beam center: 0.9 cd
 Dashed line: Indicates 50% of peak

ILLUMINANCE DISTRIBUTION PARAMETERS

Units: Footcandles (top)/Lux (bottom)
 10.8 lux = 1 fc
 Location: 2'/0.7m from surface
 Measured on: All, reflectance model 50%

ILLUMINANCE

COLOR	1' 0.3m	2' 0.7m	3' 1.0m	4' 1.3m
WHITE	0.1 1.1	0.1 1.1	0.0 0.0	0.0 0.0

LIGHT OUTPUT

	TOTAL OUTPUT (lumens)	POWER (Watts)	EFFICACY (lm/W)
WHITE	6	1.1	5.5

Measured in Footcandles (top)/Lux (bottom) on axis
 Measured on: All, reflectance 0

eW FLEX SLX 4200K CLEAR FLAT

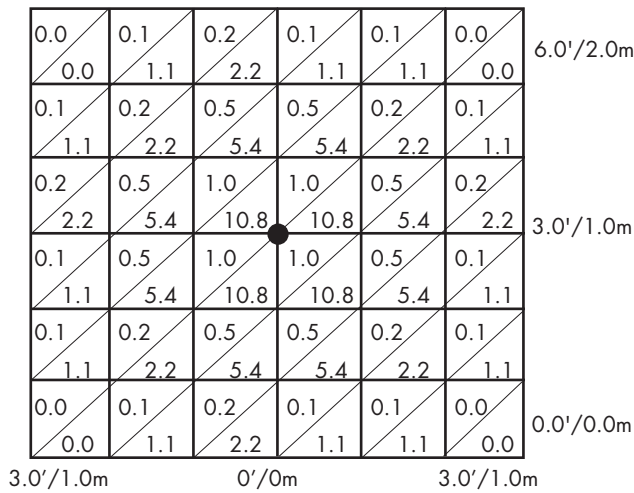
PHOTOMETRIC PERFORMANCE

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

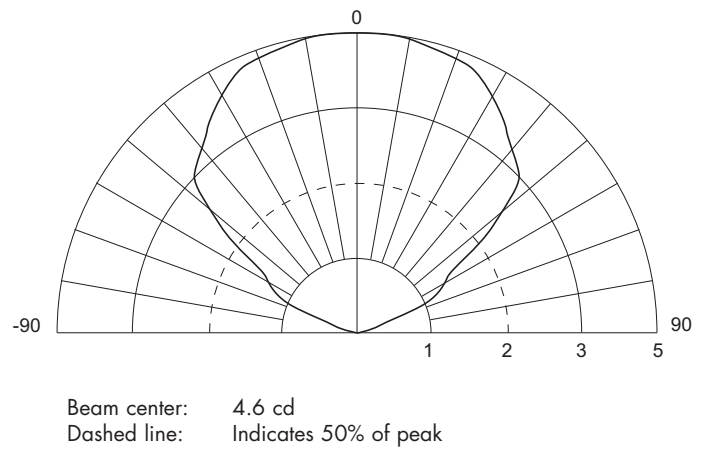
SOURCE SPECIFICATIONS

View Angle: 115°
 Distribution: Symmetric direct illumination
 Lens: Polycarbonate
 CCT: 4200K
 CRI: 70

ILLUMINANCE DISTRIBUTION



CANDLE POWER DISTRIBUTION



ILLUMINANCE DISTRIBUTION PARAMETERS

Units: Footcandles (top)/Lux (bottom)
 10.8 lux = 1 fc
 Location: 2'/0.7m normal to surface
 Measured on: All, reflectance model 50%

ILLUMINANCE

COLOR	1' 0.3m	2' 0.7m	3' 1.0m	4' 1.3m
WHITE	3.4 36.6	1.2 12.9	0.6 6.5	0.3 3.2

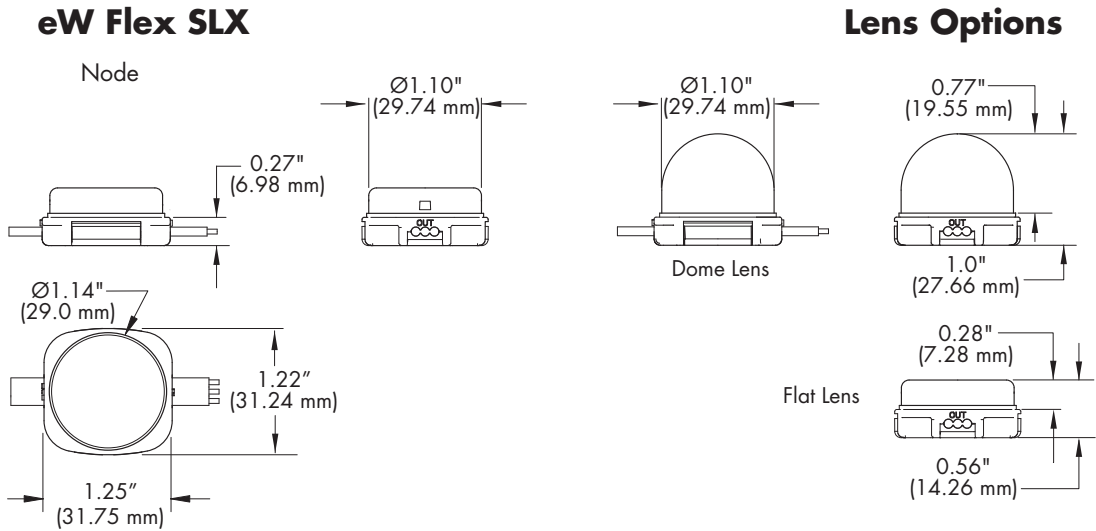
LIGHT OUTPUT

	TOTAL OUTPUT (lumens)	POWER (Watts)	EFFICACY (lm/W)
WHITE	13	1.1	11.8

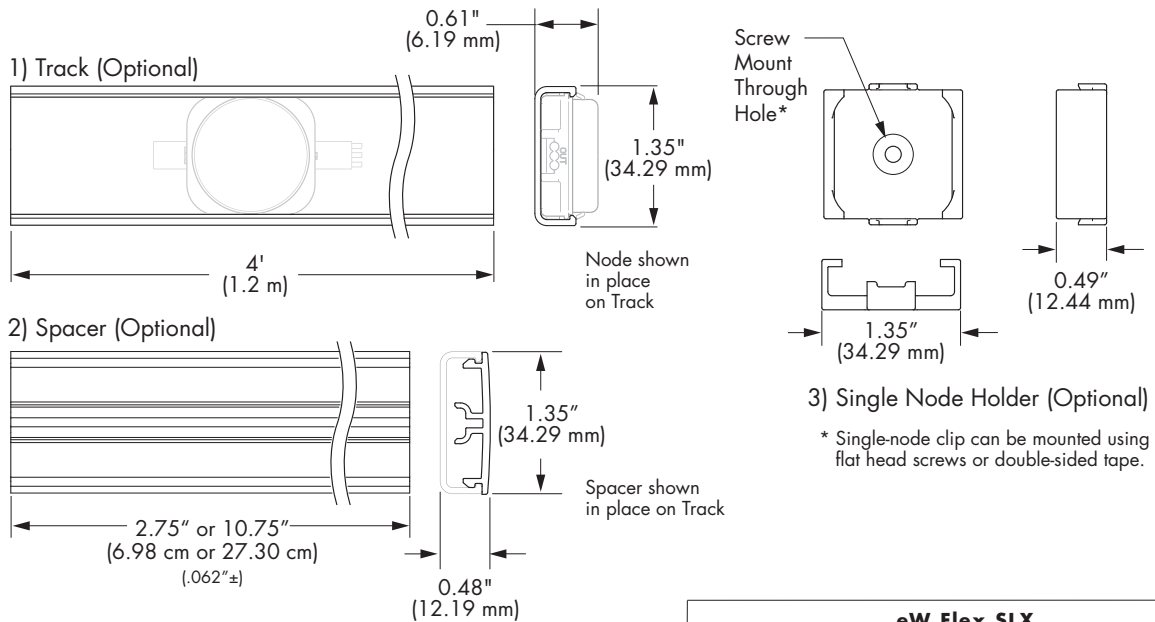
Measured in Footcandles (top)/Lux (bottom) on axis
 Measured on: All, reflectance 0

eW Flex SLX

PHYSICAL DIMENSIONS



Mounting Accessories



eW Flex SLX	
ITEM# 500-000007-00/01/02/03/04/05/06/07	
POWER CONNECTION	3-wire, 16AWG power/data cable
POWER REQUIREMENT	24VDC (50W)
LENGTH	4" (10.16 cm) increment 66 ft (20.1 m) 12" (30.5 cm) increment 99 ft (30.2 m)
WEIGHT RANGE	4.6 lbs (2.1 kg)

OPTIBIN®

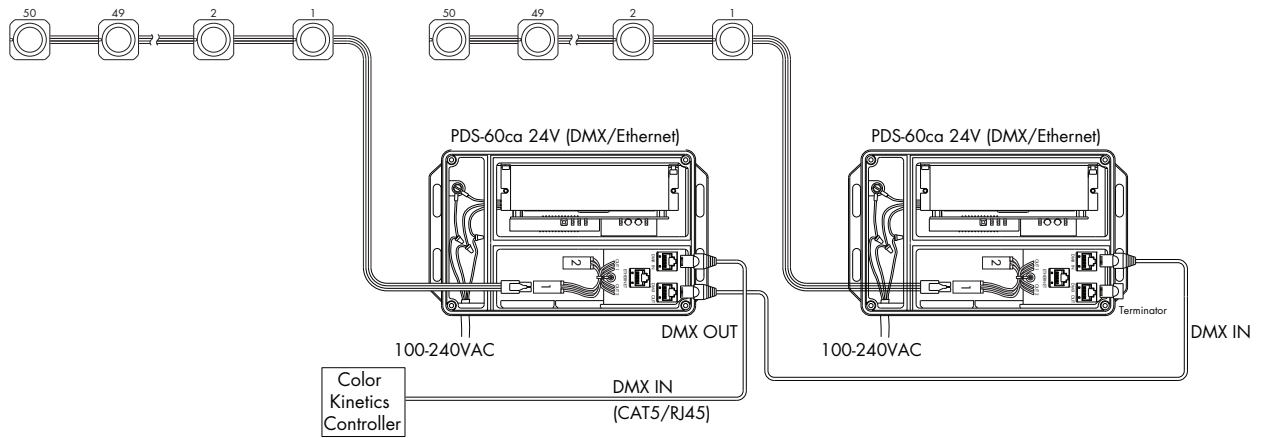
There are inherent variations in the fabrication processes of all semiconductor materials. For LEDs, this variance results in differences in the color and intensity of light output as well as electrical characteristics. Due to these differences, LED manufacturers sort production into "bins," but insuring 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.

eW FLEX SLX WITH PDS-60ca 24V

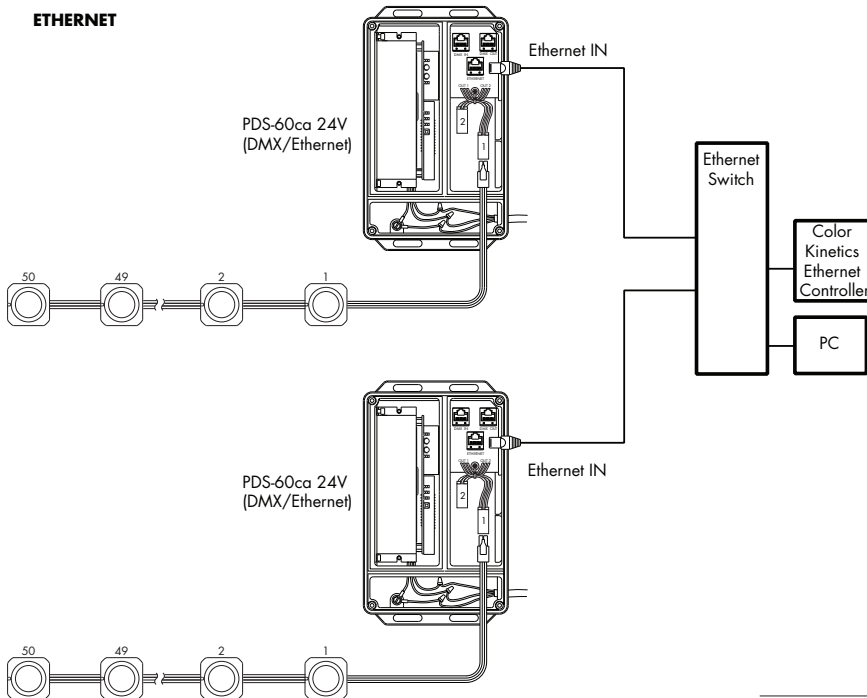
FUNCTIONAL FLOW DIAGRAM

Maximum: 1 eW Flex SLX run (50 nodes) per PDS-60ca 24V on Output 1
 Leader Cable: 50 feet (15 m)

DMX



ETHERNET



For complete installation instructions and safety precautions, refer to the eW Flex SLX User Guide and wiring diagrams located at www.colorkinetics.com/support.

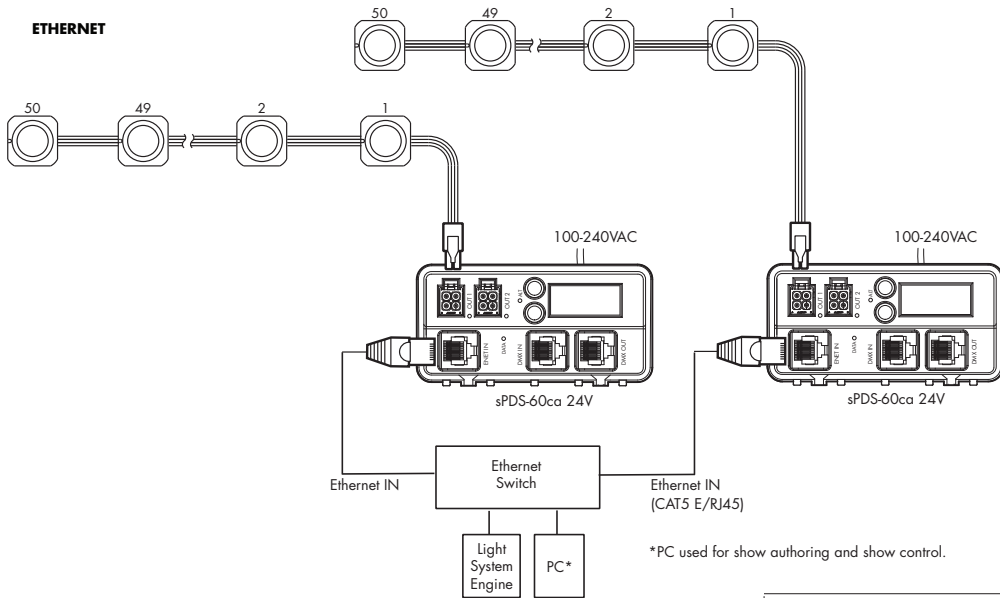
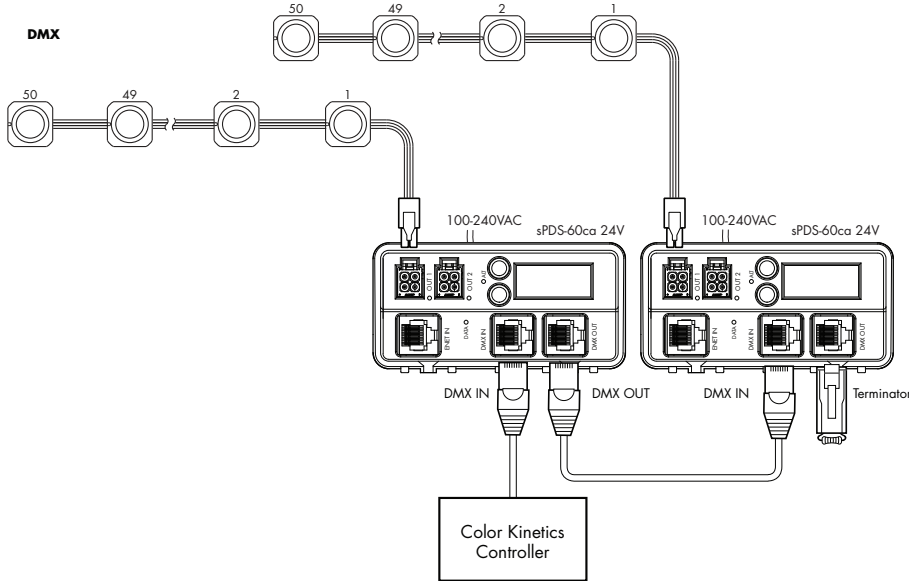
Additional Items

POWER/DATA SUPPLY	PDS-60ca 24V (109-000016-00/01/02)
CONTROLLERS	Any Color Kinetics controller

eW FLEX SLX WITH sPDS-60ca 24V

FUNCTIONAL FLOW DIAGRAM

Maximum: 1 eW Flex SLX run (50 nodes) per sPDS-60ca 24V on Output 1
 Leader Cable: 50 feet (15 m)



For complete installation instructions and safety precautions, refer to the eW Flex SLX User Guide and wiring diagrams located at www.colorkinetics.com/support.

Additional Items

POWER/DATA SUPPLY sPDS-60ca 24V (109-00021-02)

CONTROLLERS Any Color Kinetics controller