

iW PROFILE



iW Profile is a sleek, low profile, linear white light fixture. The linear design and fixture-to-fixture color consistency of this high-quality white light is well suited for museum, display, exhibit, retail, hospitality and architectural applications. iW Profile provides flexible color temperature and brightness control through Chromacore®, the proven technology that underlies Color Kinetics' existing intelligent solid-state lighting systems. When applied to IntelliWhite™ products, Chromacore controls channels of warm white and cool white LEDs to produce output of color temperatures within the range of 3000–6500 Kelvin from within a single fixture. iW Profile allows the adjustment of intensity while providing the option to either maintain constant color temperature or vary the color temperature.

iW Profile is rated for indoor and damp (IP60) location installations. iW Profile is available with either a narrow, medium, or wide beam angle. The end-to-end locking connectors, capable of making 180° turns, make iW Profile extremely versatile and easily adaptable for even the most challenging mounting environments.

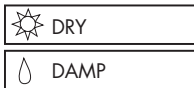
iW Profile is track mounted using the provided eight inch long 0°/60° track. This track allows for a light aim perpendicular to the mounting surface or angled at 60° from center. Optional 5 1/2 foot tracks are available for long, linear runs for 0°/60° mounting angles or 45° mounting angles.

iW PROFILE SPECIFICATIONS

COLOR RANGE	3000K to 6500K
SOURCE	High intensity power LEDs
BEAM ANGLE	20° x 120°, 52° x 120°, or 82° x 82°
HOUSING	Die cast aluminum with enamel finish
LENS	Clear tempered UV resistant lens
CONNECTORS	Unified power and data cable
LISTINGS	UL/cUL, CE

CHROMACORE®
BY COLOR KINETICS

OPTIBIN®
BY COLOR KINETICS



Low Voltage Fixture
78GF

ITEM# 501-00005-00 (Medium)
501-00005-01 (Narrow)
501-00008-02 (Wide)

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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BRO153 Rev 04

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

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	-4°F to 122°F (-20°C to 50°C) based on testing of specific product
PROTECTION RATING	IP60

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 LED manufacturers' test data. High output is defined as any LED device that is 1/2 watt or above. For more detailed information on source life, please see www.colorkinetics.com/lifetime.

iW PROFILE - NARROW

PHOTOMETRIC PERFORMANCE

SOURCE SPECIFICATIONS

Lens:	UV-resistant soft-focus polycarbonate lens
Source:	9 LEDs (6 warm white, 3 cool white)
Beam Angle:	20° X 120° (at 50% of peak illuminance)
Distribution:	Symmetric direct illumination
CCT:	Adjustable 3000–6500K
CRI:	79 All, 75 Warm, 86 Cool

ILLUMINANCE DISTRIBUTION

0.2 2.2	0.3 3.2	0.3 3.2	0.2 2.2	0.2 2.2	0.2 2.2	1.0'/0.3m
0.6 6.5	5.4 58.1	9.8 105.5	5.4 58.1	0.6 6.5	0.3 3.2	2.0'/0.6m
1.0 10.8	10.7 115.2	24.3 261.6	19.9 214.2	6.0 64.6	0.6 6.5	3.0'/1.0m
0.7 7.5	6.0 64.6	19.9 214.2	24.3 261.6	10.7 115.2	1.0 10.8	4.0'/1.2m
0.3 3.2	0.6 6.5	5.4 58.1	9.8 105.5	5.4 58.1	0.6 6.5	5.0'/1.5m
0.2 2.2	0.2 2.2	0.2 2.2	0.3 3.2	0.3 3.2	0.2 2.2	6.0'/2.0m
3.0'/1.0m		0'/0m		3.0'/1.0m		

Units: Footcandles (top)/Lux (bottom)
10.8 lux = 1 fc

Location: Centered 1'/0.3m from, and perpendicular to, surface

Measured on: All, Reflectance 50%

ILLUMINANCE

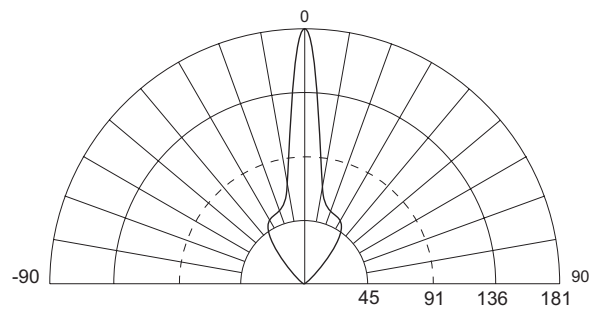
	3' 1m	6' 2m	9' 3m	15' 5m
ALL	26.3 283.1	5.7 61.4	2.4 25.8	0.8 8.6

Measured in Footcandles (top)/Lux (bottom) on axis.
Measured on all, reflectance 0.

CRI

It is common practice in the lighting industry to use color rendering index (CRI) to compare the properties of various light sources. There are known deficiencies and limitations associated with CRI and as a result, it is not always an accurate indicator of good object color appearance. This is especially true for LED-based sources. Until a better method for measuring color rendering in LEDs is accepted, Color Kinetics measures CRI in accordance with the current CIE 13.3-1995 standard using the Ra calculation. The reference illuminants employed are the Planckian locus below 5000K and CIE Daylight reference above 5000K. All measurements for Color Kinetics products are performed by third party laboratories using NIST-traceable instruments.

CANDLE POWER DISTRIBUTION



Measured on: All
Beam peak: 181 cd
Thin dashed line: Indicates 50% of peak

LIGHT OUTPUT

	TOTAL OUTPUT (lumens)	POWER (Watts)	EFFICACY (lm/W)
ALL	164	13.0	12.6
WARM	106	8.2	12.9
COOL	67	4.3	15.6

Note: Efficacy figures are for a complete tested fixture not simply a lamp source.

iW PROFILE - MEDIUM

PHOTOMETRIC PERFORMANCE

SOURCE SPECIFICATIONS

Lens:	UV-resistant soft-focus polycarbonate lens
Source:	9 LEDs (6 warm white, 3 cool white)
Beam Angle:	52° X 120° (at 50% of peak illuminance)
Distribution:	Symmetric direct illumination
CCT:	Adjustable 3000–6500K
CRI:	79 All, 75 Warm, 86 Cool

ILLUMINANCE DISTRIBUTION

0.2	0.2	0.2	0.2	0.2	0.2	3.0'/1.0m
2.2	2.2	2.2	2.2	2.2	2.2	
1.1	4.4	7.2	4.4	1.1	0.4	
11.8	47.4	77.5	47.4	11.8	4.3	
2.1	9.4	18.2	15.5	6.1	1.4	
22.6	101.2	195.9	166.8	65.7	15.1	0'/0m
1.4	6.1	15.5	18.2	9.4	2.1	
15.1	65.7	166.8	195.9	101.2	22.6	
0.4	1.1	4.4	7.2	4.5	1.1	
4.3	11.8	47.4	77.5	48.4	11.8	
0.2	0.2	0.2	0.2	0.2	0.2	3.0'/1.0m
2.2	2.2	2.2	2.2	2.2	2.2	
3.0'/1.0m		0'/0m		3.0'/1.0m		

Units: Footcandles (top)/Lux (bottom)
 Location: Centered 1'/0.3m from, and perpendicular to, surface
 Measured all on, reflectance model: 50%

ILLUMINANCE

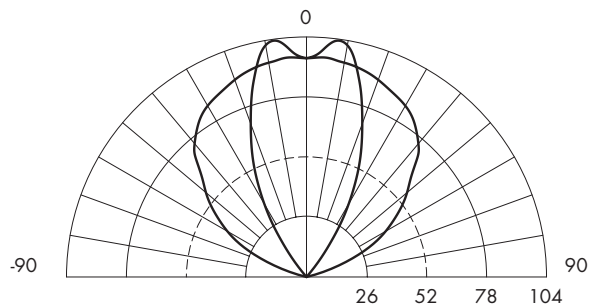
	3' 1m	6' 2m	9' 3m	15' 5m
ALL	9.7 104.4	2.5 26.9	1.1 11.8	0.4 4.3

Measured in Footcandles (top)/Lux (bottom) on axis.
 Measured on all, reflectance 0.

CRI

It is common practice in the lighting industry to use color rendering index (CRI) to compare the properties of various light sources. There are known deficiencies and limitations associated with CRI and as a result, it is not always an accurate indicator of good object color appearance. This is especially true for LED-based sources. Until a better method for measuring color rendering in LEDs is accepted, Color Kinetics measures CRI in accordance with the current CIE 13.3-1995 standard using the Ra calculation. The reference illuminants employed are the Planckian locus below 5000K and CIE Daylight reference above 5000K. All measurements for Color Kinetics products are performed by third party laboratories using NIST-traceable instruments.

CANDLE POWER DISTRIBUTION



Measured on: All
 Beam peak: 104 cd
 Thin dashed line: Indicates 50% of peak

LIGHT OUTPUT

	TOTAL OUTPUT (lumens)	POWER (Watts)	EFFICACY (lm/W)
ALL	141	14.2	9.9
WARM	91	9.2	9.9
COOL	56	5.1	11.0

Note: Efficacy figures are for a complete tested fixture not simply a lamp source.

iW PROFILE - WIDE

PHOTOMETRIC PERFORMANCE

SOURCE SPECIFICATIONS

Lens: UV-resistant soft-focus polycarbonate lens
 Source: 9 LEDs (6 warm white, 3 cool white)
 Beam Angle: 82° X 82°
 Distribution: Symmetric direct illumination
 CCT: Adjustable 3000–6500K
 CRI: 79 All, 75 Warm, 86 Cool

ILLUMINANCE DISTRIBUTION

0.2 2.2	0.3 3.2	0.3 3.2	0.3 3.2	0.2 2.2	0.2 2.2	1.0'/0.3m
0.4 4.3	4.3 46.3	8.0 86.1	4.4 47.4	0.5 5.4	0.2 2.2	2.0'/0.6m
0.7 7.5	8.4 90.4	19.3 207.7	15.8 170.1	4.7 50.6	0.5 5.4	3.0'/1.0m
0.5 5.4	4.7 50.6	15.8 170.1	19.3 207.7	8.4 90.4	0.7 7.5	4.0'/1.2m
0.2 2.2	0.6 6.5	4.4 47.4	8.0 86.1	4.3 46.3	0.4 4.3	5.0'/1.5m
0.2 2.2	0.2 2.2	0.3 3.2	0.3 3.2	0.3 3.2	0.3 3.2	6.0'/2.0m
3.0'/1.0m	0'/0m				3.0'/1.0m	

Units: Footcandles (top)/Lux (bottom)
 10.8 lux = 1 fc
 Location: Centered 1'/0.3m from, and perpendicular to, surface
 Measured on: All, reflectance model 50/%

ILLUMINANCE

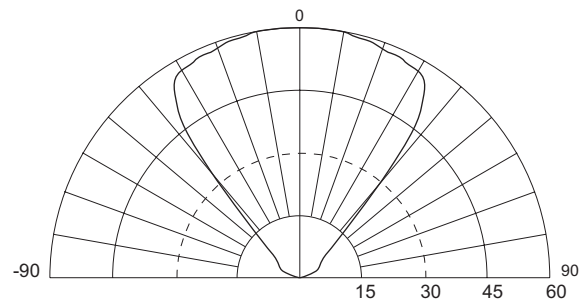
	3' 1m	6' 2m	9' 3m	15' 5m
ALL	8.7 93.6	1.9 20.5	1.1 11.8	0.3 3.2

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

CRI

It is common practice in the lighting industry to use color rendering index (CRI) to compare the properties of various light sources. There are known deficiencies and limitations associated with CRI and as a result, it is not always an accurate indicator of good object color appearance. This is especially true for LED-based sources. Until a better method for measuring color rendering in LEDs is accepted, Color Kinetics measures CRI in accordance with the current CIE 13.3-1995 standard using the Ra calculation. The reference illuminants employed are the Planckian locus below 5000K and CIE Daylight reference above 5000K. All measurements for Color Kinetics products are performed by third party laboratories using NIST-traceable instruments.

CANDLE POWER DISTRIBUTION



Measured on: All
 Beam center: 60 cd
 Thin dashed line: Indicates 50% of peak

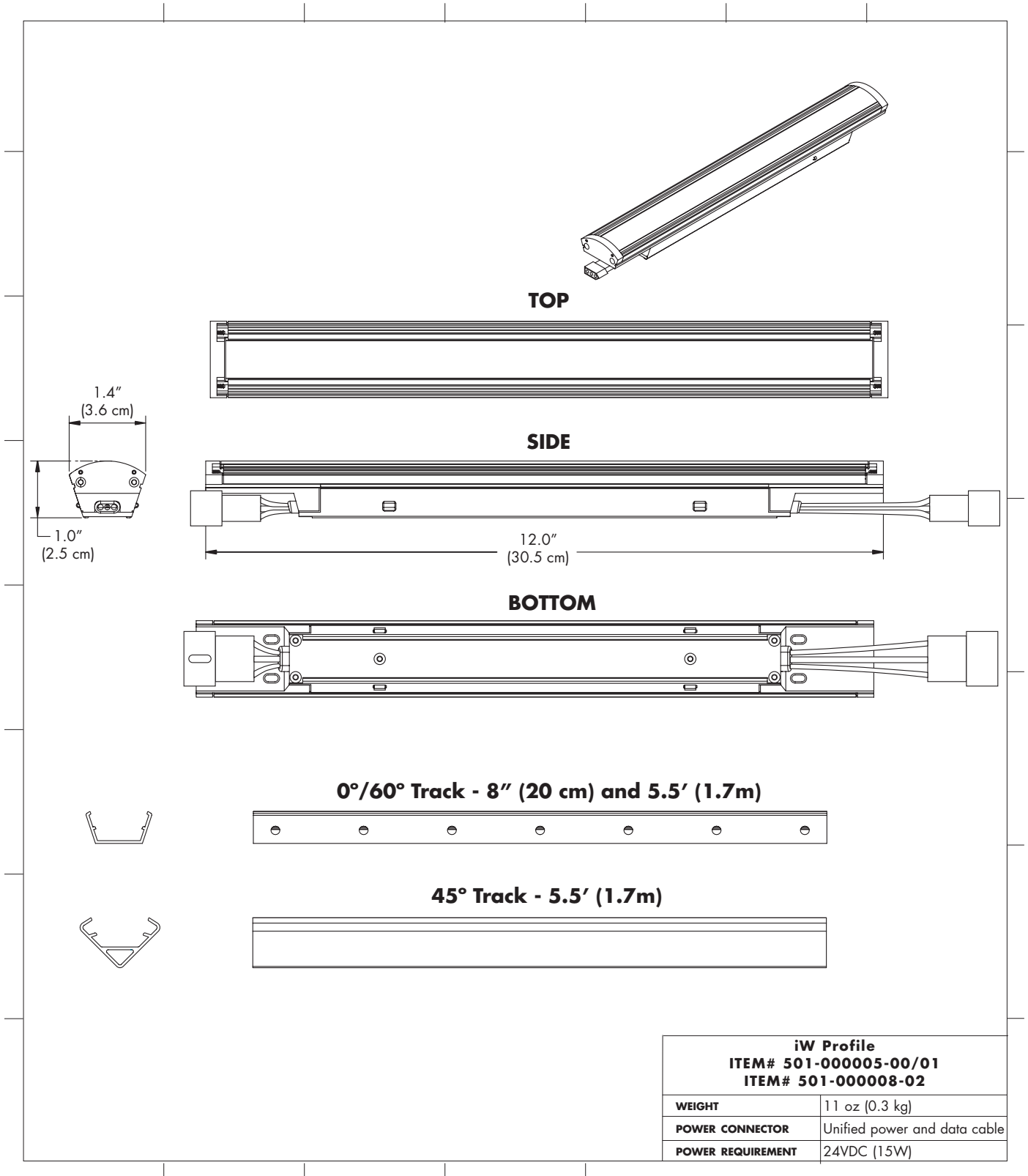
LIGHT OUTPUT

	TOTAL OUTPUT (lumens)	POWER (Watts)	EFFICACY (Lm/w)
ALL	132	13.0	10.2
WARM	86	8.2	10.5
COOL	55	4.3	12.8

Note: Efficacy figures are for a complete tested fixture not simply a lamp source.

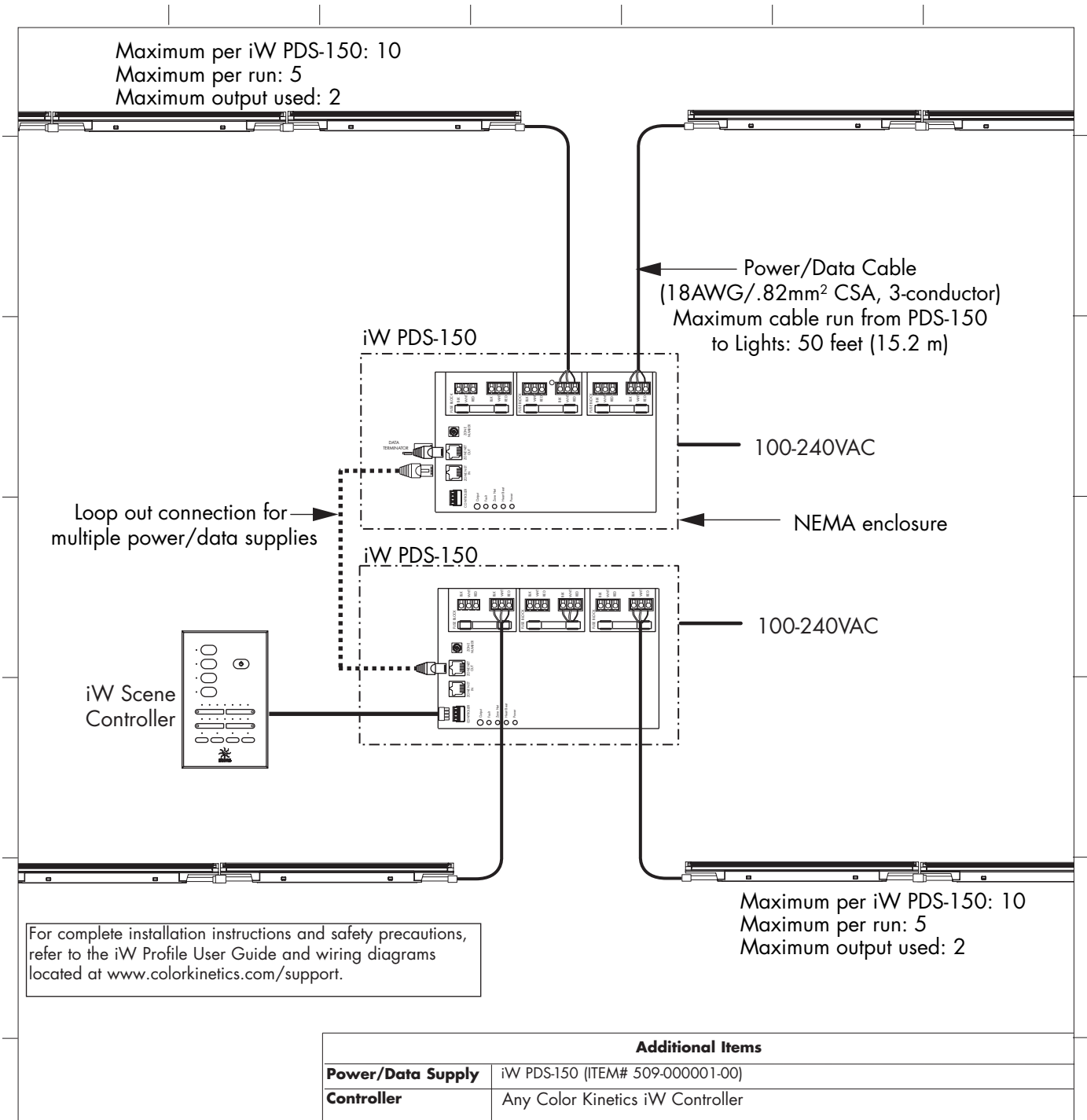
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PHYSICAL DIMENSIONS



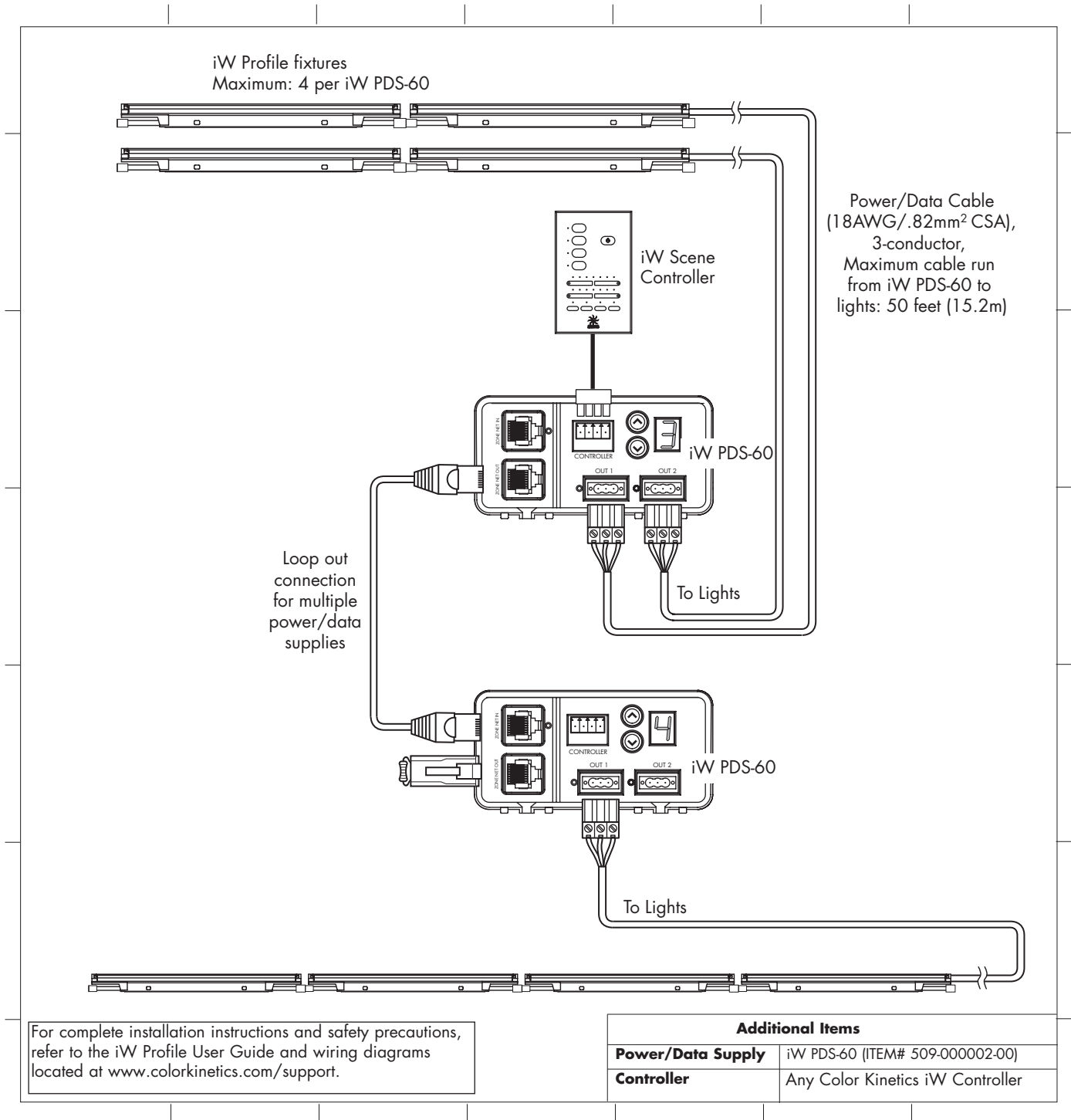
iW PROFILE

FUNCTIONAL FLOW DIAGRAM (iW PDS-150)



iW PROFILE

FUNCTIONAL FLOW DIAGRAM (iW PDS-60)



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.