



iCOLOR TILE FX 2:2

POWERED BY CHROMACORE®



Lens sold separately.

Color Kinetics® iColor® Tile FX 2:2 is a Chromacore®-powered 2-foot by 2-foot colored-light panel that can be individually or collectively controlled to create stunning light art or accent lighting in a variety of surface mounted or recessed applications. iColor Tiles FX is a base fixture which is available for indoor or outdoor applications and is ideal for wall and ceiling installations. Use iColor Tile FX with iColor Tile Lens for an easy, finished appearance, or install the base behind a custom panel. iColor Tile Lens is an impact resistant, translucent white diffuser that provides seamless, uniform optical effects across the entire surface, and is available in an indoor or outdoor model. iColor Tile lens is sold separately.

iColor Tile FX 2:2 has 144 individually addressable nodes, each driven by Color Kinetics Chromasic® technology. Chromasic is a microchip that integrates power, communication, and control to enable an infinite variety of effects. The ability to address each Chromasic node individually provides a level of fine-grained control and intricacy never before available for show authoring. Each iColor Tile FX 2:2 has a 20-foot leader from the power/data supply to the panel.

iColor Tile FX 2:2 receives power and data from Color Kinetics PDS-60ca 7.5V indoor/outdoor rated power/data supply which is available with Ethernet or DMX512 control, or preprogrammed effects. Each power/data supply supports one panel and the compact size allows for discrete installations.

ICOLOR TILE FX 2:2 SPECIFICATIONS

COLOR RANGE	64 billion (24-bit) additive RGB colors; continuously variable intensity output range
SOURCE	432 LEDs packaged in 144 tri-color Red, Green, and Blue nodes
HOUSING	Sheet metal approx. 2' x 2' x 4"D (61 cm x 61 cm x 10 cm) with lens
LENS	Impact resistant copolyester with carbon steel (indoor, 101-000044-00) or stainless (outdoor, 101-000044-01) mounting hardware.
LISTINGS	C-UL US listed and CE certified

COMMUNICATION SPECIFICATIONS

DATA INTERFACE	Color Kinetics data interface system
CONTROL	Ethernet, DMX512 or Preprogrammed

ELECTRICAL SPECIFICATIONS (LIGHTS)

POWER REQUIREMENT	7.5VDC
POWER CONSUMPTION	62W Max. at full intensity (full RGB), per 144 node panel
POWER SUPPLY	Color Kinetics PDS-60ca 7.5V (Preprogrammed 109-000015-00, DMX 109-000015-01, and Ethernet 109-000015-02)

ELECTRICAL SPECIFICATIONS (POWER/DATA SUPPLY)

POWER INPUT	100VAC to 240VAC auto ranging (50Hz-60Hz) Power factor correction (PFC)
POWER OUTPUT	7.5VDC
HEAT DISSIPATION	25 percent of total power output
HOUSING	NEMA 4 indoor/outdoor rated enclosure
CONNECTORS	Data: RJ45 input/output connectors Power: 3-pin screw terminal

ENVIRONMENTAL SPECIFICATIONS

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

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

CHROMASIC®
BY COLOR KINETICS

OPTIBIN®
BY COLOR KINETICS



iColor Tile FX 2:2 ITEM# 101-000019-00 (Indoor)
ITEM# 101-000019-01 (Outdoor)
iColor Tile Lens ITEM# 101-000044-00 (Indoor)
ITEM# 101-000044-01 (Outdoor)

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

BRO125 Rev 05

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

iCOLOR TILE FX 2:2

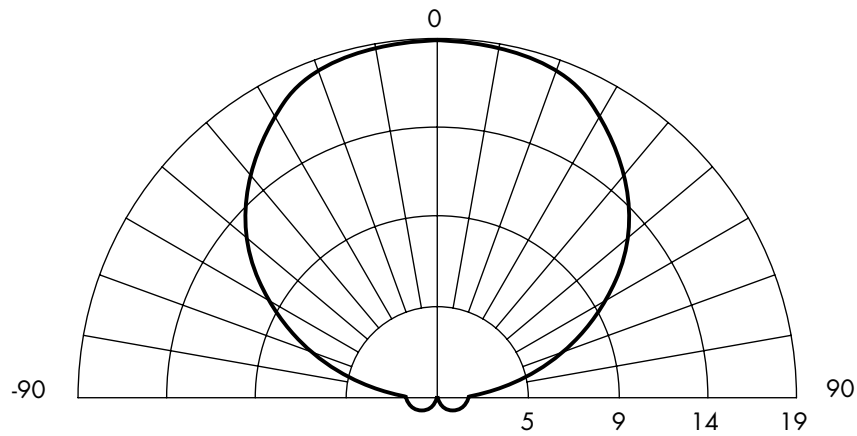
PHOTOMETRIC PERFORMANCE

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

SOURCE SPECIFICATIONS

Lens:	White copolyester diffuser
Source:	144 Tri-color LED nodes
Beam Angle:	120° (50% maximum)
Distribution:	Symmetric direct illumination
CCT:	Adjustable 1,000–10,000K
CRI:	Not measurable (CIE 13.3-1995)

CANDELA DISTRIBUTION



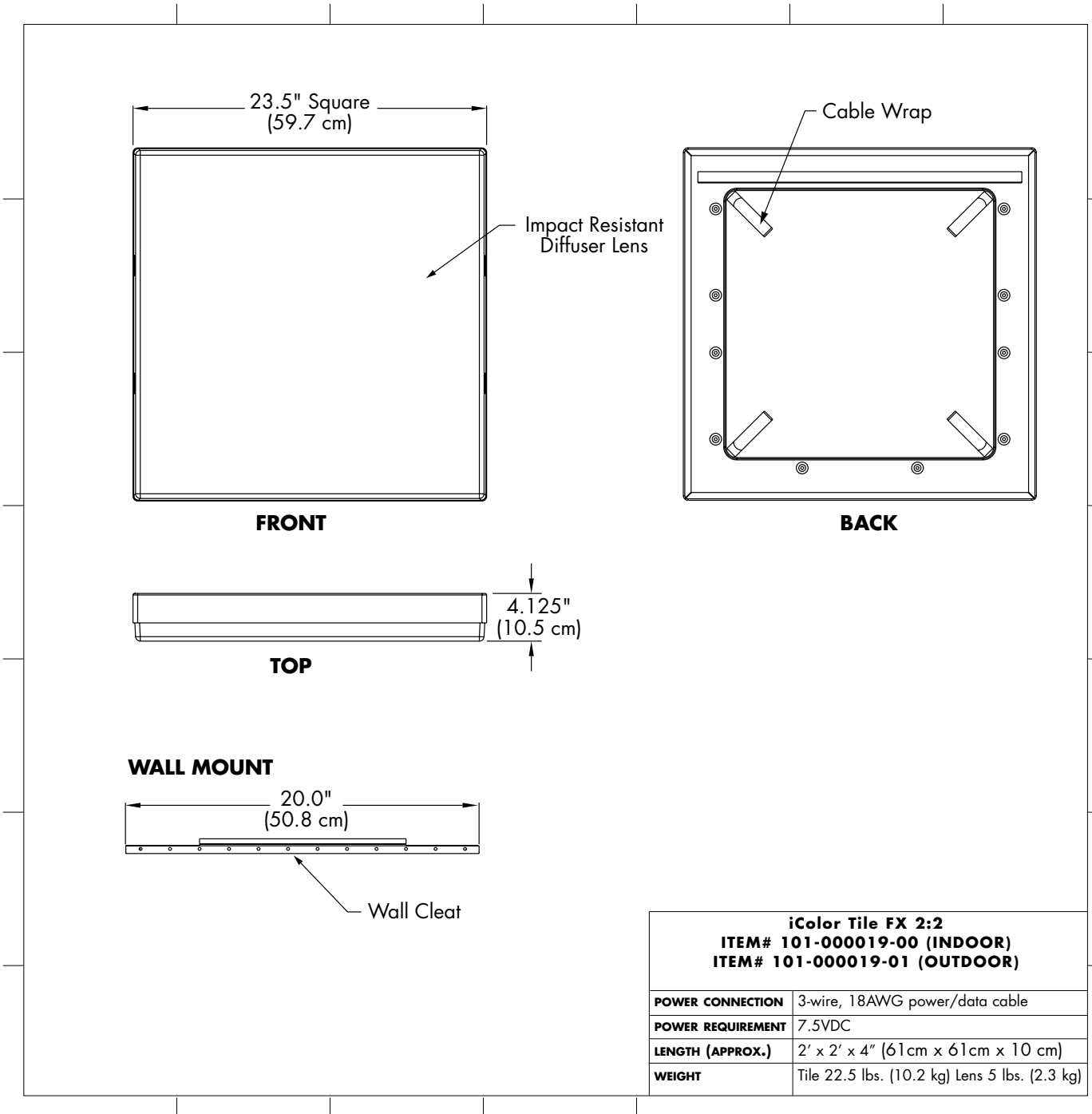
LUMINANCE DATA IN CANDELA/SQ METER

Angle in Vertical	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	51	50	51
55	49	48	49
65	47	47	47
75	40	40	40
85	33	33	33

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

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PHYSICAL DIMENSIONS

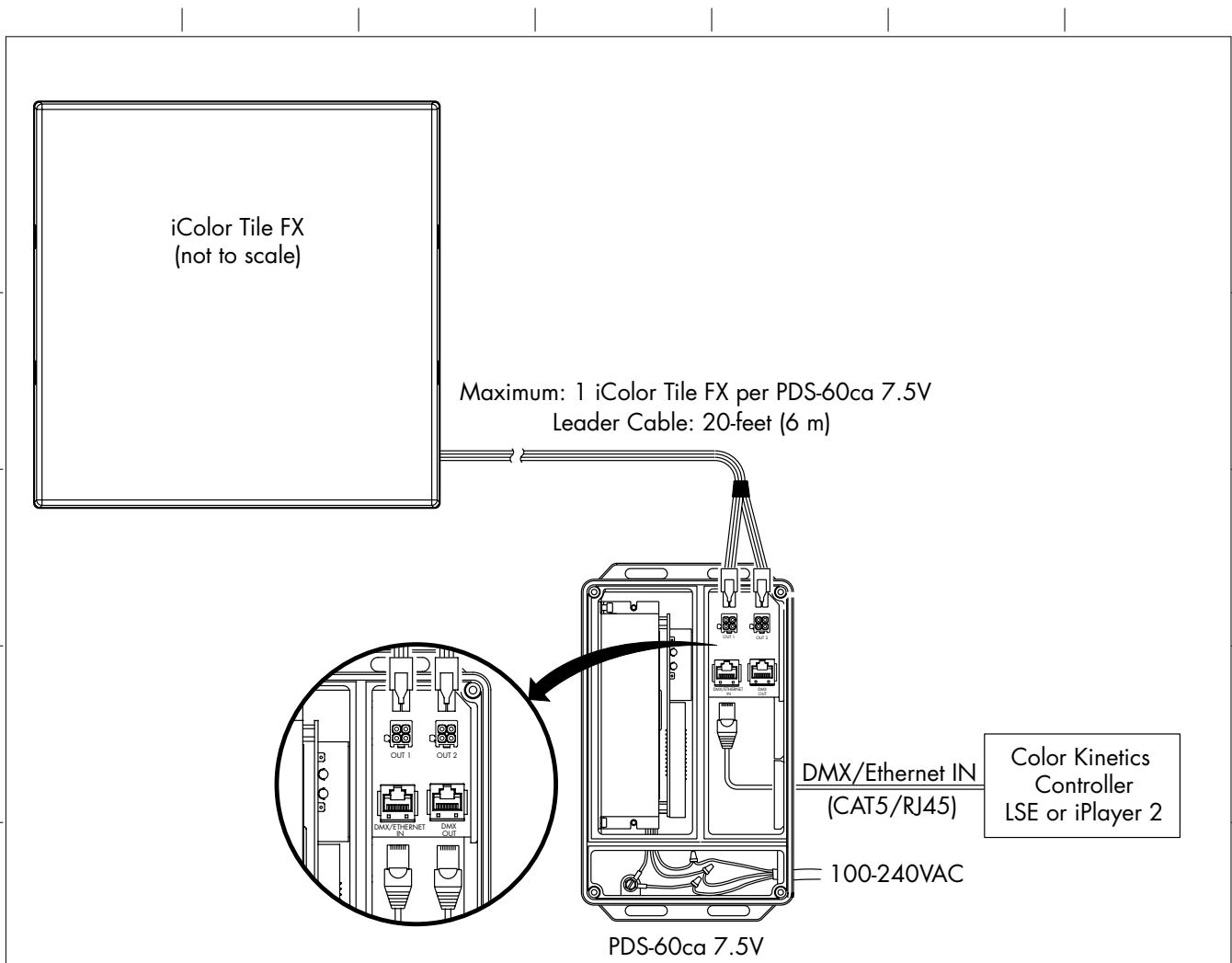


OPTIBIN®

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.

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FUNCTIONAL FLOW DIAGRAMS



For complete installation instructions and safety precautions, refer to the iColor Tile FX 2:2 User Guide and wiring diagrams located at www.colorkinetics.com/support.

Additional Items	
POWER/DATA SUPPLY	PDS-60ca 7.5V (109-000015-00/01/02)
CONTROLLER	Light System Manager (103-000015-00) or iPlayer 2 (103-000007-00/01)
LENS	Indoor (101-000044-00) Outdoor (101-000044-01)