



iCOLOR TILE FX 2:2

POWERED BY CHROMACORE



Lens sold separately.

Color Kinetics® iColor® Tile FX 2:2 is a Chromacore®-powered product in the iColor Series, and is designed for decorative wall and ceiling lighting effects for indoor or outdoor applications. iColor Tile FX 2:2 provides lighting professionals with a 2-foot by 2-foot colored-light panel which can be programmed with custom light shows and effects, and used in surface or recessed applications. iColor Tiles FX is a base fixture which is available for indoor or outdoor applications and is used with an iColor Tile Lens, or installed 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)

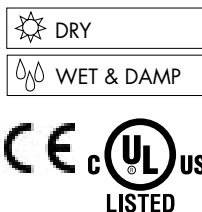
SOURCE LIFE

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.

U.S. AND FOREIGN PATENTS AND PATENTS PENDING

Color Kinetics Incorporated grants the purchaser of its lighting products and controllers a personal and non-transferable license to use Chromacore®, its patented technology for networkable control of LED-based color-changing lighting fixtures for illumination, display and design. This license is granted only by Color Kinetics Incorporated, and may not be transferred except by the grantor. The design, duplication, manufacture, or sale of other products using networkable control of LED-based color-changing lighting may be prohibited and is not licensed hereunder. Other patents pending.



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)

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

BR0125 Rev 02

Specifications subject to change without notice.

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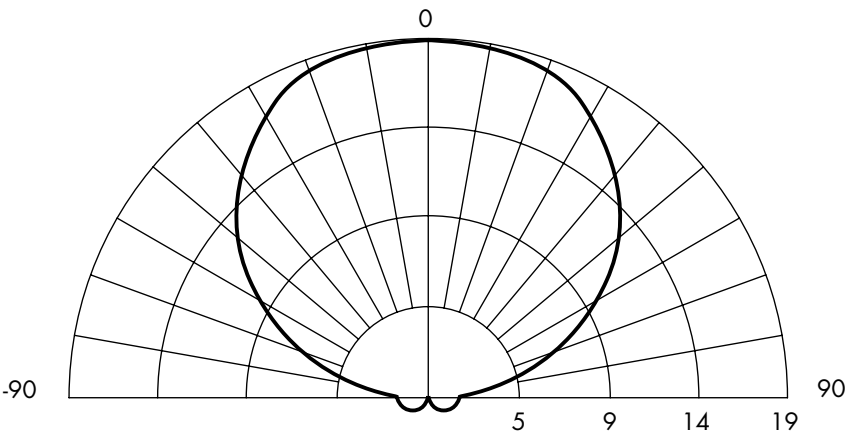
PHOTOMETRIC PERFORMANCE

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

SOURCE SPECIFICATIONS

Optics:	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

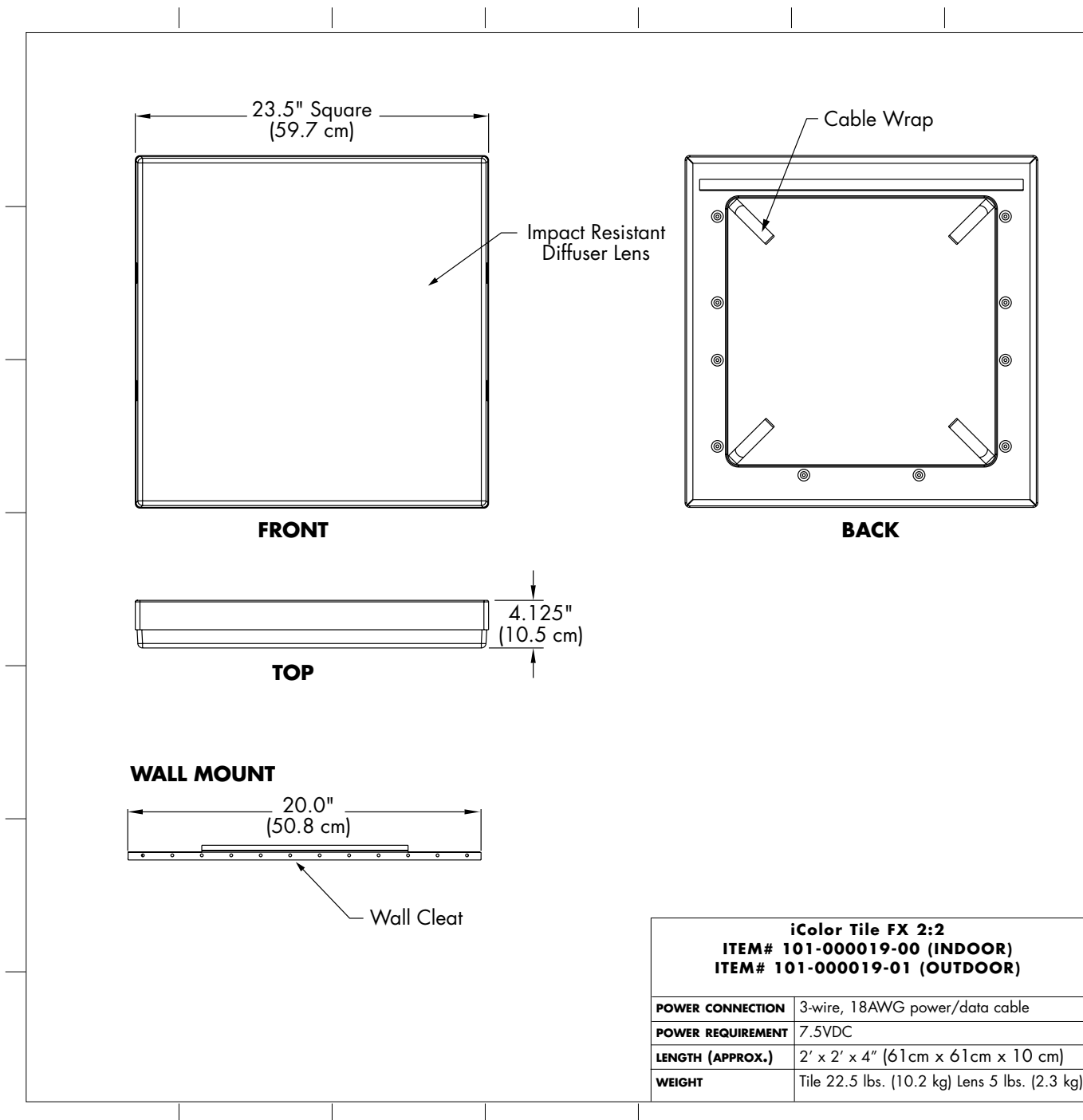


LUMINANCE DATA IN CANDELA/SQ METER

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

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PHYSICAL DIMENSIONS



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.

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FUNCTIONAL FLOW DIAGRAMS

