

# Luminous Textile gen2

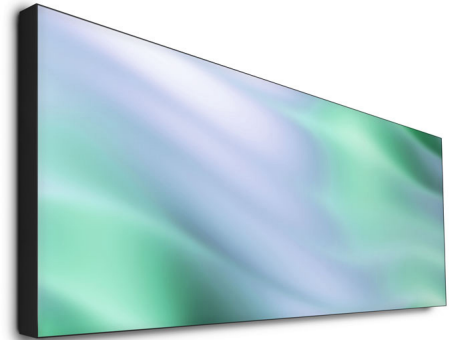
Date: \_\_\_\_\_  
Type: \_\_\_\_\_  
Firm Name: \_\_\_\_\_  
Project: \_\_\_\_\_

RGB

## Transforming spaces with ambient color-changing panels

Introducing Luminous Textile gen2 – the perfect choice for transforming spaces with beautiful color-changing light. Imagine creating an interior space with the power to attract and engage, surprise and delight, uplift and inspire. A space that blends light, texture and dynamic content in one unique experience.

Similar to OneSpace gen2, Luminous Textile gen2 delivers everything you need in easy-to-ship sized boxes driving quick and easy assembly and installation thanks to its smart, modular design. With hundreds of sizes and powerful Ethernet control, Luminous Textile gen2 transforms spaces in a totally unique way.



- Inspire your creativity - Luminous Textile gen2 is a revolutionary way to enhance interiors with light, and dynamic content. A combination of multi-colored LEDs within textile panels that gives you the ultimate creative freedom. You can choose the size and number of panels as well as how you arrange them with a unified control system.
- A unique solution - Luminous Textile gen2 panels are simple to assemble and install, come in a wide range of sizes, and can be arranged in infinite ways so you can orchestrate your own composition.
- Beautifully moving light - With its 60 mm (2.3 in) pixel pitch and soft fabric diffuser Luminous Textile gen2 is not intended for information or sales messages that overload the senses. Rather, it provides soft diffused colorful light, creating a very special dreamlike quality and unique ambience.
- Framing dynamic artwork - The bold shape of Luminous Textile gen2 features an ultra-thin black frame, perfectly outlining the color-changing content that fills the frame right up to the edge. A clean modern white fabric cover is standard. Additional decorative printed fabric or black mesh available as custom configurations.
- Sustainable - Both OneSpace gen2 and Luminous Textile gen2 were designed with an emphasis on modular design with over 70% of the components common in both luminaires. This enables easy repair, service, and parts replacement extending the luminaire's lifespan and reducing waste.
- Easy to ship, assemble, and install - Its smart, modular design delivers everything you need in easy-to-ship sized boxes driving quick and easy assembly and installation. This elegant, low-profile luminaire provides beautiful ambiance to any space, transforming your space into a seamless, cohesive plane of light.
- Simply powerful control - Supporting thousands of nodes across one panel or many iPlayer 4 the Ethernet-based (KiNET) controller for Luminous Textile gen2, displays your content with an easy-to-use but powerful interface. Not just a simple playback device, the iPlayer 4 from Color Kinetics allows control of each panel separately or in unison, or both depending on your content. Schedule and playback light shows, set event triggers, create show schedules, and easily select point-and-click static color scenes using the newly designed interface. Create and manage calendar events to automatically trigger show playback at a specific date/time or based on an astronomical event, such as sunrise or sunset, viewable by month or day.
- Play with dynamic content - Create stopping power for your shop, turn your restaurant into an intimate space, or change the perspective of time spent in a waiting room with the perfect dynamic video content displayed on your Luminous Textile gen2 panel.

For detailed product information, please refer to:  
[www.colorkinetics.com/global/products/rgb/luminous-textile-gen2](http://www.colorkinetics.com/global/products/rgb/luminous-textile-gen2)

# Specifications

Due to continuous improvements and innovations, specifications may change without notice.

## Output

Viewing Angle	162°
Lumens (all channels full on) <sup>†</sup>	700 lm/m <sup>2</sup> (65 lm/ft <sup>2</sup> )
Lumens @ 4000 K	800 lm/m <sup>2</sup> (75 lm/ft <sup>2</sup> )
Lumens per channel	Red 320 lm/m <sup>2</sup> (30 lm/ft <sup>2</sup> ) Green 650 lm/m <sup>2</sup> (60 lm/ft <sup>2</sup> ) Blue 195 lm/m <sup>2</sup> (18 lm/ft <sup>2</sup> )
Efficacy (lm/W) all channels full on	13.0
On-Axis Candela (all channels full on)	248 cd/m <sup>2</sup> (2.3 lm/ft <sup>2</sup> )
Node Quantity	100 per 600 x 600 mm (23.6 x 23.6 in) LED Module 25 per 300 x 300 mm (11.8 x 11.8 in) LED Module
Pixel Pitch	60 mm (2.36 inch)
LED Channels	Red/Green/Blue

## Electrical

Input Voltage	24 VDC via 100W, XI100C410V024FNS1, UL or 100W, CE SELV Power Supply
Power Consumption	54 W/m <sup>2</sup> (5.0 W/ft <sup>2</sup> ) (Maximum at full output, steady state)
For Surge Protection Requirements for LED Lighting Systems, please refer to <a href="http://www.colorkinetics.com/KB/surge-protection">www.colorkinetics.com/KB/surge-protection</a> .	

## Control

Color Kinetics iPlayer 4 Ethernet-based (KiNET) controller or third-party KiNET controllers.

Commissioning	via QuickPlay Pro 2
---------------	---------------------

## Lumen Maintenance

Threshold <sup>§</sup>	Ambient Temperature	Reported <sup>¶¶</sup>	Calculated <sup>¶¶</sup>
L <sub>90</sub>	25 °C	33,113	33,113
	50 °C	33,514	33,514
L <sub>80</sub>	25 °C	>36,000	66,683
	50 °C	>36,000	67,606
L <sub>70</sub>	25 °C	>36,000	>100,000
	50 °C	>36,000	>100,000
L <sub>50</sub>	25 °C	—	>100,000
	50 °C	—	>100,000

\* 600 x 600 mm lumen output measurements comply with IES LM-79-08 testing procedures. Measurements for all other Luminous Textile gen2 sizes are estimated based on the 600 x 600 mm measurements.

§ Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

¶¶ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

## Physical

Dimensions (Height x Width x Depth)	929 x 929 x 113 to 2429 x 9932 x 113 mm (36.6 x 36.6 x 4.4 to 95.6 x 391 x 4.4 in)
Weight	13.95 to 215.98 kg (30.75 to 476.15 lb) <i>Specific weights and dimensions are available on component lists.</i>
Housing Material	Extruded aluminium frame, black finish
Lensing	Light-diffusing white fabric standard. Other options available.
Acoustics	ISO 11654 – Weighted sound absorption $\alpha_w$ = 0.30 (L) Sound Absorption Class = D ASTM C423-99 – Noise Reduction Coefficient = 0.30 Sound Absorption Average = 0.30
Temperature Ranges	5 to 40 °C (41 to 104 °F) Operating -25 to 70 °C (-13 to 158 °F) Storage
Humidity	0 to 95%, non-condensing

## Certification and Safety

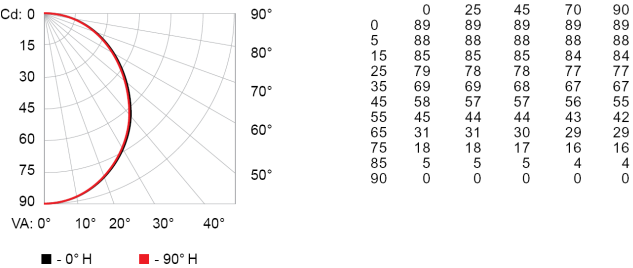
Fire safety for fabric	B-s1, d0 according to EN 13501-1 Class A according to UL 723 / ASTM E-84
Approbation	UL Class 2 (LED Modules) CE Class III luminaire
Environment	Dry/Damp Location, IP20

Photometrics, All channels full on

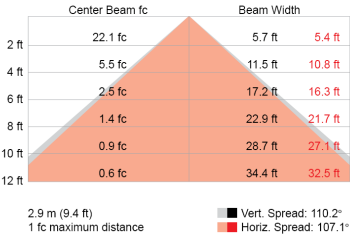
Photometric data is based on full hemisphere testing to IES standards. IES data is available at [www.colorkinetics.com/global/support/ies](http://www.colorkinetics.com/global/support/ies).

LEDs	RGB
Lumens	700 lm/m² (65 lm/ft²)
Efficacy (lm/W)	13.0

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	126.7	29.0%
0-40	208.7	47.7%
0-60	366.5	83.7%
0-90	437.4	99.9%
60-90	70.9	16.2%
70-100	18.8	4.3%
90-120	0.3	0.1%
90-180	0.3	0.1%
0-180	437.7	100.0%

For lux multiply fc by 10.7

Coefficients of Utilization - Zonal Cavity Method

	Effective Floor	Cavity	Reflectance: 20%	
RCC %:	80	70	50	30
RW %:	70	50	30	0
RCR:	0	1	2	3
	0	1.19	1.19	1.19
	1	1.09	1.04	1.00
	2	0.99	0.90	0.84
	3	0.90	0.79	0.71
	4	0.82	0.70	0.62
	5	0.76	0.63	0.54
	6	0.70	0.57	0.48
	7	0.65	0.51	0.43
	8	0.60	0.47	0.38
	9	0.57	0.43	0.35
	10	0.53	0.40	0.32

Luminaires and Accessories

This Specification Sheet offers general information about all versions of Luminous Textile gen2.

For specific size information including a list of components, weight, dimensions, and LED layouts download the size specific Component List at: [www.colorkinetics.com/global/products/rgb/luminous-textile-gen2](http://www.colorkinetics.com/global/products/rgb/luminous-textile-gen2)



© 2024 Signify Holding. All rights reserved. Specifications are subject to change without notice. No representation or warranty as to the accuracy or completeness of the information included herein is given and any liability for any action in reliance thereon is disclaimed.

Color Kinetics  
[www.colorkinetics.com/global/products/rgb/luminous-textile-gen2](http://www.colorkinetics.com/global/products/rgb/luminous-textile-gen2)