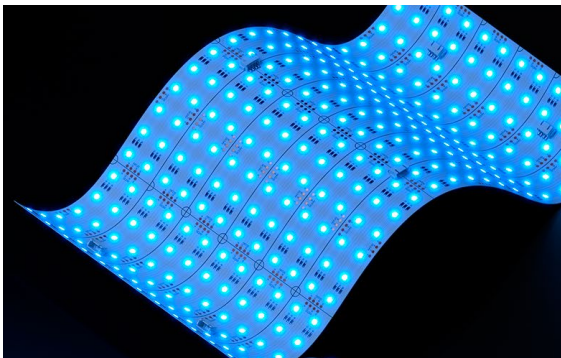




RGB LED Light Sheets

Product Data Sheet

The Flexfire RGB LED Light Sheets are thin and flexible lighting sheets that incorporate RGB LEDs to produce bright, color changing illumination across its surface. Their versatility and cutting points, make them an ideal solution for a wide range of installations. They are commonly used for various applications such as backlighting, signage, and architectural lighting, providing a sleek and energy-efficient solution for uniform lighting. These light sheets are customizable to different shapes and very easy to use.



Features

Voltage	24V DC Input
Brightness	Up to 2550 lm
Efficacy	Up to 40 lm/W
LEDs/Sheet	288 LEDs/Sheet
Beam Angle	120° Beam Angle
LED Pitch	13/16" (20 mm)
Cutting Points	1 9/16" (40 mm) or 4 3/4" (120 mm)
Max Run Length in Series*	Up to 4 Sheets
PCB	2 oz copper
LED Size	5050
Adhesive Type	3M 300LSE
Ambient Temperature	-4°F to 113°F (-20°C to 45°C)
Operating Temperature	-4°F to 149°F (-20°C to 65°C)
Dimmable	Yes
IP Rating	IP20



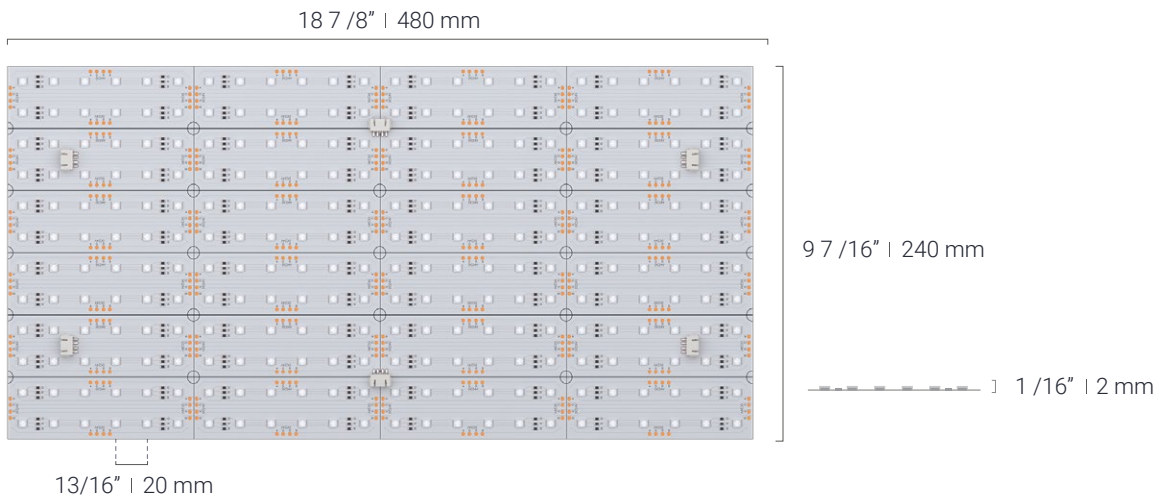
5-Year
Warranty

*To be in compliance with Class 2 and our UL Listing, the maximum run length of the light sheets may not exceed 1.5 light sheets daisy chained in a continuous run. However, in terms of sheer voltage drop and reduction in brightness, the light sheets are able to be run up to 6 continuous sheets which would be outside the parameters of our UL certification.

Ordering Code

Brand: **LST** (Light Sheets) - Color Temp.: **RGB** - Voltage: **24V** Example: LST-RGB-24V

Dimensions



Specifications

Product SKU	Watts / Foot (Meter)	Lumen / Foot (Meter)	Luminous Efficacy (Lumens / Watt)	Color Wavelength	Segment Size
LST-RGB	60 W	2550 lm	40 lm/W	R: 620-630 nm G: 515-525 nm B: 465-475nm	1 9/16" (40 mm) x 4 3/4" (120 mm)

Complete Your Setup

Drivers



Controllers & Dimmers



Connectors



Compatible Drivers (24V)

Non-dimmable					
Power Supply	Diagram	# of Light Sheets	Watts	Product SKU	Class 2
Plug-In Power Supply Plug-and-Play Power Supply		1	96 W	24V-DPS2-4	X
		1	96 W	HLG-100H-24A	X
Mean Well™ HLG Hardwired Power Supply		1 - 2	185 W	HLG-185H-24A	
		2 - 4	320 W	HLG-320H-24A	
		3 - 9	600 W	HLG-600H-24A	

Compatible Controllers & Dimmers

Handheld Remotes



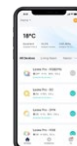
DMX Controls



Wall Panels




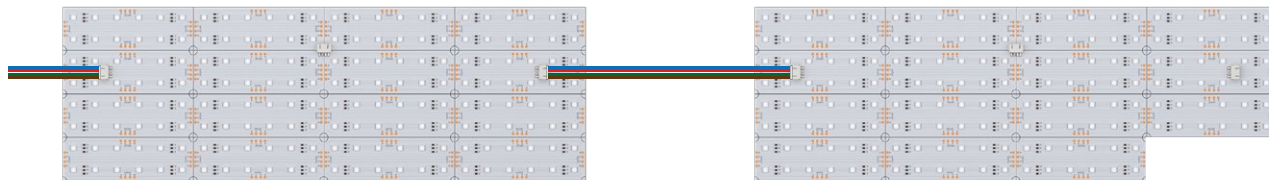
Smart Home Controllers



[See Controllers and Dimmers](#)

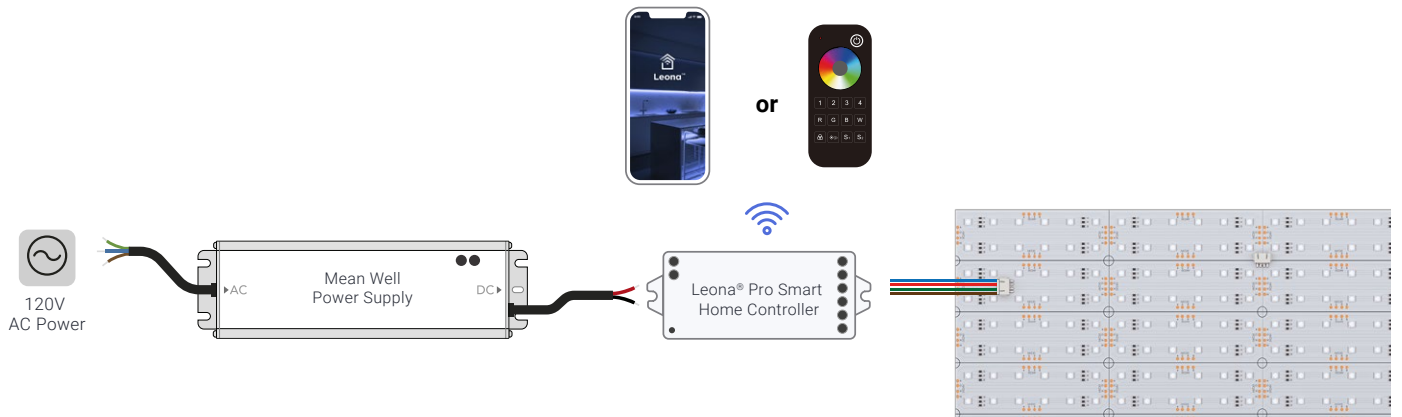
Compatible Light Sheet Connectors

Connector Type	SKU	Description	Wire Gauge	Diagram
RGB Light Sheet Connectors	LST-RGB-CONN-KIT	(2) 12" RGB Light Sheet Power Connector (2) 3 1/8" RGB Jumper Connector	22 AWG	

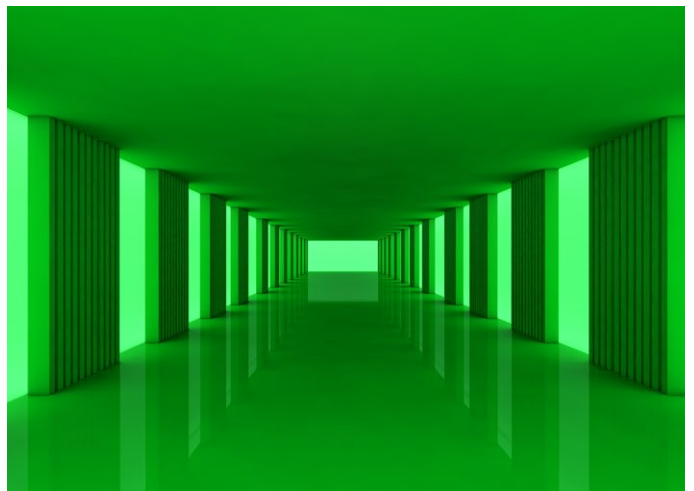
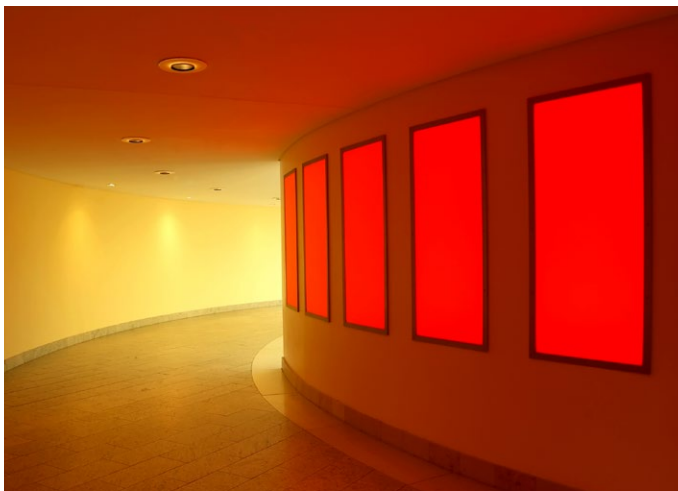


Wiring Diagrams

In-Line Dimming



Applications Examples



Safety And Disclosures

01. Installation must be in accordance with local and national electrical code regulations.

02. To ensure safety and correct installation, our strips are intended to be installed by a qualified, licensed electrician.

03. Only install with a Class 2 DC Constant Voltage LED driver to meet UL requirements.

04. Do not install in environment where excessive heat may exist.

05. LED light sheets must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.

06. Do not install indoor LED light sheets in outdoor / wet location environments. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.

07. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.

08. Make sure the appropriate gauge wire is installed between LED driver, LEDs, and any dimmers. When choosing wire, calculate voltage drop, maximum amperage rating, and the location ratings on the wire. Improper wire selection and installation could overheat wires, and cause fire.

09. Do not modify product beyond instructions or warranty will be void.

10. We reserve the right to modify and improve the design of our fixtures without prior notice. Although we try our best to order the same colors every time, due to changes in technology and phosphors over time, we cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

Warranty Information

Limited Warranty

This product has a 5-year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at <https://www.flexfireleds.com/warranties/> within the Policies section. For warranty related questions, please, contact the product support team at (support@flexfireleds.com).

Consumer's Acknowledgment

Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser. This limited warranty does not include product failures that are the result of: Connecting LED products to the wrong output voltage; Improper connection of power, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.

Contact Information



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