

[®]
LumaFilm

9.5" x 22"

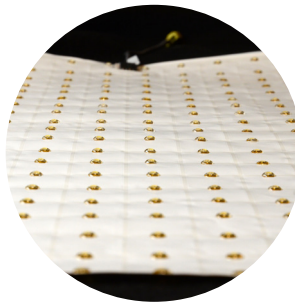
Light Sheet

The LumaFilm 9.5" x 22" Light Sheet (Emitter) is a perfect size for use in proprietary 2' x 2' and 2' x 4' luminaires. This size has been specifically engineered to allow for immediate use in existing lighting designs allowing for a rapid product differentiation while reducing the need for extensive fixture redesigns.

Luminaire designers are using LumaFilm as the centerpiece for their product strategies. LumaFilm light sheet's unique attributes of being thin, flexible and requiring no heat sinks are

revolutionizing lighting fixture materials, depths and shapes.

Signage professionals are experiencing superior results for all types of existing and new backlighting applications. LumaFilm on-site installation reduces contractor time and costs due to its ease of trimming and tiling together. LumaFilm, along with off-the-shelf dimming, non-dimming, and programmable constant-current drivers, represents a breakthrough in controlling the light output to meet virtually all lighting requirements.



Features and Benefits:

- **Fully Customizable** – Standard LumaFilm sheets can be cut in both directions and tiled together allowing for simple installations; custom LumaFilm sheets can be developed quickly to meet almost any requirement.
- **Flexible** – Allows LumaFilm to be applied to any flat or 3-dimensional surface creating innovative designs and unique lighting solutions.
- **Thin** – Can be used in even the most constrained spaces allowing for illumination in places not previously possible.
- **No Heat Sink Required** – Patented circuit designs result in minimal heat generation allowing it to be mounted directly on almost any surface from dry wall to concrete.
- **Minimal Depth without Pixilation** – Many smaller LEDs allow LumaFilm to be mounted close to the diffuser without hot/dark spots.
- **UL/cUL Listed and LM79 tested** – LumaFilm is ready to be installed with your most demanding customer.
- **Indoor and Outdoor** – LumaFilm is IP65 rated which makes it suitable for damp and dust-filled locations both indoors and outdoors.
- **Power Source Options** – LumaFilm can be powered by off-the-shelf dimming, non-dimming and programmable constant current drivers.
- **Energy Efficient and Green** – High performance (average of 130 L/W) saves energy and reduces carbon emissions resulting in a shorter payback period.
- **Durable** – Proven to withstand the harshest installation and usage treatment for longer life and more dependable service.

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9.5" x 22" Light Sheet Technical Specifications

Model	W095220SXX (XX = CCT)		
Size	9.5" x 22" (241mm x 559mm)		
Number of LEDs	180 (Osram Duris E-3 Chip)		
Color Temperature (CCT) Available	2700K, 3000K, 3500K, 4000K, 5000K		
Color Rendering	85 CRI		
Luminous Flux (5000K)	@ 10mA	730 Lumens	
	@ 20mA	1400 Lumens	
	@ 30mA	2100 Lumens	
Lumen Maintenance	TM21-11: L70 > 77,000 hrs.		
Luminous Efficacy	@ 10mA	140 L/W	
	@ 20mA	130 L/W	
	@ 30mA	120 L/W	
Lumens / Sq. Ft.	@20mA - 960 Lumens/Sq. Ft.		
Watts / Sq. Ft.	@20mA - 7.4 Watts/Sq. Ft.		
Electrical	@ 10mA	26.0V/200mA/5.2W (Cl 2 power supply required)	
	@ 20mA	27.0V/400mA/10.8W (Cl 2 power supply required)	
	@ 30mA	28.8V/600mA/17.3W (Cl 2 power supply required)	
Dimming	Available; dependent on power supply (range 0% to 100%)		
Photometry	Viewing angle at 50% I _{v,rel} 110°		
Substrate	PET Flexible Low temperature rated > -40°C Continuous operating temperature = 105°C Diffuse reflective Flammability rated VTM-0		
Operating Environment	IP65; indoor and outdoor (protected against dust ingress and low pressure water jet)		
Environmental Considerations	RoHS Compliant (contains none of the following)	Lead (Pb) Mercury (Hg) Cadmium (Cd) Hexavalent chromium (Cr6+) Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ether (PBDE)	
Regulatory	UL Class 2		
	UL/cUL Recognized	Light-emitting-diode Arrays, Modules and Controllers - Component Sign Accessories - Component	File #E466344 File #E466443
	UL/cUL Listed	Low-voltage Lighting Systems, Power Units, Luminaires and Fittings	File #E472231
Warranty	5 Years - Limited		

*Specifications subject to change. All data based on 5,000K