

<sup>®</sup>  
LumaFilm

# 12" x 24"

## Light Sheet

The LumaFilm 12" x 24" Light Sheet (Emitter) is a perfect size for signage and architectural lighting use. The LumaFilm circuit has been specifically engineered to allow for on-site customization and immediate use in existing signs where conventional backlighting or edge lighting is not delivering the expected results. Ideally suited for backlighting images on fabrics and other transparent materials.

Sign designers are using LumaFilm as the centerpiece for their new product strategies. LumaFilm light sheet's unique attributes of being thin, flexible and requiring no heat sinks are revolutionizing sign box depths, materials and shapes.

Architects and lighting design professionals are innovating their interior and exterior spaces by providing building owners a wide range of exciting new lighting options. Thus providing 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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## 12" x 24" Light Sheet Technical Specifications

<b>Model</b>	W120240SXX (XX = CCT)		
<b>Size</b>	12" x 24" (305mm x 610mm)		
<b>Number of LEDs</b>	288 (Osram Duris E-3 Chip)		
<b>Color Temperature (CCT) Available</b>	2700K, 3000K, 3500K, 4000K, 5000K		
<b>Color Rendering</b>	85 CRI		
<b>Luminous Flux (5000K)</b>	<b>@ 10mA</b>	1200 Lumens	
	<b>@ 20mA</b>	2200 Lumens	
	<b>@ 30mA</b>	3300 Lumens	
<b>Lumen Maintenance</b>	TM21-11: L70 > 77,000 hrs.		
<b>Luminous Efficacy</b>	<b>@ 10mA</b>	140 L/W	
	<b>@ 20mA</b>	130 L/W	
	<b>@ 30mA</b>	120 L/W	
<b>Lumens / Sq. Ft.</b>	@20mA - 1100 Lumens/Sq. Ft.		
<b>Watts / Sq. Ft.</b>	@20mA - 8.6 Watts/Sq. Ft.		
<b>Electrical</b>	<b>@ 10mA</b>	34.8V/240mA/8.4W (Cl 2 power supply required)	
	<b>@ 20mA</b>	36.0V/480mA/17.3W (Cl 2 power supply required)	
	<b>@ 30mA</b>	38.4V/720mA/27.6W (Cl 2 power supply required)	
<b>Dimming</b>	Available; dependent on power supply (range 0% to 100%)		
<b>Photometry</b>	Viewing angle at 50% I <sub>v,rel</sub> 110°		
<b>Substrate</b>	PET Flexible Low temperature rated > -40°C Continuous operating temperature = 105°C Diffuse reflective Flammability rated VTM-0		
<b>Operating Environment</b>	IP65; indoor and outdoor (protected against dust ingress and low pressure water jet)		
<b>Environmental Considerations</b>	RoHS Compliant (contains none of the following)	Lead (Pb) Mercury (Hg) Cadmium (Cd) Hexavalent chromium (Cr6+) Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ether (PBDE)	
<b>Regulatory</b>	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
<b>Warranty</b>	5 Years - Limited		

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