

<sup>®</sup>  
LumaFilm

# 5" x 24"

## High Output Light Sheet

The LumaFilm 5" x 24" High Output Light Sheet (Emitter) is a perfect size for high bay and exterior lighting applications. The LumaFilm circuit has been specifically engineered to allow for nominal heat generation and requires no heat sink.

The lack of significant heat production in high output fixture applications is solving the problem of internal over heating. The use of high output LumaFilm in these types of fixtures opens up the opportunity to retrofit existing gasket enclosed lamps or installing even fewer new fixtures.

Fully dimmable, LumaFilm provides the flexibility to control lighting levels in applications such as parking garages and tunnels.

Architects and lighting professionals are innovating their designs based on the ability to provide high output light within very little space. The high output LumaFilm has a 16mm pitch, which allows for minimal distances between the sheet and the lens.

LumaFilm on-site installation reduces contractor time and costs due to its ease of trimming and tiling together. The 5" x 24" high output LumaFilm circuit offers over 3,300 lumens and in a 5" x 48" configuration, it can achieve over 6,600 lumens. 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** – High Output LumaFilm sheets can be cut in one direction (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 120 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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## 5" x 24" Light Sheet Technical Specifications

<b>Model</b>	W050240HXX (XX = CCT)		
<b>Size</b>	5" x 24" (127mm x 610mm)		
<b>Number of LEDs</b>	312 (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>	130 L/W	
	<b>@ 20mA</b>	120 L/W	
	<b>@ 30mA</b>	110 L/W	
<b>Lumens / Sq. Ft.</b>	<b>@ 20mA</b>	2600 Lumens/Sq. Ft.	
	<b>@ 30mA</b>	4000 Lumens/Sq. Ft.	
<b>Watts / Sq. Ft.</b>	<b>@ 20mA</b>	22.4 Watts/Sq. Ft.	
	<b>@ 30mA</b>	36.0 Watts/Sq. Ft.	
<b>Electrical</b>	<b>@ 10mA</b>	23.2V/390mA/9.0W (Cl 2 power supply required)	
	<b>@ 20mA</b>	24.0V/780mA/18.7W (Cl 2 power supply required)	
	<b>@ 30mA</b>	25.6V/1170mA/30.0W (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		
<b>Operating Environment</b>	Diffuse reflective		
	Flammability rated VTM-0		
	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)
<b>Regulatory</b>			Polybrominated Diphenyl Ether (PBDE)
	UL Class 2		
	UL/cUL Recognized	Light-emitting-diode Arrays, Modules and Controllers - Component	File #E466344
		Sign Accessories - Component	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