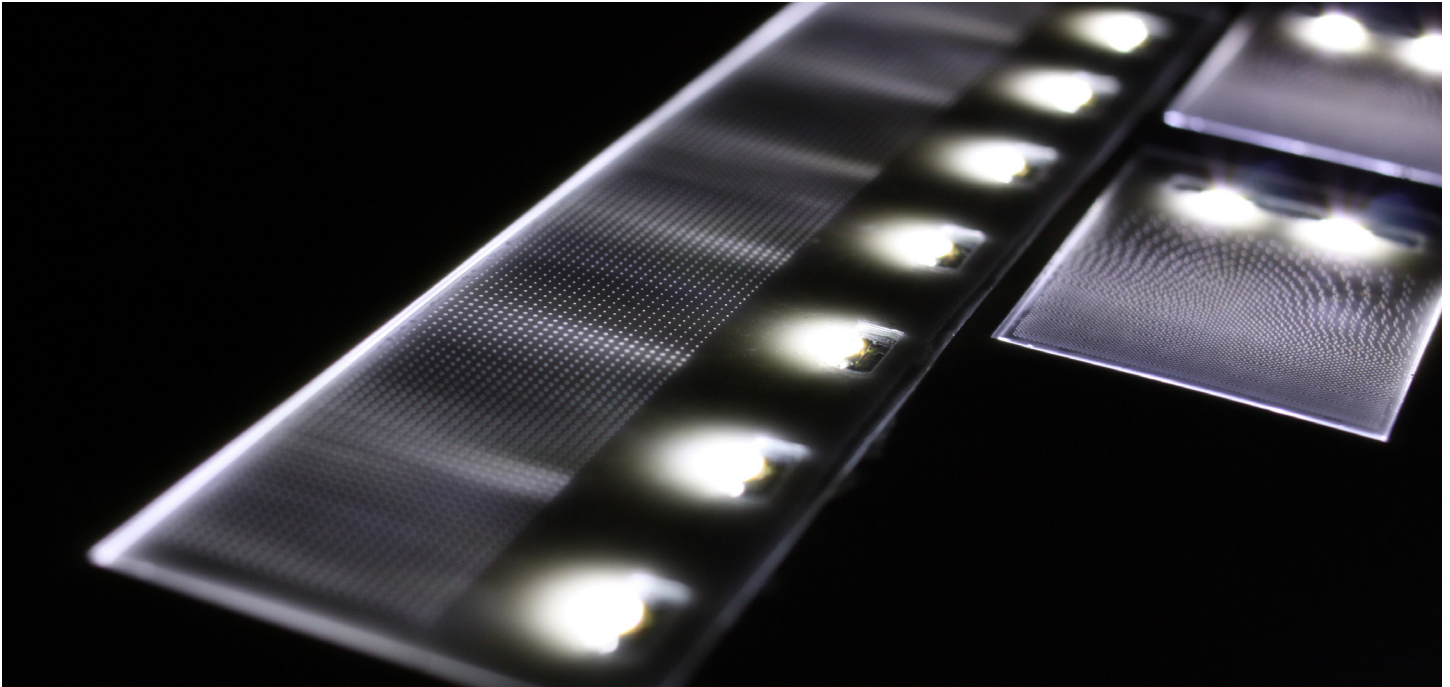


# Lumifilm™



## Flexible and Versatile Backlighting Film

Lumifilm™ is a thin light guide film used as a backlighting source for applications such as display, signage, decoration, annunciations and more. The principle behind Lumifilm™ technology is simple, yet powerful. Light is injected by a light emitting diode (LED) source inside a thin film. This light is then conducted via Total Internal Reflection (TIR) and extracted locally with printed dots. The dot pattern is optimized with a proprietary algorithm to ensure a uniform light output, avoiding hot spots and shadowed areas.

Specifically engineered to be integrated into the thinnest application, LumiFilm™ offers greater design possibilities, even when the space between components may be highly limited. NRE and production costs are remarkably low - eliminating the need to invest in certain hard tools such as molds.

LumiFilm™ is a custom solution which can be applied virtually anywhere, including aerospace, medical, telecommunications, wearables, transportation and defense industries. LEDs are available in a variety of colors and can be customized into any desirable shape.

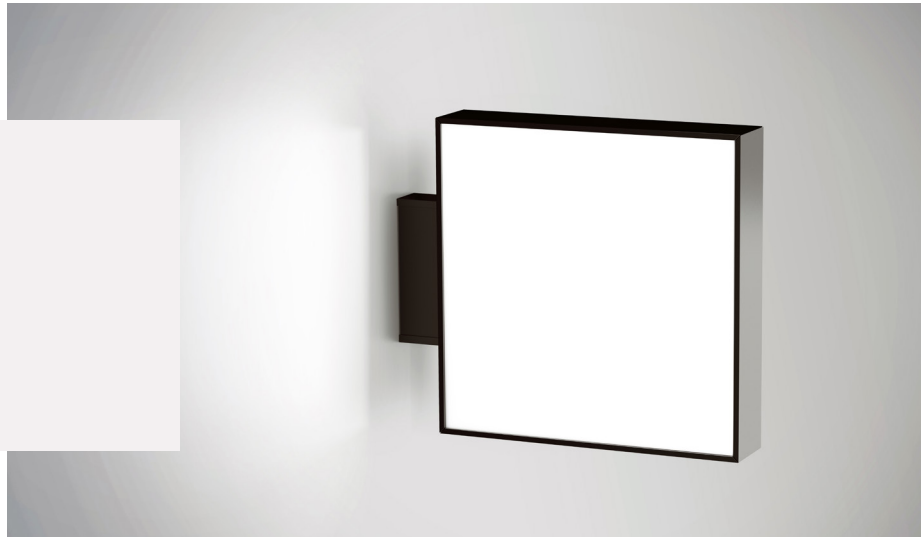
### Key Features & Benefits

- Thin
- Uniform
- Customizable
- Cost-effective
- Low power consumption

## Versatile

Lumifilm™ is suitable for both indoor and outdoor applications

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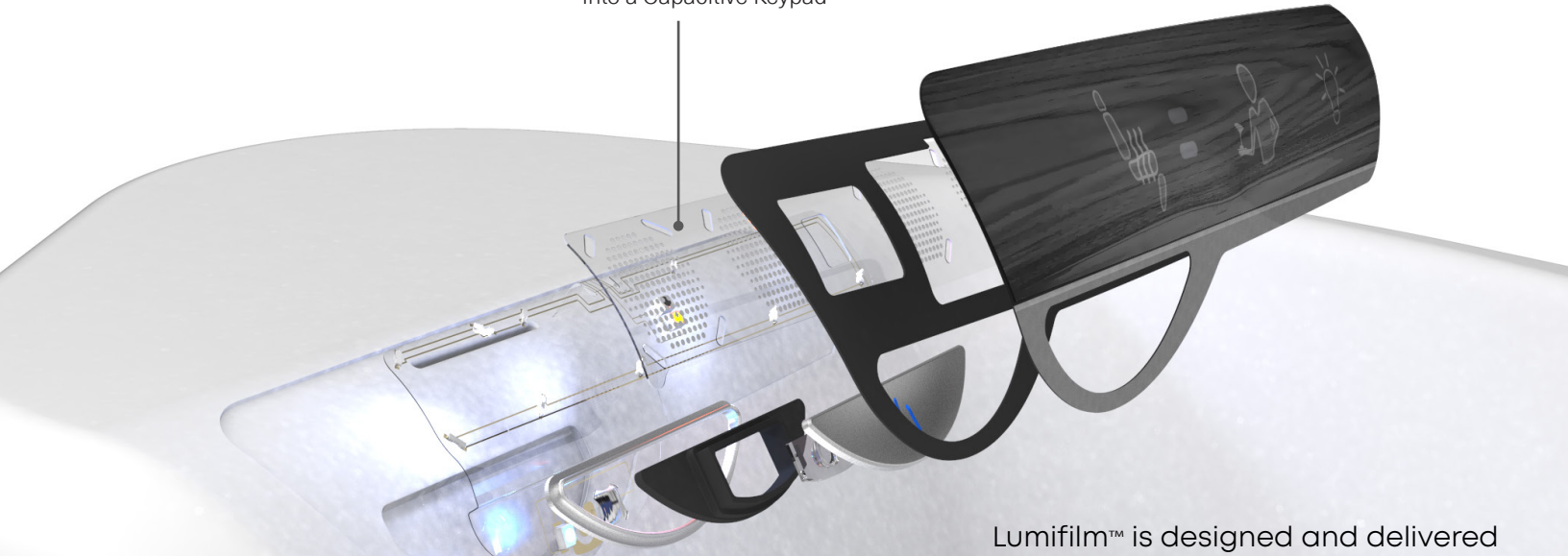


## Customizable

Light intensity and overall shape are fully adjustable

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Lumifilm™ Technology Integrated  
Into a Capacitive Keypad



Lumifilm™ is designed and delivered  
with **consistency of brightness**

## Environmental Specifications

<b>Dot size</b>	from 3 mils to 10 mils
<b>Minimum Lumifilm™ Thickness</b>	0.010"
<b>Maximum Lumifilm™ Thickness:</b>	0.030"
<b>Luminance*</b>	from 2 ft-L to 20 ft-L
<b>Uniformity</b>	Less than 50%
<b>Efficiency</b>	50% more efficient than traditional backlighting options

\*Luminance can be customized by adjusting the Lumifilm™ thickness and the type of ink applied on the graphic overlay.



**Transforming the surfaces we  
touch in our everyday lives.**

For more information, speak with  
a specialist at e<sub>2</sub>ip technologies.

We're always looking forward to  
hearing from you!

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