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# OLED LIGHTING FAQ GUIDE

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# What drivers are compatible with OLED lights?

OLEDWorks Lumiblade and LumiCurve product families require drivers that provide constant current control at low current. For example, the Brite 3 panels range from 145mA to 215 mA depending on shape. Driving with a constant current will give a consistent light output across varying temperatures, panel lifetime, and batch to batch coating variability.

Further Reading:

[Compatible Drivers and Information](#)



# Are OLED panels dimmable?

OLEDs are compatible with both pulse width modulation (PWM) and amplitude modulation (AM) dimming. Because OLEDs are solid-state lighting (SSL) solutions they can be used with standard SSL control systems such as occupancy sensors, daylight systems, and dimmers.

## Do OLEDs contain harmful blue light?

OLED panels are naturally diffuse, low intensity light sources. This means all OLED panels and fixtures are rated as exempt from any blue light hazard. In addition, OLEDs produce a broader blue spectrum with less short-wave blue and more long-wave blue than LED's, resulting in a lower blue light hazard rating and a lower melatonin suppression.

## Are OLED panels segmentable? Are the segments individually addressable?

Yes and yes. One example is the segmented tail light system present in the Audi A8. We are continuing to work with market input to define segment systems that have further market relevance. For example, the segments could be addressed to show “way out”, manage light levels with daylight controls, or respond to information.

## What are the handling requirements of OLED?

OLEDs are glass-based and should be handled with care as you would a glass plate. Do not cut, puncture, twist or snap the OLED panel. The only exception to this is the LumiCurve Wave, which is able to be bent to a minimum radius of 10cm.



Do not bend



Do not twist



Do not press

## Does OLEDWorks do binning?

No. OLEDs are large, surface area emitters, and the manufacturing process is controlled for panel-to-panel and lot-to-lot color consistency. We target <2.5 MacAdams consistency and +/- 100K CCT maximum.

## Can OLED panels be customized to any shape or size?

Absolutely! The nature of OLEDs allows for a high level of customization including panel shape, panel size, individually addressable segments, and corporate branding. We offer four standard shapes and sizes of panels, each in 3000K or 4000K CCT. If you are interested in large volume custom shapes and sizes , contact us today.

## Is dynamic color tuning available with OLEDs?

Not yet. Dynamic color tuning is not available in our current models. However, it is possible to achieve, and we're currently working on a government funded project to this end.

## Are transparent panels possible?

This has been demonstrated, but is still a few years away from commercialization. Transparent panels are much lower in efficacy than standard panels, and all of the products we commercialize must live up to our high standards of performance.

## What is the replacement process of OLED panels?

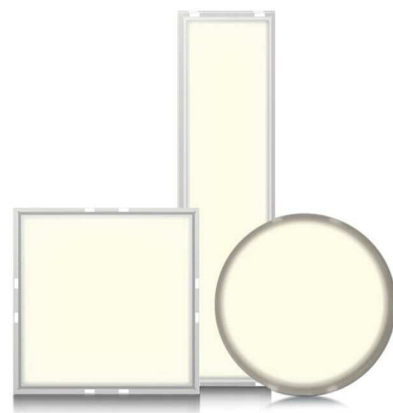
The replacement process depends on the luminaire design. The panel itself can be readily plugged into a connector and disengaged for replacement.

## What is the disposal process of OLED panels?

OLEDWorks panels are made of nearly 100% glass, and are certified by ISO 14001 to be easily disposed of with glass waste. Lumiblade OLED technology also meet the European Union's stringent RoHS and REACH directives.



Want to know even more about OLED light engines? Experience them for yourself!



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