

OmniCure®

# OmniCure® UV LED Fiber Curing Systems

Air-Cooled UV LED Solutions  
for Fiber Curing Applications



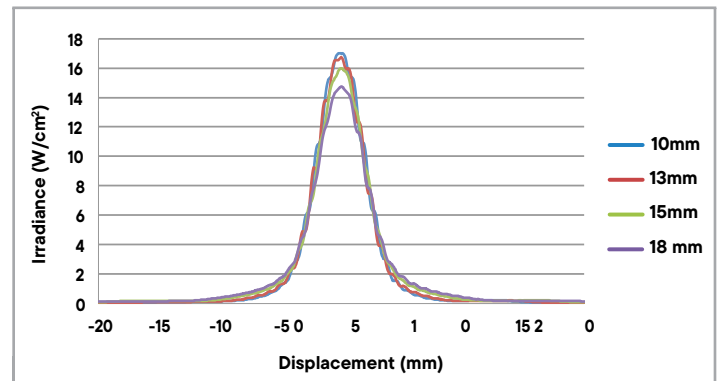
## ADVANTAGES OF OMNICURE® UV LED FIBER CURING SYSTEMS

- Innovative optical design to enhance output and provide highly focused UV delivery onto the fiber
- Exceptional cost savings from reduced electricity consumption to lower maintenance
- Innovative LED control technology for superior uniformity
- Compact air-cooled UV LED design for ease of integration

## OUTSTANDING OPTICAL PERFORMANCE

Uniformity: 395 nm

OmniCure® AC9225-F UV LED curing systems are specifically designed for fiber curing applications, featuring an innovative optical design to enhance output and provide highly focused UV delivery onto the fiber. With up to 80 W/cm<sup>2</sup> irradiance on the fiber in the standard face-to-face configuration, the OmniCure AC9225-F UV LED curing system provides an air-cooled, high output solution to meet the increasing demand for faster process speeds.



## Exceptional Cost Savings

OmniCure AC9225-F UV LED fiber curing systems reduce electrical power consumption by up to 60% compared with traditional arc lamp systems for exceptional cost savings and no compromises in line speed. With over 40,000 hours of LED lifetime and no costly replacement parts required, maintenance costs are even further reduced.

## Ease of Integration

Featuring a user-replaceable outer window for ease of maintenance, OmniCure AC9225-F fiber curing solutions enable the scalability of production speeds without complex changes in integration.

Innovative proprietary LED control technology provides exceptional system uniformity, as well as system-to-system uniformity in configurations where multiple UV LED heads are joined together to provide a wider curing area.

By utilizing air-cooled LED technology, OmniCure AC9225-F UV LED curing systems are more compact and allow for seamless integration into new or existing production lines. The innovative design eliminates the need for costly retooling, external cooling or ozone extraction. The AC9225-F can also be mounted in any orientation for greater flexibility.

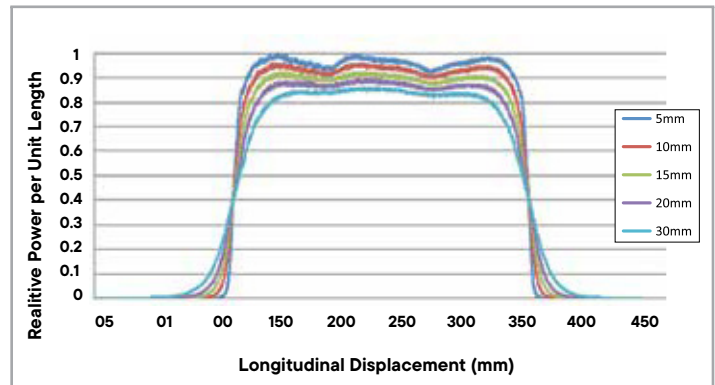
The laser alignment fixture and custom bracketing help ensure that the UV impinging onto the fiber is optimized at all times.

For mechanical drawings and further information about OmniCure AC9225-F UV LED curing systems, contact us at [omnicure@excelitas.com](mailto:omnicure@excelitas.com).

## SUPERIOR UNIFORMITY

### Uniformity: 395 nm

OmniCure AC9225-F fiber curing systems utilize innovative proprietary LED module control technology to control individual UV LED module outputs, to provide exceptional uniformity over the entire curing area. In addition, optical uniformity across all systems can also be optimized in configurations where multiple UV LED heads are joined together to provide a wider curing area.



## PERFORMANCE

### AC9225-F

<b>Peak Wavelength<sup>1</sup></b>	395 nm
<b>Active Optical Area</b>	225 x 15 mm
<b>Typical Power Consumption<sup>2</sup></b>	675W
<b>Typical Peak Irradiance at the Fiber</b>	61-88 W/cm <sup>2</sup>
<b>Longitudinal Uniformity<sup>2</sup></b>	Better than +/-10%
<b>Operating Voltage</b>	48 Vdc +/- 2 V
<b>Dimensions (L x W x H)</b>	235 x 80 x 220 mm
<b>Weight</b>	2.7 kg
<b>Cooling</b>	Air
<b>Life Expectancy (L70)</b>	>40,000 hours
<b>Automation</b>	Integrated PLC controls
<b>LED Warranty</b>	3 years or 20,000 service hours



<sup>1</sup>Other wavelengths available (including 275, 365, 385 nm)

<sup>2</sup>At 100% intensity setting



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