

OmniCure AC8225-F and AC8225-F+

Air-Cooled UV LED
Solutions for Fiber Curing
Applications



Custom optical design to provide high peak irradiance at specific working distances

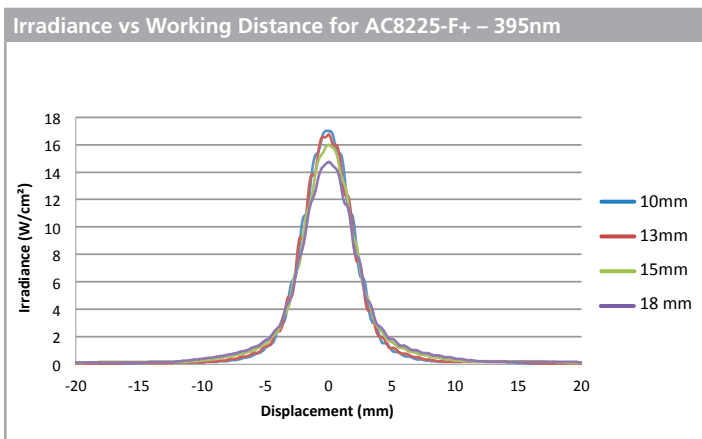
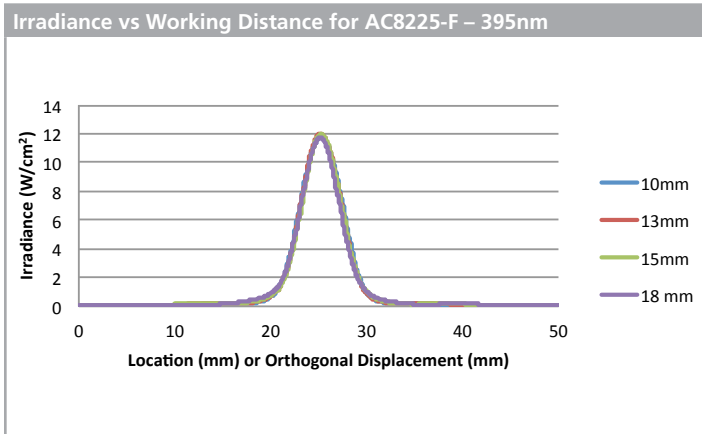
Exceptional cost savings from reduced electricity consumption and long LED lifetime

Patented LED control technology for superior uniformity

Compact air-cooled UV LED design for ease of integration

Outstanding Optical Performance

OmniCure® AC8225-F and AC8225-F+ UV LED curing systems are specifically designed for fiber curing applications. With a custom optical design and advanced front-end optics, the AC8225-F and AC8225-F+ provide high peak irradiance and exceptional uniformity at specific working distances for fast, even curing in fiber coating applications. By adapting the output to support the requirements of the wire, cable and fiber coating industry, the OmniCure AC8225-F and AC8225-F+ deliver optimized performance to achieve high quality curing in this demanding process. The AC8225-F provides 12W/cm² peak irradiance at a 10 to 18mm working distance. To further increase process speeds, the AC8225-F+ system delivers up to 16W/cm² peak irradiance, and features an optional replaceable outer window assembly for added protection.



Exceptional Cost Savings

OmniCure AC8225-F and AC8225-F+ UV LED fiber curing systems reduce electricity 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 replacement parts, maintenance costs are even further reduced.

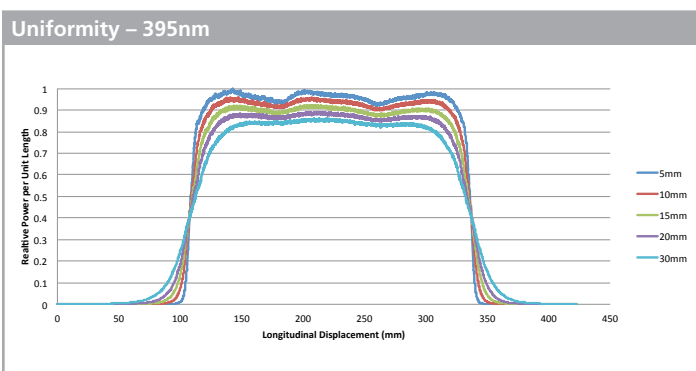
Ease of Integration

Utilizing air-cooled LED technology, the compact OmniCure AC8225-F and AC8225-F+ UV LED curing systems allow for seamless integration into new or existing production lines. Their innovative design eliminates the need for costly retooling, external cooling or ozone extraction. The AC8225-F/AC8225-F+ can also be mounted in any orientation for greater flexibility. External mechanical and optical accessories are also available upon request.

For mechanical drawings and further information about the OmniCure AC8225-F and AC8225-F+ UV LED curing systems, please contact us at omnicure@excelitas.com.

Superior Uniformity

The OmniCure AC8225-F and AC8225-F+ fiber curing systems utilize a patented process for addressing individual UV LED module outputs, to provide exceptional uniformity over the entire curing area. Multiple UV LED heads can be adjoined while maintaining optical uniformity between each system.



Technical Specifications

		AC8225-F	AC8225-F+
Peak Wavelengths		395nm +/- 5nm	
Active Optical Area		225 x 15mm	
Typical Power Consumption*		500W	600W
Typical Peak Irradiance (W/cm ²)			
Working Distance	10mm	11.7	16.3
	13mm	12.2	16.0
	15mm	12.4	15.3
	18mm	12.3	14.1
Longitudinal Uniformity*		Better than +/- 10%	
Operating Voltage		48 V DC ± 2 V	
Dimensions (L x W x H)		235 x 80 x 218mm	235 x 80 x 220mm
Weight (kg)		2.7	
Cooling		Air	
Life Expectancy (L70)		>40,000 hours	
Automation		Integrated PLC controls	
LED Warranty		3 years or 20,000 service hours	

*At 100% intensity setting.



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