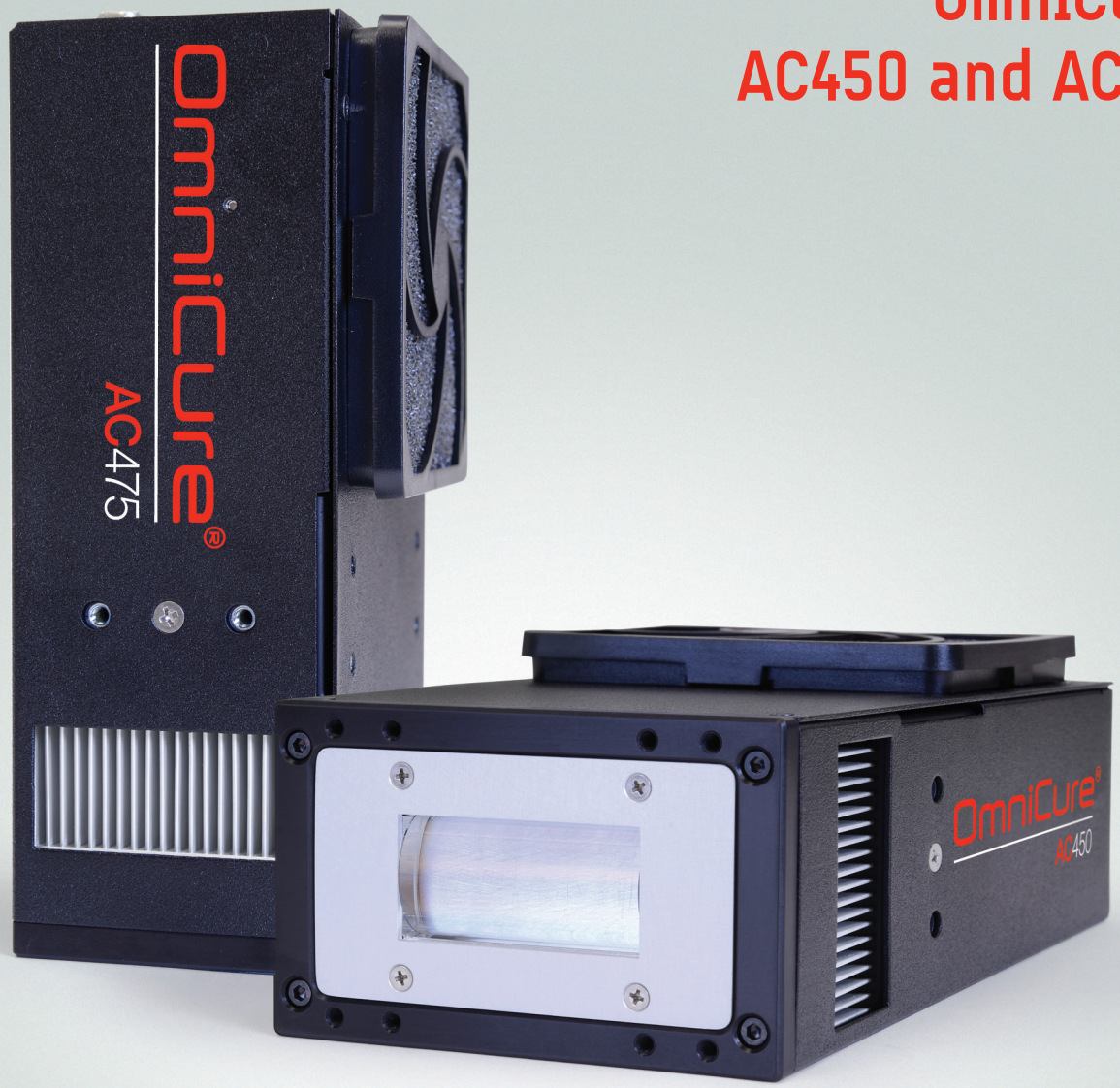
OmniCure® AC450 and AC475



Small Area Curing LED Light Systems

Ideal for curing of adhesives and coatings in electronics, optics and medical device assembly or inks in print, marking and coding applications.

Exceptional Irradiance Performance
to accommodate different working distances.

Superior Uniformity
to maximize the addressable curing area.

Flexibility with Control
for repeatable curing results.

Compact, Air-Cooled LED Design
for ease of integration.

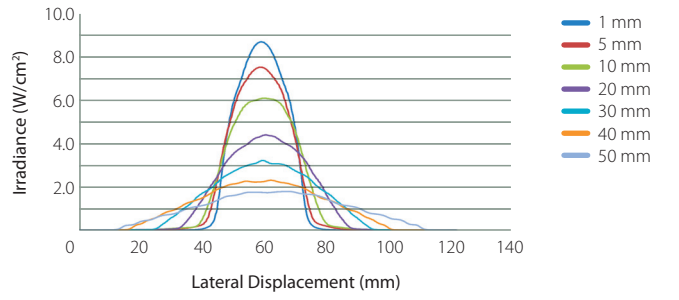
OmniCure®
UV Curing • In Control

www.ldgi.com

Exceptional Irradiance Performance

The OmniCure® AC450 and AC475 utilize high emission LEDs which achieve over 8W/cm² at the optics window. The systems include advanced front-end optics to provide high peak irradiance at long working distances with extended clearance of conveyed parts. This allows for easier curing, or the option of focusing the light at different working distances for adapting to a specific UV process.

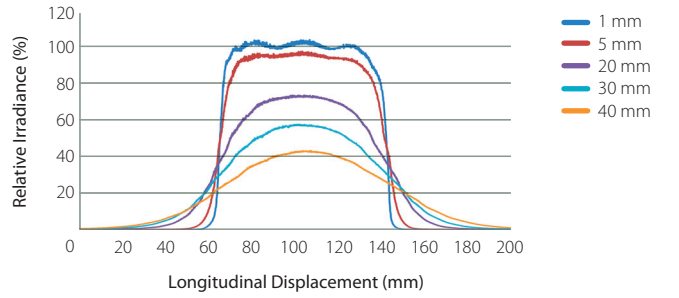
Irradiance vs Working Distance for AC450 and AC475



Superior Uniformity

Utilizing Lumen Dynamics' patented process for individually addressing each UV LED module output, the OmniCure® AC450 and AC475 offers consistent results by ensuring high longitudinal uniformity over the entire 50mm (2") to 75mm (3") curing area. A uniform exposure area allows for curing of larger and/or multiple parts simultaneously. It also offers the ability to convert a static curing process to one where parts are being cured while in motion in order to increase throughput.

Uniformity at Working Distances for the AC475



Flexibility with Control

Precise control of the UV irradiance level and time ensures that the correct dose of UV energy at the required wavelength is provided on every exposure for a repeatable curing process. Intelligent system monitoring and control ensures system reliability meets the demands for any application.

Ease of Integration

The air-cooled, compact LED head design eliminates the need for external cooling or ozone extraction while simplifying integration. The curing systems can also be mounted in any orientation, using different wavelengths for greatest flexibility. External mechanical and optical accessories are also available for use in similar applications.

Technical Specifications

		AC450		AC475	
Available Wavelengths		365 nm ± 5 nm, 395nm ± 5nm			
Curing Area		50 x 25 mm		75 x 25 mm	
Typical Peak Irradiance (W/cm²)		365nm	395nm	365nm	395nm
Working Distance	0 mm	4.0	8.0	4.0	8.0
	10 mm	2.8	5.7	2.8	5.7
	20 mm	1.9	3.7	1.9	3.7
	30 mm	1.5	2.8	1.5	2.8
	40 mm	1.2	2.0	1.2	2.0
	50 mm	1.0	1.7	1.0	1.7
Optical Power		45 W	90 W	68 W	135 W
Power Consumption		350 W	350 W	550 W	500 W
Longitudinal Uniformity		± 10%			
Operating Voltage		48 V DC ± 2 V			
Dimensions (L x W x H)		110 x 68 x 190 mm			
Weight		1.1 kg (2.4 lbs)			
Cooling		Air			
Acoustic Noise		< 65dBA, load adapting			
Life Expectancy		> 20,000 hours			
Automation		Integrated PLC controls for UV intensity and system alarms			
Warranty		1 year; 10,000 service hours (light engine)			

Mechanical Drawings

Mechanical drawings are available on our website. To find out more about the OmniCure® AC Series UV LED curing solutions, please visit **www.ldgi.com**

LUMEN DYNAMICS
PUTTING YOU IN CONTROL

www.ldgi.com
omnicure@ldgi.com

2260 Argentia Road
Mississauga, Ontario
L5N 6H7 CANADA

Telephone: +1 905 821-2600
Toll Free (USA and CAN): +1 800 668-8752
Fax: +1 905 821-2055