

OmniCure®

UV Curing • In Control

OmniCure® Liquid Light Guide

Light Delivery Technology
to Enable High Optical
Throughput



Provides high UV light throughput from the light source to curing sites

Reduces UV bonding manufacturing costs with faster curing time, higher product manufacturing yields and higher power efficiency

Provides a high energy efficiency solution for light guides with multiple outputs

Wide range of Standard Light Guides available in various spot sizes with single or multi-leg configurations

Easily adapts to any optical accessory



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OmniCure Liquid Light Guide

Light delivery technology that will enable high optical throughput from the light source to the cure site extending lamp life, economical and an ideal choice for a variety of applications in a rugged automated environment.

The OmniCure Liquid Light Guide (LLG) is an economical choice for light delivery, available in 3, 5 and 8mm tip diameters and standard lengths ranging from 750 to 3000mm. Dual and triple-leg configurations are available for multi-site curing. Extended range guides deliver

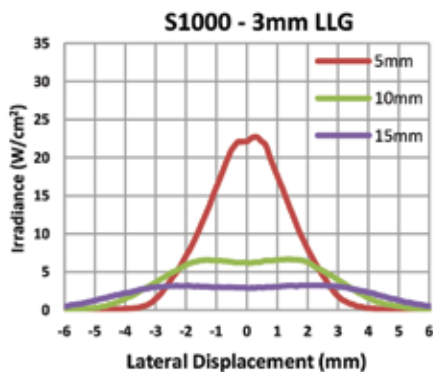
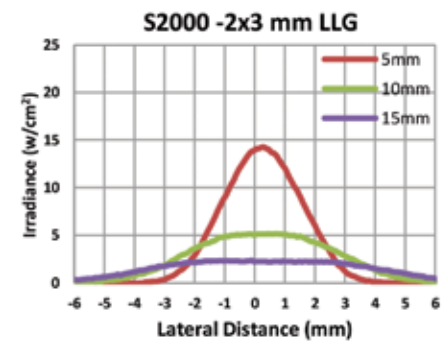
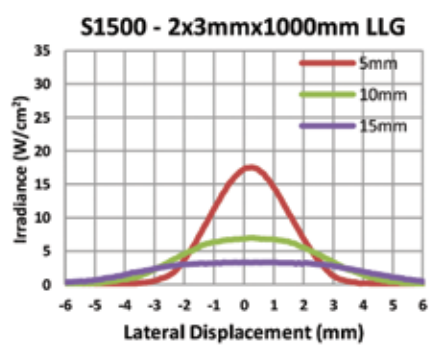
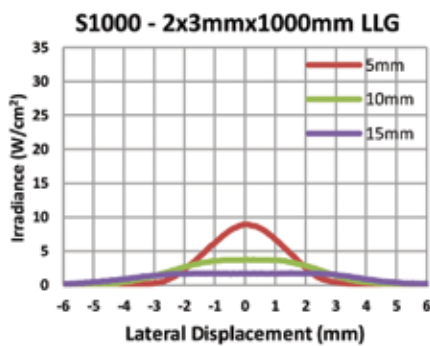
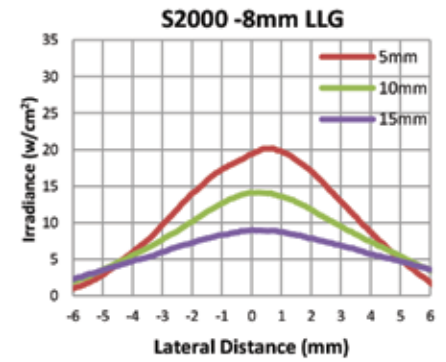
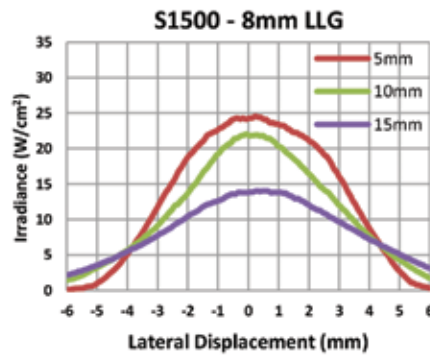
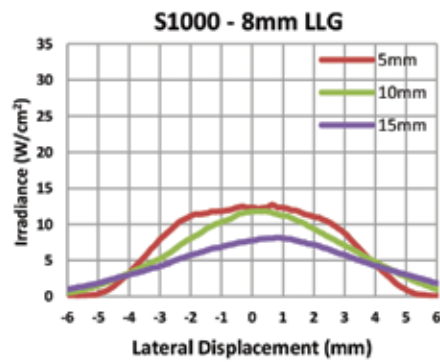
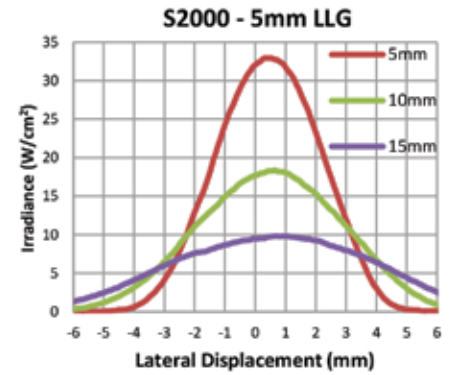
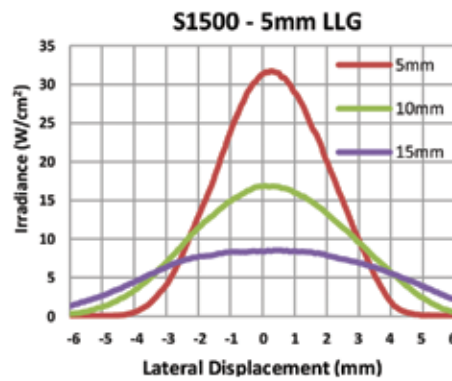
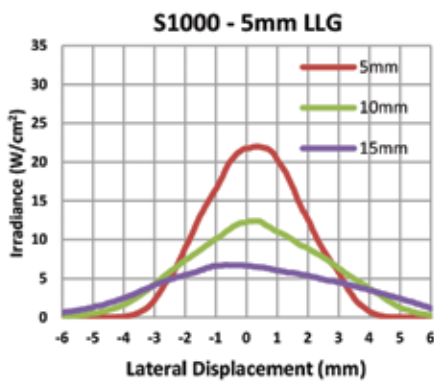
additional energy in lower wavelengths for tack-free cures. The OmniCure Liquid Light Guide greatly improves the UV bonding manufacturing process by offering key advantages over competitive solutions.

FEATURES	BENEFITS
Economical light delivery to curing sites	Lower cost of manufacturing
High throughput	Extends the useable lamp life
3, 5 and 8mm spot size diameters	Suitable for a variety of applications
Multi-Leg configurations *	Multi-site curing, increases productivity

*Available with select configurations only.

General Specifications		
	Standard Light Guide	Extended Light Guide
Spectrum Range	300nm to 600nm	250nm to 600nm
Numerical Aperture (NA)	72°	50°
Warranty	1 year	1 Year

OmniCure Liquid Light Guide Beam Profiles



LLG	Average Irradiance** (W/cm ²)			Power* (W)		
	S2000	S1500	S1000	S2000	S1500	S1000
5mm	29.2	25.7	17.7	5.7	5.0	3.5
8mm	17.8	15.9	8.6	8.9	8.0	4.3
2 x 3mm	21.5	21.5	13.4	1.5	1.5	0.9
3mm	NA	NA	31.0	NA	NA	2.2

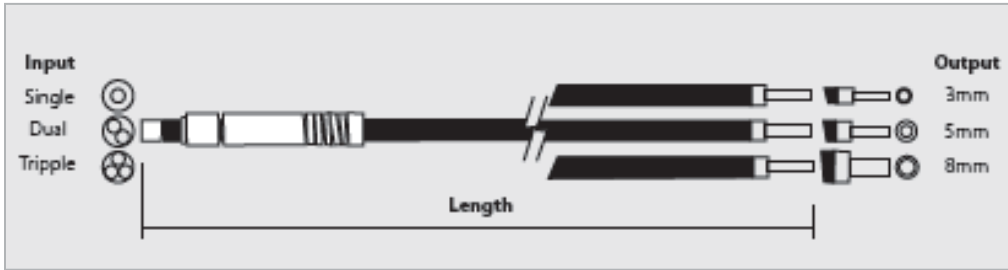
* Total power measured by an OmniCure R2000 Radiometer (Working distance: 0mm).

** Average irradiance: Power at the individual leg output of the light guide divided by the output area.

*** All OmniCure light sources used for Beam Profiles are equipped with standard filters.

Liquid Light Guide Specifications

Core	End Fittings			Tube	Minimum Bend Radius
d_0	d_1	d_2	d_3	d_4	
3mm	5mm	9mm	20mm	7mm	40mm
5mm	7mm	10mm	20mm	9.5mm	60mm
8mm	10mm	15mm	20mm	12.5mm	100mm



Ordering Guideline

Additional configurations available, please contact our sales department.

Light Guide	Length	Part Number
1 x 3mm	1000mm	805-00004
1 x 5mm	1000mm	805-00002
1 x 8mm	1000mm	805-00009
2 x 3mm	1000mm	806-00032
3 x 3mm	1000mm	805-00001

