



# SOLAPRODUCT

April 2011

# simplify

Lumencor's newest light engine product the SOLA is a true arc lamp replacement. The SOLA offers UV-VIS solid-state based white light to replace Metal Halide and HBO arc lamps.



## SOLA light engine solid state white-light excitation subsystem

**lumencor®** State of the Art Solid State Lighting for Microscopists and Instrument Manufacturers

Lumencor now offers a true arc lamp replacement with the release of the SOLA Light Engine. The SOLA produces continuous white light from 380 to 680 nm and is suitable for imaging all the most common fluorophores and fluorescent proteins.

The SOLA offers the end user an affordable solid state alternative as an arc lamp replacement. The SOLA Light Engine can be controlled by every microscopy software in the marketplace. It offers unprecedented access to solid state illumination at a price comparable to most Metal Halide light sources used in a host of life science equipment including fluorescence microscopes.

Lumencor preserves performance in the form of powerful, cool, stable, robust, UV- and IR-free light AND now allows the user simple integration with existing filter cubes and hardware configurations. This additional flexibility allows individual users, core facilities and OEMs a superior solid state excitation subsystem. Power exceeds most spectral bands of the arc lamps while cost and wavelength range are on par with traditional arc lamps.

Customers will never again have to worry about arc lamp alignment, installation and replacement. The expected lifetime of the SOLA is greater than 15,000 hours. Short warm-up time and superior stability

mean these are all usable hours with highly reproducible output power. Units ship with a three year warranty covering any failures with the light engine including parts and labor.

The SOLA can be integrated with high end cameras. In so doing, they enable light blanking during frame readout. This prolongs sample life and minimizes photobleaching during sample illumination.

For more information on the SOLA, please contact:

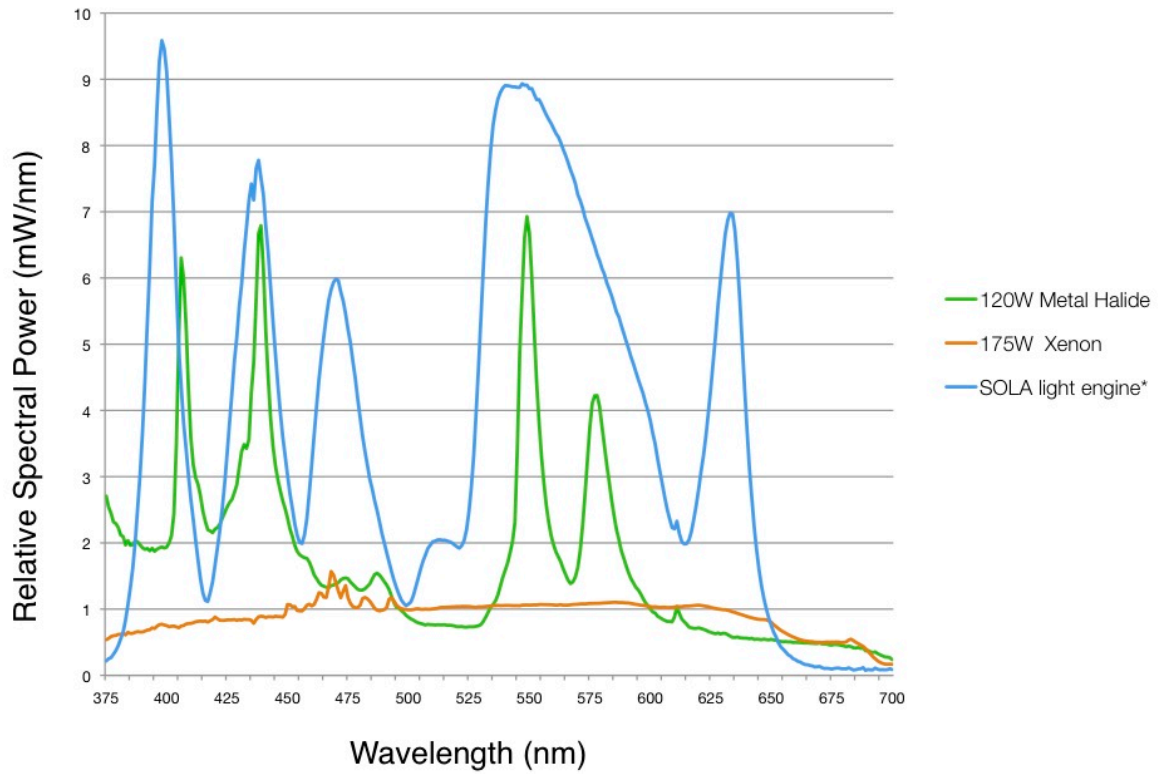
### SOLA light engine



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**solid state lamp**

**Lamp Comparison**



**lumencor**<sup>®</sup>

## A solid state arc lamp replacement more power, more stability, longer lifetime

State of the Art Solid State Lighting for Microscopists and Instrument Manufacturers

FEATURES	DETAIL
Source technology	multiple solid state sources operating simultaneously
Maximum number of outputs	one white output, 380 - 680 nm, no UV or IR light
Filtering	requires external bandpass filters
Switching speed	5 kHz with turn on/off ~ 10 μs
Liquid light guide & adapter, included	compatible with all major microscope models
Easy to install	pre-aligned
Lifetime	~ 15,000 hours, 36 month warranty to end user
Easy camera synchronization	Uniblitz command control for on/off and electronic shutter
No-hands operation	Remote control accessory and foot pedal options
Power requirements	220W, 28-30VDC, 7.9A
Weight, Dimensions	3.6 kg, 9 x 18 x 23 cm or smaller