

EmArc® SMR-75/LFL

METAL ARC LAMPS

The latest development in Emarc® technology, the new SMR-75/LFL, 75 watt lamp, has an optimized design that addresses illumination challenges in fluorescent microscopy systems and other unique scientific or industrial optical applications.

The SMR-75/LFL lamp is another masterfully engineered lamp from Ushio America, that combines the benefits of our unique Emarc lamp discharge technology with precisely crafted and manufactured parts resulting in a powerful and compact lighting solution.

EmArc lamps are a progressive step ahead in lighting technology, possessing features that offer advantages to an array of users for imaging, fiber optic and other important optical applications.



FEATURES & BENEFITS:

- Unique Long Focal Length Reflector Design Greatly Improves Optical Throughput Efficiency.
- 1.2 mm Arc Gap Size Enables Very Precise Optical Control and Well Defined Light Distribution Pattern.
- 'Plug and Play' Lamp Design Requires No Lamp to Lamp Adjustment or Alignment in Your Optical System Compared to Other Traditional Lamp Sources.
- Highly Durable and Precisely Machined Reflector Parts Ensure Lamp to Lamp Integrity, Alignment and Consistency in Your Equipment.
- Emarc DC, Metal-Arc Technology, Enables Operation on Simpler, Lower Cost DC Power Supplies Reducing OEM System Design Costs.
- Lower Power (Wattage) Reduces Thermal Load to Sensitive Equipment, like Microscopes, or Sophisticated Optical Systems Simplifying Lamp House Design and Lowering Overall System Costs.
- Xenon-Like Correlated Color Temperature for Crisp, White, Bright Illumination.
- Excellent Field Uniformity and Intensity in Fluorescent Microscopy Applications, Featuring Outputs and Peak Intensities in Important Spectral Areas.
- Made in U.S.A.

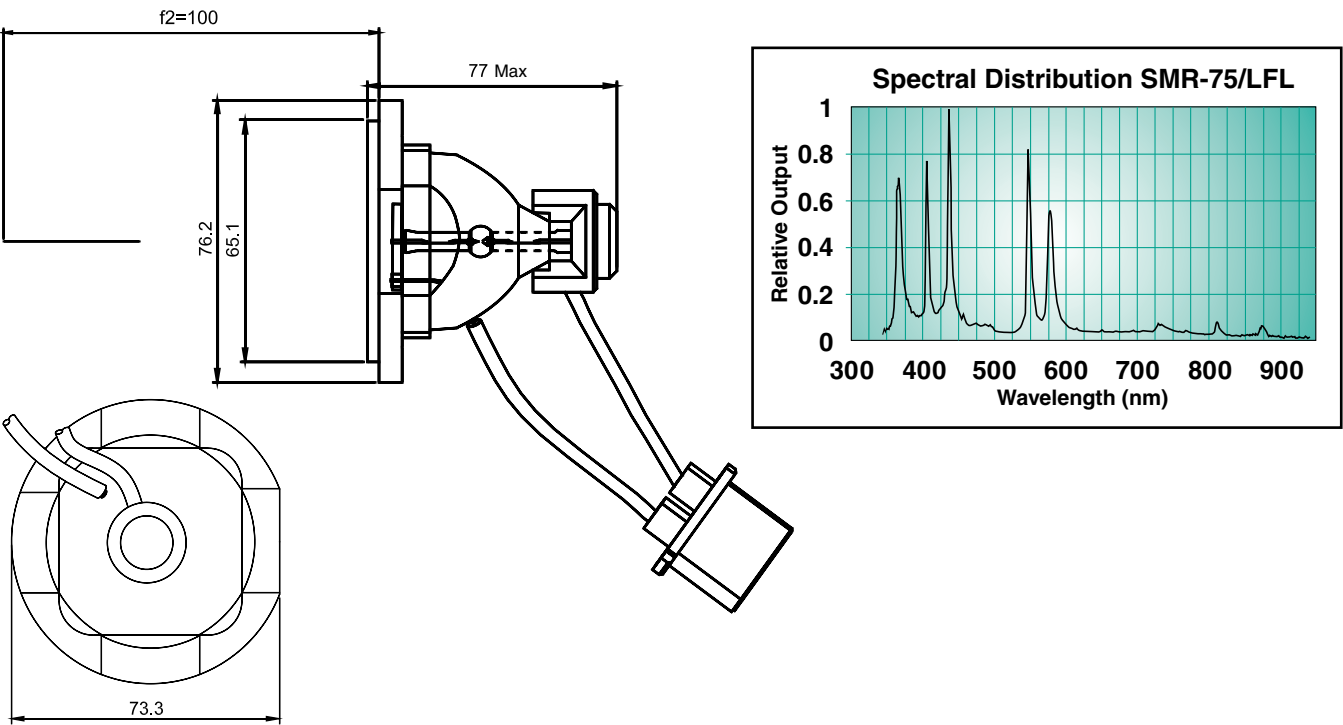
APPLICATIONS:

- Microscopy
- Medical and Industrial Fiber Optic Illumination
- Bio-Technology and Bio-Medical Optical Instrumentation

USHIO



Metal Arc Lamps



Data subject to change without notice.

Wattage Power Range (W)	Ordering Code	Lamp Description	Lamp Voltage (V)	Ignition Voltage	Minimum Voltage After Start Up
50 - 75	5002312	SMR-75/LFL	55V DC (-8+12)	25kV (for Hot Re-ignition)	10 - 15V DC

Lamp Current (A)	Maximum Allowable Starting Current	Arc Gap (mm)	Color Temp* (K)	Lumen Flux* (lm) nom	Average Rated Life** (h)	Typical Warm Up Time
1.33 nom.	2.3A	1.2	6800	700	600	90 sec. nom.

* Output and Correlated Color Temperature as measured through a 4mm aperture at 100mm from the reflector rim. Actual values are dependent upon optical set-up. All dimensions are in millimeters.

** Life at 50% down in luminous flux or 50% failure to operate. (Dependent upon system and operating conditions). Ballast must be certified by USHIO.