LS0151 – UV LED IRRADIATOR

UV CURING APPLICATIONS

- Hydrogel
- Adhesives
- Coatings
- Medical Devices
- Electronics
- Optoelectronics

THE LED "CURE" FOR MERCURY BASED LAMPS!

- **Available wavelengths: 365 and 385 nm**
- **Air Cooled**
- **Irradiance: controllable up 476 mW/cm^2.**
- **1 inch x 16 inch increments**
- **Nominal 1 inch installation height**

- *Irradiates large distributed areas evenly*
- *Long Life - Slash system maintenance costs*
- *Eliminate handling and disposal of toxic Mercury lamp waste*
- *Eliminate assembly line contamination from broken Mercury lamps*
- *Reduce energy consumption costs*
- *Dial in optimum curing irradiance with optional Power Control*
- *Rugged, heavy duty heat sink design for years of trouble free operation in industrial environments*
- *Modular design – tailor installation to your factory*
- *Air cooled*
- *Also emits visible blue light to indicate power 'on' for safety*
- *ESD and reverse polarity protection*
- *Cool, low temperature operation; doesn't 'cook' resin*
- *Sealed optical assembly resists contamination*

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Table 1 - UV Curing Engine Optical Performance

Performance Parameter	Typical		Symbol	Unit
Peak Wavelength	365	385	λ	nm
Spectrum Half Width	9	10	Δλ	nm
Radiant Flux (Optical power) (@300mA per channel)	18	21		W
Radiant Flux (Optical power) (@500mA per channel)	30	36		W
Irradiance	400	476		mW/cm^2
Mounting Height (distance between lens and curing surface)	2.5			cm
Curing Area	2.5 cm x 40 cm			cm^2
Output maintenance (@300mA)	>44,000		L_{70}	hrs

Table 2 - Typical Electrical Characteristics

Performance Parameter	Typical		Symbol	Unit
Number of channels	2	2		
Input Current (per channel)	500	500		mA
Input Voltage (per channel)	154	150	VDC	Volt DCs
Input Power (total; 2 channels)	154	150	P	Watts

UV CURING ENGINE FEATURES:

The LS0151 curing engine is an industrial grade, air cooled UV Curing System. This system delivers a precisely controlled, evenly distributed irradiance field ideally suited to conveyor applications.

OPTIONAL SYSTEM FEATURES

- Adjustable Irradiance Power Controller
- System enclosure

MECHANICAL DIMENSIONS