

UV LED CURING LAMP SYSTEM

Specification Sheet



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Introduction: UV LED Lamp

The heart of a UV LED lamp is the UV LED chip technology, and with this Lumeniche has a partnership with a leading UV LED chip manufacturer, YesLED, to provide the latest and best in UV LED technology – the Vertical LED chip, an ideal light source for UV applications requiring high power density. YesLED vertical chip structure on a patented metal alloy substrate and manufactured with our proprietary process, the UV LEDs offer advantages in excellent optical output and high thermal conductivity, thereby achieving greater light quality, high efficiency, and reliability

1. Characteristics

2. Absolute Maximum Ratings

Parameter	Rating
Input Current per channel	6A per channel
Peak Irradiance @ 0mm	22W/cm ²
Power Consumption	1800W
Operation Environment	15~35°C / Humidity : 30~75%

3. General Characteristics

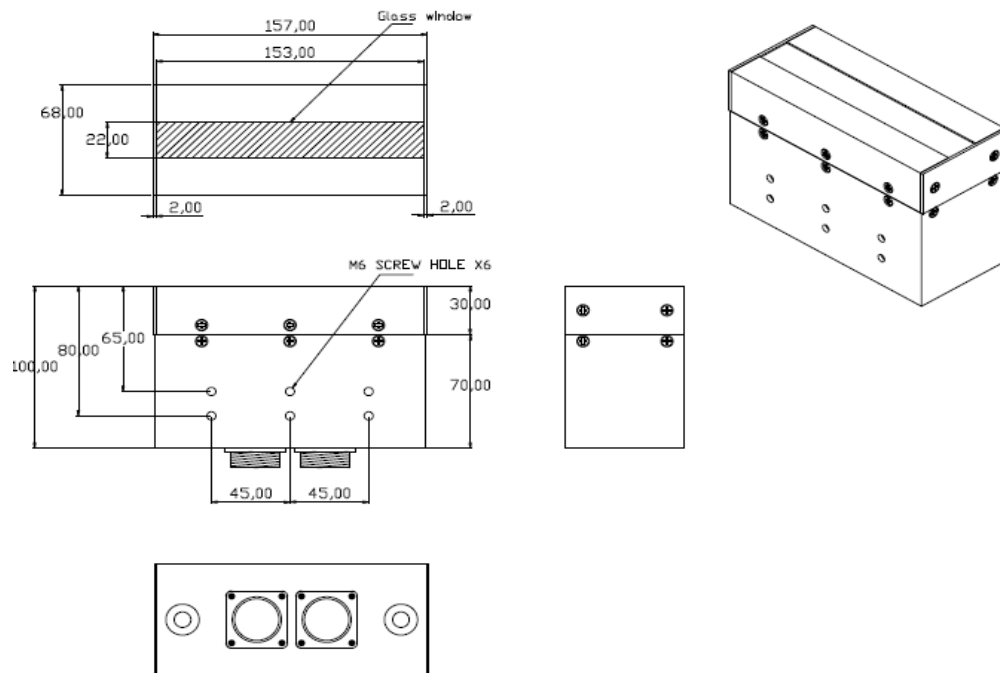
Parameter	Rating
Available Peak Wavelengths	380-390nm 390-400nm 400-410nm
Emitting Window Areas	153mm x 22mm
Lamp Dimension	157mm x 68mm x 100mm
Output Channel	12 channels
Input Voltage per channel	DC 25V typ.
Input Current per channel	DC 5A
Power Consumption	1500W
Electrical Connector	PLS-2812-RM-R * 2 , 12Pin
Weight	2.5Kg
Cooling Type	Water Cooling
Water Pipe diameter	3/8"
Warranty	1 year

Notes :

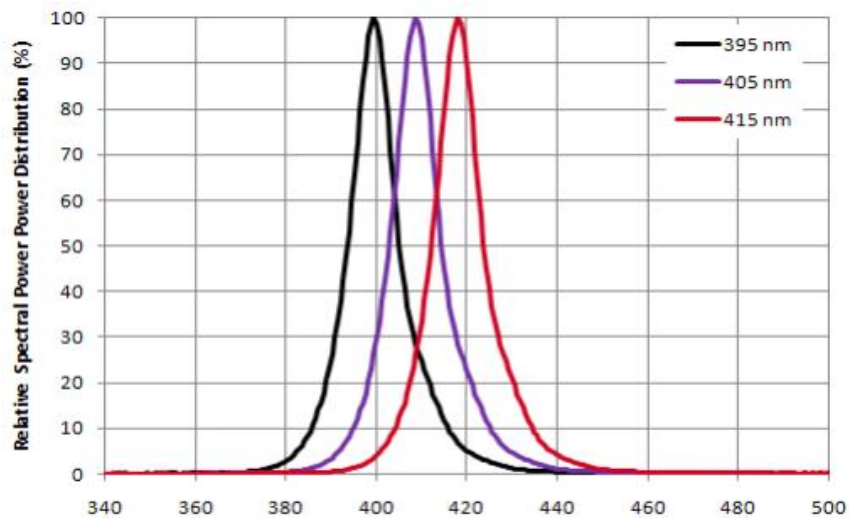
1. The peak wavelength is measured with an accuracy of ± 1 nm.
2. The lamp only applied with constant current input power source.
3. Peak Irradiance refers to the limits and set up of Lumeniche testers. All other measurement data are defined as long-term production mean values and are only given for reference.
4. Irradiance is measured with EIT UVICURE PLUS II in UVV program. Due to the meters vary by the brand and model. Lumeniche did not guaranty the variation of meters.
5. Warranty only valid by Lumeniche approval operation condition.

2. Mechanical Dimensions

UV LED Lamp

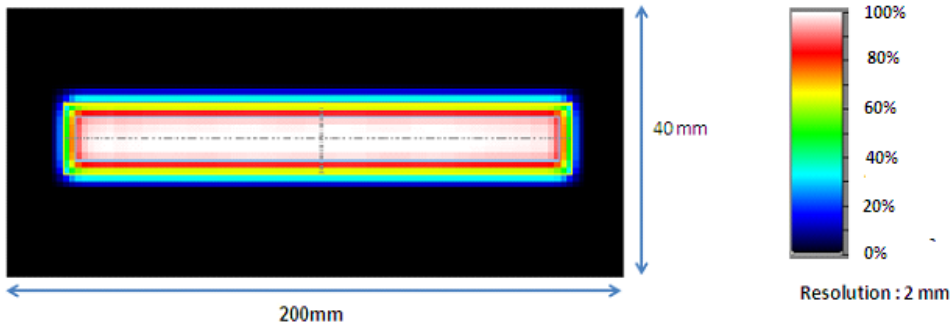


3. Typical Relative Spectral Power Distribution

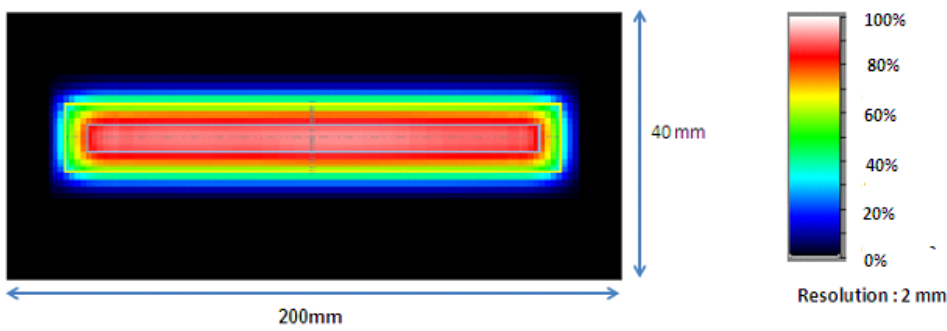


4. Relative Irradiance Distribution

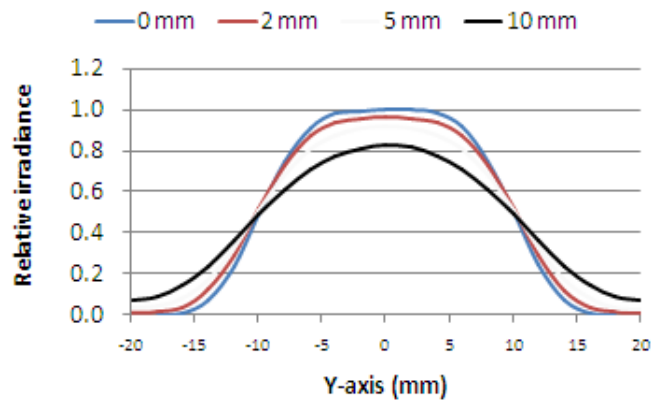
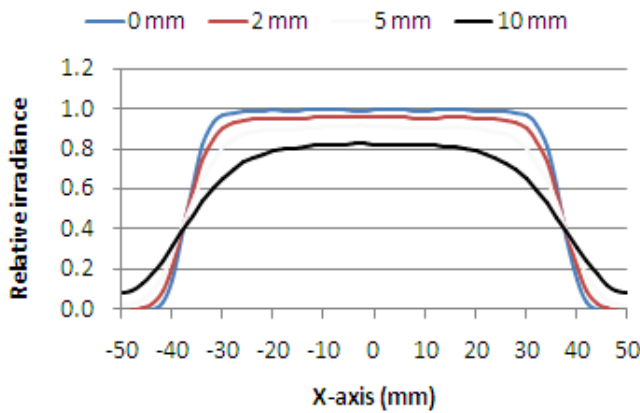
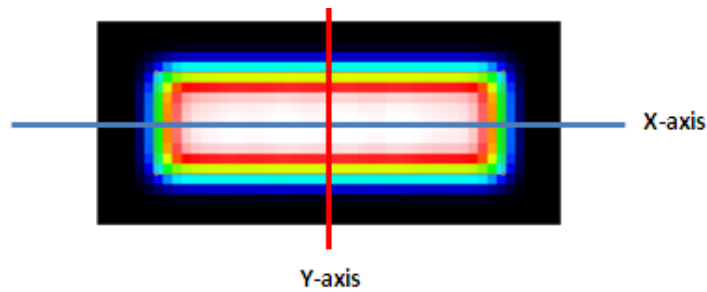
Distance: 0mm



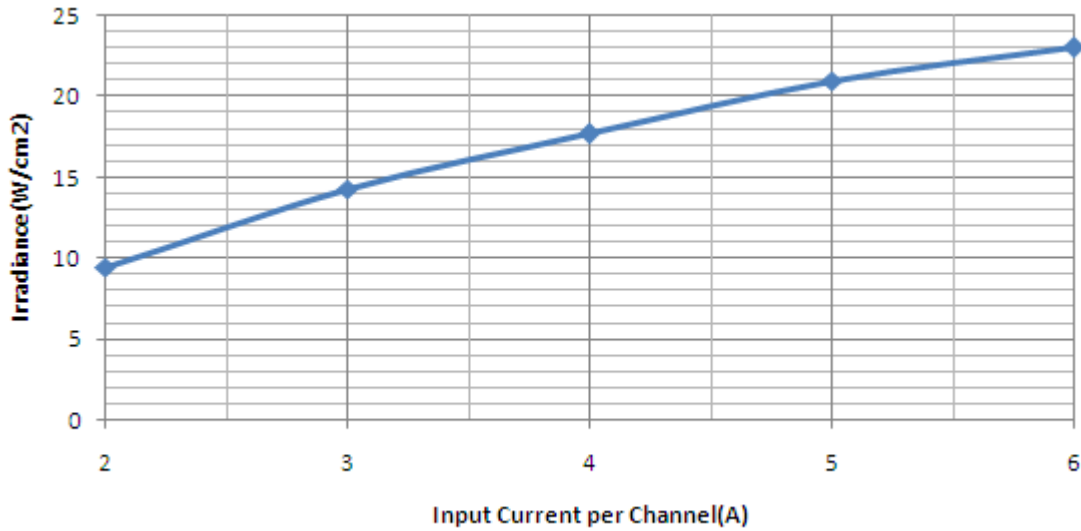
Distance: 5mm



5. Light Distribution

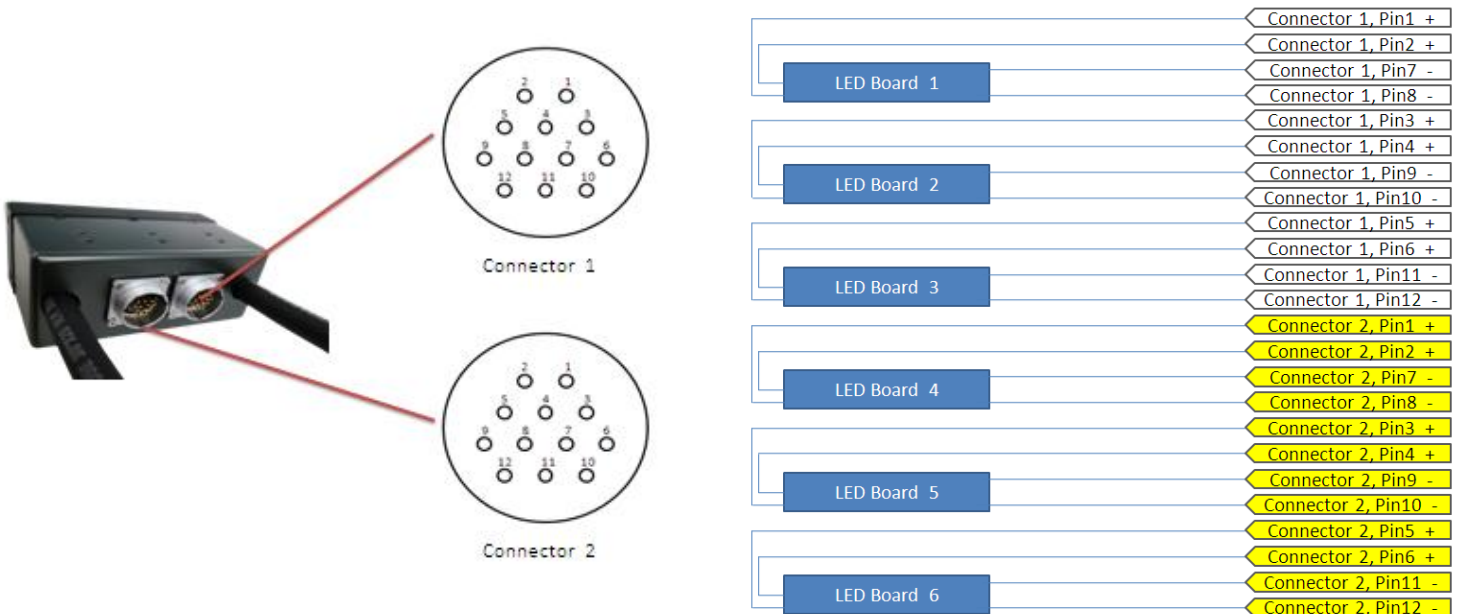


6. Typical Current vs. Irradiance Characteristics



Note: Irradiance is measured with EIT UVICURE PLUS II in UVV program

7. LED Lamp Routing



8. Safety Precautions



The UV LED lamp product emits a strong UV light in the UVA range. It is strongly recommend to use the appropriate eye and body protection while using the product and to follow the recommended safety and handling precautions.

- Do not look directly into the UV lamp when it is operating.
- Always wear a UV-proof face shield and cover all exposed skin.
- Always turn off the device and unplug the power cord before cleaning.
- After cleaning, store the lamp in a clean, dry and cool place without dust and steam.
- Do not block the air cooling outlets.
- Keep the lamp dry at all times.
- For indoor use only.
- Do not attempt to repair the product.