

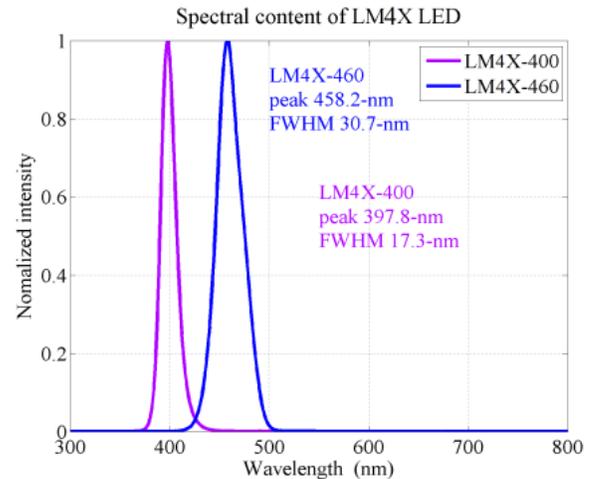
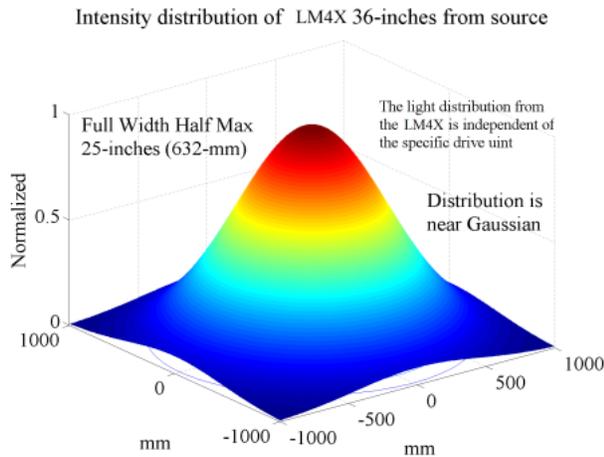
Lifetime 4-inch Air-Cooled LED Light Source

(Product ID: LM4X-DMHP-XXX)

The lifetime 4-inch, air-cooled LED light source provides uniform, stable illumination, for pressure and temperature sensitive paint measurements. The LED is designed for lifetime acquisition systems. The system is overdriven, giving it a higher peak power per pulse than the continuous LED equivalent. Pulse width and frequency are set by sending an external TTL signal to the BNC trigger input. Because it is overdriven, the duty-cycle is limited to 5%. The maximum pulse width is limited to 1-ms. A governor circuit in the system prevents the system from exceeding 5% duty cycle, which could damage the LED. These units supercede the LM2X-DMHP-XXX LEDs as they offer a 3X increase in power, 5X faster rise and fall times for pulsed operation, and increased temperature range of operation. The light distribution from the unit is approximately Gaussian for distances greater than 18-inches [45-cm] from the source. The units are available in 400-nm and 460-nm packages, however, other wavelenths are available upon request.



Ordering information: LM4X-DMHP-XXX (LED head with short-pulse/high-power driver –XXX denotes wavelength)



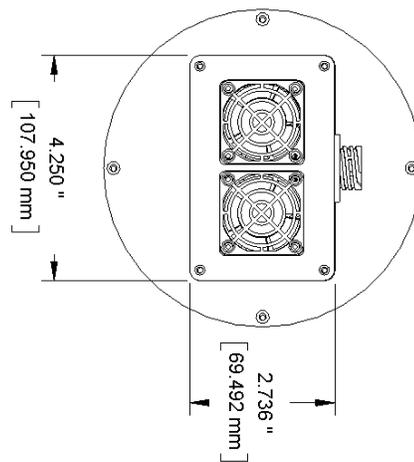
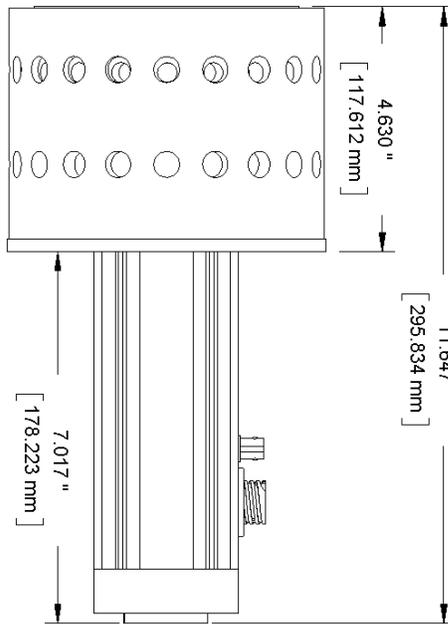
SPECIFICATIONS

| | |
|------------------------------|------------------------------|
| Optical Power | 3.0 W |
| Input | 36V === 5A |
| Stability | ~0.2 % per hour after warmup |
| Wavelength | 400-nm, 460-nm |
| Rise time (10% - 90%) | < 500 ns |
| Fall time (90% - 10%) | < 500 ns |
| Maximum Duty Cycle | 5% |
| Operating Temperature | -10°C to 60°C |
| FWHM | +/- 18-nm |
| ECCN | EAR99 |

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