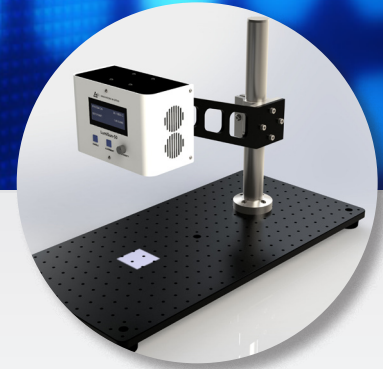




LumiSun™-50 Class AAA LED Solar Simulator



The LumiSun-50 is a high power, multi-wavelength LED solar simulator that meets IEC 60904-9 Class AAA for spectral match, uniformity of irradiance, and temporal stability. Primary applications for the LumiSun-50 are terrestrial photovoltaic testing and PV research.

The LumiSun-50 achieves a spatially uniform illumination field by combining our chip-on-board (COB) LED technology with efficient, non-imaging, homogenizing optics and a precision re-imaging lens system. The field of illumination is 50 x 50 mm at a working distance of 183 mm. The LumiSun-50 includes a driver/controller which individually provides constant current to each die in the COB array.

The LED light source of the LumiSun-50 is contained within an air-cooled housing that can rotate the angular beam alignment. Adjustment and setting of the optimum light path working distance is visually facilitated by a converging pair of red dot laser pointers.

Features and Benefits:

- IEC Class AAA
- 50 X 50 mm illumination area
- Irradiance levels from 0.1 to 1.1 suns
- Variable beam output direction
- Instant on
- Long LED lifetime
- Low power, low heat
- Mercury and ozone free

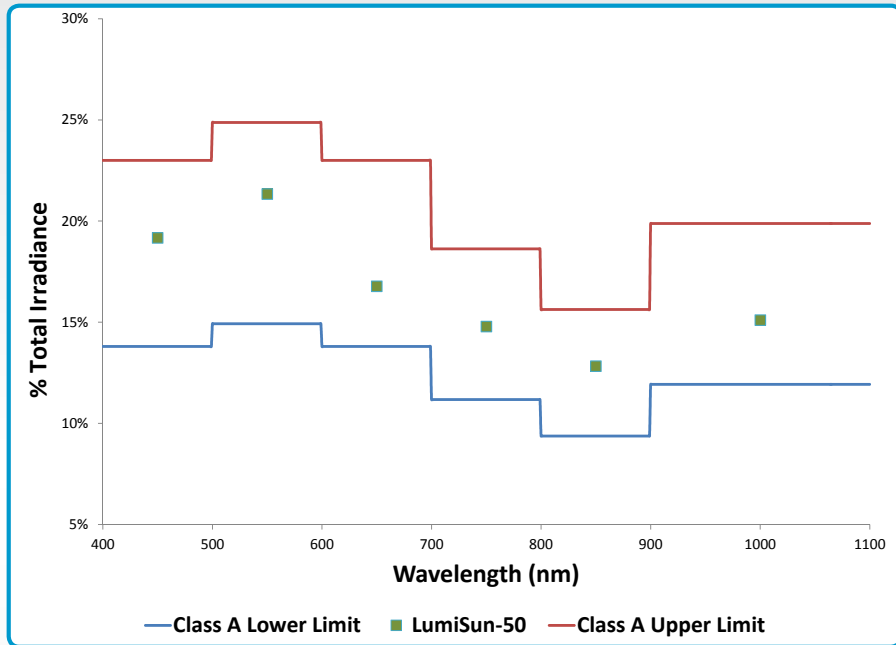
Included Components:

- LumiSun-50 LED Solar Simulator
- Driver/controller
- Cables
- Variable height adjustment mount
- Optical breadboard baseplate

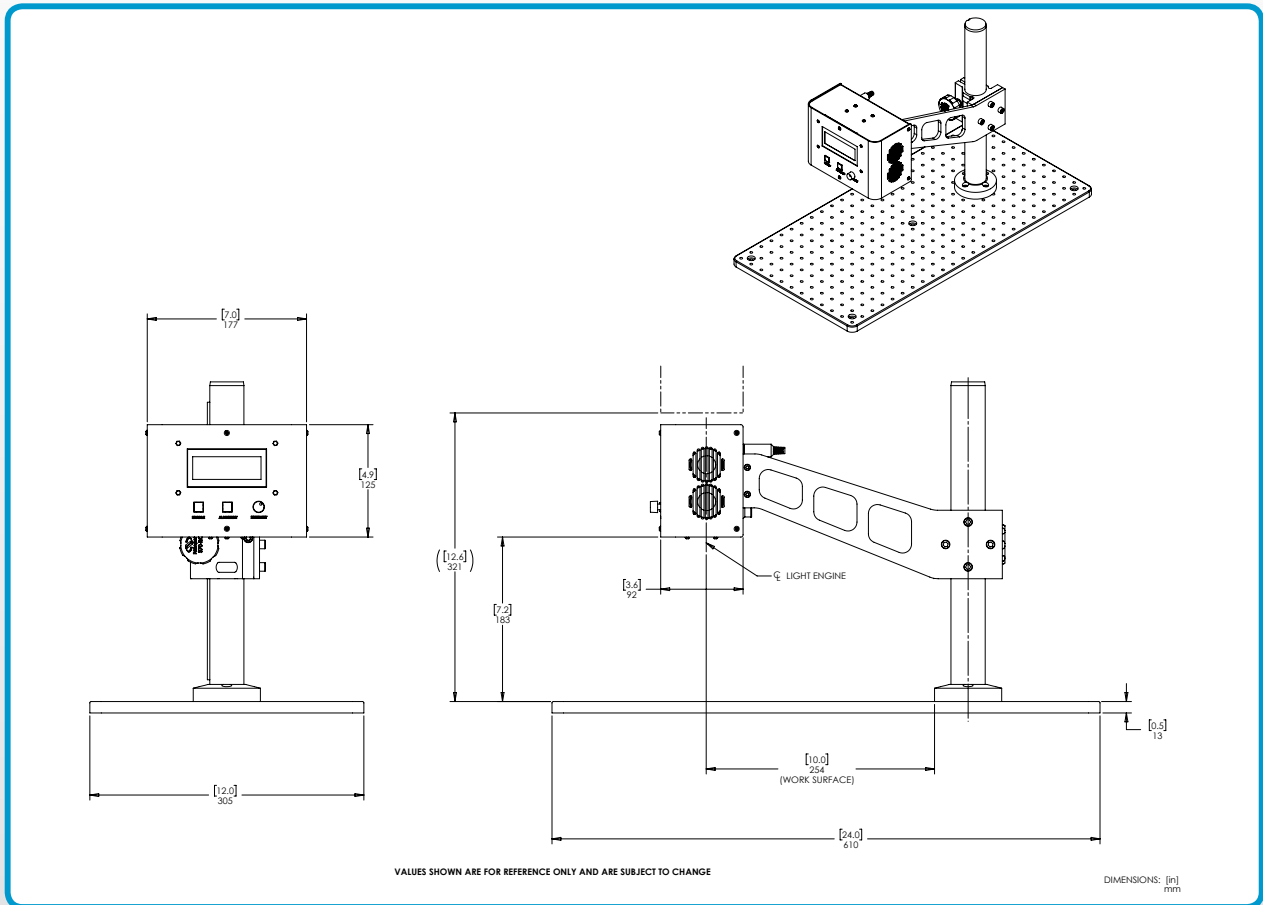
SPECIFICATIONS

Parameter	Specification	Comment
Solar simulator class	AAA	IEC60904-9 2007
Illumination area	2 inches x 2 inches (50 mm x 50 mm)	At working distance
Working distance	183 mm	Beam aperture to test surface
Total irradiance	1.1 suns	Dimmable to 0.1 suns
Dimensions	177W x 125H x 92D (mm)	Without mounting hardware
Weight	2 Kg	Without mounting hardware
Power input	Universal AC	<200W power consumption
Lifetime (Hours)	10,000 Hours	Typical

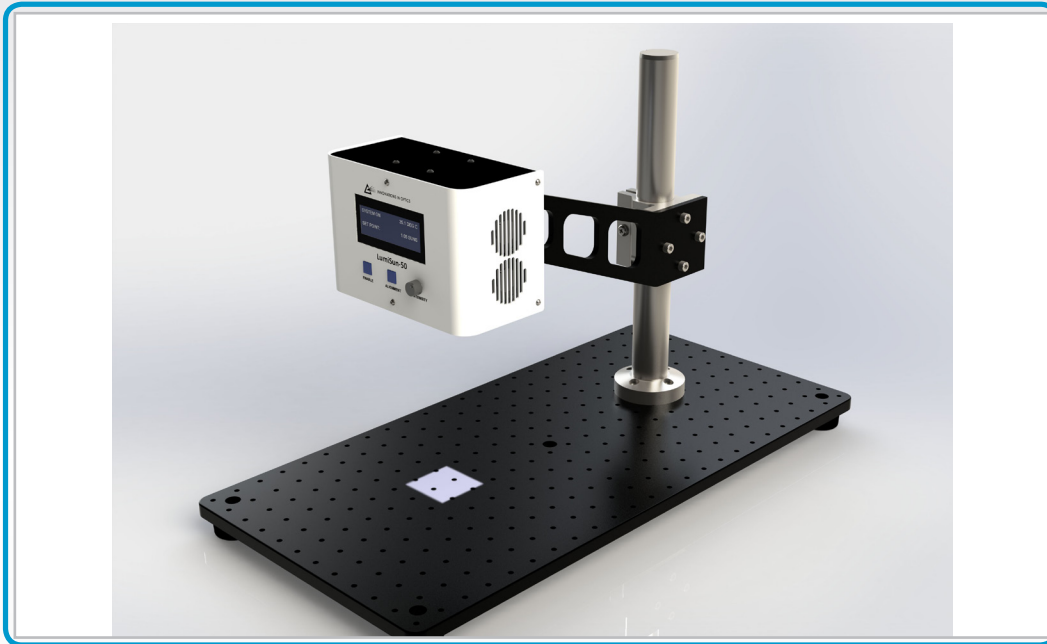
CLASS A SPECTRAL MATCH



DIMENSIONS



LUMISUN-50 CLASS AAA LED SOLAR SIMULATOR



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