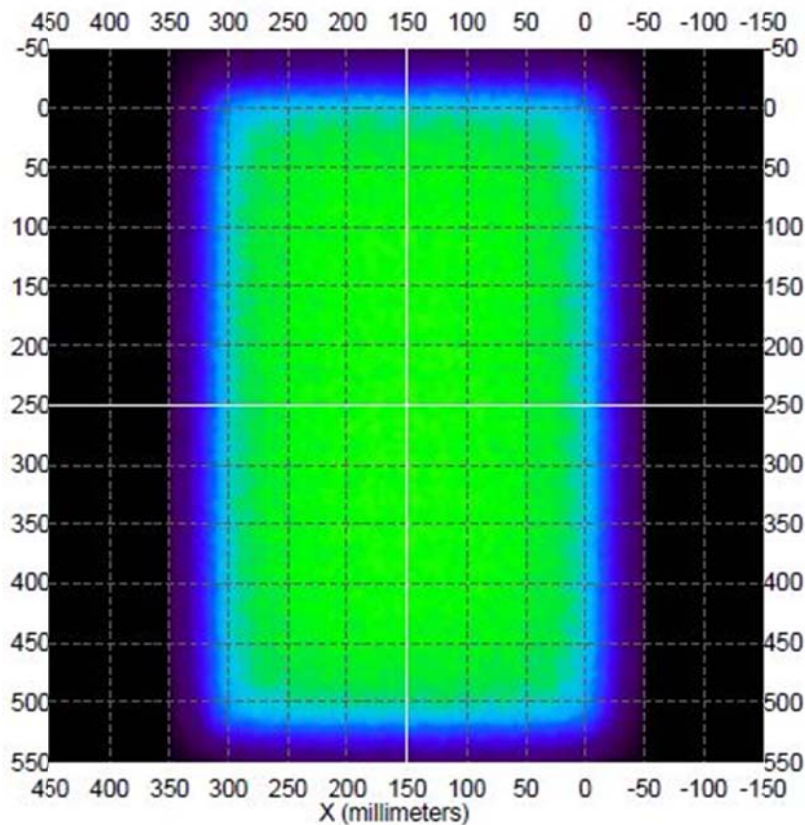


Requirements:

1. UVA LED light source
2. Irradiated area 280mm x 480mm
3. Distance to object 35 mm ~ 50 mm
4. Forced Air cooling
5. Driving Unit

Simulation results:

Green area shows the desired result for the intensity requirement acquired from earlier experiments. The distance from the light source to object was set to 40mm.



Power requirements:

1. Three 220V input AC /DC units
2. One driving unit included to drive all the LEDs
3. Max power consumption is about 1,000Watt

Outlooks:

The whole lighting module comprised of six smaller elements that provides easier capability of replacing faulty parts after long running time. Twelve fans were used to ensure enough cooling airs and durability.

