

# Full Body Light Therapy Chamber

Project overview of using a converted tanning bed to become an 850nm & 660nm full body light therapy chamber.

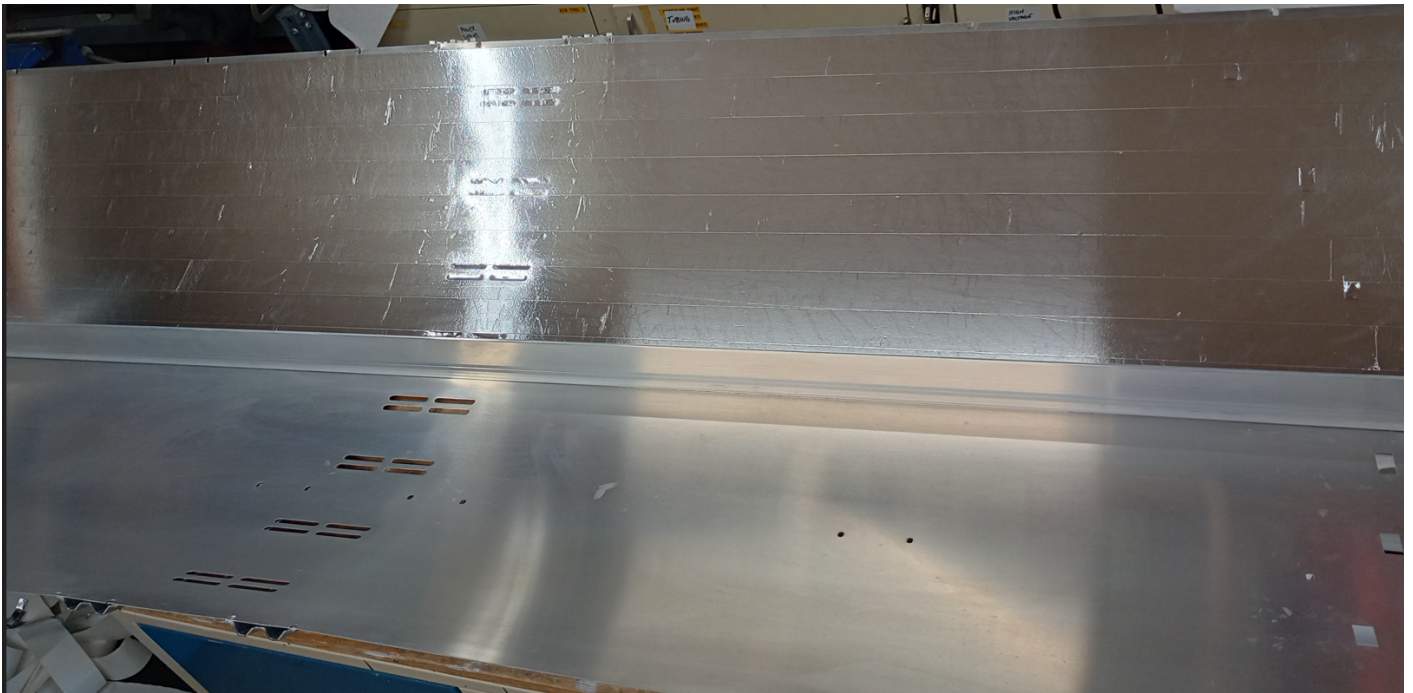
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# Layout / Reflectivity

# Layout & Increasing Reflectivity

Last updated 12-26-2024

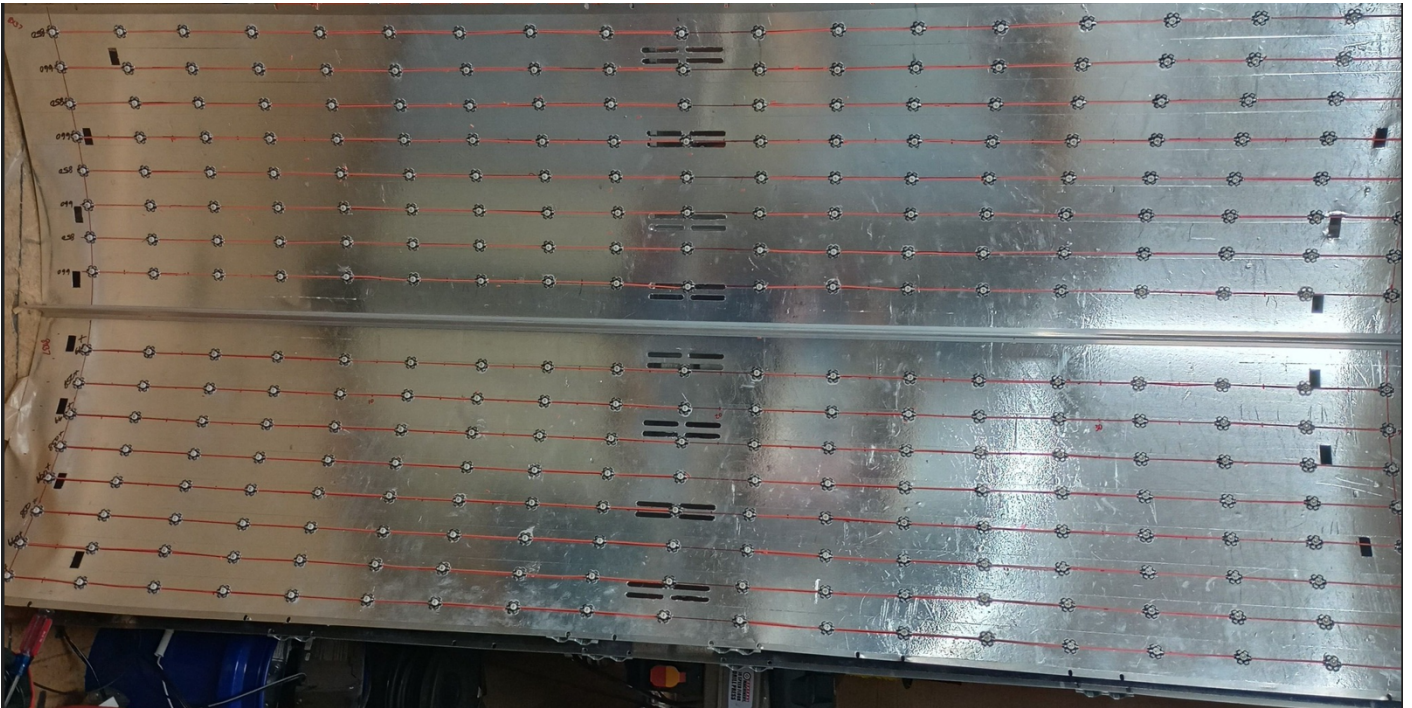
Aluminum half sections don't provide good reflection. Addition of HVAC aluminum foil duct taping increased reflectivity without sacrificing heat conduction.



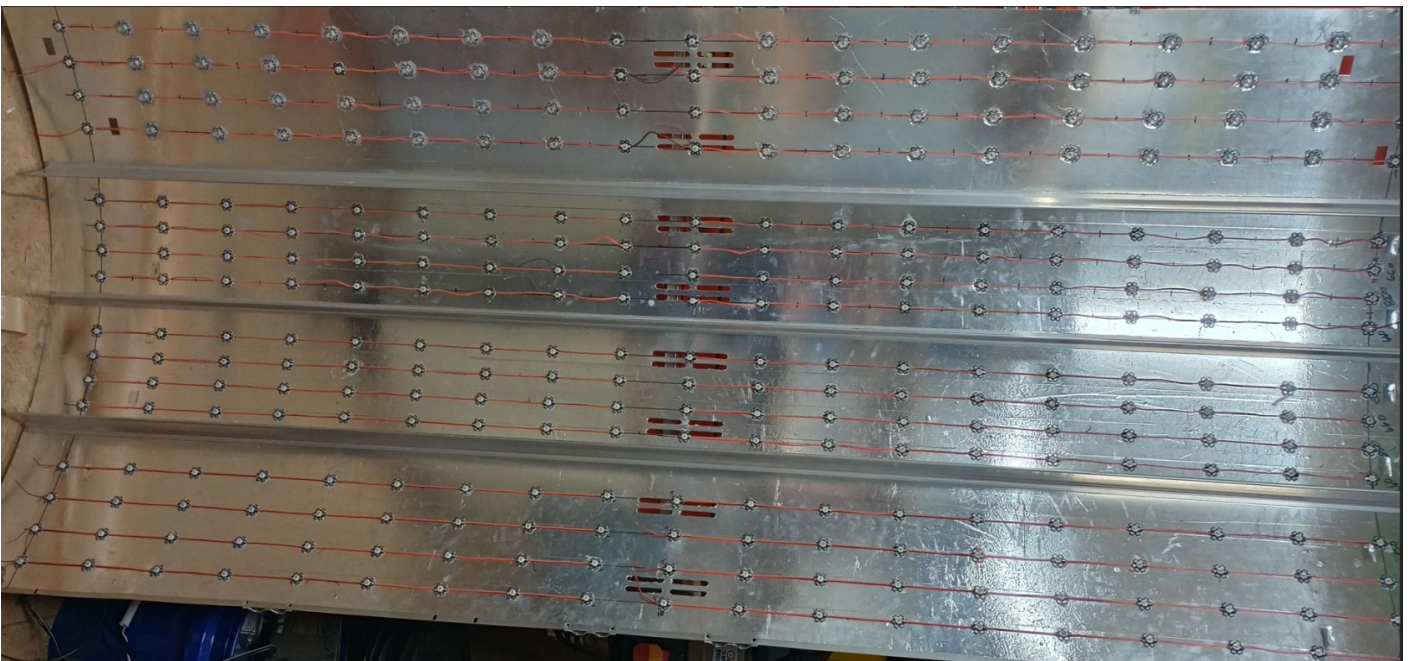
LEDs are spaced 4" on centers, corresponding to the focusing lens degree angle (120). Given large aluminum behaves as a heatsink, LEDs will be super glued directly to aluminum tape. In the event an LED goes bad, or needs replaced, tape should easily peel off and allow replacement.

## **TOP SECTION:**





## **BOTTOM SECTION:**



To enhance cooling, four 12v computer fans were placed on each end piece as shown below. One side has fans orientated to pull air in, while opposite side fans push air outward, providing constant flow.

