

Irradiance Chart for Safezone 850 Max, 850 Max Plus, 850 CDC

Distance from unit*	Irradiance/Second uw/cm2 **	Exposure Time Required (Seconds) ***	Coverage Area****
1 foot	14850	3.2	3.5 ft x 3.5 ft
2 feet	3712	12.9	5.5 ft x 5.5 ft
3 feet	1650	29.1	7.5 ft x 7.5 ft
4 feet	928	51.7	9.5 ft x 9.5 ft
5 feet	594	80.8	11.5 ft x 11.5 ft
6 feet	412	116.5	13.5 ft x 13.5 ft
7 feet	303	158.4	15.5 ft x 15.5 ft
8 feet	232	206.9	17.5 ft x 17.5 ft
9 feet	183	262.3	19.5 ft x 19.5 ft
10 feet	148	324.3	21.5 ft x 21.5 ft
11 feet	122	393.4	23.5 ft x 23.5 ft
12 feet	103	466.0	25.5 ft x 25.5 ft

Considerations

* Distance from the unit is the surface distance from each side at the center of the lamp.

** Irradiance is measured via application of law of inverse square and at an optimal height of center of the lamp.

*** Exposure time is based off of total irradiance. The above calculations are based on 48mj total exposure. This level of exposure deactivates most organisms.

**** Coverage area is calculated based on the unit being in the center of the area. This coverage area factors in the size of the unit. To disinfect back side of object, be sure to run multiple disinfection cycles or run to longer cycle times. Use a UVC sensor or dosemeter to verify indirect calculations.

