

## Bolb Air Troffer Proof of Concept

### UVC-LED Air Troffer for optimum Air Disinfection

#### Main features:

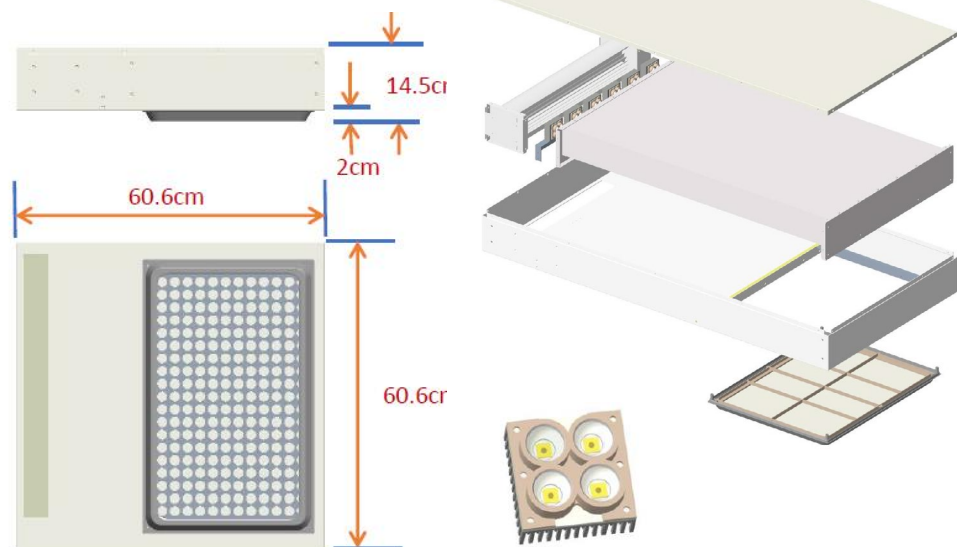
- 24 x Bolb S6060 265nm
- Available in 60x60cm, 60x120cm
- Ceiling, recessed or wall mounted
- L70 8000hrs
- No ozone generation
- No UVC exposure
- Tested and certified against Human Coronaviruses Surrogate SARS-CoV-2 229E and Staphylococcus aureus
- Up to 350CFM (CAGR), 594m<sup>3</sup>/hr
- 90 Watt total power
- Suitable for up to 100sqm room

265nm

L70  
8khrs

#### Targeted applications:

- Schools
- Hospitals
- Offices
- Elevators
- New Homes



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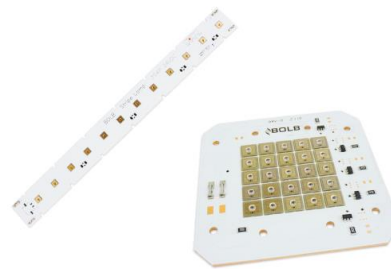
### Test Results

Number of Sample	Test Strain	Test Time (min)	Test Number	Control Group			Test Group		Eliminating Microbial Rate $K_t$ (%)
				Original Microbial Count $V_0$ (cfu/m <sup>3</sup> )	Microbial Count after Treatment $V_t$ (cfu/m <sup>3</sup> )	Natural Decay Rate $N_t$ (%)	Original Microbial Count $V_1$ (cfu/m <sup>3</sup> )	Microbial Count after Treatment $V_2$ (cfu/m <sup>3</sup> )	
KJ20220011-1	<i>Staphylococcus albus</i>	15	1	$1.18 \times 10^5$	$1.16 \times 10^5$	1.69	$1.19 \times 10^5$	$5.48 \times 10^2$	99.53
			2	$1.13 \times 10^5$	$1.11 \times 10^5$	1.77	$1.11 \times 10^5$	$7.24 \times 10^2$	99.34
			3	$1.07 \times 10^5$	$1.05 \times 10^5$	1.87	$1.19 \times 10^5$	$6.18 \times 10^2$	99.47
		Mean						99.45	
		30	1	$1.18 \times 10^5$	$1.14 \times 10^5$	3.39	$1.19 \times 10^5$	88	99.92
			2	$1.13 \times 10^5$	$1.09 \times 10^5$	3.54	$1.11 \times 10^5$	18	99.98
	3		$1.07 \times 10^5$	$1.03 \times 10^5$	3.74	$1.19 \times 10^5$	53	99.95	
	Mean						99.95		
	60	1	$1.18 \times 10^5$	$1.11 \times 10^5$	5.93	$1.19 \times 10^5$	<7	>99.99	
		2	$1.13 \times 10^5$	$1.07 \times 10^5$	5.31	$1.11 \times 10^5$	<7	>99.99	
		3	$1.07 \times 10^5$	$1.01 \times 10^5$	5.81	$1.19 \times 10^5$	<7	>99.99	
	Mean						>99.99		

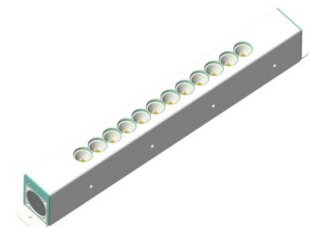
## BOLB YOUR ONE STOP SHOP FOR UVC LED DISINFECTION



**LEDs**



**Arrays**



**Modules**