

## 180° Direct Treatment Module

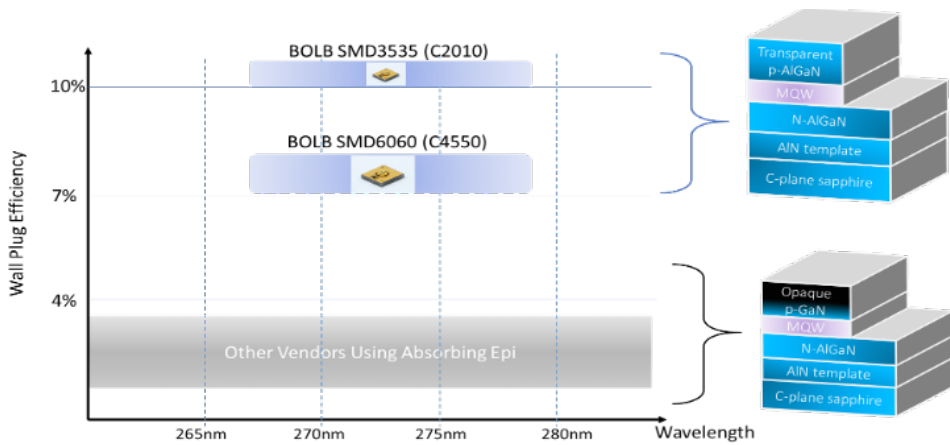
UVC is creating remarkable new outcomes in the battle to sustainably fight disease and pest pressure in agriculture. Radiare's breakthrough LED chip technology kills unwanted organisms with unrivaled precision by way of an optimally effective 265 nm peak wavelength. Used by itself, or in concert with traditional techniques, no other solution delivers better results with a lower environmental impact.



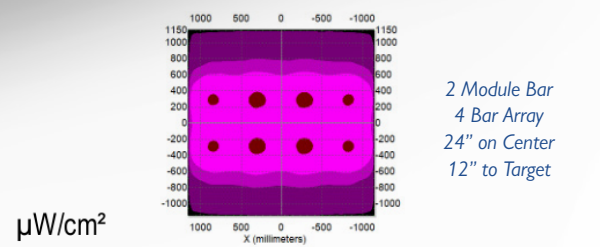
**2 Module Option (LOW DENSITY)**  
 Part Number (High Voltage): HPB2XS6060/45/120-305V(0-10)  
 Part Number (Low Voltage): HPB2XS6060/45/12VDC w/Rotary Dimmer  
 High Power 2-LED S6060 45" Bar | (0-10V) Control, Wattage < 7

**3 Module Option (MEDIUM DENSITY)**  
 Part Number (High Voltage): LPB3XS6060/45/120-305V(0-10)  
 Part Number (Low Voltage): LPB3XS6060/45/12VDC w/Rotary Dimmer  
 High Power 3-LED BOLB S6060 45" Bar | (0-10V) Control, Wattage < 11

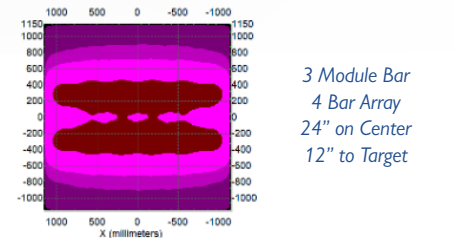
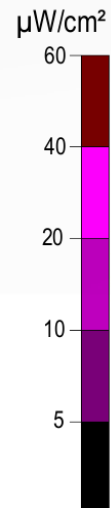
**6 Module Option (HIGH DENSITY)**  
 Part Number (High Voltage): LPB6XS6060/45/120-305V(0-10)  
 Part Number (Low Voltage): LPB6XS6060/45/12VDC w/Rotary Dimmer  
 High Power 6-LED BOLB S6060 45" Bar | (0-10V) Control, Wattage < 22



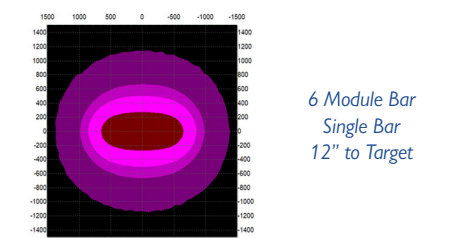
## Spectral Power Distribution



2 Module 180° (μW/cm²)		Horizontal			
		900mm	600mm	300mm	0mm Bar I
Vertical	300mm	2	5	17	34
	600mm	1	3	10	15
	900mm	1	2	5	7



3 Module 180° (μW/cm²)		Horizontal			
		900mm	600mm	300mm	0mm Bar I
Vertical	300mm	4	10	26	43
	600mm	3	7	14	19
	900mm	2	5	8	9



6 Module 180° (μW/cm²)		Horizontal			
		900mm	600mm	300mm	0mm Bar I
Vertical	300mm	9	21	39	56
	600mm	6	15	21	25
	900mm	5	10	11	12

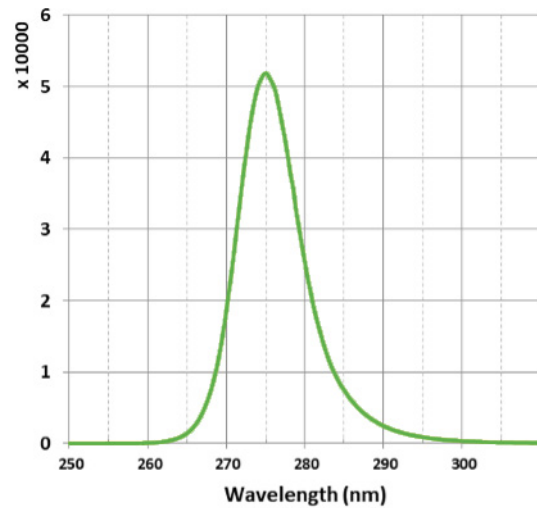
# Kill Matrix

	Two Spotted Spider Mite (eggs)	Grey Mold	Powdery Mildew	Aspergillus 4-Log	Anthracnose	
<b>Latin Name</b>	Tetranychus urticae - Eggs	Botrytis Cinerea Condida	Podosphaera aphanis	Flavus & Alternaria Japonika	Bacillus anthracis Sterne	
<b>Study</b>	Montemayor, et al.	Wojciech J. Janisiewicz	Rodrigo B. Onofre	PM ID: 29959245	Gabriel Chevretils	
<b>Calculated Kill Times (hours)</b>						
<b>Irradiance, <math>\mu\text{W}/\text{cm}^2</math></b>	<b>100.00</b>	0.10	0.00	0.02	0.02	0.08
	<b>30.00</b>	0.32	0.01	0.08	0.21	0.28
	<b>10.00</b>	0.97	0.03	0.24	0.67	0.83
	<b>5.00</b>	1.94	0.07	0.47	1.39	1.67
	<b>1.00</b>	9.72	0.34	2.36	4.44	8.33

\* Sampling of published studies, results of dosage required to neutralize target organisms. Consult factory for detail.

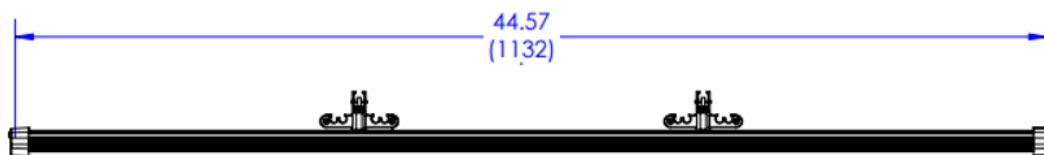
## Electrical Specs

- + 24V DC UL
- + Class P Industrial Grade Driver
- + Input Voltage: 90~305Vac
- + High Efficiency Industrial LED Driver: ~93%
- + Built-in Active PFC Function >98% / Full load
- + Dimming Function: 0.5V-10V  
with Dim-to-Off capability
- + Reliability Protection:  
OVP, SCP, OTP, and 10KV Surge Protection
- + Safety Regulation:  
UL8750, UL8800 & EN61347, DLC
- + Waterproof Rating: LED Power Supplies,  
Lightbars: IP65



Peak germicidal effectiveness at 275 nm.

2x more efficient than other technologies.



**IMPORTANT SAFETY INFORMATION:** UVC products are considered harmful to humans, plants and animals and other organic materials when exposure exceeds recommended dosage. The user is responsible for taking all measures to reduce exposure or otherwise protect any and all materials that may experience unplanned exposure to the energy from these products. DemeGrow makes no representation as to the specific performance or safety of these products.