

# VARIUS LED Series

## 90W Red Spectrum LED Linear Grow Light

### FEATURES

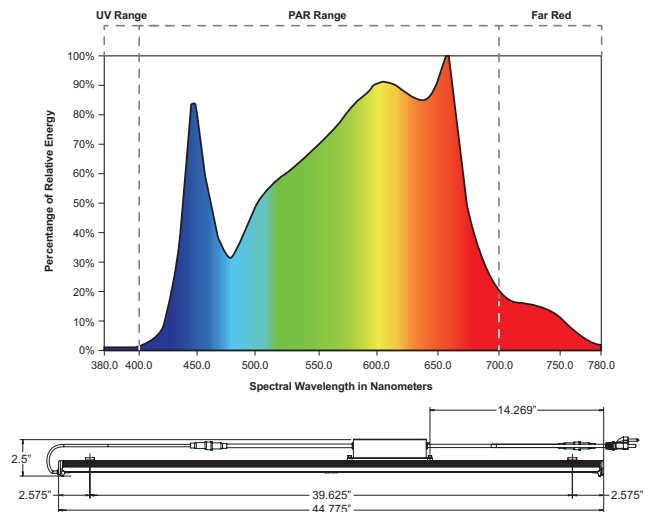
- Broad spectrum white LED with enhanced red spectral performance ideal for flowering and fruiting cycles
- Listed to UL8800
- Over 78% of light intensity concentrated within a 120 degree beam angle
- Low-profile design combined with unique magnet mounting is a perfect solution for horticultural rack systems
- LED light bar is IP65 rated and the driver is IP67 rated
- 90W of energy consumption, 0.75A draw @ 120VAC
- Modular design ensures even light distribution across the plant canopy optimizing uniformity in flowering plants
- Compatible with seismic bracing systems

### SPECIFICATIONS

<b>Number of Bars</b>	Single Bar*	8 Bars**
<b>PPF (400-700nm) <math>\mu\text{mol/s}</math></b>	178	1,424
<b>PPF Efficacy (400-700nm) <math>\mu\text{mol/J}</math></b>	2.01	
<b>Lumens</b>	10,300	82,400
<b>CRI</b>	$\geq 90$	
<b>Mounting Height</b>	12" to 36"	
<b>Coverage Area</b>	Up to 1' x 4' (4 sq ft)	Up to 4' x 8' (32 sq ft)
<b>Power Consumption</b>	90W	720W
<b>Input Voltage</b>	120-277 VAC	
<b>Amps @ 120V</b>	0.75A	6.0A
<b>Amps @ 240V</b>	0.38A	3.0A
<b>Amps @ 277V</b>	0.33A	2.7A
<b>Operating Frequency</b>	50/60Hz	
<b>Operating Temperature</b>	-20°C to 40°C (-4°F to 104°F)	
<b>Dimming</b>	1-10V	
<b>IP Rating</b>	IP65 (Bar), IP67 (Driver)	
<b>Power Factor (PF)</b>	$\geq .99$	
<b>Lifetime Rating (L70)</b>	50,000 hrs @ 55°C	
<b>Certifications</b>	ETL / UL8800	

\* Single Bar mounted 12" above canopy.

\*\* Typical Fruit/Flower Application with eight (8) AG90-R bars spaced 4" apart and mounted 12" above canopy.



### WEIGHTS

Model	Unit	Packaged Weight
AG90-R-001	4.5 lbs (2.0kgs)	6.0 lbs (2.7kgs)

### ORDERING INFORMATION

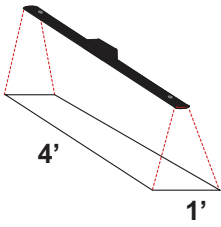
Example: AG90-R-001

Series/Configuration	Description
AG90-R-001	LED Light Bar, Red Flower Spectrum, 90W, 120-277VAC Input, 1-10V Dimming, Black Extrusion w/Red End Caps and Driver Connectors, 120VAC Straight Blade Line Cord
	<b>Accessories</b> *Order as separate
	AG-240-LC = 240VAC Straight-blade (NEMA 6-15P) Line Cord, 5' Length, for use with AG90 Bars or AC Supply Harness
	AG-277-L-LC = 277VAC Twist-lock (NEMA L7-15P) Line Cord, 5' Length, for use with AG90 Bars or AC Supply Harness
	AG-8-H = Multi-port, 16AWG, AC Supply Harness for Linking up to Eight (8) Bars

\*Consult factory for additional accessories

**PERFORMANCE 12" ABOVE THE CANOPY  
RACK SYSTEM APPLICATION**

**SINGLE BAR\***



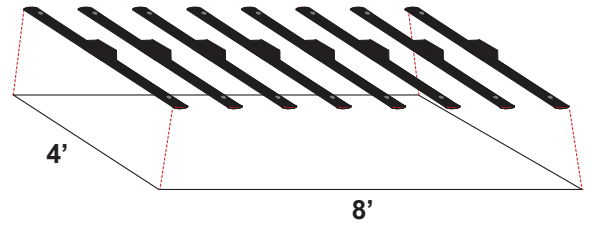
**COVERAGE AREA**  
1' X 4' (4 sq ft)

Number of Bars	Single Bar*	8 Bars**	
Light Uniformity	2.23	2.56	avg/min
Light Uniformity	3.66	3.41	max/min
PPFD Max (400-700nm)	189	723	μmol/m <sup>2</sup> /s
PPFD Min (400-700nm)	52	212	μmol/m <sup>2</sup> /s
PPFD Avg (400-700nm)	115	544	μmol/m <sup>2</sup> /s

\* Single Bar mounted 12" above canopy.

\*\* Typical Fruit/Flower Application with eight (8) AG90-R bars spaced 4" apart and mounted 12" above canopy.

**8 BARS\*\***

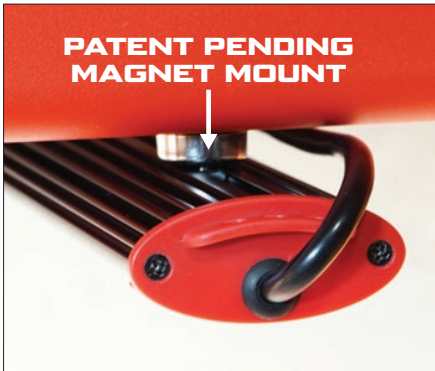


**COVERAGE AREA**  
4' X 8' (32 sq ft)

**RACK DETAIL**



**MAGNET MOUNT**



**SAFETY CABLE**



**AG-240-LC**



**AG-277-L-LC**



**AG-8-H**



Specifications are subject to change without notice.  
Installation must be performed in accordance with  
Barron Lighting Group installation instructions.