

## 4 GROWTH STAGES/AREAS

Greenhouse  
Vegetative  
Clone / Nursery  
**Flower / Bloom**



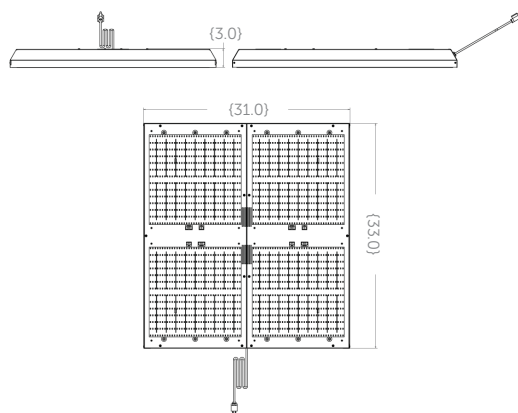
## FEATURES

- Made in the USA
- Industry leading performance
- Industry standard footprint
- Fully customizable to suit individual growing styles
- Natural white light
- 2700-5000 tunable spectra/red-blue-UV mix
- 385nm/660nm kicker
- White powder coated aluminum housing
- UL 8800 horticultural approval
- Patented Spectrum patent #9820447

## WARRANTY & LISTINGS

- cULus listed for horticultural damp locations not exceeding a maximum ambient temperature of 25°C
- 5-year warranty of all electronics and housing

## DIMENSIONS



## ORDERING INFORMATION

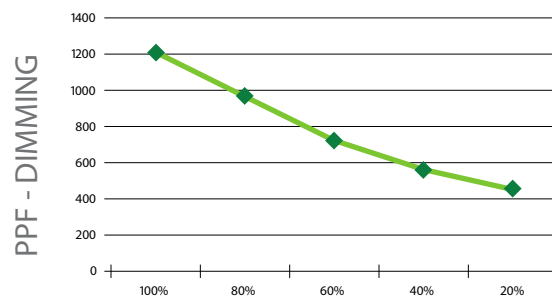
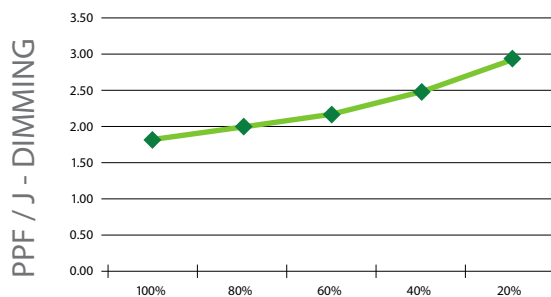
Example: BLOOM-600-BU-ST

Series	Wattage	Spectrum	Input Voltage	Cord
BLOOM	600 (standard)	BX = 27/40 (no kicker) BU = 27/40 w/UV kicker UX = 30/50 (no kicker) UU = 30/50 w/UV kicker UR = 30/50 w/Red kicker	ST = 90-305V (standard) HV = 180-528V	# = Cord Length (10' standard, 15' option) #W = Whip (no plug) #N5 = 5-15P #N6 = 6-15P (standard) #L7 = L7-15P

## SPECIFICATIONS

Light Source	LED
Spectra	Patent #9820447
Efficacy (554.5W)	>2.284 $\mu\text{mol}/\text{J}$
PPF (600W)	1294.43 $\mu\text{mol}/\text{sec}$
Input Power	554.5 WATTS @ 277V
Input Voltage / Current (600W)	120 @4.69A   240 @2.31A   277 @2.05A
Dimensions l/w/h/weight	33 / 3 / 31 / 22lbs
Mounting Height	>12 inches above canopy
Operating Temperature	0F ~ 90F
Thermal Management	PASSIVE CONVECTION
Dimming	0-10V / PWM / MANUAL PRESET
Lifetime per TM21 L70 / L90	80K hrs / 35K hrs
Warranty	5 Year Standard Warranty

## DIMMING CURVES



## SPECTRUM DISTRIBUTION

	Wavelength Range [nm]	Photon Flux [ $\mu\text{mol}/\text{sec}$ ]	Total Photon Flux / % of Total
<b>UV</b>	350 - 359	0.625651	<b>9.2725 <math>\mu\text{mol}/\text{sec}</math> 0.69%</b>
	360 - 369	0.800955	
	370 - 379	1.627003	
	380 - 389	3.767205	
	390 - 399	2.451664	
<b>Blue</b>	400 - 409	1.825497	<b>175.1253 <math>\mu\text{mol}/\text{sec}</math> 12.95%</b>
	410 - 419	2.015009	
	420 - 429	3.966519	
	430 - 439	9.853078	
	440 - 449	27.601969	
	450 - 459	42.109944	
	460 - 469	27.084058	
	470 - 479	18.898831	
	480 - 489	18.200139	
	490 - 499	23.570288	
<b>Green</b>	500 - 509	31.432591	<b>568.9718 <math>\mu\text{mol}/\text{sec}</math> 42.06%</b>
	510 - 519	37.966084	
	520 - 529	42.743426	
	530 - 539	46.709885	
	540 - 549	51.093810	
	550 - 559	56.708269	
	560 - 569	63.777743	
	570 - 579	71.897385	
	580 - 589	80.180437	
	590 - 599	86.462133	
<b>Red</b>	600 - 609	88.972605	<b>549.6901 <math>\mu\text{mol}/\text{sec}</math> 40.64%</b>
	610 - 619	86.982072	
	620 - 629	80.774212	
	630 - 639	71.454656	
	640 - 649	60.639745	
	650 - 659	49.674213	
	660 - 669	39.519928	
	670 - 679	30.686670	
	680 - 689	23.389915	
	690 - 699	17.596079	
<b>Far Red</b>	700 - 709	13.101750	<b>47.5287 <math>\mu\text{mol}/\text{sec}</math> 3.51%</b>
	710 - 719	9.688685	
	720 - 729	7.144458	
	730 - 739	5.242123	
	740 - 749	3.845150	
	750 - 759	2.832258	
	760 - 769	2.093601	
	770 - 779	1.553063	
<b>IR</b>	780 - 789	1.156400	<b>2.128 <math>\mu\text{mol}/\text{sec}</math> 0.16%</b>
	790 - 799	0.871183	
	800 - 809	0.661418	
	810 - 819	0.504010	
	820 - 829	0.392322	
	830 - 839	0.306878	
	840 - 850	0.263364	

