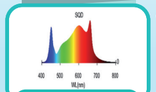
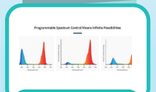
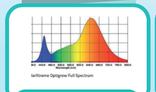
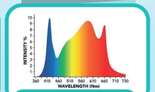
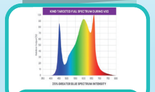
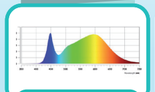
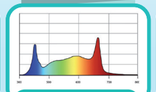
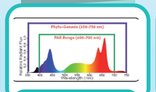
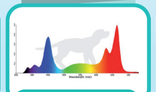
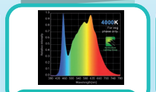
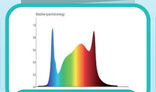
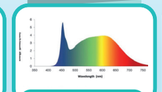
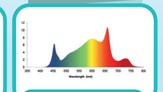
LED GROW LIGHT COMPARISON CHART 350 W - 500 Watts

	Advance Spectrum 400W Sun Series 4-Bar	California Light Works SolarSystem 550	California Light Works SolarXtreme 500	Grower's Choice ROI-E420	Kind LED 420W X420	NextLight 420W Home Series 420h	Photontek 465W X Pro	Black Dog LED 410W PhytoMAX-3 8SC	Black Dog LED PhytoMAX-2 400	Horticulture Lighting Group HLG 550 V2 ECO	ChiLED Tech Growcraft X3 – 500W	Phantom 440W Pheno 100-277V MP	Spectrum King LowPro Veg	Spectrum King LowPro Flower
Price	$ 599	$ 849	$ 469	$ 699	$ 715	$ 549	$ 799	$ 1299	$ 979	$ 649	$ 749	$ 599	$ 649	$ 997
Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Full Spectrum	Veg	Flower
Wattage Draw	400 Watt	400 Watt	400 Watt	420 Watt	420 Watt	420 Watt	465 Watt	410 Watt	420 Watt	480 Watt	500 Watt	440 Watt	434 Watt	657 Watt
HID Equivalent	600 Watt	600 Watt	600 Watt	800 Watt	600 Watt	800 Watt	600 Watt	600 Watt	600 Watt	1000 Watt	600 Watt	600 Watt	1000 Watt	1000 Watt
Light Output Total PPF	1080 µmol/s	900 µmol/s	800 µmol/s	1090 µmol/s	1071 µmol/s	1092 µmol/s	1256 µmol/s	874 µmol/s	641 µmol/s	1200 µmol/s	1225 µmol/s	1100 µmol/s	834 µmol/s	1366 µmol/s
Veg Footprint	4' x 5'	6' x 6'	4' x 4'	4' x 4'	2' x 4'	5' x 5'	4' x 4'	6.25' x 6.25'	5.25' x 5.25'	6' x 6'	4' x 6'	5' x 5'	4' x 4'	4' x 4'
Flower Footprint	4' x 4'	4' x 4'	4' x 4'	3' x 3'	2' x 4'	3' x 3'	3' x 3'	5.0' x 5.0'	4.25' x 4.25'	4' x 5'	3' x 5'	4' x 4'	4' x 4'	4' x 4'
Reccommended Height above plant	6 - 24"	6 - 24"	24"	6 - 24"	12"	6 - 24"	6 - 24"	6 - 24"	30 - 38"	22 - 32"	12 - 24"	6 - 24"	9 - 24"	8 - 14"
Dimensions LxWxH	34" x 34" x 2.3"	18" x 8.5" x 4"	18" x 8.5" x 4"	35" x 34" x 3.2"	19.75" x 44.75" x 1.25"	25" x 24.75" x 3"	39.29" x 35.43" x 2.92"	15" x 15" x 4.5"	15.75" x 15.75" x 5"	26" x 20" x 3"	42.5" x 19.5" x 1.375"	31.49" x 16.8" x 4.1"	44" x 42.5" x 3"	44" x 42.5" x 3"
PAR Eficacy	2.7 µmol/joule	2.51 µmol/joule	Not Published	2.6 µmol/joule	2.55 µmol/joule	2.6 µmol/joule	2.7 µmol/joule	2.13 µmol/joule	2.15 µmol/joule	2.5 µmol/joule	2.5 µmol/joule	2.5 µmol/joule	2 µmol/joule	2.5 µmol/joule
Diodes	L 7009	Osram	Chip On Board	Osram	Osram & Philips	Not Published	Osram & Philips	Cree and Osram	Cree and Osram	Samsung 301H	Samsung	Samsung and Osram	Not Published	Not Published
Dimmable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Input Voltage (VAC)	120 - 240 V	90-277V	120-240V	110-277V	120-277V	100-277V	120-270V	100-277V	100-277V	100-277V	90-305V	120-277V	110-277V	110-277V
Warranty	5 Year	5 Year	3 Year	3 Year	5 Year	5 Year	5 Year	Not Published	Not Published	3 Year	3 Year	5 Year	3 Year	3 Year
Thermal Management	Passive	Fan	Fan	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive
Cerifications	ETL, CE	UL, CE	ETL	IP65, UL8800, UL1598, DLC, CE	ETL, FCC	CE, IP65	FCC, CSA, IC, IP65	ETL, CE, FCC, RoHS	ETL, CE, FCC, RoHS	Not Published	Not Published	UL, CE, FCC, DLC	UL	UL
Controller Compatible	Yes	Yes	No	Yes	Yes	Yes	Yes	NO	No	No	Yes	No	No	No
Price per Watt	$ 1.49	$ 2.12	$ 1.17	$ 1.66	$ 1.70	$ 1.26	$ 1.72	$ 3.17	$ 2.33	$ 1.35	$ 1.50	$ 1.36	$ 1.50	$ 1.52
Price per Unit of Light Output (µmol/s)	$ 0.55	$ 0.94	$ 0.59	$ 0.64	$ 0.67	$ 0.48	$ 0.64	$ 1.49	$ 1.53	$ 0.55	$ 0.61	$ 0.54	$ 0.78	$ 0.73
														
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