

EVOLVE

GROWLIGHT

www.evolvegrowlight.com

INNOVATIVE

GROWLIGHT SOLUTIONS



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UV LED MAN Enterprise Co.Limited

Professional manufacturer with ISO9001, ISO 14001, ISO 45001, IATF16949 certificates. Founded in 2011, with 10,000 square meters industrial park, more than 400 employees. Focus on LED solutions, like LED Grow Light Bar, LED Quantum Board Grow Light, LED Desk Grow Light, etc.

We have strong R&D team and get below advantages

120 innovation patents until now.

Products got DLC, ETL, FCC, CE, RoHS approved.

Advanced equipments like CNC machines, SMT lines and X-ray ensuring high efficiency and good quality.

Professional testing equipments like Darkroom, Greenhouse, Aging Room, Integrating Sphere, etc.

Support spectrum, package, logo customized; OEM & ODM service available.

About
EVOLVE



EVOLVE always pays close attention to customers requirements and new product development. We have rich experience to produce the LED Lighting products. EVOLVE uses high-level auto-production SMT & Soldering machines and professional lighting testing machines. We will offer high quality products, fast delivery and satisfactory services to you!



R&D Department

We have a professional research and design team, including scheme design center, electronic design center and structure design center.

According to different species of plants, different growth stages, and different lighting demands, we support customized spectrum and lamps to the plant growth cycle and increase yield.



Laboratory-Test Equipment

We have advanced led photoelectric testing equipment, professional optical engineers, providing LED optical testing and light distributions according to customers requirements. Also other testing equipment such as integrating sphere machines, JUKI SMT machines, Heller Reflow Ovens, Unicomp X-Ray machines, spectrograph system, high low temperature, salt spray, UV, vibration, impact testing, aging room, dark room, etc.



Production Line and Equipment

EVOLVE focus on led lighting industry, with a 10,000 square meters factory and 14 pcs of production lines, more than 400 employees.

In 2018, Evolve recognized as Shenzhen Top Fast Growing High-Tech Enterprise. Also EVOLVE achieved the National High-Tech Enterprise, Shenzhen Best Employer Enterprise and other honors.





10 Biggest Advantages of Vertical Farming

1. Reliable year-round crop production

The biggest vertical farming benefit is the fact it's not dependent on the weather – meaning you can achieve a consistent year-round crop production without worrying about the impact of adverse weather conditions can have both on quality and profiling of production and yield.

Farming in a protected, well-monitored and managed environment brings assurance and peace of mind for growers providing repeatable programmable production. By eliminating the effects of mother nature, there's no such thing as a 'seasonal crop' and growers won't suffer from losses as they try to push the production windows of 'seasonal cropping'. They can also successfully reduce harvest times and improve volume without compromising on flavour or quality, which always remains 100% consistent. Indeed, flavour and shelf life have consistently been able to demonstrate improved attributes when using an indoor vertical growing system, when designed and managed correctly. This allows commercial growers to confidently commit to the delivery schedules and offtake agreements demanded by their customers.

2. Unaffected by adverse weather conditions

Growing in a fully enclosed and climate-controlled environment completely eradicates the need to rely on – or worry about – the weather. Whereas crops in a field can be ruined by excessive rain, wind and drought (or pests!); vertical farming provides 100% harvest certainty.

3. Better use of space

It goes without saying that traditional farms need fertile arable land. But vertical farms can be designed and built in any climate or location – irrespective of weather conditions or temperature extremes. And because their stacking grow systems allow them to expand upwards, it's also possible to achieve higher productivity on a small land area. Depending on which crop is grown, one acre of vertical farm could consistently grow the equivalent to between 10 or 20 soil-based acres.

4. Minimise water usage

One of the main vertical farming benefits is that the Hydroponic growing process only uses about 10% of the amount of water, and as a result the nutrients and fertilisers, compared to traditional methods. Because the water is clean after usage, it also allows it to be recycled and reused, reducing costs and minimising waste.





5. Environmentally friendly

Indoor farming can be good for the environment because it massively reduces the amount of fossil fuels needed for farming equipment which is not required to sow, fertilize, weed or harvest crops. Vertical farming also helps to improve biodiversity because it does not cause land surface disturbance, which helps the natural animal population which lives in and around farms to thrive.

6. No chemicals or pesticides

Growing food in a vertical farm, when managed correctly offers the opportunity to completely eliminates the need for pesticides – as pests cannot enter the controlled environment to cause crop damage and fungal diseases struggle to gain a foot hold as humidity levels are managed. The end result is a product which is better, healthier, safer and featuring dry leaves which are clean and ready to eat.

7. Reduce transport costs

When it comes to food production, the last-mile delivery is usually the most expensive part of the supply chain. And it's not uncommon for crops to be shipped across continents and oceans. Growing food closer to where the consumer lives is a massive vertical farming benefit as it can massively reduce transportation costs, CO2 emissions and reduce the need for refrigerated storage – making produce fresher and more profitable.

8. Highly energy efficient

Whilst the use of LED grow light requires a significant amount of power to achieve optimum growth, vertical farms can also generate power. Cambridge HOK specialises in renewable technologies and combined heat and power (CHP) solutions which can harness excess energy to be reused elsewhere in your business or transferred back to the national grid.

9. Safe for staff

Traditional farming has gained an unwanted reputation for being a workplace fraught with health and safety risks. With no heavy machinery or chemicals used for indoor farming, it obviously does not boast the same occupational hazards – significantly reducing the risk of injury.

10. Low labour costs

Fully automated indoor growing systems do not need huge amounts of manual labour to achieve successful year-round production. People with low-level skills are still required to sort and pack harvests, but labour overheads will remain low – even if production is scaled upwards.





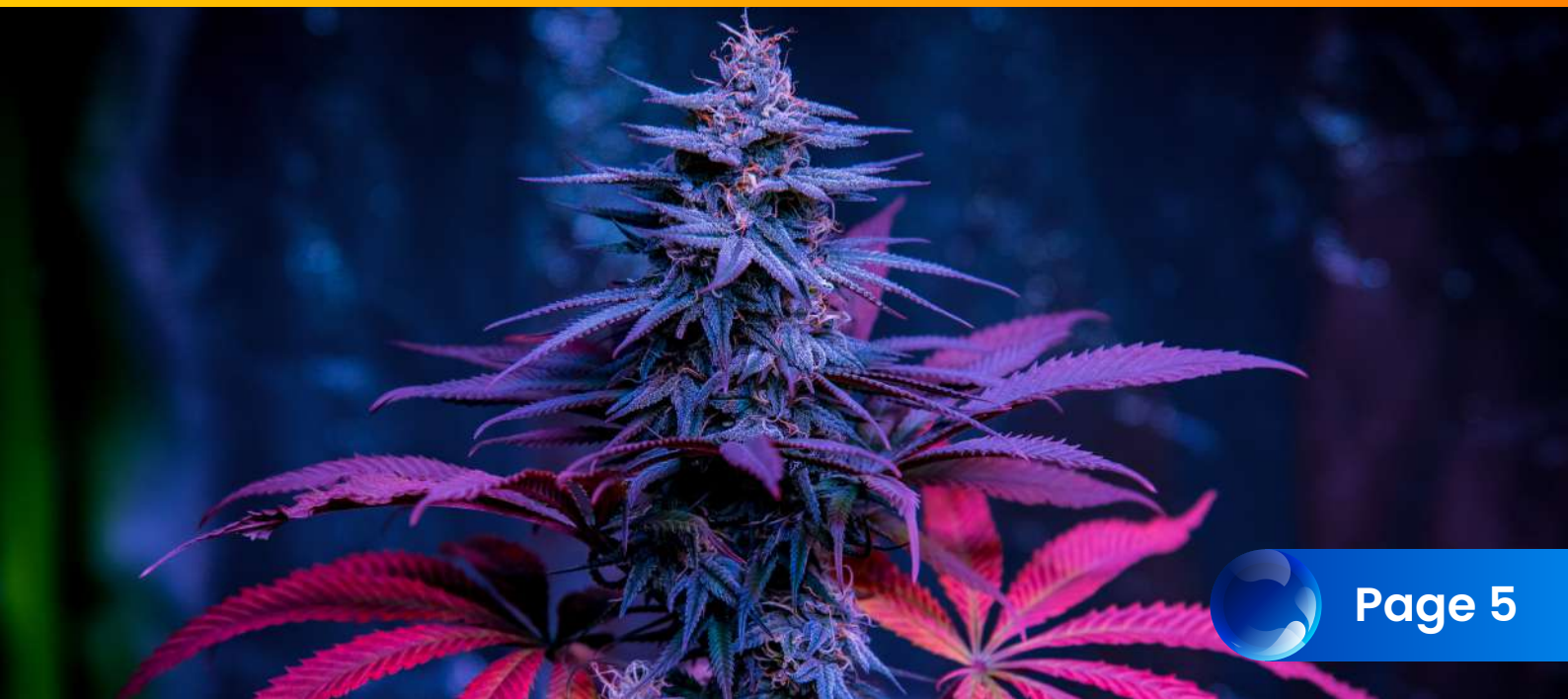
LED VS HPS

Horticultural LEDS Vs. Horticultural HPS

Whether light-emitting diodes (LED) or high-pressure sodium (HPS) lights are better for growing cannabis has been a longtime debate in the horticulture industry. In the beginning, LED grow lights lacked intensity, were expensive, and did not include the optimal light spectrum for plant growth, making HPS the superior lighting option.

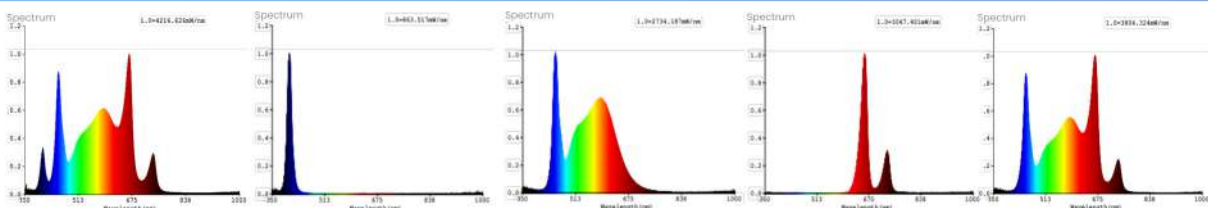
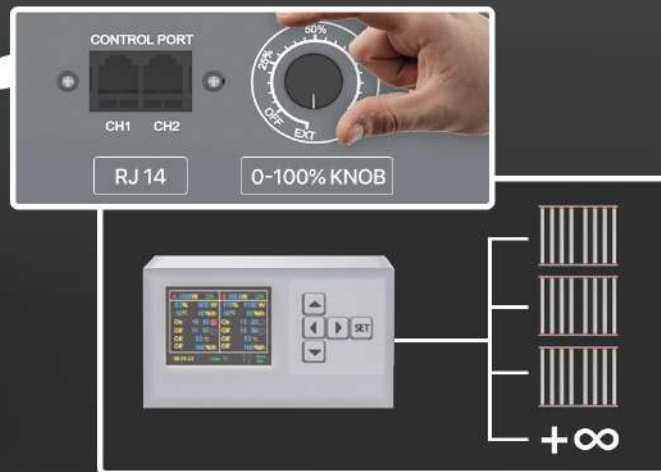
Now that LED technology has matured and advanced, that paradigm has flipped. LED lights are now full-spectrum and extremely powerful, allowing them to match or exceed the yields of traditional HPS lights. Furthermore, LED lights save growers money in the long run they use less electricity, reduce cooling costs, are eligible for rebates that reduce the upfront cost, and do not have to be replaced annually like HPS lights. The performance of LEDs coupled with all these financial benefits makes them the best grow lights for cannabis.

The big question is, how much money would you save from using LEDs versus HPS lights in your grow room? Using Evolve Growlight® LED lights, you would save roughly 30% on electricity costs, 35% on AC cooling costs, 100% on lamp replacement costs, in addition to potentially getting back 20-70% of your upfront lighting costs in rebates. In the first year, these savings would already make up for the higher upfront premium cost of the LED fixtures. Over the next 5-years, these recurring savings would save you 30% of operations costs, which doesn't include the added value of increased yields from getting a higher average of Photosynthetic Photon Flux Density (PPFD).



FLEXIBLE CONTROL SYSTEM

No quantity limited control for large commercial horticulture



All Turned OFF



Fully Light ON



UV ON



White ON



Red ON



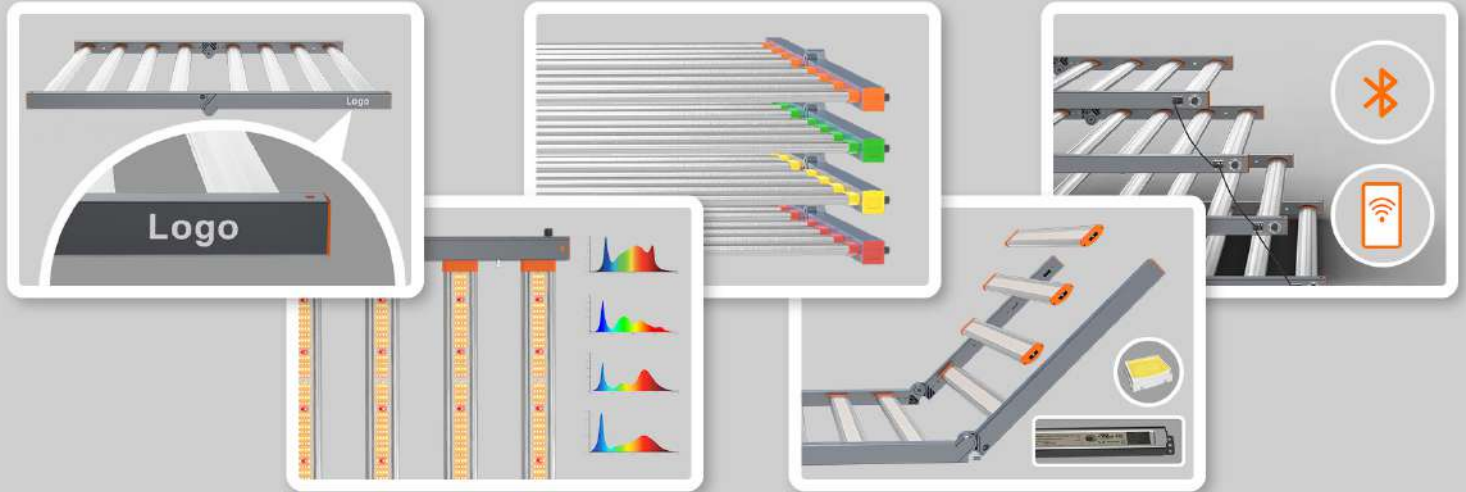
Red + White ON



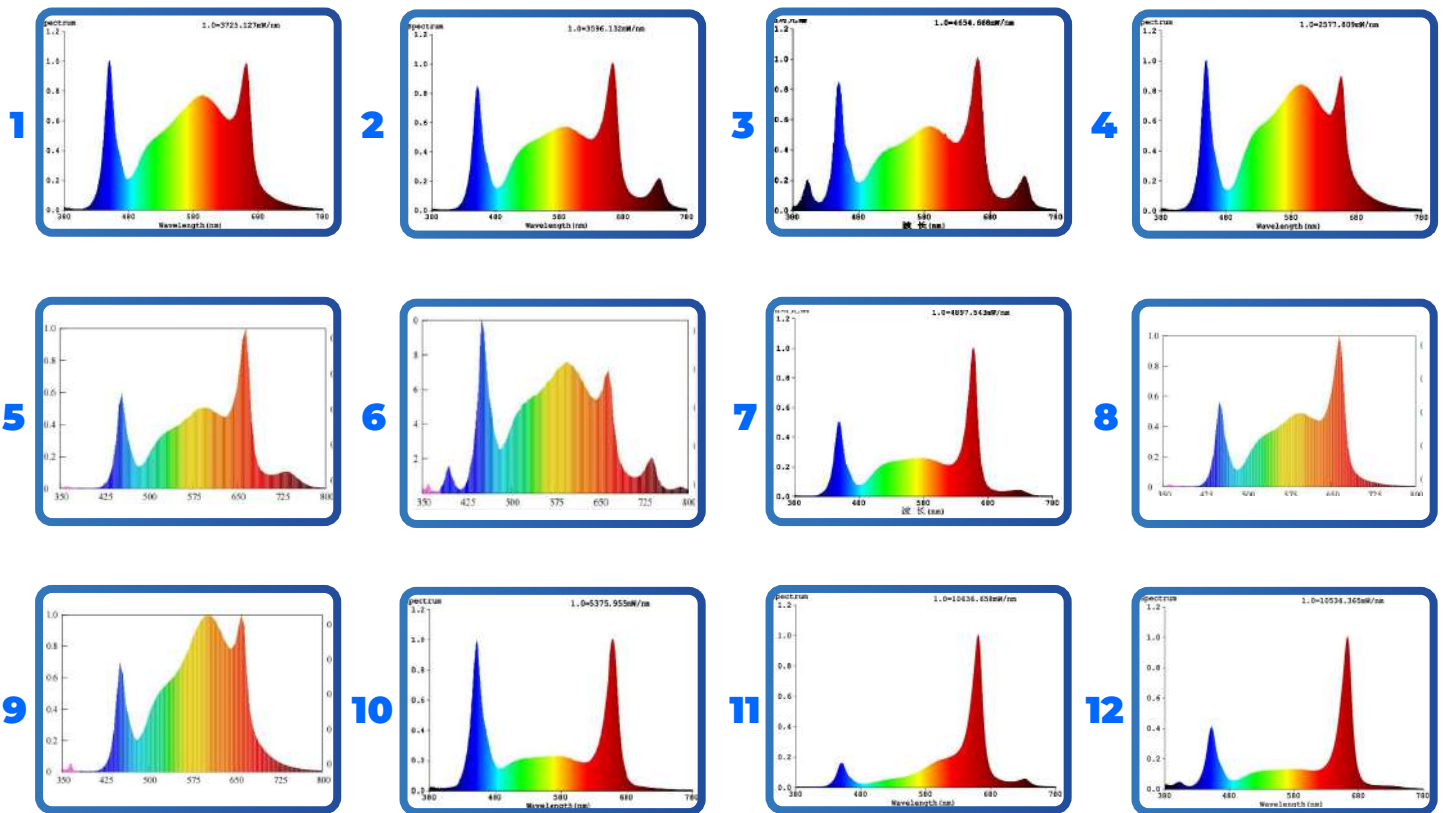
CUSTOMIZED SERVICE

Strong R&D team to meet all your demand

- Spectrum
- Laser Logo
- Housing color
- Product Design
- Smart control (WIFI, Bluetooth etc)

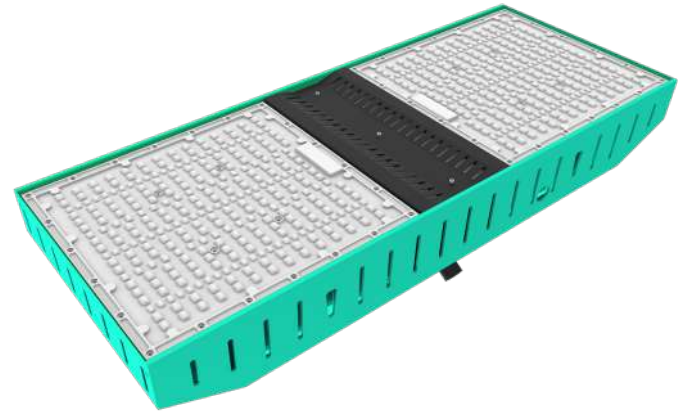


We could customized all kind of photoelectric spectrum chart as following:



Key Benefits

1. HPS HID replacement
2. Impressive 3100 $\mu\text{mol/s}$ output for more crop-loving light at up to 20% energy saving vs. 1000W HPS fixtures (based on average wattage of each fixture)
3. Compact design fits right in HPS layouts, reducing the pain when replacing hundreds at a time
4. Broad spectrum designed to deliver the cool blues, hot reds and balanced greens plants need for full-term growth
5. Wide, even light distribution that matches HPS light throw while improving coverage for plants on the periphery
6. The first indoor-specific compact top light crafted to serve as a primary light source
7. More than 50% higher in PPF compared with HID lamps
8. Energy saving with 37% lower power consumption than HID lamps
9. Individual fixture thermal protection
10. Cold forged aluminum heat sink for maximized passive cooling
11. Compatible with 0-10 volt building automation systems
12. Light hangs close to plants
13. High yields on edge area

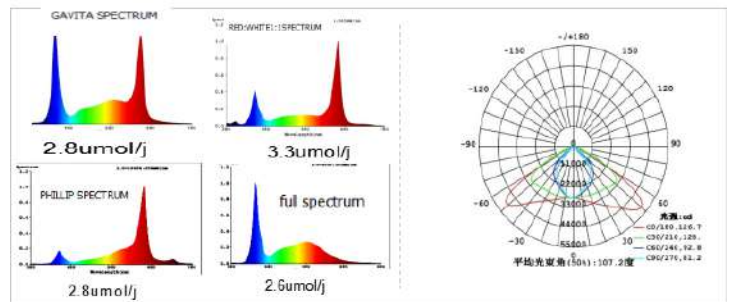


Product Specification

Model: Canopy 800 W LED Grow Light
Chip: Samsung, OSRAM, Epileds, Epistar
Spectrum: Indoor greenhouse lighting spectrum
PPF: 2160-2640 $\mu\text{mol/s}$
PPE: 2.7-3.3 $\mu\text{mol/j}$ @220V AC
DB: 0dB
Lamp power: 800W \pm 5%@220V AC
Beam angle: 90X120° butterfly shape
Input voltage: 100-277VAC, 50/60HZ / 380-480V can be customized
Height of installation: 60-180CM
Driver Brand: Meanwell, Inventronics, Sosen, etc
Way of heat dissipation: Passive heat dissipation
Maximum temperature of lamp body: 70°F/160°F
Way of dimming: 0-10V/ RS485
Power harmonic coefficient (THD): <10%
Life time: LM80>50000H
IP Rating: IP65 Available in humid environment / indoor
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc

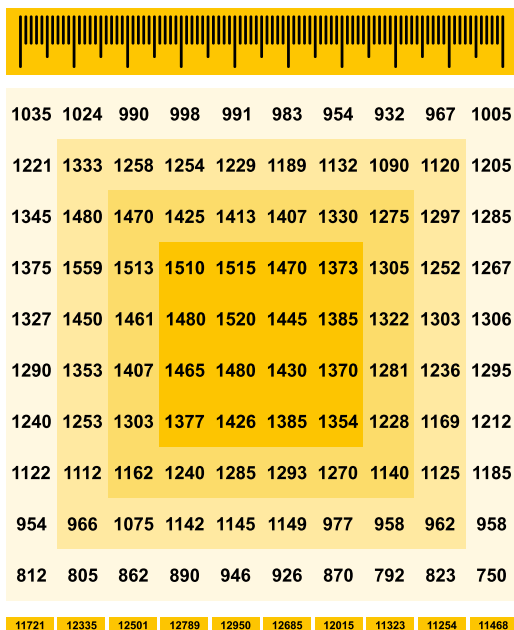
Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
800W	802 mm	315 mm	182 mm	18.5kg 40.79lb
	31.57"	12.4"	7.17"	



PPFD MAP

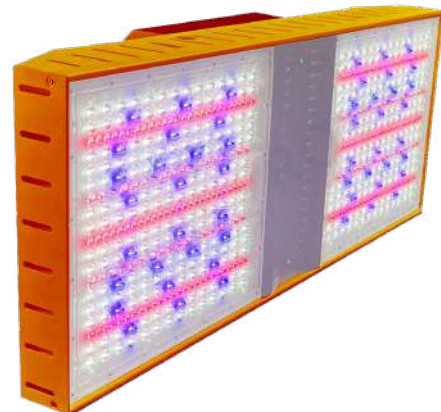
60CM - 24"



DLI/S PPF

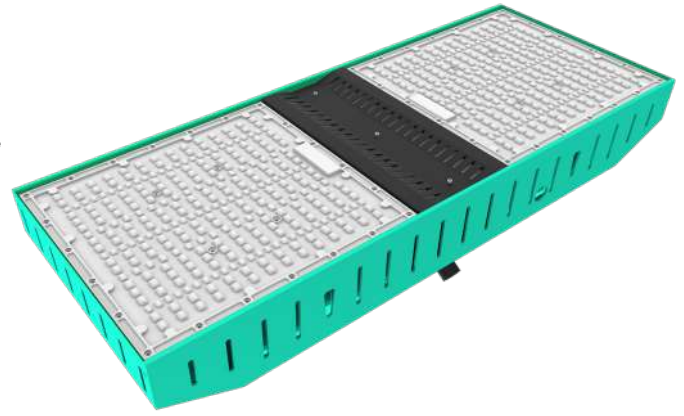
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Product Photos



Key Benefits

1. HPS HID replacement
2. Impressive 3100 μ mol/s output for more crop-loving light at up to 20% energy saving VS. 1000W HPS fixtures (based on average wattage of each fixture)
3. Compact design fits right in HPS layouts, reducing the pain when replacing hundreds at a time
4. Broad spectrum designed to deliver the cool blues, hot reds and balanced greens plants need for full-term growth
5. Wide, even light distribution that matches HPS light throw while improving coverage for plants on the periphery
6. The first indoor-specific compact top light crafted to serve as a primary light source
7. More than 50% higher in PPFD compared with HID lamps
8. Energy saving with 37% lower power consumption than HID lamps
9. Individual fixture thermal protection
10. Cold forged aluminum heat sink for maximized passive cooling
11. Compatible with 0-10 volt building automation systems
12. Light hangs close to plants
13. High yields on edge area

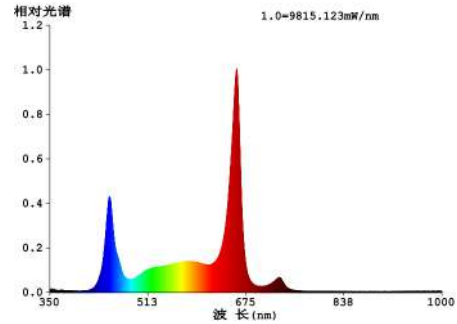


Product Specification

Model: Canopy 840 W LED Grow Light
AC Input Power: 840 W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
Beam Angle: 90°*120°
PPE: 3.2 μ mol/J
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc
Ingress Protection: IP65
Operating Temperature: 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
840W	802 mm	315 mm	182 mm	18.5kg 40.79lb
	31.57"	12.4"	7.17"	



PFFD MAP

60CM - 24"

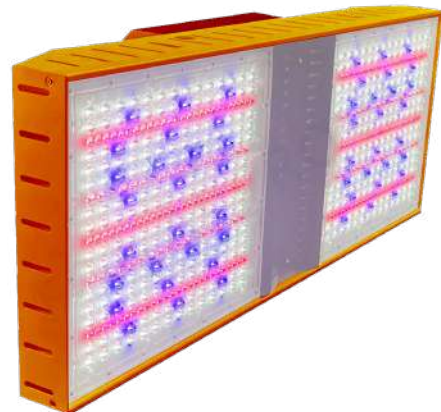


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1145	1165	1236	1315	1386	1430	1439	1456	1432	1532
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DLI/S PPFD

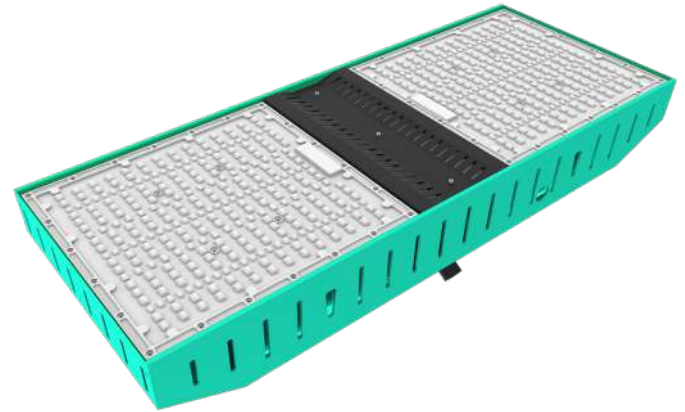
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Product Photos



Key Benefits

1. HPS HID replacement
2. Impressive 3100 $\mu\text{mol/s}$ output for more crop-loving light at up to 20% energy saving vs. 1000W HPS fixtures (based on average wattage of each fixture)
3. Compact design fits right in HPS layouts, reducing the pain when replacing hundreds at a time
4. Broad spectrum designed to deliver the cool blues, hot reds and balanced greens plants need for full-term growth
5. Wide, even light distribution that matches HPS light throw while improving coverage for plants on the periphery
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7. More than 50% higher in PPF compared with HID lamps
8. Energy saving with 37% lower power consumption than HID lamps
9. Individual fixture thermal protection
10. Cold forged aluminum heat sink for maximized passive cooling
11. Compatible with 0-10 volt building automation systems
12. Light hangs close to plants
13. High yields on edge area

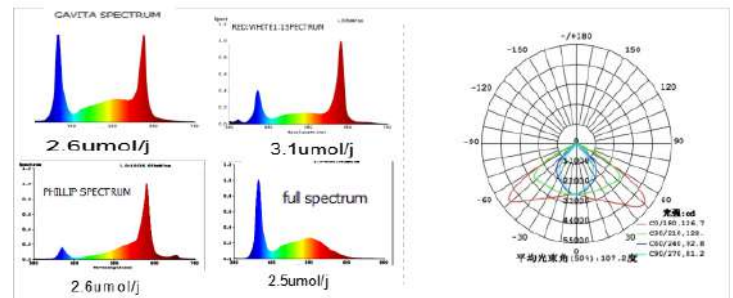


Product Specification

Model: Canopy 1000 W LED Grow Light
Chip: Samsung, OSRAM, Epileds, Epistar
Spectrum: Indoor green house lighting spectrum
PPF: 2500-3100 $\mu\text{mol/s}$
PPE: 2.5-3.3 $\mu\text{mol/j}$ @220V AC
DB: 0dB
Lamp power: 1000W \pm 5%@220V AC
Beam angle: 90X120° butterfly shape
Input voltage: 100-277VAC, 50/60HZ / 380-480V can be customized
Height of installation: 60-180CM
Driver Brand: Meanwell, Inventronics, Sosen, etc
Way of heat dissipation: Passive heat dissipation
Maximum temperature of lamp body: 70°F/160°F
Way of dimming: 0-10V/ RS485
Power harmonic coefficient (THD): <10%
Life time: LM80>50000H
IP Rating: IP65 Available in humid environment / indoor
Application: Seed Starting, BLOOM, VEG, Other
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
1000W	802 mm	315 mm	182 mm	18.5kg 40.79lb
	31.57"	12.4"	7.17"	



PPFD MAP

60CM - 24"



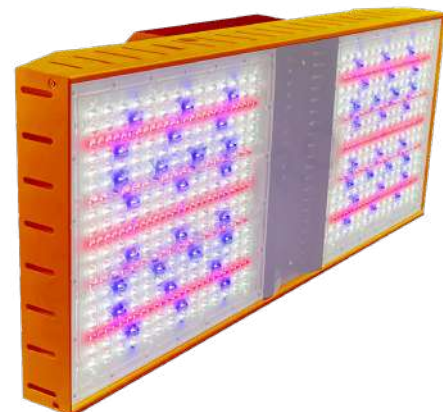
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1122	1112	1162	1240	1285	1293	1270	1140	1125	1185
954	966	1075	1142	1145	1149	977	958	962	958
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DLI/S PPFD

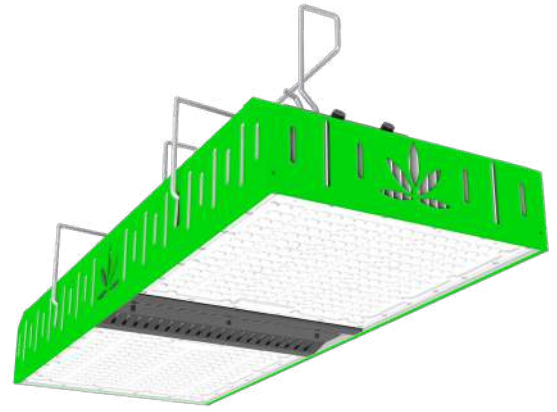
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Product Photos



Key Benefits

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2. Impressive 3100 μ mol/s output for more crop-loving light at up to 20% energy saving VS. 1000W HPS fixtures (based on average wattage of each fixture)
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9. Individual fixture thermal protection
10. Cold forged aluminum heat sink for maximized passive cooling
11. Compatible with 0-10 volt building automation systems
12. Light hangs close to plants
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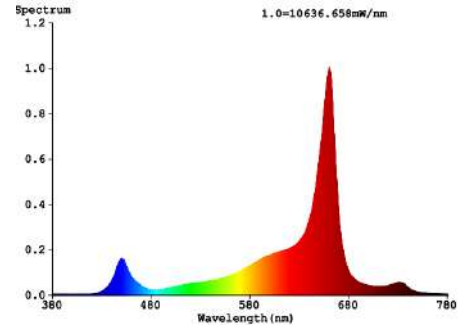


Product Specification

Model: Canopy 1200 W LED Grow Light
Chip: Samsung, OSRAM, Epileds, Epistar
Spectrum: Indoor green house lighting spectrum
PPF: 3480 μ mol/s
PPE: 2.9 μ mol/j@220V AC
DB: 0dB
Lamp power: 1200W \pm 5%@220V AC
Beam angle: 90X120° butterfly shape
Input voltage: 100-277VAC,50/60HZ / 380-480V can be customized
Height of installation: 60-180CM
Driver Brand: Meanwell, Inventronics, Sosen, etc
Way of heat dissipation: Passive heat dissipation
Maximum temperature of lamp body: 70°F/160°F
Way of dimming: 0-10V/ RS485
Power harmonic coefficient (THD): <10%
Life time: LM80>50000H
IP Rating: IP65 Available in humid environment / indoor
Application: Seed Starting, BLOOM, VEG, Other
Certificate: UL, DLC, ETL, FCC, ROHS, CE,etc

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
1200W	1100 mm	315 mm	182 mm	18.5kg
	43.31"	12.4"	7.17"	40.79lb



PPFD MAP

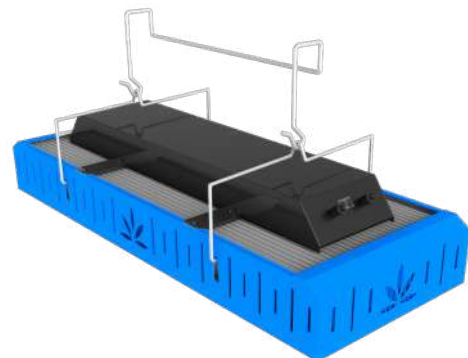
60CM - 24"

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1122	1112	1162	1240	1285	1293	1270	1140	1125	1185
954	966	1075	1142	1145	1149	977	958	962	958
812	805	862	890	946	926	870	792	823	750
11721	12335	12501	12789	12950	12685	12015	11323	11254	11468

DLI/S PPFD

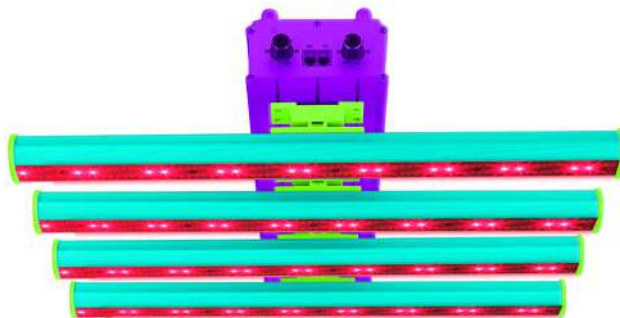
1210.41

Product Photos



Key Benefits

1. Snap-on installation which saves labor cost
2. Patented design, uniform lighting distribution, higher yields
3. Totally tool free assemble, no need rewiring
4. Freight cost-saving
5. Full spectrum with original high efficiency diodes
6. More than 50% higher in PPFD compared with HID lamps
7. Energy saving with 37% lower power consumption than HID lamps
8. Isolated driver with UL certified, 0-10V cascade dimming switch with 2 pcs RJ ports
9. 6063 aluminum housing designed in wave shape, excellent heat dissipation with lower lighting decay
10. Daisy-chain control, reflector can be added, full use of light
11. Support spectrum, package, logo customized; OEM & ODM service available

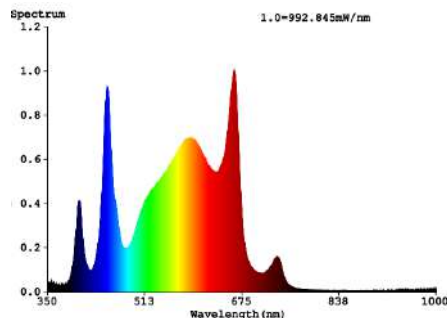


Product Specification

Model: Detach-able 240 W LED Grow Light
AC Input Power: 240W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
PPE: 2.5 μmol/J
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc
Ingress Protection: IP65
Operating Temperature: 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
240W	547 mm	550 mm	128 mm	4.2 kg 9.26 lb
	21.54"	21.65"	5.4"	



PFFD MAP

45CM - 18"



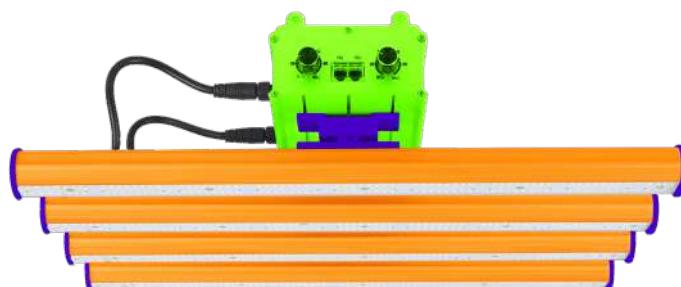
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400	530	675	780	798	725	590	1322	444	335
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375	514	655	793	809	755	645	484	380	255
355	473	613	692	723	682	587	464	330	220
301	366	457	520	583	575	511	415	274	191
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DLI/S PPFD

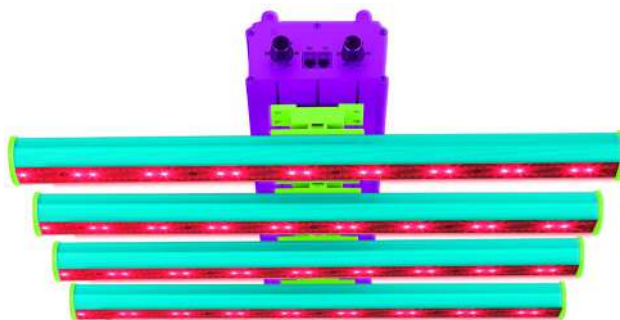
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Product Photos



Key Benefits

1. Snap-on installation which saves labor cost
2. Patented design, uniform lighting distribution, higher yields
3. Totally tool free assemble, no need rewiring
4. Freight cost-saving
5. Full spectrum with original high efficiency diodes
6. More than 50% higher in PPFD compared with HID lamps
7. Energy saving with 37% lower power consumption than HID lamps
8. Isolated driver with UL certified, 0-10V cascade dimming switch with 2 pcs RJ ports
9. 6063 aluminum housing designed in wave shape, excellent heat dissipation with lower lighting decay
10. Daisy-chain control, reflector can be added, full use of light
11. Support spectrum, package, logo customized; OEM & ODM service available

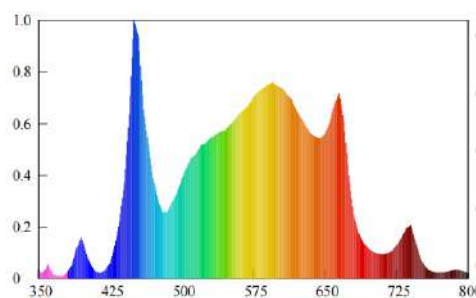


Product Specification

Model: Detach-able 600 W LED Grow Light
AC Input Power: 600W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
PPE: 2.5 μmol/J
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc
Ingress Protection: IP65
Operating Temperature: 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
600W	1095mm	1120 mm	120 mm	11.5 kg 25.35lb
	43.11"	44.9"	4.72"	



PFFD MAP

60CM - 24"



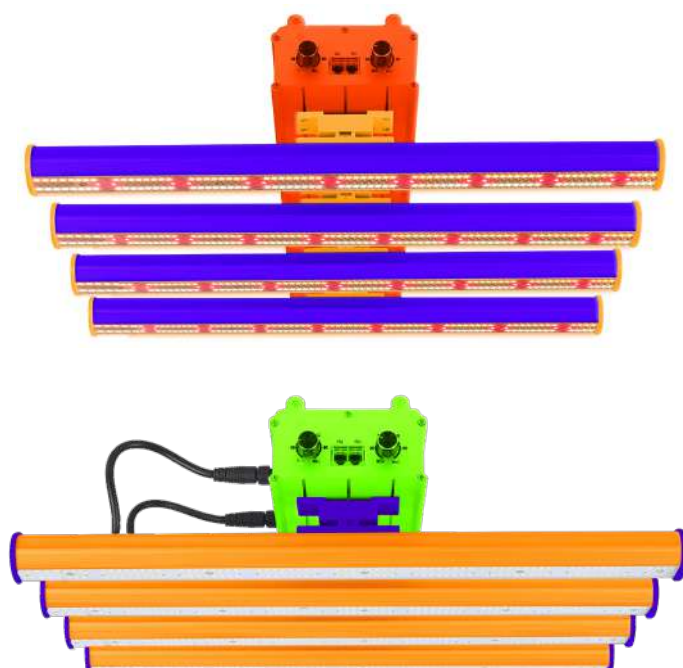
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790	811	818	813	803	788	764	727	688	636
788	813	824	823	815	801	774	744	694	641
756	801	822	823	814	798	770	737	692	629
719	779	803	808	803	787	758	733	678	619
693	742	785	790	786	771	751	715	680	610
666	713	753	763	764	745	731	692	645	603
642	670	713	725	730	706	688	657	615	570
592	637	662	673	684	669	656	613	575	537
530	577	594	616	635	625	605	580	548	480

6962 7342 7568 7619 7599 7437 7218 6897 6479 5940

DLI/S PPFD

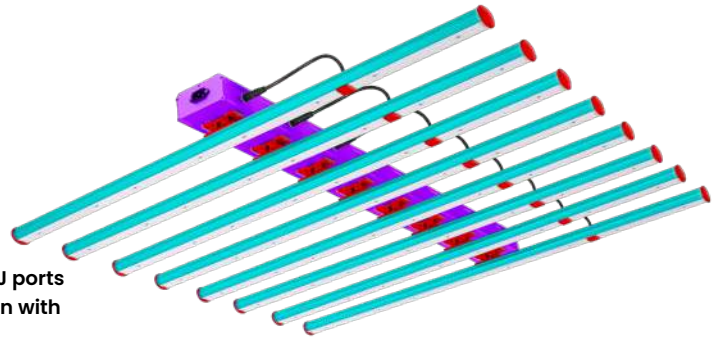
710.61

Product Photos



Key Benefits

1. Snap-on installation which saves labor cost
2. Patented design, uniform lighting distribution, higher yields
3. Totally tool free assemble, no need rewiring
4. Freight cost-saving
5. Full spectrum with original high efficiency diodes
6. More than 50% higher in PPFD compared with HID lamps
7. Energy saving with 37% lower power consumption than HID lamps
8. Isolated driver with UL certified, 0-10V cascade dimming switch with 2 pcs RJ ports
9. 6063 aluminum housing designed in wave shape, excellent heat dissipation with lower lighting decay
10. Daisy-chain control, reflector can be added, full use of light
11. Support spectrum, package, logo customized; OEM & ODM service available

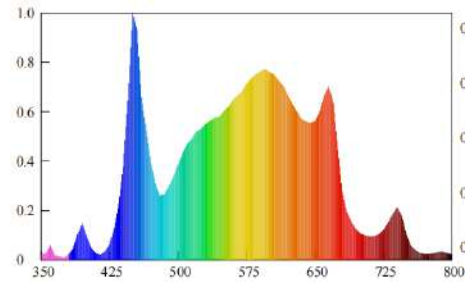


Product Specification

Model: Detach-able 800 W LED Grow Light
AC Input Power: 800W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
PPE: 2.5 $\mu\text{mol}/\text{J}$
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc
Ingress Protection: IP65
Operating Temperature 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
800W	1095mm	1120 mm	120 mm	11.5 kg 25.35lb
	43.11"	44.9"	4.72"	



PPFD MAP

60CM - 24"



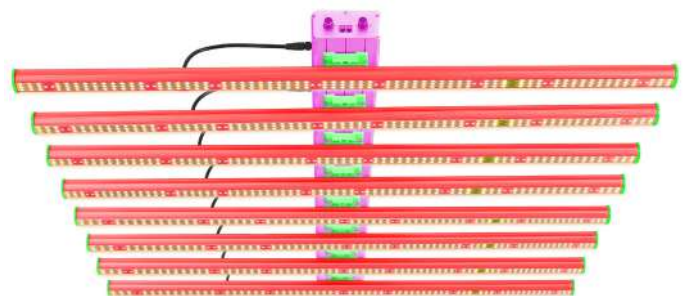
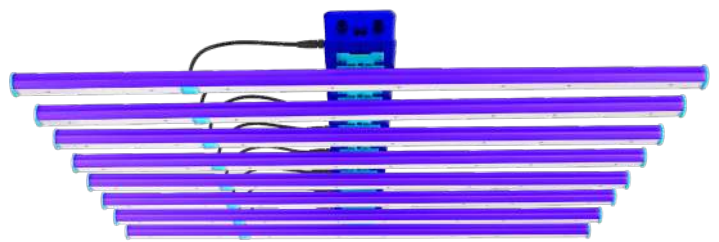
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1013	1065	1077	1073	1059	1061	1048	1023	1001	943
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1093	1157	1195	1205	1207	1196	1170	1142	1093	1011
1093	1180	1219	1230	1230	1220	1199	1161	1110	1023
1078	1163	1215	1233	1234	1230	1206	1171	1100	1056
1080	1148	1200	1218	1218	1213	11180	1148	1063	1016
1037	1096	1146	1166	1168	1167	1146	1116	1077	1003
994	1043	1090	1108	1114	1105	1088	1078	1002	913
820	940	985	1005	1030	1040	1027	1022	886	983

10898 11271 11360 11359 11321 21103 10866 10298 9711

DLI/S PPFD

1184.25

Product Photos



Key Benefits

1. Snap-on installation which saves labor cost
2. Patented design, uniform lighting distribution, higher yields
3. Totally tool free assemble, no need rewiring
4. Freight cost-saving
5. Full spectrum with original high efficiency diodes
6. More than 50% higher in PPFD compared with HID lamps
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8. Isolated driver with UL certified, 0-10V cascade dimming switch with 2 pcs RJ ports
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10. Daisy-chain control, reflector can be added, full use of light
11. Support spectrum, package, logo customized; OEM & ODM service available

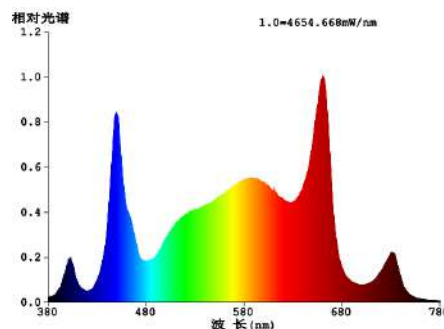


Product Specification

Model: Detach-able 1000 W LED Grow Light
AC Input Power: 1000W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
PPE: 2.5 $\mu\text{mol}/\text{J}$
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc
Ingress Protection: IP65
Operating Temperature: 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
1000W	1095mm	1120 mm	120 mm	11.5 kg 25.35 lb
	43.11"	44.9"	4.72"	



PFFD MAP

60CM - 24"



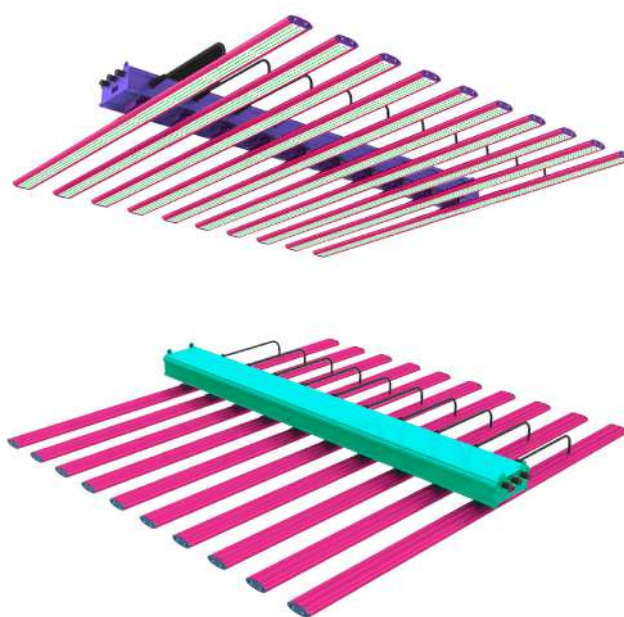
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1310	1350	1371	1354	1340	1323	1295	1265	1211	1127
1368	1430	1450	1440	1421	1406	1382	1340	1274	1201
1374	1464	1503	1505	1499	1474	1446	1406	1321	1220
1380	1486	1535	1540	1538	1514	1481	1426	1357	1257
1366	1470	1533	1546	1540	1517	1489	1443	1353	1270
1365	1452	1520	1530	1530	1528	1484	1452	1353	1271
1343	1407	1464	1470	1476	1459	1430	1387	1308	1236
1278	1322	1370	1392	1408	1386	1360	1333	1212	1128
1126	1173	1200	1226	1268	1270	1260	1212	1118	1000

13128 13803 14207 14242 14239 14071 13798 13413 12622 11752

DLI/S PPFD

1184.25

Product Photos



Key Benefits

1. 180°fold-able design, plug-and-play, easy for installation
2. Totally tool free assemble, no need rewiring
3. Full spectrum with original high efficiency diodes
4. Isolated driver with UL certified, quality and safety are guaranteed
5. Knob dimmer with 5 levels brightness adjustable, 2 pcs RJ ports with 0-10 V cascade dimming function
6. More than 50% higher in PPFD compared with HID lamps
7. Energy saving with 37% lower power consumption than HID lamps
8. Daisy-chain control, controlling 100 units max
9. 6063 aluminum housing designed in wave shape, excellent heat dissipation with lower lighting decay
10. Support spectrum, package, logo customized; OEM & ODM service available.

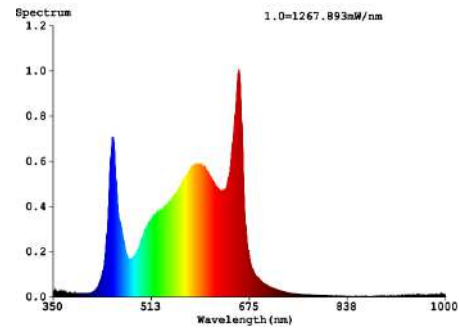


Product Specification

Model: Fold-able 240W LED Grow Light
AC Input Power: 240W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
PPE: 2.5 $\mu\text{mol}/\text{J}$
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc
Ingress Protection: IP65
Operating Temperature: 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
240W	600 mm	570 mm	60 mm	
	23.62"	22.44"	2.36"	



PFFD MAP

45CM - 18"

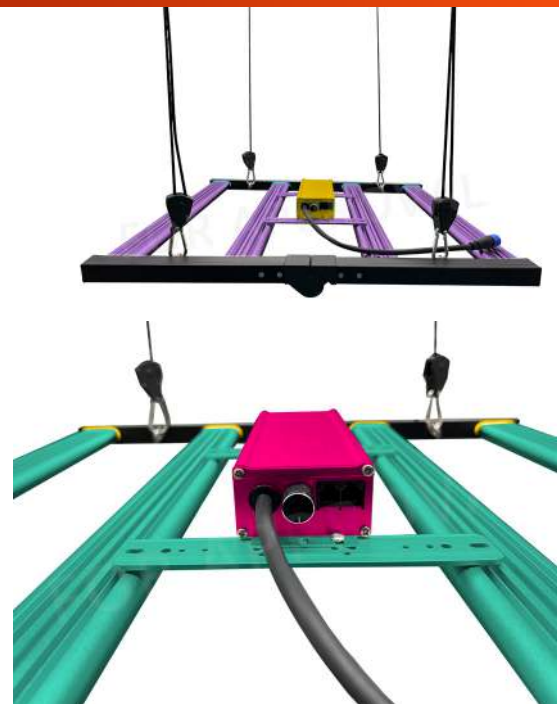


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360	490	590	690	701	640	540	405	291	210
400	530	675	780	798	725	590	1322	444	335
350	506	685	794	840	790	642	466	321	270
375	514	655	793	809	755	645	484	380	255
355	473	613	692	723	682	587	464	330	220
301	366	457	520	583	575	511	415	274	191
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DLI/S PPFD

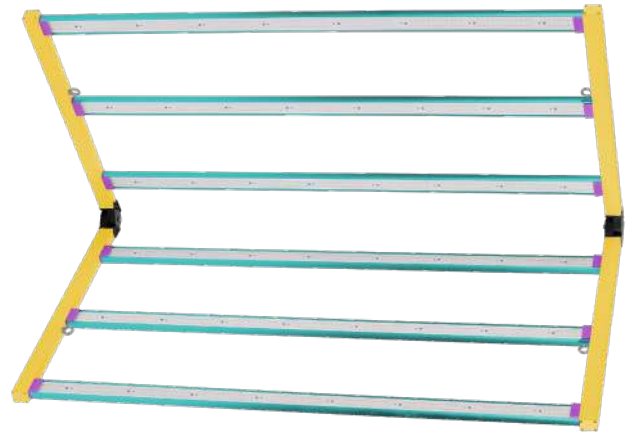
439.54

Product Photos



Key Benefits

1. 180°fold-able design, plug-and-play, easy for installation
2. Totally tool free assemble, no need rewiring
3. Full spectrum with original high efficiency diodes
4. Isolated driver with UL certified, quality and safety are guaranteed
5. Knob dimmer with 5 levels brightness adjustable, 2 pcs RJ ports with 0-10 V cascade dimming function
6. More than 50% higher in PPFD compared with HID lamps
7. Energy saving with 37% lower power consumption than HID lamps
8. Daisy-chain control, controlling 100 units max
9. 6063 aluminum housing designed in wave shape, excellent heat dissipation with lower lighting decay
10. Support spectrum, package, logo customized; OEM & ODM service available.

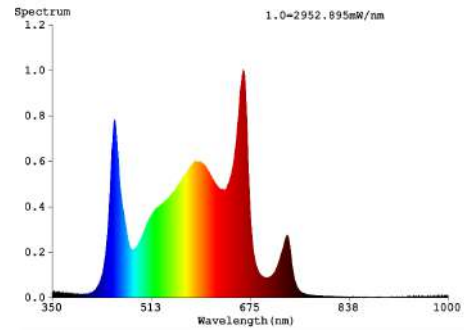


Product Specification

Model: Fold-able 600W LED Grow Light
AC Input Power: 600W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
PPE: 2.5 μmol/J
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE,etc
Ingress Protection: IP65
Operating Temperature: 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
600W	1095mm	1110 mm	80 mm	
	43.11"	43.7"	3.15"	



PFFD MAP

60CM - 24"

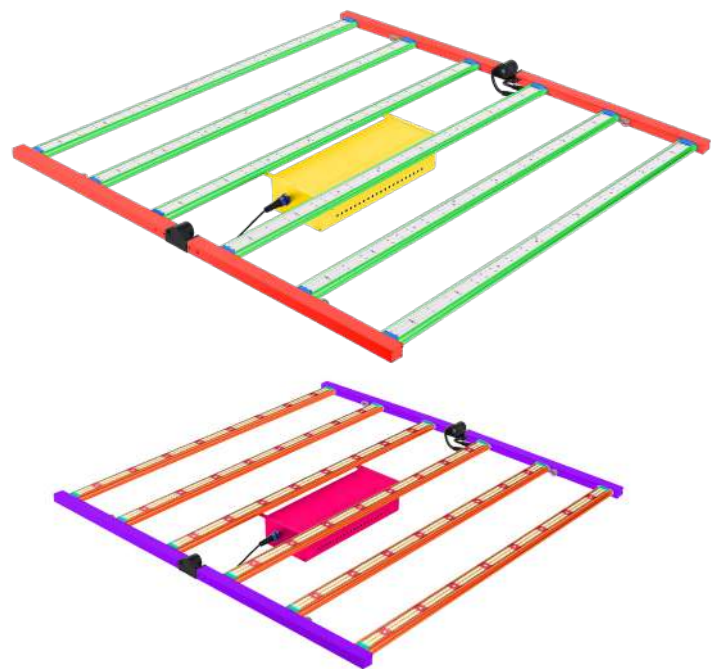


786	799	794	785	765	747	721	699	664	615
790	811	818	813	803	788	764	727	688	636
788	813	824	823	815	801	774	744	694	641
756	801	822	823	814	798	770	737	692	629
719	779	803	808	803	787	758	733	678	619
693	742	785	790	786	771	751	715	680	610
666	713	753	763	764	745	731	692	645	603
642	670	713	725	730	706	688	657	615	570
592	637	662	673	684	669	656	613	575	537
530	577	594	616	635	625	605	580	548	480
6962	7342	7568	7619	7599	7437	7218	6897	6479	5940

DLI/S PPFD

710.61

Product Photos



Key Benefits

1. 180°fold-able design, plug-and-play, easy for installation
2. Totally tool free assemble, no need rewiring
3. Full spectrum with original high efficiency diodes
4. Isolated driver with UL certified, quality and safety are guaranteed
5. Knob dimmer with 5 levels brightness adjustable, 2 pcs RJ ports with 0-10 V cascade dimming function
6. More than 50% higher in PPF/D compared with HID lamps
7. Energy saving with 37% lower power consumption than HID lamps
8. Daisy-chain control, controlling 100 units max
9. 6063 aluminum housing designed in wave shape, excellent heat dissipation with lower lighting decay
10. Support spectrum, package, logo customized; OEM & ODM service available.

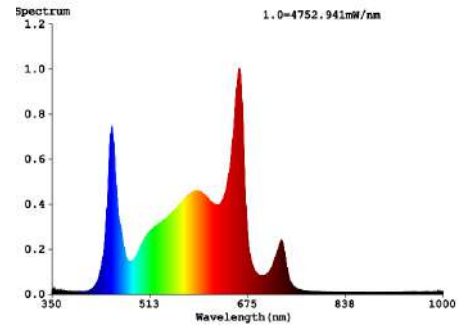


Product Specification

Model: Fold-able 800W LED Grow Light
AC Input Power: 800W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
PPE: 2.5 μmol/J
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE,etc
Ingress Protection: IP65
Operating Temperature: 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
800W	1095 mm	1110 mm	80 mm	
	43.11"	43.7"	3.15"	



PPFD MAP

60CM - 24"



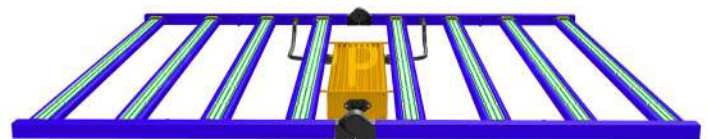
956	980	990	972	961	957	927	919	918	877
1013	1065	1077	1073	1059	1061	1048	1023	1001	943
1074	1126	1154	1150	1138	1132	1112	1086	1048	976
1093	1157	1195	1205	1207	1196	1170	1142	1093	1011
1093	1180	1219	1230	1230	1220	1199	1161	1110	1023
1078	1163	1215	1233	1234	1230	1206	1171	1100	1056
1080	1148	1200	1218	1218	1213	11180	1148	1063	1016
1037	1096	1146	1166	1168	1167	1146	1116	1077	1003
994	1043	1090	1108	1114	1105	1088	1078	1002	913
820	940	985	1005	1030	1040	1027	1022	886	983

10898 11271 11360 11359 11321 21103 10866 10298 9711

DLI/S PPF/D

1184.25

Product Photos



Key Benefits

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2. Totally tool free assemble, no need rewiring
3. Full spectrum with original high efficiency diodes
4. Isolated driver with UL certified, quality and safety are guaranteed
5. Knob dimmer with 5 levels brightness adjustable, 2 pcs RJ ports with 0-10 V cascade dimming function
6. More than 50% higher in PPFD compared with HID lamps
7. Energy saving with 37% lower power consumption than HID lamps
8. Daisy-chain control, controlling 100 units max
9. 6063 aluminum housing designed in wave shape, excellent heat dissipation with lower lighting decay
10. Support spectrum, package, logo customized; OEM & ODM service available.

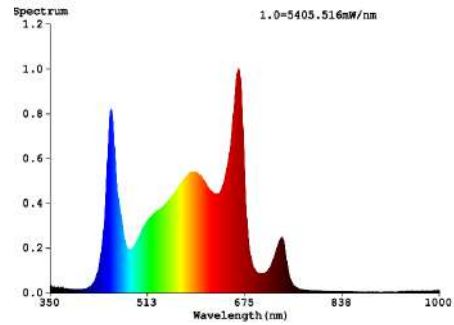


Product Specification

Model: Fold-able 1000W LED Grow Light
AC Input Power: 1000W@277VAC
Input Voltage: AC 110-277V
Chip Brand: Samsung, Osram, Philips
Driver Brand: Meanwell, Inventronics, Sosen, etc
PPE: 2.5 $\mu\text{mol}/\text{J}$
DB: 0dB
Application: Seed Starting, BLOOM, VEG, Other
Dimmable: 20-40-60-80-100% OFF knob dimmer & 0-10V cascade dimming
Certificate: UL, DLC, ETL, FCC, ROHS, CE, etc
Ingress Protection: IP65
Operating Temperature: 14-104°F (-10-40°C)
Lifespan: >50,000 hrs

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)			Product Weight
	L	W	H	
1000W	1095mm	1110 mm	80 mm	
	43.11"	43.7"	3.15"	



PFFD MAP

60CM - 24"



1218	1249	1261	1239	1219	1194	1171	1149	1115	1042
1310	1350	1371	1354	1340	1323	1295	1265	1211	1127
1368	1430	1450	1440	1421	1406	1382	1340	1274	1201
1374	1464	1503	1505	1499	1474	1446	1406	1321	1220
1380	1486	1535	1540	1538	1514	1481	1426	1357	1257
1366	1470	1533	1546	1540	1517	1489	1443	1353	1270
1365	1452	1520	1530	1530	1528	1484	1452	1353	1271
1343	1407	1464	1470	1476	1459	1430	1387	1308	1236
1278	1322	1370	1392	1408	1386	1360	1333	1212	1128
1126	1173	1200	1226	1268	1270	1260	1212	1118	1000

13128 13803 14207 14242 14239 14071 13798 13413 12622 11752

DLI/S PPFD

1352.75

Product Photos



Key Benefits

1. 200LM/W system efficiency, 80% energy saving.
2. Unique built-in integrated driver solution, 0-10V dim-to-off, 6KV surge protection.
3. Integrated streamline design, more shipping cost can be saved accordingly.
4. Die-casting aluminum heat sink with the outstanding heat dissipation performance.
5. CLICK-ON occupancy sensor kit allows upgrading to smart lighting in seconds.
6. 5 years warranty



Product Specification

Model: UFO 60W

Lamp Power(W): 60W

Input Voltage(V): AC 165-265V

Working Temperature(°F): 20 - 45

Lamp Body Material: Aluminum

Color Rendering Index(Ra): 80

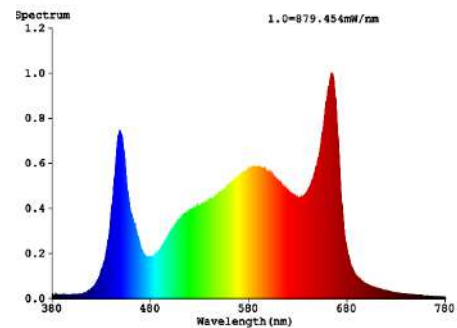
Application: Seed Starting, BLOOM, VEG

Beam Angle: 120°

Warranty(Year): 5-Year

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)		Product Weight
	D	H	
60W	230mm	122mm	
	9.06"	4.8"	



Product Photos



Key Benefits

1. 200LM/W system efficiency, 80% energy saving.
2. Unique built-in integrated driver solution, 0-10V dim-to-off, 6KV surge protection.
3. Integrated streamline design, more shipping cost can be saved accordingly.
4. Die-casting aluminum heat sink with the outstanding heat dissipation performance.
5. CLICK-ON occupancy sensor kit allows upgrading to smart lighting in seconds.
6. 5 years warranty



Product Specification

Model: UFO 100W

Lamp Power(W): 100W

Input Voltage(V): AC 165-265V

Working Temperature(°F): 20 - 45

Lamp Body Material: Aluminum

Color Rendering Index(Ra): 80

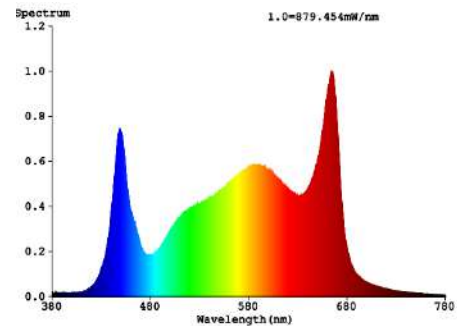
Application: Seed Starting, BLOOM, VEG

Beam Angle: 120°

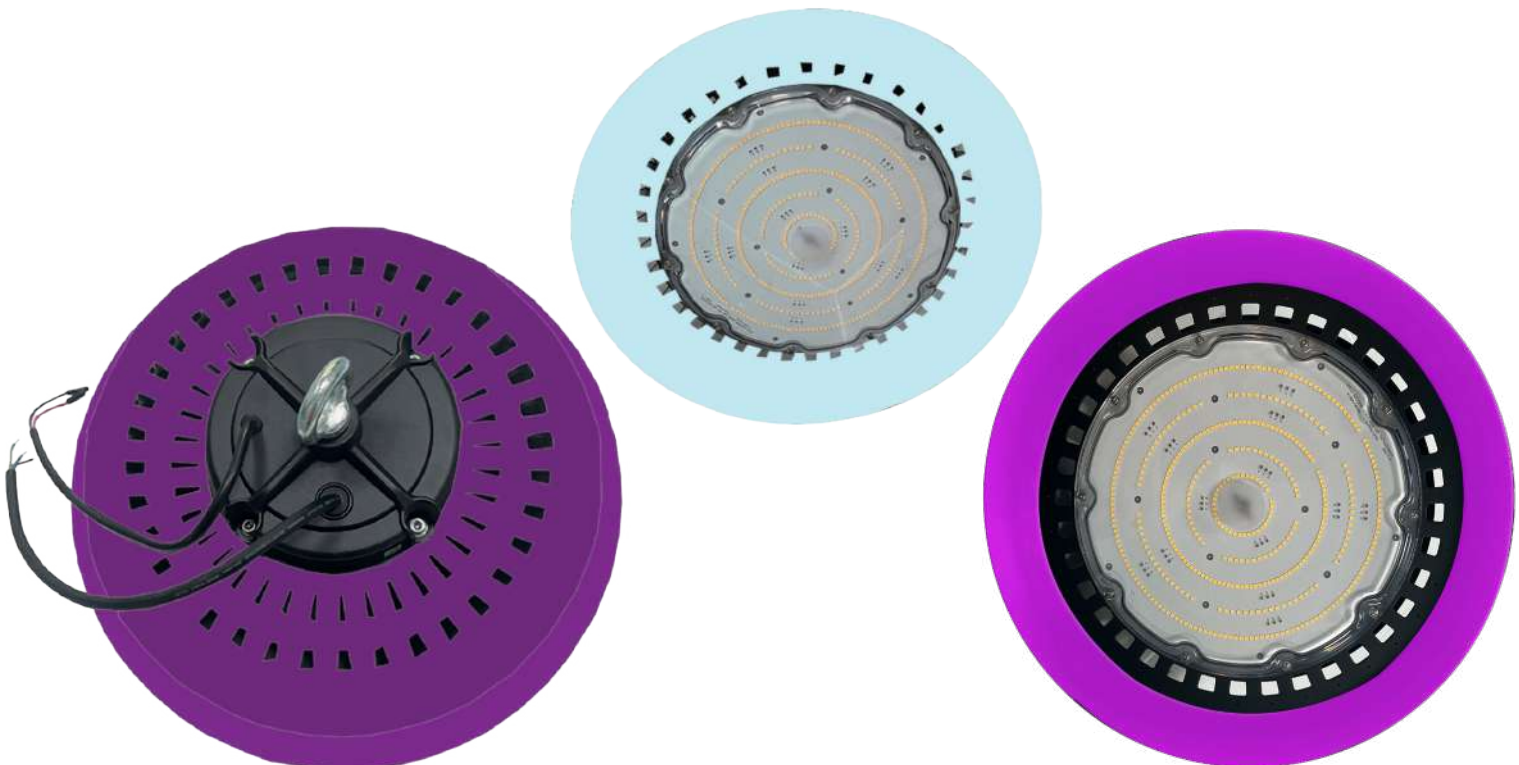
Warranty(Year): 5-Year

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)		Product Weight
	D	H	
100W	270mm	183mm	
	10.63"	7.2"	



Product Photos



Key Benefits

1. 200LM/W system efficiency, 80% energy saving.
2. Unique built-in integrated driver solution, 0-10V dim-to-off, 6KV surge protection.
3. Integrated streamline design, more shipping cost can be saved accordingly.
4. Die-casting aluminum heat sink with the outstanding heat dissipation performance.
5. CLICK-ON occupancy sensor kit allows upgrading to smart lighting in seconds.
6. 5 years warranty



Product Specification

Model: UFO 150W

Lamp Power(W): 150W

Input Voltage(V): AC 165-265V

Working Temperature(°F): 20 - 45

Lamp Body Material: Aluminum

Color Rendering Index(Ra): 80

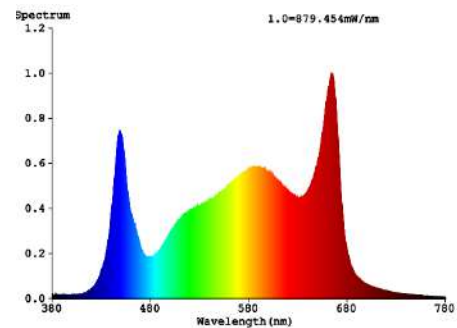
Application: Seed Starting, BLOOM, VEG

Beam Angle: 120°

Warranty(Year): 5-Year

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)		Product Weight
	D	H	
150W	330mm	193mm	
	12.99"	7.6"	



Product Photos



Key Benefits

1. 200LM/W system efficiency, 80% energy saving.
2. Unique built-in integrated driver solution, 0-10V dim-to-off, 6KV surge protection.
3. Integrated streamline design, more shipping cost can be saved accordingly.
4. Die-casting aluminum heat sink with the outstanding heat dissipation performance.
5. CLICK-ON occupancy sensor kit allows upgrading to smart lighting in seconds.
6. 5 years warranty



Product Specification

Model: UFO 200W

Lamp Power(W): 200W

Input Voltage(V): AC 165-265V

Working Temperature(°F): 20 - 45

Lamp Body Material: Aluminum

Color Rendering Index(Ra): 80

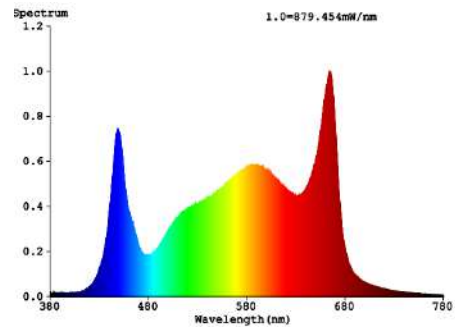
Application: Seed Starting, BLOOM, VEG

Beam Angle: 120°

Warranty(Year): 5-Year

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)		Product Weight
	D	H	
200W	380mm	203mm	
	14.96"	7.99"	



Product Photos



Key Benefits

1. 200LM/W system efficiency, 80% energy saving.
2. Unique built-in integrated driver solution, 0-10V dim-to-off, 6KV surge protection.
3. Integrated streamline design, more shipping cost can be saved accordingly.
4. Die-casting aluminum heat sink with the outstanding heat dissipation performance.
5. CLICK-ON occupancy sensor kit allows upgrading to smart lighting in seconds.
6. 5 years warranty



Product Specification

Model: UFO 250W

Lamp Power(W): 250W

Input Voltage(V): AC 165-265V

Working Temperature(°F): 20 - 45

Lamp Body Material: Aluminum

Color Rendering Index(Ra): 80

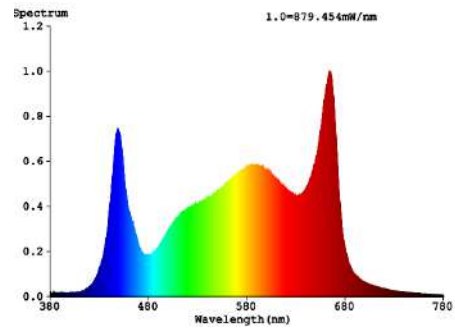
Application: Seed Starting, BLOOM, VEG

Beam Angle: 120°

Warranty(Year): 5-Year

Dimension & Spectrum

Product Wattage	Dimensions(mm/in)		Product Weight
	D	H	
250W	422mm	220mm	
	16.61"	8.66"	



Product Photos



Key Benefits

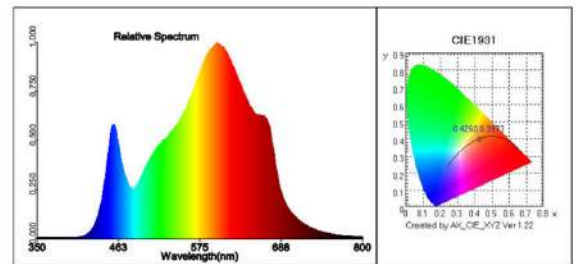
1. Snap-on installation which saves labor cost
2. Patented design, uniform lighting distribution, higher yields
3. Totally tool free assemble, no need rewiring
4. Freight cost-saving
5. Full spectrum with original high efficiency diodes
6. More than 50% higher in PPF compared with HID lamps
7. Energy saving with 37% lower power consumption than HID lamps
8. Isolated driver with UL certified, 0-10V casade dimming switch with 2 pcs RJ ports
9. 6063 aluminum housing designed in wave shape, excellent heat dissipation with lower lighting decay
10. Daisy-chain control, reflector can be added, full use of light
11. Support spectrum, package, logo customized; OEM & ODM service available



Product Specification

Model No:	320W-V1	320W-V2	
Power Driver:	EUD-320S670DT	EUD-320S670DT	
PPF:	896 $\mu\text{mol} \cdot \text{s}$	928 $\mu\text{mol} \cdot \text{s}$	
EFF:	2.8 $\mu\text{mol}/\text{J}$	2.9 $\mu\text{mol}/\text{J}$	
PPFD	40CM Max:	1352 $\mu\text{mol}/\text{m}^2 \cdot \text{s}$	1475 $\mu\text{mol}/\text{m}^2 \cdot \text{s}$
	60CM Max:	765 $\mu\text{mol}/\text{m}^2 \cdot \text{s}$	850 $\mu\text{mol}/\text{m}^2 \cdot \text{s}$
Actual Power:	320Watt \pm 10%		
Packing Size:	645*225*160mm		
Product Size:	583*122*76mm (1.91*0.41')		
Dimming Mode:	0-10V Dimming RJ Dimming(Multi-unit network control dimming can be carried out)		
LED Type:	Samsung LM301B / LM301H+ Epistar 5730 660nm		
Standard Package:	Lamp body (heat sink + lamp board) 1pcs, power supply 1PCS (including knob dimmer), electricity Source line 1pcs, several screws, manual		

Spectrum & PPF MAP



Test Params

E= 9.1156e+004 lx	E(f _c)=8471.73 fc	E _e =2.8862e+002 W/m ²	
CIE-x= 0.4260	CIE-y= 0.3973	CIE-u'=0.2464	CIE-v'=0.5171
CCT=3137 K	Lp=599.0 nm	HW=150.1 nm	Ld=582.7 nm
Pur=47.1 %	RedRatio(%)=22.2	GreenRatio(%)=74.7	BlueRatio(%)=3.1
DUV=-0.0011	S/P=1.44		
Ra=84.4	R1=83	R2=93	R3=95
R4=81	R5=84	R6=92	R7=84
R8=63	R9=19	R10=85	R11=81
R12=74	R13=86	R14=98	R15=77

SDCM= 7.4(F3000)

White Class: C78.377_3000K

E_b=47.65043 (W/m²) E_v=121.12572 (W/m²) E_r=116.03059 (W/m²)
 PPFd=41.50735 ($\mu\text{mol} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$) PPFd=1352.17651 ($\mu\text{mol} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$) PPF_{Ratio}=2.66574

Product Details

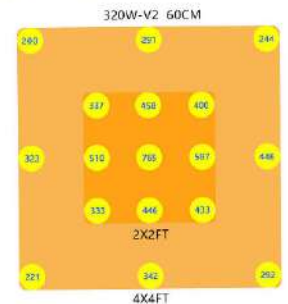
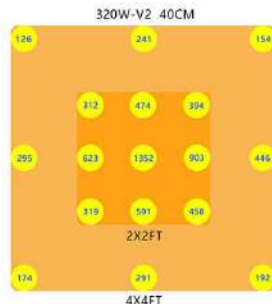
Other

Our

1. Single fin, no buckle, easy to deform
2. Thin fins, easy to work injury during installation or production

VS

1. Folding Design, Safe Production, Reducing Work Injuries.
2. Fin type heat sink is lighter and better heat dissipation.



LM301B 2.8 $\mu\text{mol}/\text{J}$
 LM301H 2.9 $\mu\text{mol}/\text{J}$



EFFICIENT AND POWERFUL FOR BOUNTIFUL HARVESTS ALL YEAR LONG
 Control the seasons year-round with this Plug To Use light series. Plug To Use lights from broad white to high red, offers growers full spectrum spectrum, helping maximize crop growth in greenhouse and indoor settings while balancing with energy efficiency and human work environment. Expect high quality, reliable crop yields and sustainable control over your



Key Benefits

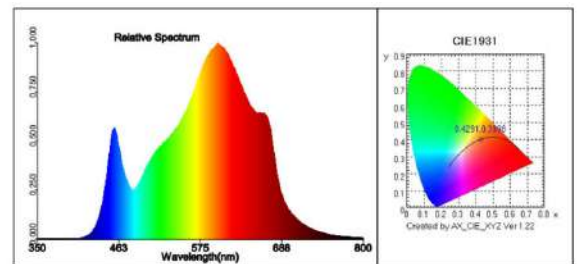
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Product Specification

Model No:	650W-V1	650W-V2
Power Driver:	EUD-320S670DT*2	EUD-320S670DT*2
PPF:	1820 $\mu\text{mol}\cdot\text{s}$	1885 $\mu\text{mol}\cdot\text{s}$
EFF:	2.8 $\mu\text{mol}/\text{J}$	2.9 $\mu\text{mol}/\text{J}$
PPFD	40CM Max:	2196 $\mu\text{mol}/\text{m}^2\cdot\text{s}$
	60CM Max:	1441 $\mu\text{mol}/\text{m}^2\cdot\text{s}$
Actual Power:	650Watt \pm 10%	
Packing Size:	645*435*160mm	
Product Size:	1185**122*76mm (3.82**0.41')	
Dimming Mode:	0-10V Dimming RJ Dimming(Multi-unit network control dimming can be carried out)	
LED Type:	Samsung LM301B / LM301H+ Epistar 5730 660nm	
Standard Package:	Lamp body (heat sink + lamp board) 2pcs, power supply 2PCS (including knob dimmer), electricity Source line 2pcs, several screws, manual	

Spectrum & PFFD MAP



Test Params

E= 1.4837e+005 lx	E(fc)=13789.2 fc	Ee=4.6773e+002 W/m2	
CIE-x= 0.4291	CIE-y= 0.3998	CIE-u=0.2473	CIE-v=0.5185
CCT=3102 K	Lp=599.0 nm	HW=147.0 nm	Ld=582.6 nm
Pur=48.8 %	RedRatio%=22.3	GreenRatio%=74.6	BlueRatio%=3.1
DUV=-0.0006	S/P=1.43		
Ra=84.2	R1=83	R2=93	R3=95
R4=81	R5=83	R6=92	R7=84
R8=63	R9=18	R10=85	R11=81
R12=74	R13=86	R14=98	R15=77

SDCM= 6.0(F3000)

White Class:C78.377_3000K

Eb=76.42606 (W/m2) Ey=196.85611 (W/m2) Er=189.93031 (W/m2)
PPFDf=65.21552 ($\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$)PPFD=2196.81421 ($\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$)Ratio=2.76934

Product Details

Other



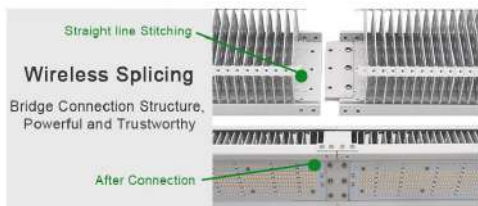
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Our



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VS



Germination Seeding Veg Flower Result

Seeding: 36" / 25% Power
Vegetative: 48" / 50% Power (or 24" @ 25% Power)
Flowering: Wk 1-3 - @ 24-30" / 50% Power
Wk 4-6 @ 18"-24" / 75% Power
Wk 7-8 @ 18"-24" / 100% Power
Wk 9-10 @ 12"-18" / 100% Power

Can Cooperate With PWM Controller for Network Dimming.



0-10V Dimmer



PWM Controller

1. Dim 0-100%
2. 8 Times Set Up in 24 Hours
3. Pre-Set 2 Groups Data
4. Support Daisy Chain
5. Remote Dimmable
6. Can Feel Temperature

CONTACT
US



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Bao'an District, Shenzhen.**



Feedback's From Our Happy Customers

" I ordered this light to get seedlings started for my garden. When it arrived, I was really surprised at the compact size. Then again, I was surprised when it tuned the light on. This thing puts out a lot of light! Compared to the older HPS lights used in the past, you could add several of these for the cost of one of those lights, get a lot more linens on your plants, not not generate the heat or anywhere close to the electricity usage of older lights. I think this is a great little light for starting flowers or vegetables for your garden and save some money instead of buying seedlings from a nursery or big box store. "

" Excited to finally grow some indoor plants over the long cold North winter, and going LED to keep electric bill down. This lamp seems to be capable of the grow cycles with the flip of a switch or two. Came with the adjustable height pulley rope and hook setup, including 4 hanging straps with caribiner so it's ready to dangle. Looking forward to fresh homegrown February tomatoes! "

" Easy to put together and is working perfectly in my small greenhouse. I bought a second one so I could start more seeds. "

" We are growing green peppers and having good luck. One plant already has green peppers on it. It gives off only a mild amount of heat. "

" I'm really impressed by how well this light works. I love that you can choose which option you wanna use. This is by far the best light for the price. I've been using it for about a week now and I'm very impressed. I leave the light on for over 24 hours and I have no issues with it. "

" Very good light in its class. Easy to use and set up. Very good light output. Would definitely recommend at its price point. "

" I grow over 300 cactus and succulents for my cactus and succulent society and this light is perfect for them. I love the settings, and the quality of light is spot on for what they need. Thank you! "

