SPECIFICATION

LED Grow Bar Light Fixture

- 2.8 μmol/J
- 1860 μmol/s Total Output
- Full Spectrum+IR

IP65

Min
-4°F
-20°C

Max
135°F
50°C

ETL LISTED

PRODUCT DESCRIPTION

SPECIFICATION

A...... 4/6/8/10/12 Bars Available

B...... 5yrs Warranty Quality Waterproof Driver,UL/cUL Approved

C...... 3.3Lbs Each Bar all Aluminum Body with Great Heat Dissipation

D...... Samsung+Osram Chips Up to 2.8-3.0 umol/j,High Photon Efficiency

E...... Light's Beam Can Be Enlarged into 8ft/16ft/32ft or Longer Accordingly

F...... Rebrand with Custom Spectrum or Logo/Package/OEM/ODM Available

G...... Dimmable Option:0/1-10V Knob/App/Wifi/Computer/Control Tablet+RJ14

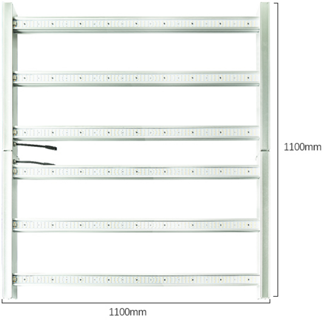
H...... All Parts With UL Approved,ETL for the Complete Light

I...... Really Full Spectrum 3000k+6500k+660nm+730nm.Ideal from Veg to Harvest

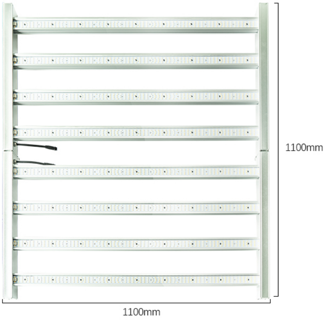
J...... Moveable Driver Reduce the Heat of Grow Area and Easy Install&Maintenance

PRODUCT LEGEND

6bar-480W

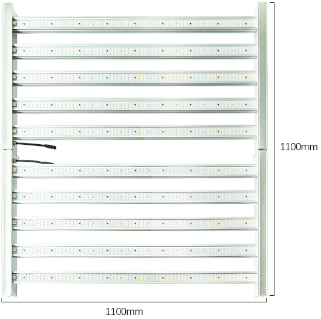

1100mm
1100mm

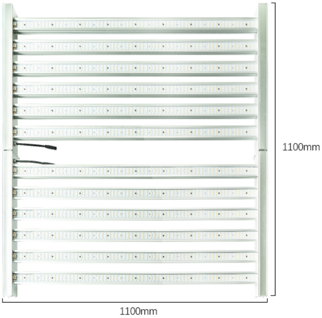
8bar-640W


1100mm
1100mm

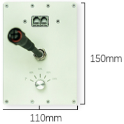
10bar-800W

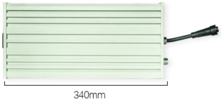
12bar-1000W


1100mm
1100mm

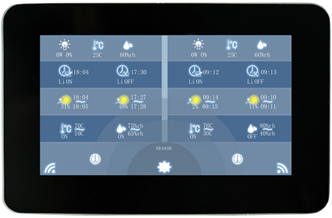

1100mm
1100mm

180° Foldable


150mm
110mm



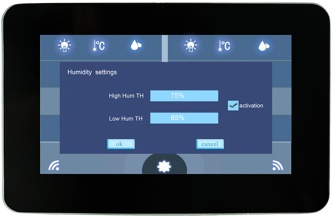
LED CONTROL TABLET



0W 0% 25C 60%rh
18:04 Li ON 17:30 Li OFF
31% 18:04 ~ 18:05 48% 17:27 ~ 17:28
ON 70C ~ 10C ON 75%rh ~ 65%rh

0W 0% 25C 60%rh
09:12 Li ON 09:13 Li OFF
2% 09:14 ~ 09:15 11% 09:10 ~ 09:11
ON 76C ~ 30C OFF 80%rh ~ 40%rh

09:14:56



Humidity settings

High Hum TH 75%
Low Hum TH 65%
☑ activation

Product Features

- Timer
- Dimmer
- Sunrise and Sundown
- Humidity and Temp Sensor
- Veg and Flower Room Grow Separately

TECHNICAL SPECIFICATIONS

Size	L*W:1100mm*1100mm
LED Chip	Samsung LED Chip (lm561c/lm301b/lm301h) +Osram 660nm+730nm
Environment	-20~40℃，45%~95%RH
Ratio	Full Spectrum:Red+White+IR
Frequency	50~60Hz
IP Rating	IP65
Lighting Area	Biggest 1800*1800mm (6ft*6ft for Veg)(5*5ft for Flower)
Materials	Aluminum
Outer Carton Size	480*410*200mm (Driver) 1150*650*210mm (Light)
Spectrum	PhysioSpec Indoor™
Light Output PPF	1860umol
Efficacy	2.8 µmol/J @ 277V AC
AC Input Power	640W @ 277V AC
AC Input Voltage	120-277V AC, 347-480V AC, 50/60Hz
Light Distribution	120°
Mounting Height	6″- 48″ (15-121cm) Above Canopy
Thermal Management	Passive

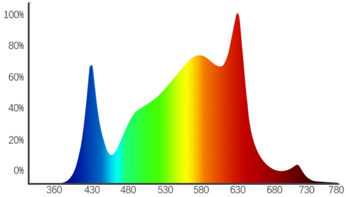
SPECIFICATION

Max. Ambient Temp	135°F / 50°C
Dimming	0/1-10V+RJ14 Controller
THD	< 10%
Lifetime	L90: > 50,000hrs
Certifications	UL 8800, UL 1598 Wet Location
Warranty	5 Year Standard Warranty

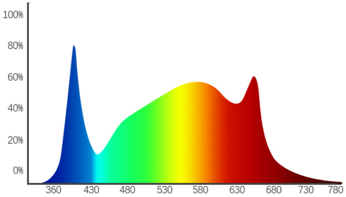
NOMINAL ELECTRICAL AC INPUT*

AC VOLTAGE	120V	208V	230V	277V	347V	400V	480V
AC Current	5.43A	3.06A	2.76A	2.28A	1.87A	1.61A	1.34A
AC Power	652W	636W	635W	631W	648W	645W	644W
Power Factor	0.997	0.991	0.99	0.98	0.995	0.989	0.974

SPECTRUM SELECTED

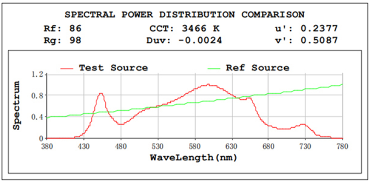


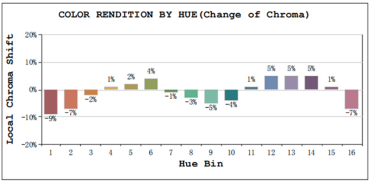
Flower Spectrum

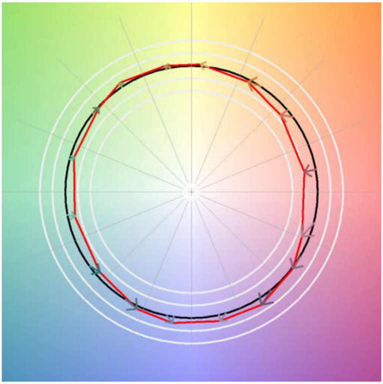


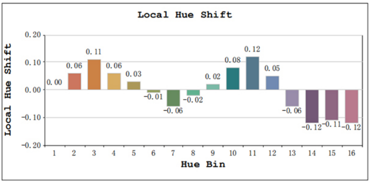
Veg Spectrum

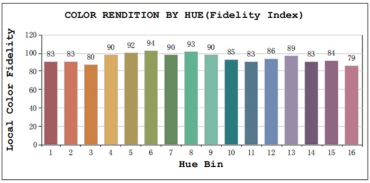
SPECIFICATION

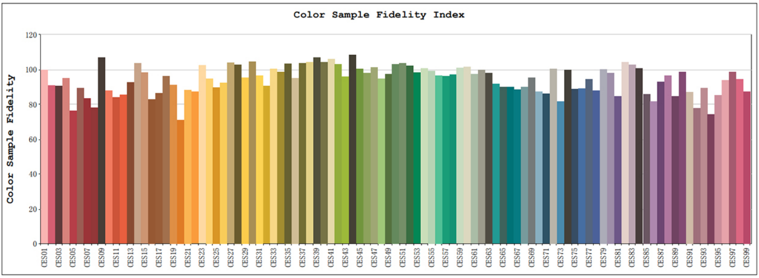












TESTING REPORT

SPECI

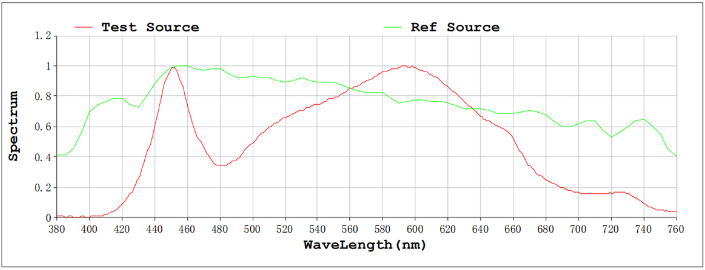
Colour Patches

Colourist's Advice Report

Sector	Lightness	Chroma	Hue
R	−1	−1	0
R/Y	1	−1	3
Y	2	1	4
Y/G	1	1	1
G	1	0	−1
G/C	0	0	0
C	−1	−1	0
C/B	−3	1	6
B	−1	2	3
B/M	−2	1	−2
M	−2	1	−2
M/R	−2	0	−2

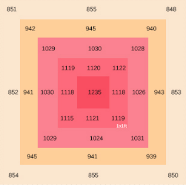
SPECTRAL POWER DISTRIBUTION COMPARISON

TLCI-2012: 72 **CCT: 4062 K** **Duv: -0.0025**

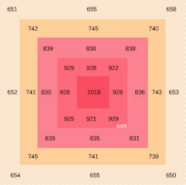


PHOTON FLUX DISTRIBUTION

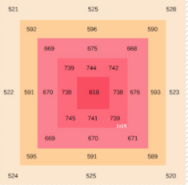
6bar 480W


851 855 848
942 945 940
1029 1030 1028
1119 1120 1122
852 941 1030 1118 1235 1118 1026 943 853
1115 1121 1119
1x1ft
1029 1024 1031
945 941 939
854 855 850

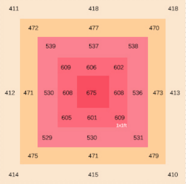
6Bar 6"/ 0.5ft / 15cm


651 655 658
742 745 740
839 838 838
929 928 922
652 741 830 928 1018 928 836 743 653
925 921 929
1x1ft
839 835 831
745 741 739
654 655 650

6Bar 12"/ 1ft / 30cm

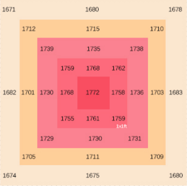

521 525 528
592 596 590
669 675 668
739 744 742
522 591 670 738 818 738 676 593 523
745 741 739
1x1ft
669 670 671
595 591 589
524 525 520

6Bar 18"/ 1.5ft / 45cm

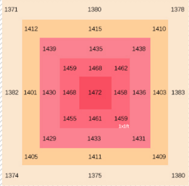

411 418 418
472 477 470
539 537 538
609 606 602
412 471 530 608 675 608 536 473 413
605 601 609
1x1ft
529 530 531
475 471 479
414 415 410

6Bar 24"/ 2ft / 60cm

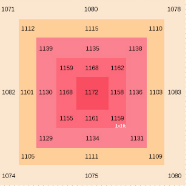
8bar 640W


1671 1680 1678
1712 1715 1710
1739 1735 1738
1759 1768 1762
1682 1701 1730 1768 1772 1758 1736 1703 1683
1755 1761 1759
1x1ft
1729 1730 1731
1705 1711 1709
1674 1675 1680

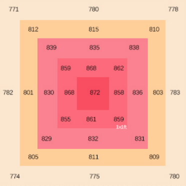
8Bar 6"/ 0.5ft/ 15cm


1371 1380 1378
1412 1415 1410
1439 1435 1438
1459 1468 1462
1382 1401 1430 1468 1472 1458 1436 1403 1383
1455 1461 1459
1x1ft
1429 1433 1431
1405 1411 1409
1374 1375 1380

8Bar 12"/ 1ft/ 30cm

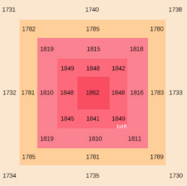

1071 1080 1078
1112 1115 1110
1139 1135 1138
1159 1168 1162
1082 1101 1130 1168 1172 1158 1136 1103 1083
1155 1161 1159
1x1ft
1129 1134 1131
1105 1111 1109
1074 1075 1080

8Bar 18"/ 1.5ft/ 45cm

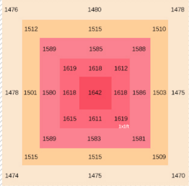

771 780 778
812 815 810
839 835 838
859 868 862
782 801 830 868 872 858 836 803 783
855 861 859
1x1ft
829 832 831
805 811 809
774 775 780

8Bar 36"/ 3ft/ 90cm

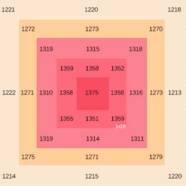
10bar 800W


1731 1740 1738
1782 1785 1780
1819 1815 1818
1849 1848 1842
1732 1781 1810 1848 1862 1848 1816 1783 1733
1845 1841 1849
1x1ft
1819 1810 1811
1785 1781 1789
1734 1735 1730

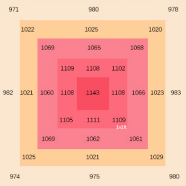
10Bar 6"/ 0.5ft/ 15cm


1476 1480 1478
1512 1515 1510
1589 1585 1588
1619 1618 1612
1478 1501 1580 1618 1642 1618 1586 1503 1475
1615 1611 1619
1x1ft
1589 1583 1581
1515 1515 1509
1474 1475 1470

10Bar 12"/ 1ft/ 30cm

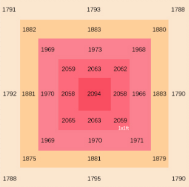

1221 1220 1218
1272 1273 1270
1319 1315 1318
1359 1358 1352
1222 1271 1310 1358 1375 1358 1316 1273 1213
1355 1351 1359
1x1ft
1319 1314 1311
1275 1271 1279
1214 1215 1220

10Bar 18"/ 1.5ft/ 45cm


971 980 978
1022 1025 1020
1069 1065 1068
1109 1108 1102
982 1021 1060 1108 1143 1108 1066 1023 983
1105 1111 1109
1x1ft
1069 1062 1061
1025 1021 1029
974 975 980

10Bar 36"/ 3ft/ 90cm

12bar 1000W


1791 1793 1788
1882 1883 1880
1969 1973 1968
2059 2063 2062
1792 1881 1970 2058 2094 2058 1966 1883 1790
2065 2063 2059
1x1ft
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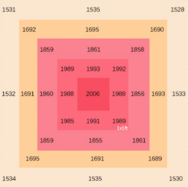
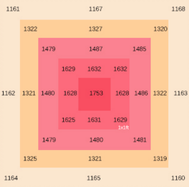
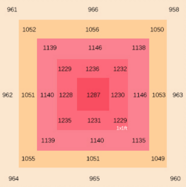
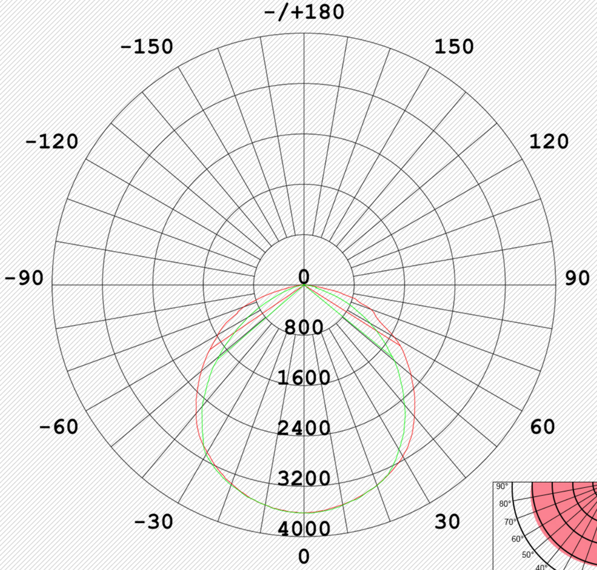
1875 1881 1879
1788 1795 1790

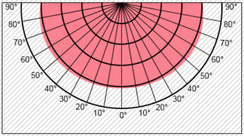

1531 1535 1528
1692 1695 1690
1859 1861 1858
1989 1993 1992
1532 1691 1860 1988 2006 1988 1856 1693 1533
1985 1991 1989
1x1ft
1859 1855 1861
1695 1691 1689
1534 1535 1530


1161 1167 1168
1322 1327 1320
1479 1487 1485
1629 1632 1632
1162 1321 1480 1628 1753 1628 1486 1322 1163
1625 1631 1629
1x1ft
1479 1480 1481
1325 1321 1319
1164 1165 1160


961 966 958
1052 1056 1050
1139 1146 1138
1229 1236 1232
962 1051 1140 1228 1287 1230 1146 1053 963
1235 1231 1229
1x1ft
1139 1140 1135
1055 1051 1049
964 965 960

12Bar 4"/ 0.3ft / 10cm 12Bar 6"/ 0.5ft / 15cm 12Bar 12"/ 1ft / 30cm 12Bar 24"/ 2ft / 60cm





90°
80°
70°
60°
50°
40°
30°
20°
10°
0°
10°
20°
30°
40°
50°
60°
70°
80°
90°

SPECTRAL COLOR

Spectrum - Samsung LED Chip (lm561c/lm301b/lm301h) +Osram 660nm+730nm

Red - Promote Longitudinal Growth.Elongate Stem and Petiole.Enlarge Leaves, but Decrease Chlorophyll Contents

Blue - Promote Horizontal Growth.Thicken Stem&Petiole, Increase Chlorophyll Contents,Improve Density of Stomata of Leaves

Orange - Promote Seeds Germination and Longitudinal Growth

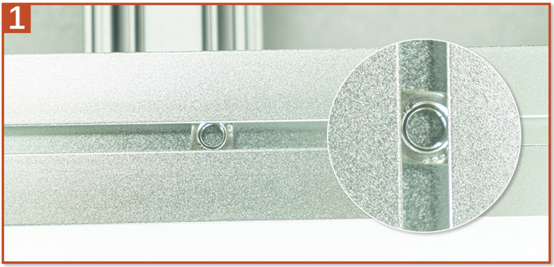
Green - Promote the Formation of Oxygen During Photosynthesis

Violet - Thicken Leaves and Flowers, Resist Extension of Stem and Leaves,Help to Form Anthocyanin

Far Red - Speed Photosynthesis Rates,Stimulate Cell Elongation. Important for Bloom and Seeds Germination

White - Supplement Special Spectra by Combined with Different Spectra

MOUNTING INSTRUCTIONS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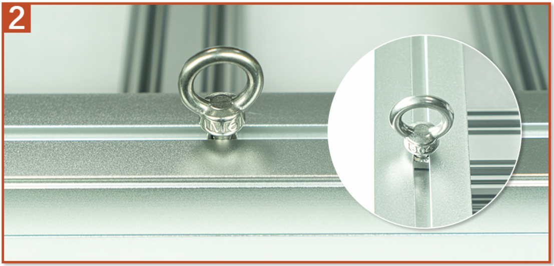
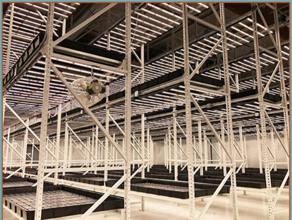


SCENE APPLICATION



Our Lighting Solutions are Designed to Effectively Support Photosynthesis While Offering Dynamic Spectrum Control Where Specific Spectral Ratios can be Created to

SPECIFICAT

Direct Plant Growth and Promote Healthy Plant Development. Our Fixtures are Engineered for Both Indoor (Sole-Source) and Greenhouse Cultivation, Directing light Within the Photosynthetically Active Radiation Region, Which Refers to the light Utilized by Plants for Photosynthesis. For Indoor Cultivation, We have Included White light into our Standard Spectrum to Provide for Plant Metabolic Processes, While Focusing light Within red and Blue PAR Bands to Drive Photosynthesis. Our lighting Strategies are also Built to Significantly Reduce Energy Consumption and Associated Electrical Infrastructure Costs.

SUGGESTIONS AND TIPS

Proposal

- Ideal Working Hours: Vegetables 14-16 Hours / Flowers 12 Hours
- The Working Environment for the Light : -20~40℃, 45%RH~90%RH.
- The Ideal Distance Between Lights Fixture and Plants: 3ft-4ft for Veg;2-3ft for Flower
- Don’t Touch or Move When the Light Working.

Tips

Recommended Indoor Working Temperature: Daytime: 22-28 Degrees/Night: 20-22 Degree

Recommended Carbon Dioxide Concentration: 1200 to 1500 ppm

Recommended Hydraulic VPD: 1.0-1.49kPa / Night: 0.8-1.2kPa

Recommended Relative Humidity: Leaf Stage: 75-80% / Pre-Flowering Stage: 60-70% / Late Flowering 50-55%