

Description:

RX-G600T-500W High power Greenhouses Horticulture LED Medicinal planting lamp, Condensing glass lens, Concentrating Light efficiently and More uniform spectral radiation, directional light ,high light utilization efficiency, more efficient comparison with common grow lights. for various medicinal plant cultivation (dedicated light Recipe), Can also be used for high wire vegetables, vegetable cultivation, flower cultivation, ornamental plant cultivation, succulent plant cultivation, medicinal plant cultivation.



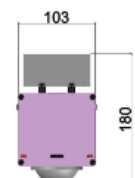
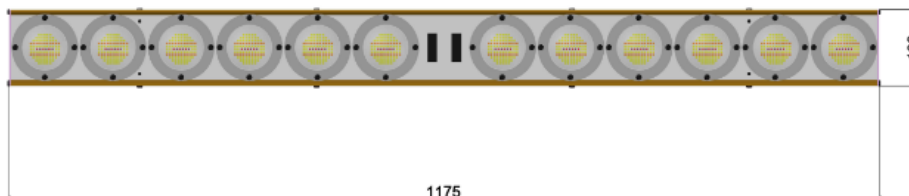
1. 500W top light greenhouse medicinal plant cultivation Horticulture LED
2. Condensing glass lens for higher reliability and weather resistance
3. Samsung or German brand plant and plant special garden LED, PPF efficiency 2.5umol/J (Including lens loss and power loss)
4. Derating the LEDs to improve efficiency and reliability, and derating the ELGC-300-M-AB power supply to increase service life.
5. Optimize the plant spectrum to meet different plant illuminations or customize the spectrum you need.
6. Waterproof IP65
7. Input voltage: 100~305VAC, Power: 500W/G600T, 250W/G600T-IP
8. Lifespan: 50,000 hours.
9. Meet the safety requirements around the world, CE RoHS FCC

Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD $\mu\text{mol}/\text{m}^2/\text{s}$	Luminous flux Radiation Power	Power Input	Comment
RX-G600T	1175x103x125mm 47"x4"x5"	<p>F28</p>	1446 μmol @0.5m 95332Lx	Flux: 81592Lm PPF: 1229 $\mu\text{mol}/\text{s}$	503W/AC230V	Illumination angle 90° Samsung and German brand Horticulture LED
			550 μmol @1m 35757Lx			
			158 μmol @2m 10254Lx			
		<p>F29</p>	1400 μmol @0.5m 95000Lx	Flux: 81500Lm PPF: 1230 $\mu\text{mol}/\text{s}$	500W/AC230V	Outdoor greenhouse light Recipe Samsung and German brand LED
			550 μmol @1m 35000Lx			
			150 μmol @2m 10000Lx			

Surface temperature rise Tc 38K , Operating temperature: -30°C ~ 35°C , Lifespan: 50,000 hours (Note: Ta 25°C)
Tolerance range for optical and electrical data: $\pm 10\%$. Light emitting angle: 90°
Recommended irradiation distance 0.5 ~ 3m

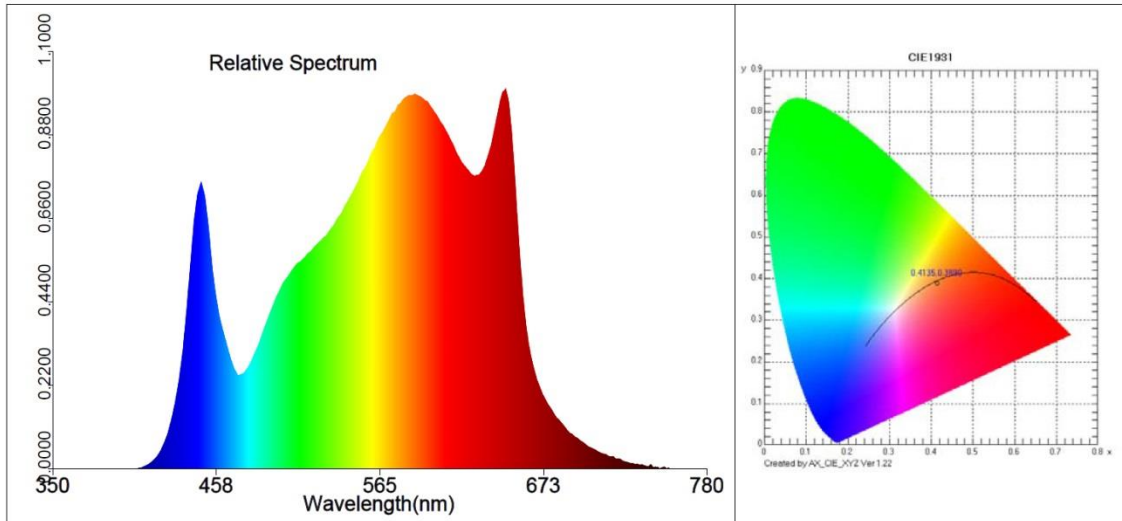
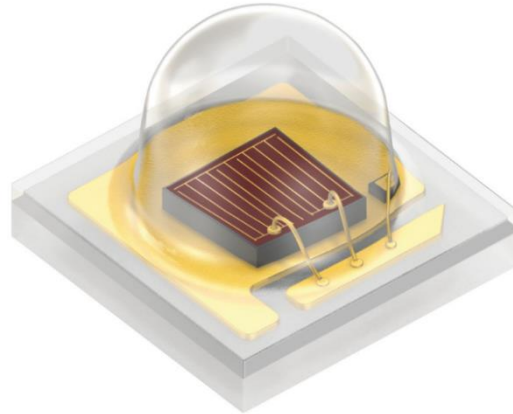
The above data is for reference only!

● Dimension:



UNIT: mm

- High efficiency and energy saving, Samsung LM301b led chip, add Ultra-high efficiency deep red 660 nm



Test parameter:

E= 95332.3 lx

E(fc)=8859.88 fc

CIE x= 0.4135

CIE y= 0.3890

CIE u'=0.2417

CIE v'=0.5118

Tc=3312 K

Lp=661.0 nm

HW=162.0 nm

Ld=582.6 nm

Pur=40.8 %

Ratio_R=21.5 %

Ratio_G=75.3 %

Ratio_B=3.2 %

Duv=-0.00242

Ra=87.8

R1= 87

R2= 93

R3= 97

R4= 86

R5= 87

R6= 91

R7= 88

R8= 74

R9= 40

R10= 85

R11= 86

R12= 75

R13= 88

R14= 99

R15= 83

SDCM= 3.2(3500K/White)
White Class:OUT

1446 μmol/ m²/s

E1=300.99 W/m²

E2=305.79 W/m²

PPFD=1446.2 μmol/(m²·s)

Ech-A=52.855 W/m²

Ech-B=54.468 W/m²

Ef=4.742 W/m²

Eb=50.136 W/m²

Ey=127.66 W/m²

Er=123.45 W/m²

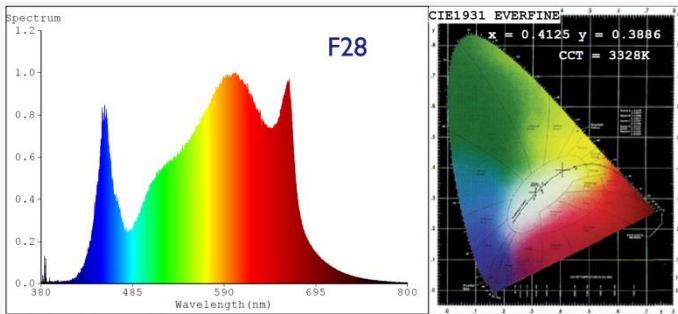
Ep=266.83 Wphyto/m²

Erb_Ratio=2.4623

PPFDf=2.8644E+001 μmol/(m²·s)

PPFD up to 1446 μmol/m²/s

● Testing report



Color Parameters:

Chromaticity Coordinate: x=0.4125 y=0.3886/u'=0.2413 v'=0.5114
 CCT=3328K (Duv=-0.0024) Dominant WL:Ld =582.5nm Purity=40.4%
 Ratio:R=21.5% G=75.3% B=3.2% Peak WL:Lp=601.9nm FWHM=160.4nm
 Render Index:Ra=87.3 AvgR=83.1
 R1 =86 R2 =94 R3 =97 R4 =85 R5 =87 R6 =91 R7 =87
 R8 =72 R9 =35 R10=85 R11=85 R12=73 R13=88 R14=99 R15=82

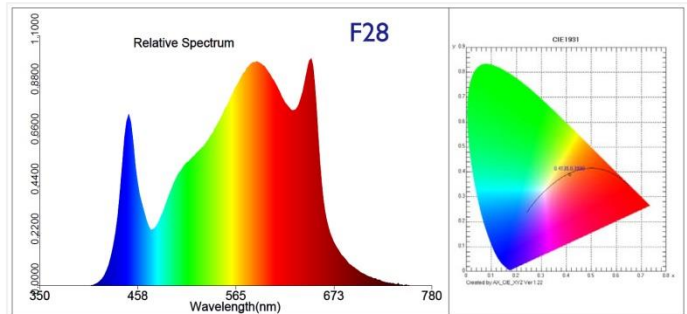
Photo Parameters: 1229µmol/s 503W

Flux = 81592 lm Eff. : 162.27 lm/W Fe = 261.9 W
 Scotopic:1.24e+005 S/P:1.5198
 Photosynthetic:PPF:1228.7µmol/s PAR WATT:2.5609e+005mW (400-700nm)

Electrical parameters:

V = 230.52 V I = 2.199 A P = 502.8 W PF = 0.9700
 LEVEL:OUT WHITE:ANSI_3500K

RX-G600T-F28 230V PPF Output test



Test parameter:

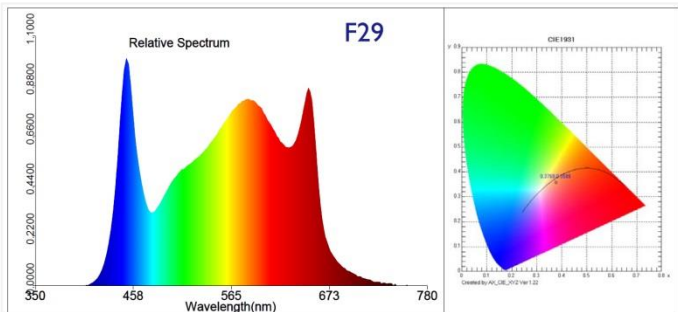
E= 95332.3 lx E(fc)=8859.88 fc
 CIE x= 0.4135 CIE y= 0.3890 CIE u'=0.2417 CIE v'=0.5118
 Tc=3312 K Lp=661.0 nm HW=162.0 nm Ld=582.6 nm
 Pur=40.8 % Ratio_R=21.5 % Ratio_G=75.3 % Ratio_B=3.2 %
 Duv=-0.00242
 Ra=87.8 R1= 87 R2= 93 R3= 97
 R4= 86 R5= 87 R6= 91 R7= 88
 R8= 74 R9= 40 R10= 85 R11= 86
 R12= 75 R13= 88 R14= 99 R15= 83

SDCM= 3.2(3500K/White) White Class:OUT

1446µmol/m²/s

E1=300.99 W/m2 E2=305.79 W/m2 PPF=1446.2 µmol/(m·s)
 Ech-A=52.855 W/m2 Ech-B=54.468 W/m2 Ef=4.742 W/m2
 Eb=50.136 W/m2 Ey=127.66 W/m2 Er=123.45 W/m2
 Ep=266.83 Wphyto/m2 Erb_Ratio=2.4623

RX-G600T-F8 503W 0.5m PPF Output test



Test parameter:

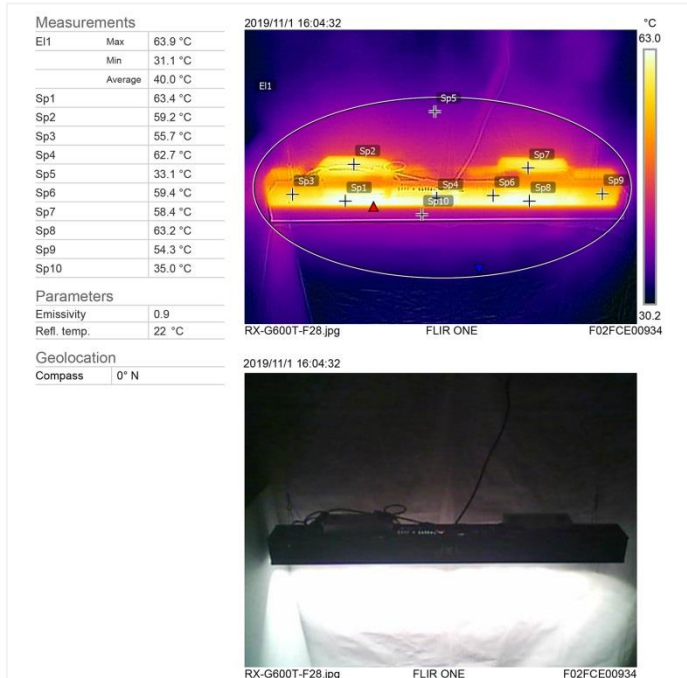
E= 95000.3lx E(fc)=6753.05 fc
 CIE x= 0.3757 CIE y= 0.3591 CIE u'=0.2292 CIE v'=0.4928
 Tc=3998 K Lp=455.0 nm HW=26.5 nm Ld=584.3 nm
 Pur=20.5 % Ratio_R=19.4 % Ratio_G=76.1 % Ratio_B=4.5 %
 Duv=-0.00712
 Ra=89.6 R1= 90 R2= 96 R3= 96
 R4= 87 R5= 90 R6= 92 R7= 88
 R8= 78 R9= 51 R10= 91 R11= 86
 R12= 72 R13= 92 R14= 99 R15= 88

SDCM= 9.1(F4000) White Class:OUT

1400µmol/m²/s

E1=296.87 W/m2 E2=300.77 W/m2 PPF=1400 µmol/(m·s)
 Ech-A=49.523 W/m2 Ech-B=61.448 W/m2 Ef=3.8630 W/m2
 Eb=68.569 W/m2 Ey=1222.121 W/m2 Er=106.42 W/m2
 Ep=258.19 Wphyto/m2 Erb_Ratio=1.924

RX-G600T-F29 500W 0.5m PPF Output test



RX-G600T Surface temperature test

- 90pcs white LEDs + 4pcs 660nm red LEDs in one lens, higher light efficiency



Total 1128LEDs

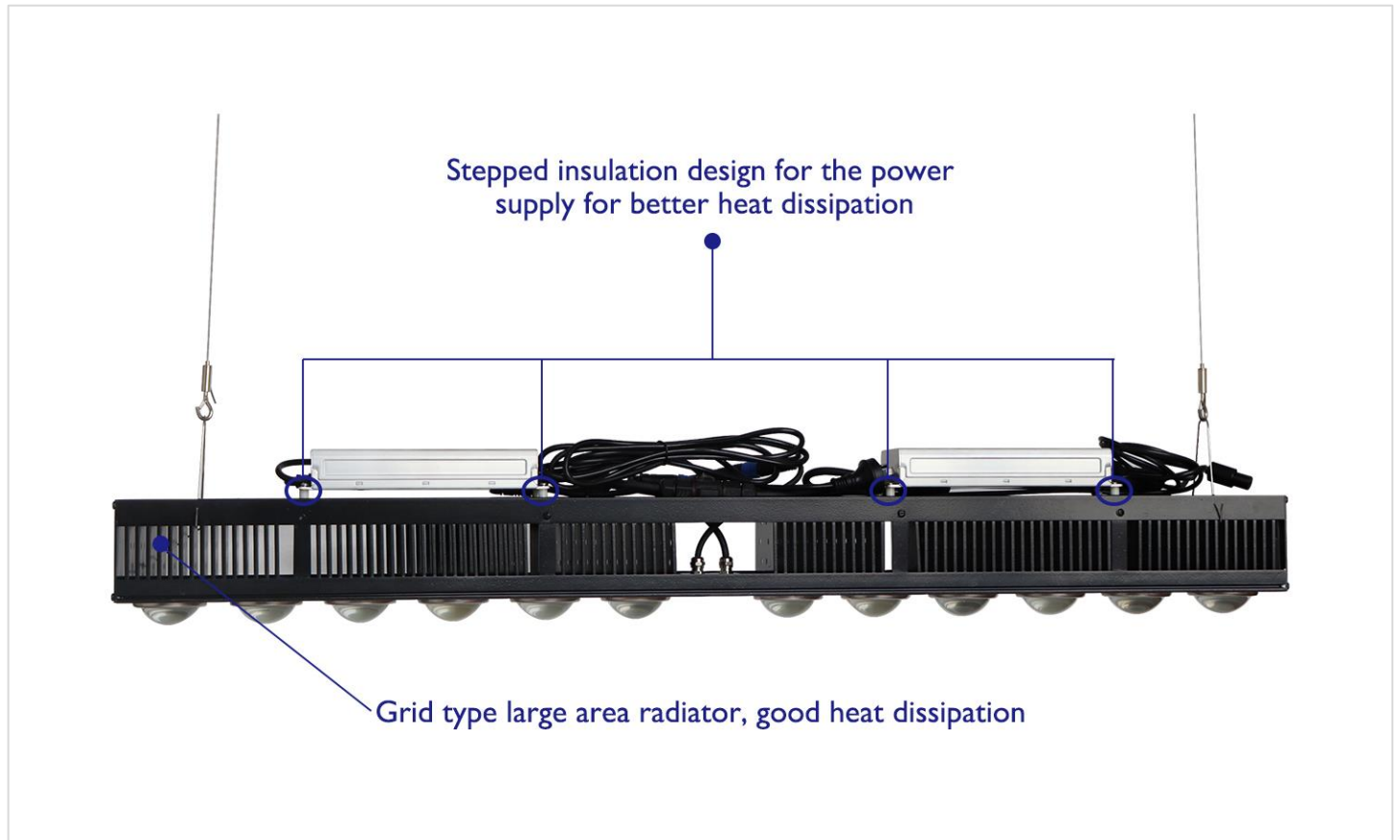
- Glass lens design, high transparency, high temperature resistance, pressure resistance, good chemical stability, good water resistance



- Meanwell power supply, dimmable, waterproof, high reliability, 3 in 1 dimming function (0~10VDC, PWM signal, or resistance) Input 100 ~305VAC



- Rasterized heat sink design, large-area heat dissipation effect, stepped power supply installation, effectively isolate the heat transfer of the plant light module heat sink to the power drive



● Electronic installation instructions

1. When open the package, please check whether the inside is including product, accessory, label, certificate quality. And please assure that the light is perfect without any damage.
2. The wires of LED Light is three-core, the standard size of the wire is $3 \times 1\text{mm}^2$ or $3 \times 1.5\text{mm}^2$ and the outer diameter is $\Phi 7 \sim 12\text{mm}$, brown wire is live line, blue wire is null line, yellow & green is ground line.
3. LED Light will work when the voltage up to rated voltage, so please be sure the voltage within the requested range, or it will damage the light which can't be repaired.
4. when the electrical continuity is connected, the lead wire should be in electric insulating The way of connect wire:

Attention

1. In order to make sure the light can work safety and stability, the ground line should be connected the earth.
2. When connecting the wires please turn off the power, and check whether the wires are connected correctly. Never connect the wires in opposite way, or the power should not be turned on.
3. Please keeping the trip bolt being fastening and reliable, in case of the light fall down of looseness.
4. When finishing connect the wires, please use the insulation gummed tape to convolve the wires, confirm the insulation and solve the waterproof problem.