

Description: RX-G30090 High-efficiency plant light module with efficiency up to 3.2umol/J, Samsung LM301H lamp bead and German brand gardening LED, new design patented product, unique protective reflector cup - efficient concentrating, uniform spectral radiation, directional illumination, light utilization Higher, especially suitable for medicinal planting with high PPFD illumination. marijuana (cannabis)



1. High efficiency, 90 Type yureflector protection, efficiency up to 3.2umol/J, F23 spectrum
2. Samsung LM301H horticulture and German brand gardening LED
3. Preferred plant light recipe, F23 more deep red spectrum, higher light absorption rate; F24 contains far red and UVA which is conducive to the formation of flower and medicinal ingredients.
4. Input voltage: DC28~33V, safe and reliable
5. Optional kit, including power supply and heat sink
6. 50,000 hours of service life
7. CE RoHS FCC

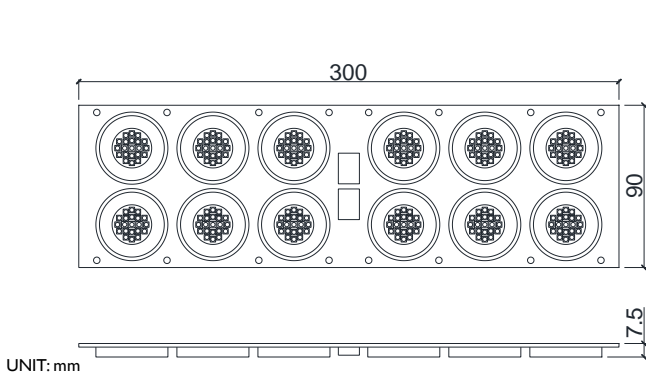
Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD $\mu\text{mol}/\text{m}^2/\text{s}$	Luminous flux PAR Output	Power Input	Comment
RX-G30090-90	300x90x7.5mm	<p>F23</p>	425 μmol @0.3m 24597Lx	139 $\mu\text{mol}/\text{s}$ 7997Lm	1.4A @29.8V 43W	3.2umol/J Tcp temperature rise 18K
			697 μmol @0.3m 39258Lx	227 $\mu\text{mol}/\text{s}$ 12966Lm	2.4A @30.6V 73W	3.1 umol/J Please add heat sinks!
			1049 μmol @0.3m 59298Lx	332 $\mu\text{mol}/\text{s}$ 18792Lm	3.6A @31.3V 113W	2.9umol/J Please add heat sinks!
RX-G30090-90	300x90x7.5mm	<p>F24</p>	375 μmol @0.3m 23933Lx	124 $\mu\text{mol}/\text{s}$ 8152Lm	1.4A @30.8V 44W	Add UV395nm and far red730nm
			629 μmol @0.3m 39991Lx	201 $\mu\text{mol}/\text{s}$ 13195Lm	2.4A @31.7V 76W	Promote the formation of flower and medicinal ingredients
			936 μmol @0.3m 59348Lx	292 $\mu\text{mol}/\text{s}$ 19093Lm	3.6A @32.7V 118W	

Working temperature: - 30°C ~ 40°C ,Lifespan: 50,000 hours (Note: Max Tcp 70 °C),Power \geq 2.4A Heat sinks need to be added!

Tolerance range for optical and electrical data: \pm 10 %. Beam angle 90°, Recommended irradiation distance: 0.2~0.5m

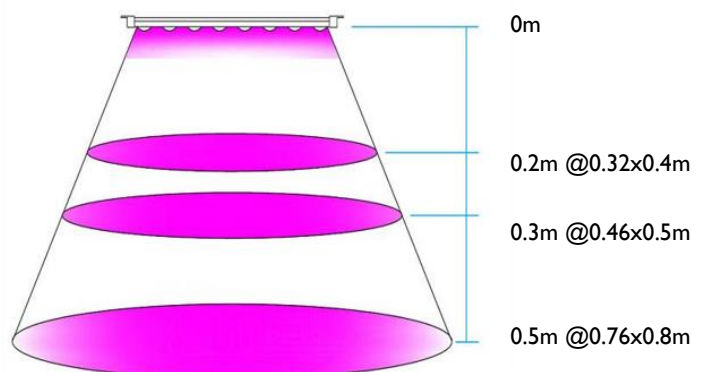
The above data is for reference only!

Dimension:



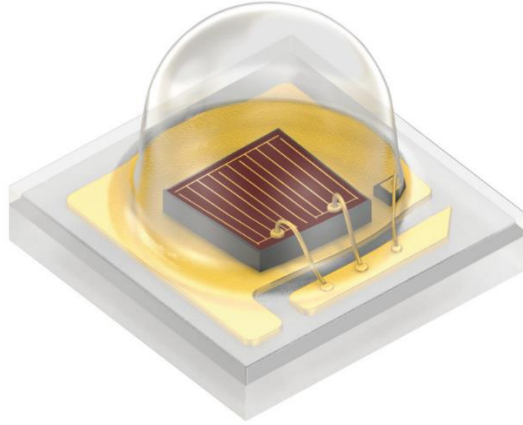
RX-G30090-90

Depth distance & Coverage:



Max PPFD intensity 50%

- High efficiency and energy saving, Samsung LM301b led chip, add German brand 660nm or 730nm



RX-G30090-F24

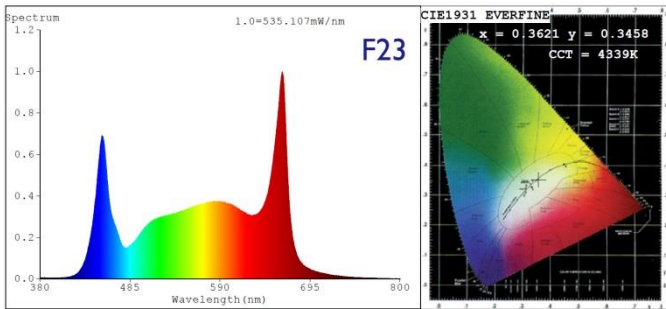
Add UV395nm and far red730nm Promote the formation of flower and medicinal ingredients



RX-G30090-F23

Add far red660nm (3 lamp beads) More deep red spectrum for higher light absorption rate

● PPF PAR testing report



Color Parameters:

Chromaticity Coordinate: $x=0.3621$ $y=0.3458$ $u'=0.2254$ $v'=0.4844$
 CCT=4339K (Duv=-0.0094) Dominant WL:Ld =588.3nm Purity=12.4%
 Ratio:R=19.3% G=76.0% B=4.6% Peak WL:Lp=662.8nm FWHM=19.8nm
 Render Index:Ra=95.5 AvgR=93.0
 R1 =98 R2 =97 R3 =93 R4 =96 R5 =98 R6 =92 R7 =97
 R8 =93 R9 =80 R10=94 R11=95 R12=73 R13=98 R14=96 R15=94

Photo Parameters:

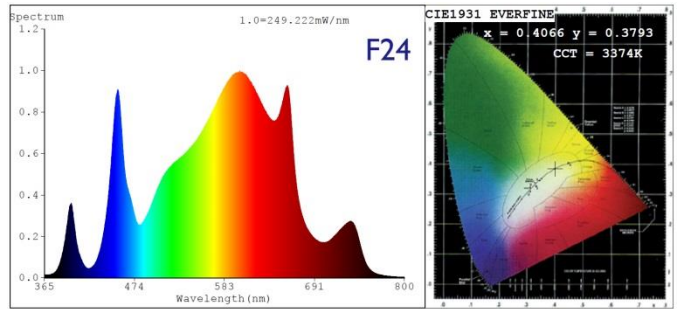
227µmol/J 73w

Flux = 12966 lm Eff. : 176.93 lm/W Fe = 48.46 W
 Scotopic:24910 S/P:1.9213
 Photosynthetic:PPF:227.31µmol/s PAR WATT:47820mW(400-700nm)

Electrical parameters:

V = 30.550 V I = 2.399 A P = 73.28 W PF = 1.000
 LEVEL:OUT WHITE:OUT

RX-G30090-F23 2.4A PPF Output



Color Parameters:

Chromaticity Coordinate: $x=0.4066$ $y=0.3793$ $u'=0.2414$ $v'=0.5066$
 CCT=3374K (Duv=-0.0054) Dominant WL:Ld =583.9nm Purity=35.9%
 Ratio:R=21.7% G=74.9% B=3.4% Peak WL:Lp=601.3nm FWHM=158.9nm
 Render Index:Ra=88.5 AvgR=85.0
 R1 =88 R2 =95 R3 =96 R4 =87 R5 =89 R6 =92 R7 =87
 R8 =74 R9 =41 R10=88 R11=87 R12=77 R13=90 R14=99 R15=85

Photo Parameters:

201µmol/J 76w

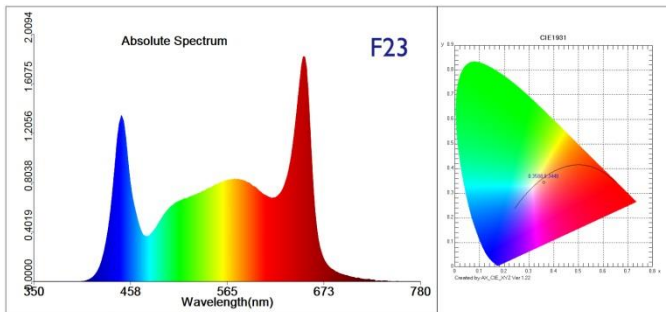
Flux = 13195 lm Eff. : 173.45 lm/W Fe = 46.26 W
 Scotopic:20594 S/P:1.5608
 Photosynthetic:PPF:201.12µmol/s PAR WATT:42236mW(400-700nm)

Electrical parameters:

V = 31.710 V I = 2.399 A P = 76.07 W PF = 1.000
 LEVEL:OUT WHITE:ANSI_3500K

RX-G30090-F24 2.4A PPF Output

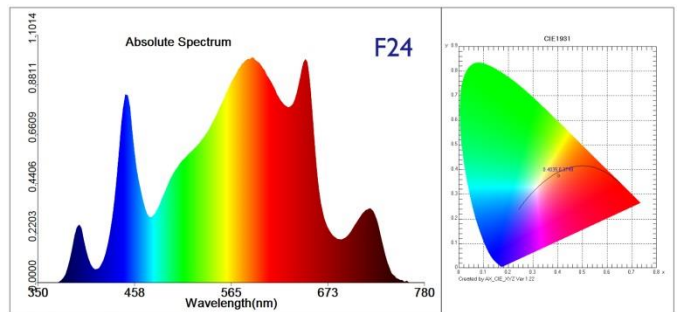
● PPFD testing report



Test parameter:

E= 59298.2 lx E(fc)=5510.98 fc
 CIE x= 0.3588 CIE y= 0.3440 CIE u'=0.2239 CIE v'=0.4830
 Tc=4444 K Lp=864.0 nm HW=27.3 nm Ld=588.7 nm
 Pur=10.9 % Ratio_R=18.9 % Ratio_G=76.3 % Ratio_B=4.8 %
 Duv=-0.00919
 Ra=95.6 R1= 98 R2= 97 R3= 93
 R4= 96 R5= 97 R6= 92 R7= 97
 R8= 95 R9= 85 R10= 93 R11= 95
 R12= 74 R13= 98 R14= 96 R15= 95
 SDCM=13.6(F4000) White Class:OUT
1049µmol/m²/s
 E1=220.78 W/m2 E2=222.83 W/m2 PPF=1049.4 µmol/(m·s)
 Ech-A=49.221 W/m2 Ech-B=46.411 W/m2 Ef=2.0381 W/m2
 Eb=51.719 W/m2 Ey=80.785 W/m2 Er=88.426 W/m2
 Ep=191.27 Wphyto/m2 Erb_Ratio=1.7097
 PPFDF=1.2303E+001 µmol/(m²·s)

RX-G30090-90-F23 0.3m | 13W PPFD Output

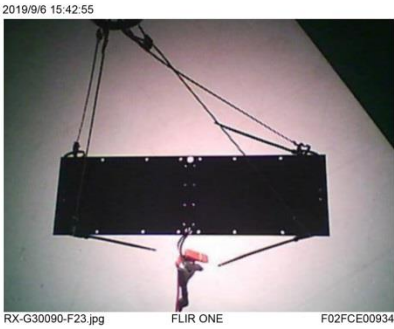
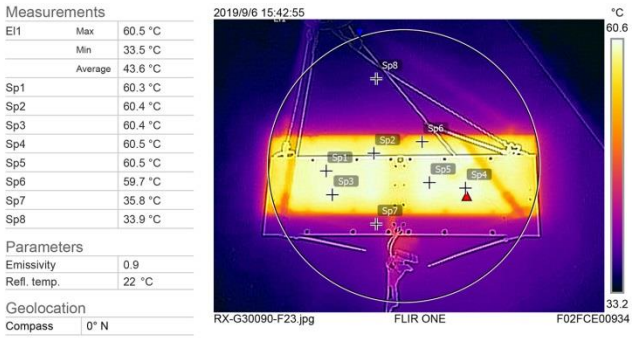


Test parameter:

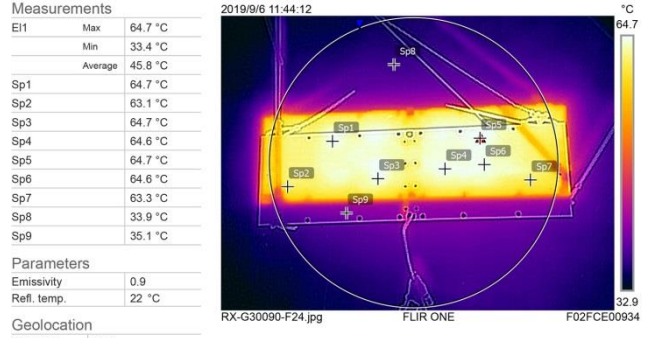
E= 59347.5 lx E(fc)=5515.56 fc
 CIE x= 0.4035 CIE y= 0.3749 CIE u'=0.2412 CIE v'=0.5042
 Tc=3405 K Lp=600.0 nm HW=164.1 nm Ld=584.6 nm
 Pur=33.6 % Ratio_R=21.5 % Ratio_G=74.9 % Ratio_B=3.6 %
 Duv=-0.00670
 Ra=89.0 R1= 89 R2= 95 R3= 96
 R4= 87 R5= 89 R6= 92 R7= 88
 R8= 76 R9= 47 R10= 89 R11= 86
 R12= 79 R13= 91 R14= 99 R15= 86
 SDCM= 7.0(3500K/White) White Class:OUT
936µmol/m²/s
 E1=196.09 W/m2 E2=215.33 W/m2 PPF=936.1 µmol/(m·s)
 Ech-A=35.681 W/m2 Ech-B=36.696 W/m2 Ef=15.604 W/m2
 Eb=38.329 W/m2 Ey=79.116 W/m2 Er=78.799 W/m2
 Ep=176.37 Wphyto/m2 Erb_Ratio=2.0559
 PPFDF=9.5682E+001 µmol/(m²·s)

RX-G30090-90-F24 0.3m | 18W PPFD Output

● Surface temperature test



RX-G30090-90-F23 1.4A@29.8V Surface temperature test



RX-G30090-90-F24 1.4A@30.8V Surface temperature test