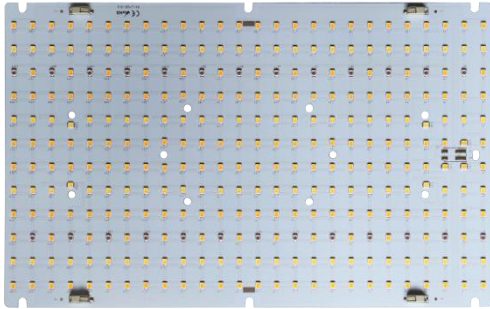


Description: RX-LM28-312 Medicinal plant LED grow Light module horticulture lighting group Kit, Full spectrum, Designed for Well Balanced Growth plants, Compared with the LM561H and LM301H modules, the additional hyper red light is 660nm. Suitable for use in basement and other No sunshine environment for planting crops. marijuana (cannabis)



1. High efficiency plant light Horticulture module, PPF efficiency up to 2.6μmol /Joule
2. White-based full spectrum, Increase deep red light 660nm
3. Aluminum substrate size: 11.25" x6.88" (286x175mm)
4. KIT Products, It is 10 mm higher than the ordinary radiator and an additional 5 mm to ensure low temperature rise.
5. Customize the size, power, spectrum, PAR output, PPF output you need
6. LED Module Input voltage: 0~37V, input current 1.5~3.9A
7. Service life 50,000 hours
8. CE RoHS FCC

Model	Dimension LxWxH	Spectral Wavelength	Photon PPF μmol/m²/s	Luminous flux Radiation Power	Power Test Input	Comment
RX-LM28-312-S2	286x175x1.6mm 11.3"x6.9"x 0.6"	S2 3K106K2	341μmol @0.3m 23635Lx	9554Lm 138umol/s	1.6A @33.0V	2.6μmol/J T _{cp} 65°C
			803μmol @0.3m 56126Lx	22984Lm 330umol/s	3.9A @35.7V	2.4μmol/J Need ADD heat sink
RX-LM28-312-S2-K1	325x200x15mm* 12.8"x7.9"x 0.7"	S2	745μmol @0.3m 52078Lx	20968Lm 301umol/s	AC 136.5W	Includes heat sink & Meanwell ELG-150
RX-LM28-312-S3	286x175x1.6mm 11.3"x6.9"x 0.6"	S3 3K74K4R1	328μmol @0.3m 22179Lx	9155Lm 137umol/s	1.6A @32.4V	Increased Deep (hyper) Red LED
			778μmol @0.3m 52847Lx	21708Lm 324umol/s	3.9A @35.3V	
RX-LM28-312-S3-K1	325x200x15mm* 12.8"x7.9"x 0.7"	S3	731μmol @0.3m 49683Lx	19921Lm 297umol/s	AC 134.5W	
RX-LM28-312-S4	286x175x1.6mm 11.3"x6.9"x 0.6"	S4 3K76KS4R1	304μmol @0.3m 19365Lx	7934Lm 126umol/s	1.6A @33.2V	Increased Deep (hyper) Red LED, Increased Purple Spectrum
			713μmol @0.3m 45351Lx	18447Lm 293umol/s	3.9A @35.4V	
RX-LM28-312-S4-K1	325x200x15mm* 12.8"x7.9"x 0.7"	S4	676μmol @0.3m 43154Lx	17478Lm 276mol/s	AC 136.5W	

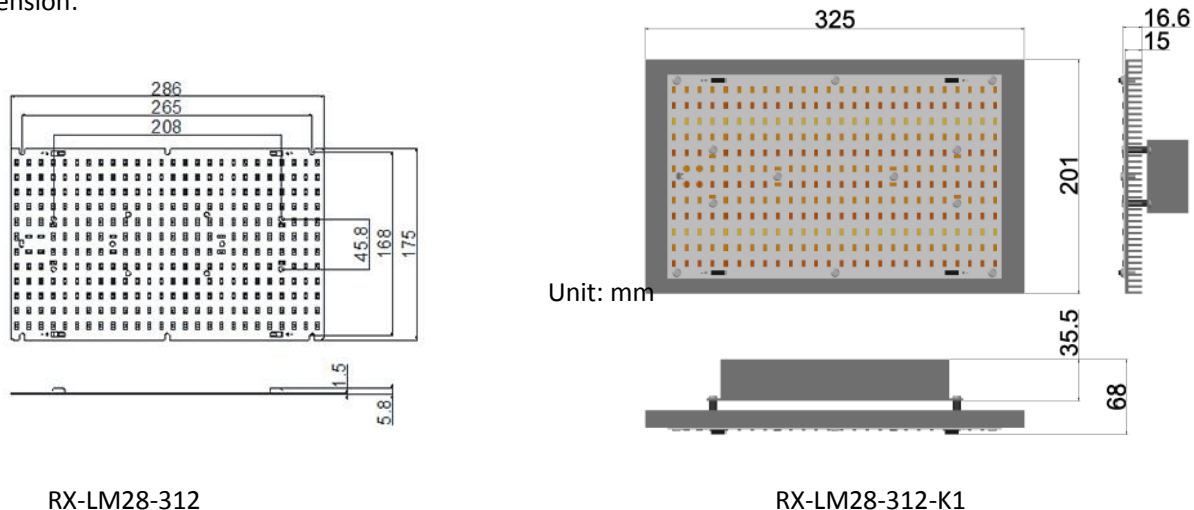
K1 Surface temperature rise T_c 33°K , Operating temperature: -30 °C ~ 40°C , Lifespan: 50,000 hrs (Note: T_a ≤ 25 ° C)

Tolerance range for optical and electrical data: ±10 % . : * Size is the heat sink profile size

Recommended irradiation distance 0.2-0.5 meters. K1 Suitable for 16"x16", 24" x24", 32" x32" grow tents,

The above data is for reference only!

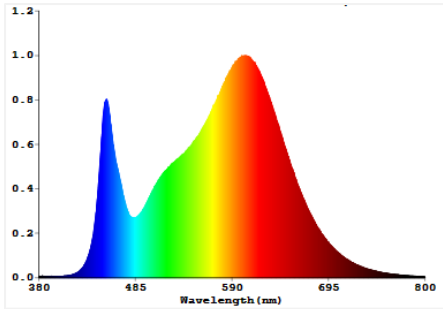
● Dimension:



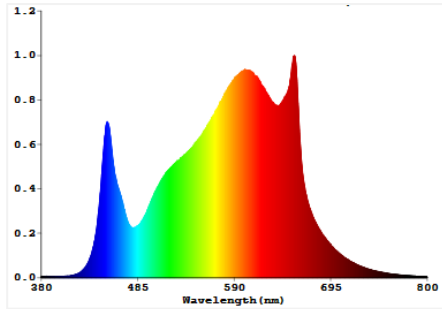
RX-LM28-312

RX-LM28-312-K1

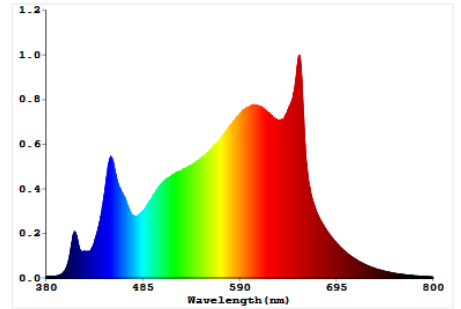
- Design for balancing plant growth, horticultural full spectrum plant lamp module



RX-LM28-312-S2 Light Recipes

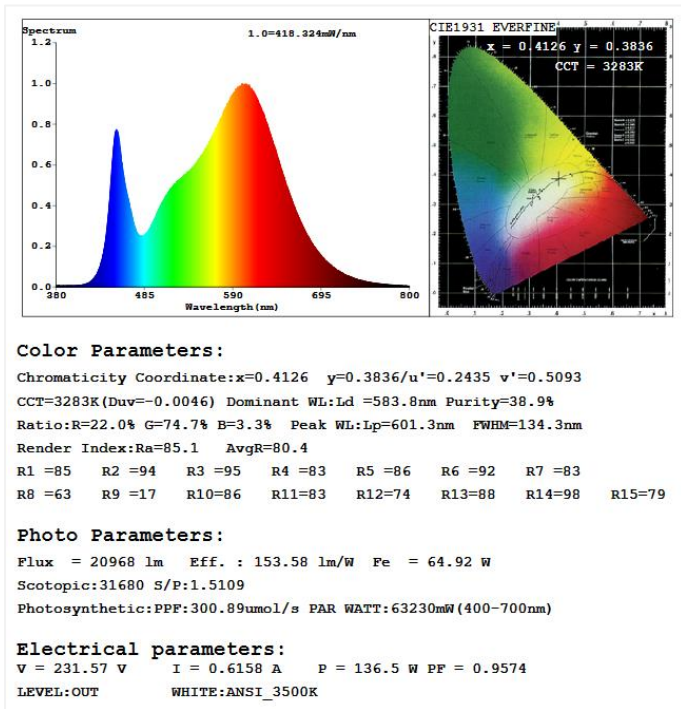


RX-LM28-312-S3 Light Recipes

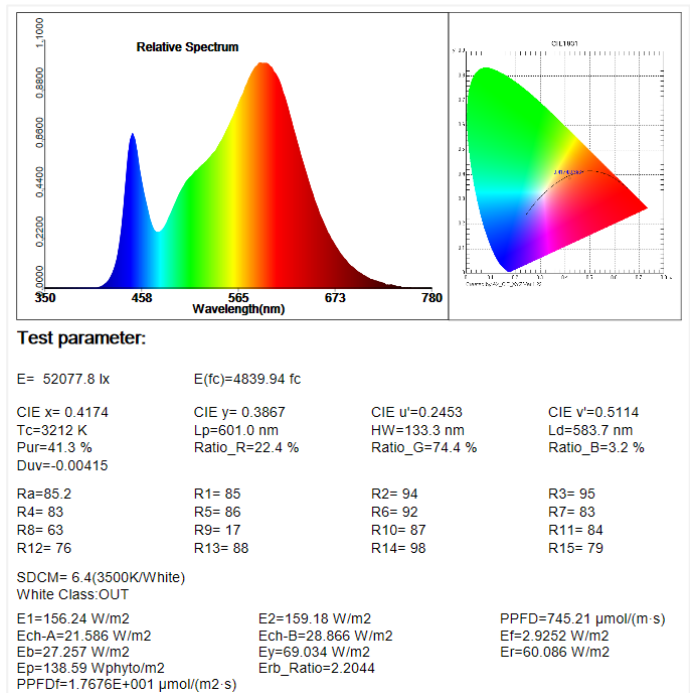


RX-LM28-312-S4 Light Recipes

- Testing report

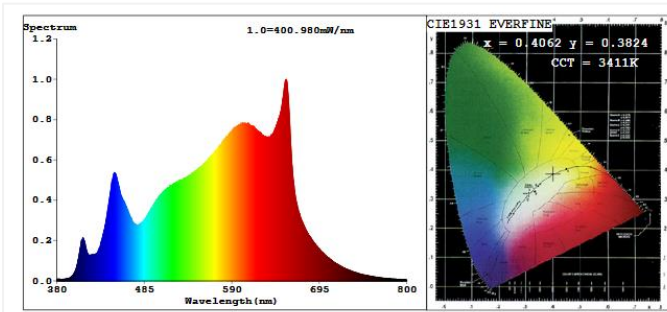


RX-LM28-312-S2-K1 PPF Test Page 10



RX-LM28-312-S2-K1 PPFD 0.3M Test Page 22

● Testing report



Color Parameters:

Chromaticity Coordinate: $x=0.4062$ $y=0.3824$ $u'=0.2398$ $v'=0.5079$
 CCT=3411K (Duv=-0.0039) Dominant WL:Ld =583.0nm Purity=36.6%
 Ratio:R=22.2% G=74.0% B=3.8% Peak WL:Lp=655.7nm FWHM=135.0nm
 Render Index:Ra=94.6 AvgR=93.1
 R1 =95 R2 =98 R3 =98 R4 =95 R5 =96 R6 =96 R7 =93
 R8 =86 R9 =70 R10=95 R11=96 R12=91 R13=96 R14=99 R15=92

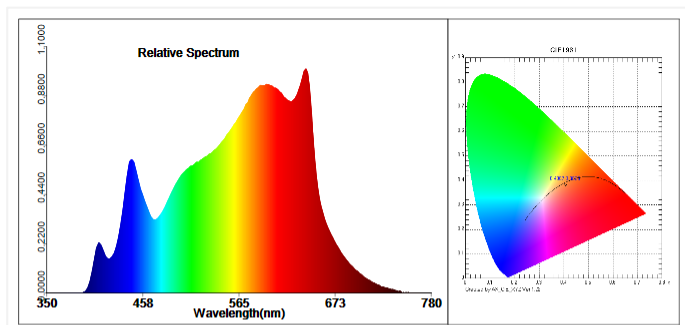
Photo Parameters:

Flux = 17478 lm Eff. : 128.01 lm/W Fe = 59.80 W
 Scotopic:28396 S/P:1.6247
 Photosynthetic:PPP:276.48umol/s PAR WATT:58038mW(400-700nm)

Electrical parameters:

V = 231.55 V I = 0.6160 A P = 136.5 W PF = 0.9573
 LEVEL:OUT WHITE:ANSI_3500K

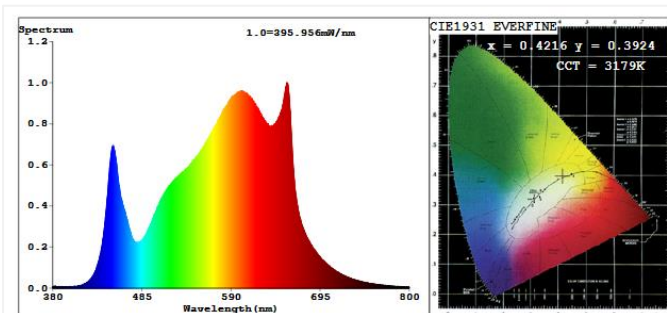
RX-LM28-312-S4-K1 PPF Test Page 12



Test parameter:

E= 43154.7 lx E(fc)=4010.66 fc
 CIE x= 0.4067 CIE y= 0.3826 CIE u'=0.2400 CIE v'=0.5080
 Tc=3401 K Lp=653.0 nm HW=162.8 nm Ld=583.0 nm
 Pur=36.9 % Ratio_R=22.3 % Ratio_G=73.9 % Ratio_B=3.8 %
 Duv=-0.00391
 Ra=94.4 R1= 95 R2= 98 R3= 98
 R4= 95 R5= 96 R6= 97 R7= 92
 R8= 85 R9= 66 R10= 96 R11= 96
 R12= 92 R13= 96 R14= 99 R15= 92
 SDCM= 4.0(3500K/White) White Class:OUT
 E1=142.13 W/m2 E2=145.27 W/m2 PPFd=676.03 μmol/(m·s)
 Ech-A=24.306 W/m2 Ech-B=25.761 W/m2 Ef=3.0264 W/m2
 Eb=28.194 W/m2 Ey=57.235 W/m2 Er=56.816 W/m2
 Ep=124.92 Wphyto/m2 Erb_Ratio=2.0152
 PPFdF=1.8296E+001 μmol/(m2·s)

RX-LM28-312-S4-K1 PPF 0.3M Test Page 24



Color Parameters:

Chromaticity Coordinate: $x=0.4216$ $y=0.3924$ $u'=0.2456$ $v'=0.5144$
 CCT=3179K (Duv=-0.0025) Dominant WL:Ld =583.1nm Purity=44.3%
 Ratio:R=22.4% G=74.6% B=3.0% Peak WL:Lp=655.7nm FWHM=147.1nm
 Render Index:Ra=88.0 AvgR=84.1
 R1 =87 R2 =94 R3 =97 R4 =87 R5 =87 R6 =91 R7 =88
 R8 =73 R9 =40 R10=85 R11=87 R12=75 R13=89 R14=99 R15=83

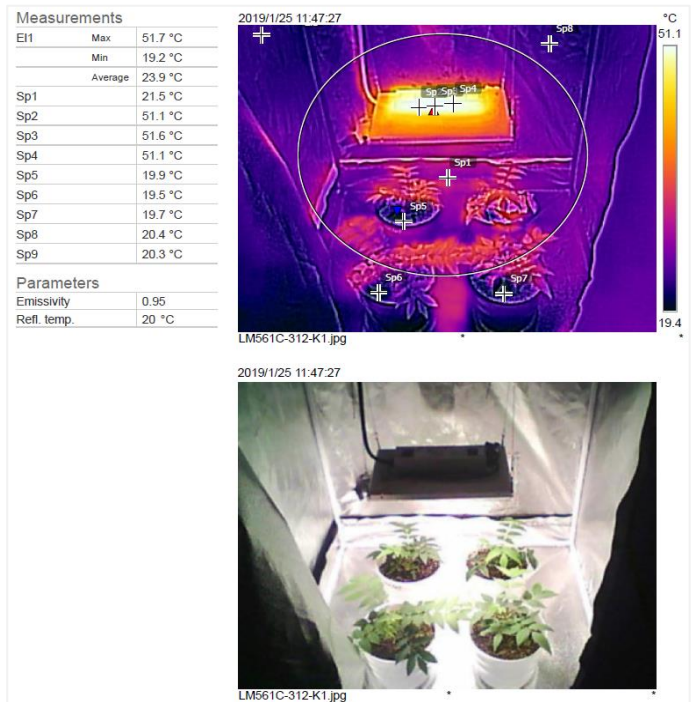
Photo Parameters:

Flux = 19921 lm Eff. : 148.10 lm/W Fe = 63.40 W
 Scotopic:29073 S/P:1.4594
 Photosynthetic:PPP:297.39umol/s PAR WATT:61831mW(400-700nm)

Electrical parameters:

V = 231.55 V I = 0.6076 A P = 134.5 W PF = 0.9561
 LEVEL:OUT WHITE:ANSI_3000K

RX-LM28-312-S3-K1 PPF Test Page 11



Temperature test