

Description: RX-TP5025T-120Z medical plant growth module array lamp, Koray LED Grow Lights, New patent design product with unique lens, Different LED chips in one lens, Concentrating Light efficiently and More uniform spectral radiation, directional light ,higher light utilization efficiency, more efficient comparing with common grow lights. Specially designed for medicinal planting, high PAR output, optimal plant-specific spectrum, from UV to Far red, to meet the light requirements of medicinal plants, fully stimulate medicinal ingredients. It is especially used for indoor planting of medicinal plants, planting planting tents, and scientifically experimenting planting.



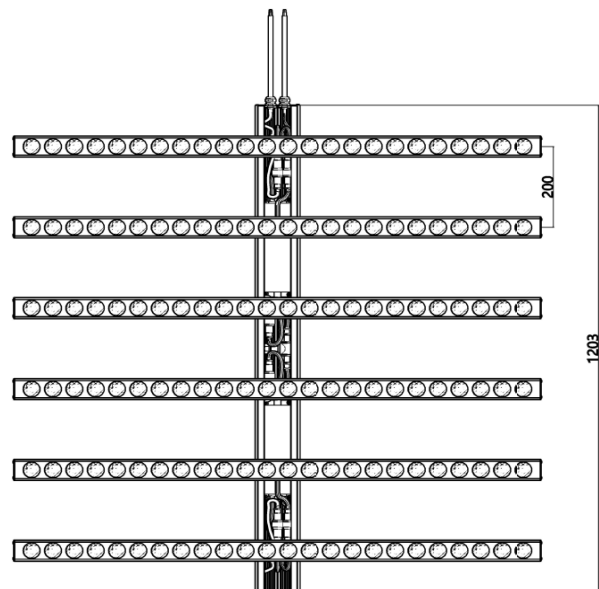
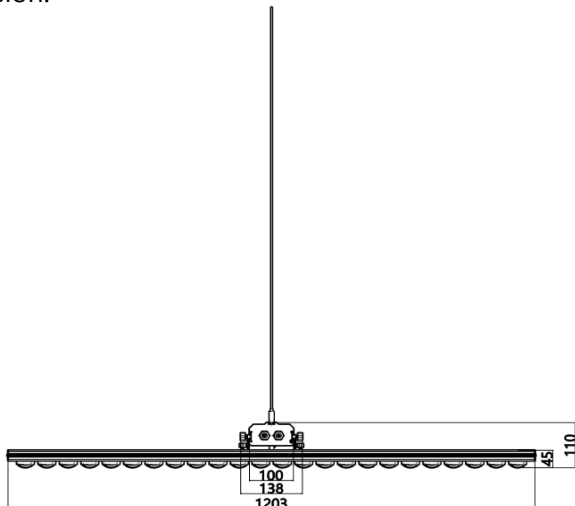
1. Basement, grow tent planting medicinal plants
2. Large size 0.9x0.9m (3'x3'), multiple Bar arrays, uniform spectral radiation
3. High PAR output, PPFD>650μmol/m²/s, 1.2x1.2m Average value
4. Dedicated to medicinal and medical plant growth
5. Dimming Meanwell LED Power, long life more reliable
6. Waterproof IP65, Can be used in humid environments
7. Input: AC100~305V, PF >0.9 Powr:480W
8. Long life up to 50,000 hours
9. CE RoHS FCC

Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD μmol/m ² /s	Luminous flux PAR Output	Power Input AC230V	Comment
RX-TP5025T-D90	120x120x11cm	V2	682μmol @0.15m	Flux 76600Lm	480W	Light emission angle: 90° Recommended irradiation distance 15cm Ra88 2.4μmol/J
			603μmol @0.2m	PPF: 1146μmol/s		
			541μmol @0.3m	PAR: 240000mW		
RX-TP5025T-D60	120x120x11cm	SV2	878μmol @0.15m	Flux 63500Lm	480W	Light emission angle: 60° Recommended irradiation distance 20cm Add small UV spectrum
			*	PPF: 1000μmol/s		
			659μmol @0.2m	PAR: 210000mW		
			541μmol @0.3m			

Surface temperature rise Tc 18° K , Operating temperature: -30° C ~ 40° C , Lifespan: 50,000 hours (Note: Ta ≤ 25° C)
 Tolerance range for optical and electrical data: ±10 % . Recommended irradiation distance 0.15 ~ 0.3m;
 PPF test: Irradiation area 1.2x1.2m, divided into 36 areas, the average value of the test data . * D60 H 0.15m Uniformity is not good!

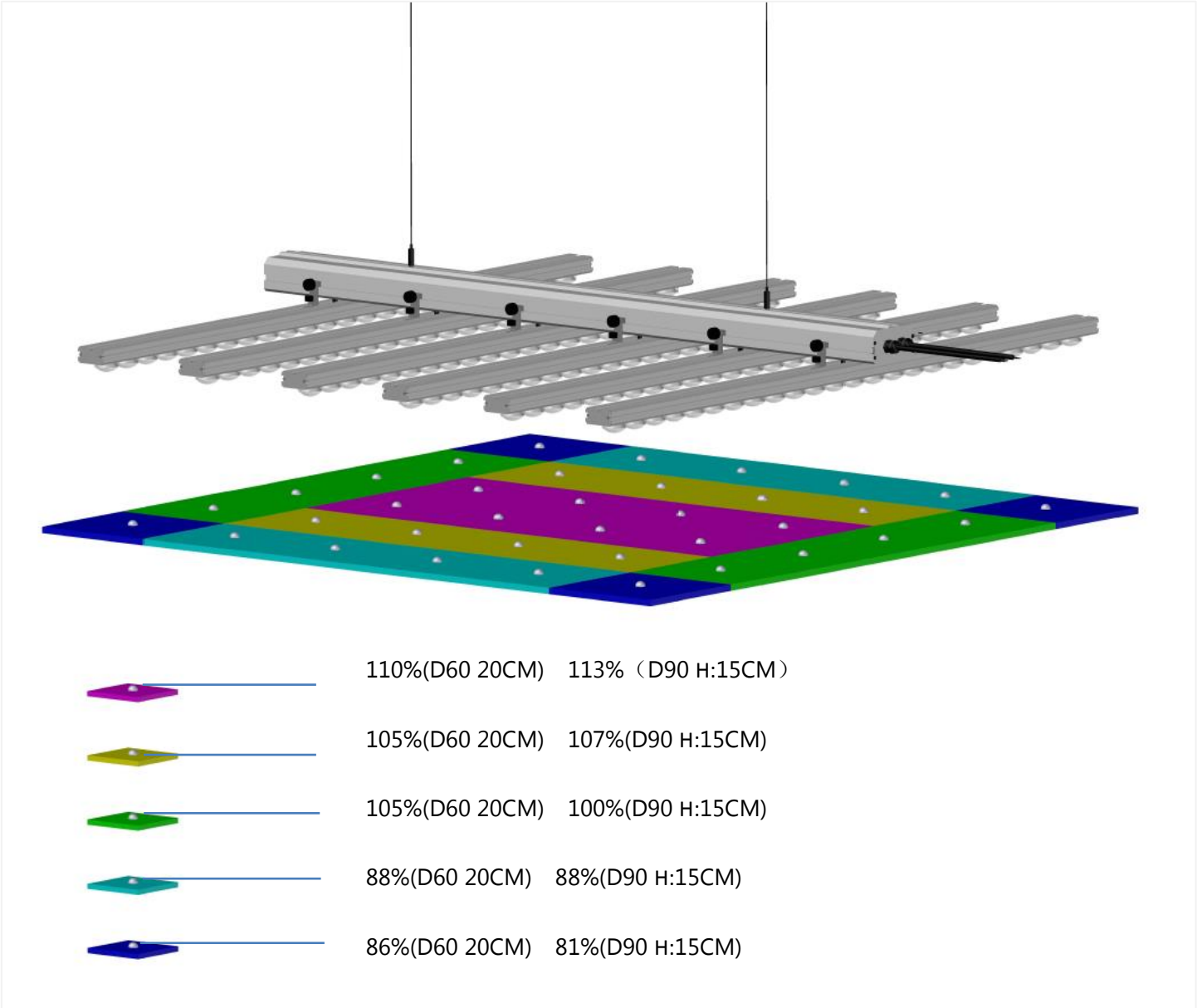
(Total PAR output: It is calculated by a single LED module) The above data is for reference only!

Dimension:



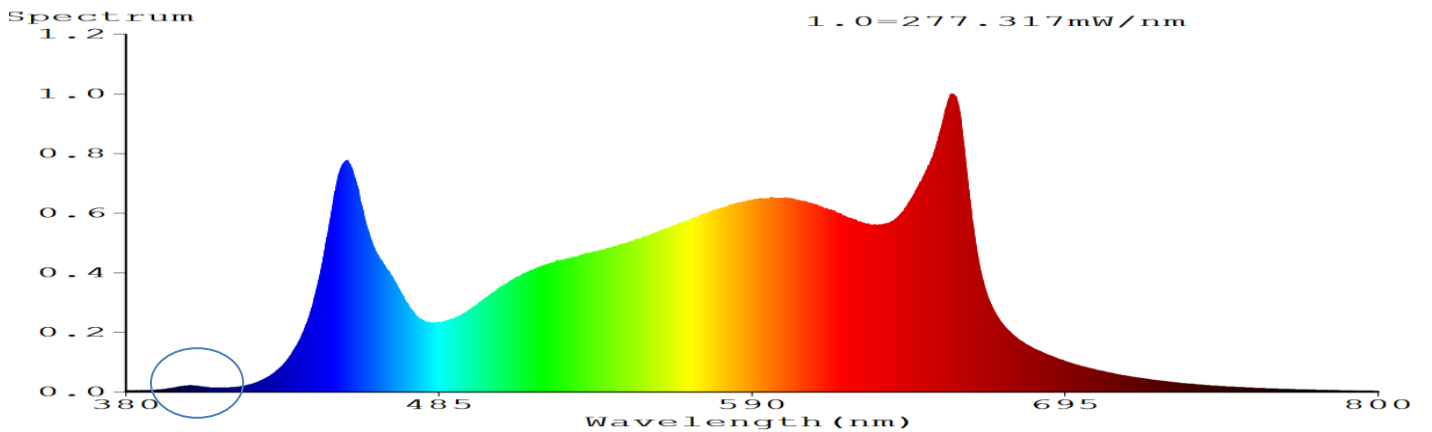
Unit:mm

PPFD Test



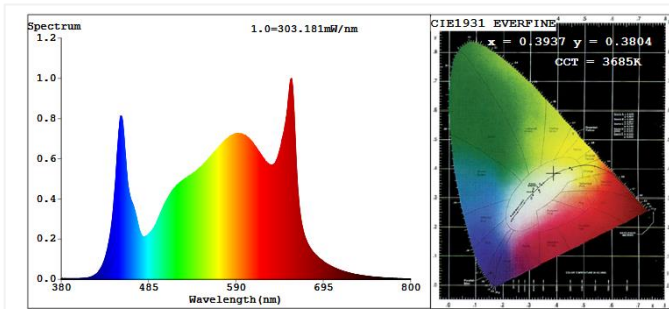
Irradiation uniformity test, The data is a percentage of the average
The above data is for reference only!

Spectrum:



SV2 Spectrum (Compared with V2 spectra, a small amount of UV was added)

Testing report



Color Parameters:

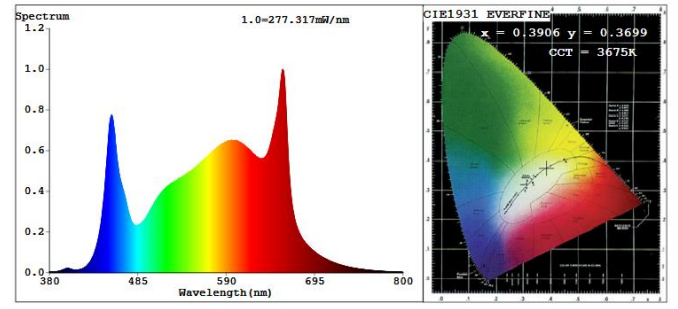
Chromaticity Coordinate: $x=0.3937$ $y=0.3804$ / $u'=0.2324$ $v'=0.5051$
 CCT=3685K (Duv=-0.0019) Dominant WL:Ld =581.2nm Purity=32.3%
 Ratio:R=19.9% G=76.6% B=3.5% Peak WL:Lp=656.7nm FWHM=135.7nm
 Render Index:Ra=88.7 AvgR=84.7
 R1 =88 R2 =93 R3 =95 R4 =87 R5 =87 R6 =89 R7 =91
 R8 =80 R9 =52 R10=83 R11=87 R12=68 R13=89 R14=97 R15=85

Photo Parameters:

Flux = 12780 lm Eff. : 159.11 lm/W Fe = 40.97 W
 Scotopic:20933 S/P:1.6379
 Photosynthetic:PPF:191.41umol/s PAR WATT:40275mW(400-700nm)

Electrical parameters:

V = 220.80 V I = 0.3891 A P = 80.32 W PF = 0.9350
 LEVEL:OUT WHITE:ANSI_3500K



Color Parameters:

Chromaticity Coordinate: $x=0.3906$ $y=0.3699$ / $u'=0.2347$ $v'=0.5001$
 CCT=3675K (Duv=-0.0060) Dominant WL:Ld =583.6nm Purity=28.2%
 Ratio:R=20.8% G=75.2% B=4.0% Peak WL:Lp=657.0nm FWHM=116.7nm
 Render Index:Ra=93.3 AvgR=91.1
 R1 =94 R2 =97 R3 =97 R4 =91 R5 =93 R6 =93 R7 =93
 R8 =88 R9 =75 R10=93 R11=91 R12=74 R13=95 R14=98 R15=94

Photo Parameters:

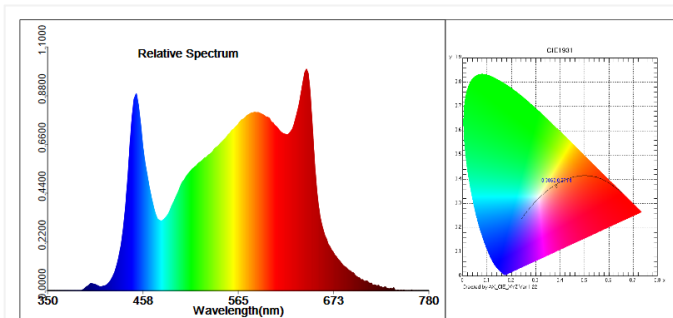
Flux = 10595 lm Eff. : 132.47 lm/W Fe = 35.86 W
 Scotopic:18045 S/P:1.7031
 Photosynthetic:PPF:167.13umol/s PAR WATT:35101mW(400-700nm)

Electrical parameters:

V = 231.73 V I = 0.3731 A P = 79.98 W PF = 0.9251
 LEVEL:OUT WHITE:ANSI_3500K

RX-TP5025T-D60-V2 80W/One Module TEST

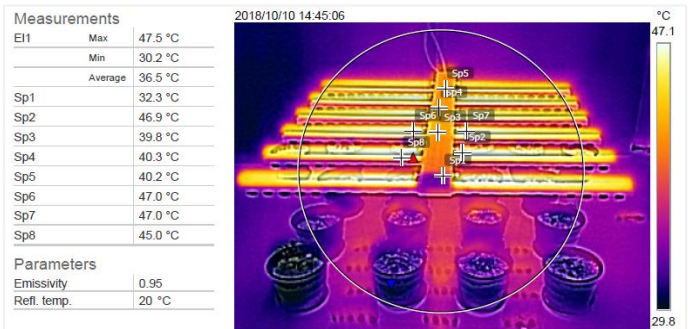
RX-TP5025T-D90-SV2 80W/One Module TEST



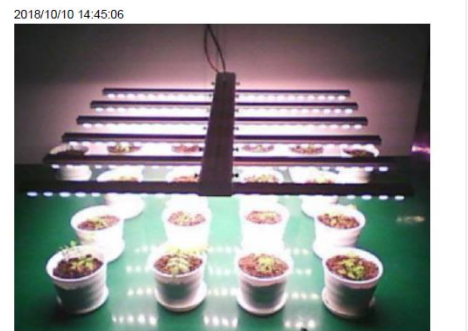
Test parameter:

E= 70869.4 lx E(fc)=6586.38 fc
 CIE x= 0.3862 CIE y= 0.3714 CIE u'=0.2311 CIE v'=0.5000
 Tc=3802 K Lp=656.0 nm HW=155.6 nm Ld=582.2 nm
 Pur=27.3 % Ratio_R=20.2 % Ratio_G=75.6 % Ratio_B=4.1 %
 Duv=-0.00418
 Ra=92.8 R1= 93 R2= 97 R3= 97
 R4= 91 R5= 92 R6= 93 R7= 93
 R8= 86 R9= 70 R10= 91 R11= 91
 R12= 73 R13= 94 R14= 98 R15= 92
 SDCM= 7.6(F4000)
 White Class:OUT
 E1=231.54 W/m2 E2=235.46 W/m2 PPF=1098.1 μmol/(m·s)
 Ech-A=0.15906 W/m2 Ech-B=0.35924 W/m2 Ef=3.7335 W/m2
 Eb=48.597 W/m2 Ey=95.424 W/m2 Er=87.696 W/m2
 Ep=202.46 W/m2 Erb_Ratio=1.8045
 PPFdf=2.2551E+001 μmol/(m2 s)

RX-TP5025-D60-SV2 PPF TEST



RX-TP5025T-120Z.JPG



RX-TP5025T-120Z.JPG

Surface temperature TEST

Safety Warning information:

After the installation is completed, it must be ensured that the luminous surface of the luminaire is kept at a distance of more than 15 cm from any object before the lighting test can be performed. Otherwise, the high temperature emitted by



LED Medical plant light, Large size, High power, High PAR output, Waterproof

MODEL: RX-TP5025T-120Z series www.koraylights.com

the photon will damage the LED grow lights!