

Description:

RX-GW5025T High PPFD Urban agricultural plant factory Indoor Vertical shelf plant Growth 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. Silicone potting waterproof, more reliable. Suitable for various kinds of plant cultivation and especially for high-density shelf structure Plant Factories , Cupboard Showcase, planting boxes, plant cultivation.



1. High PPFD 300 $\mu\text{mol}/\text{m}^2/\text{s}$, distance from plant canopy 0.2m
2. Urban Vertical Agriculture - Horticulture LED Production Module lights
3. Different LED chips in one lens, Spectral radiation uniform, Lens + Reflector cup, Concentrating radiation, Energy saving 50%,Beam angle 60 °
4. Free back mounting bolts, Easy to extend fixed installation
5. Preferred plant-specific spectra, multiple **light-recipe** to meet different plant requirements
6. Waterproof IP65
7. Input:AC 100~277V PF >0.9 Power: 40W
8. 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	Power AC230V	Comment
RX-GW5025T	1206x50x45mm	F2	308 μmol @0.2m 20180Lx	Flux 6170Lm PPF: 95 $\mu\text{mol}/\text{s}$ PAR: 19988mW	42W PF >0.9	CRI Ra88 vegetative growth
199 μmol @0.3m 13031Lx						
117 μmol @0.5m 7665Lx						
RX-GW5025T		F1	316 μmol @0.2m 20217Lx	Flux 6180Lm PPF: 97 $\mu\text{mol}/\text{s}$ PAR: 21054mW	42W PF >0.9	CRI Ra93 vegetative growth
209 μmol @0.3m 13407Lx						
121 μmol @0.5m 7736Lx						
RX-GW5025T		6K2R4B1	255 μmol @0.2m 7743Lx	Flux 2707Lm PPF:85 $\mu\text{mol}/\text{s}$ PAR: 17541mW	36W PF >0.9	2.3 $\mu\text{mol}/\text{J}$ Red-blue ratio 4:1
166 μmol @0.3m 4983Lx						
100 μmol @0.5m 3037Lx						

Surface temperature rise Tc 15 °K

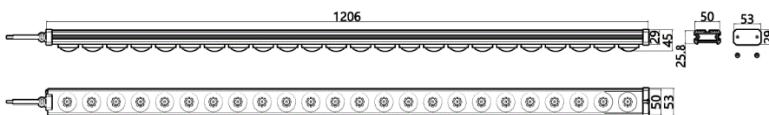
Operating temperature: -30 °C ~ 40°C , Life: 25,000 hrs (Note:Ta 25 °C)

Tolerance range for optical and electrical data: $\pm 10\%$

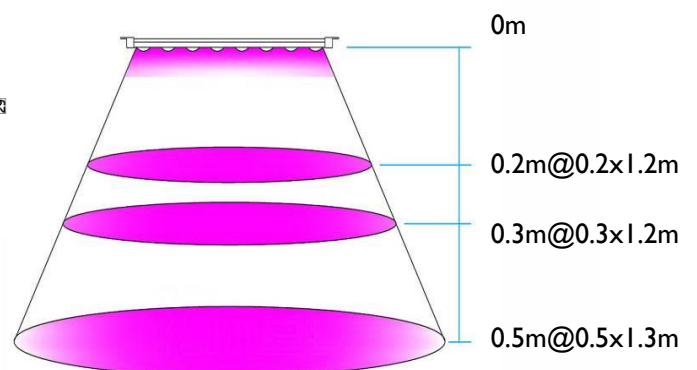
Illumination angle 120°, Recommended irradiation distance 0.1~0.5 m

The above data is for reference only! Subject to change without notice

Dimension:

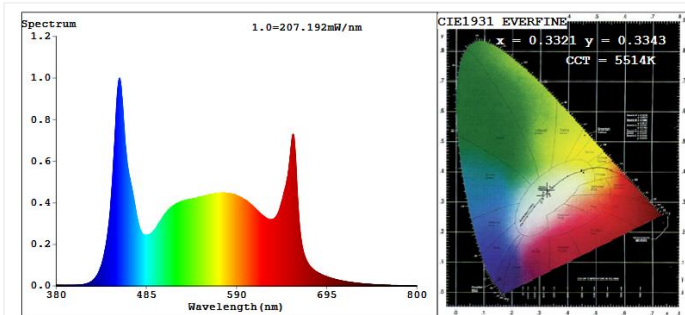


Depth distance & Coverage:



UNIT:mm

Testing report



Color Parameters:

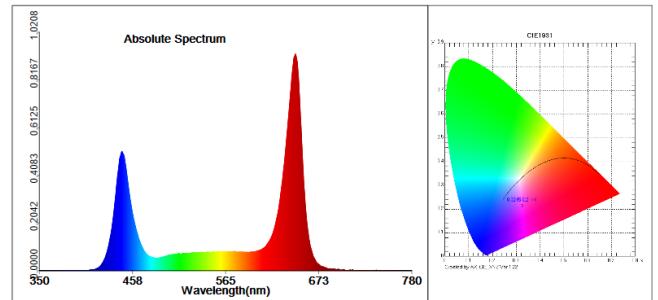
Chromaticity Coordinate: $x=0.3321$ $y=0.3343$ $u'=0.2093$ $v'=0.4740$
 CCT=5514K (Duv=-0.0034) Dominant WL:Ld =502.5nm Purity=0.4%
 Ratio:R=16.2% G=78.1% B=5.7% Peak WL:Lp=454.0nm FWHM=21.4nm
 Render Index:Ra=93.5 AvgR=91.3
 R1=94 R2=96 R3=94 R4=93 R5=93 R6=90 R7=96
 R8=93 R9=86 R10=89 R11=92 R12=67 R13=95 R14=97 R15=96

Photo Parameters:

Flux = 6180 lm Eff. : 147.62 lm/W Fe = 21.30 W
 Scotopic:13411 S/P:2.1699
 Photosynthetic:PPF:96.899umol/s PAR WATT:21054mW(400-700nm)

Electrical parameters:

V = 231.75 V I = 0.1872 A P = 41.87 W PF = 0.9652
 LEVEL:OUT WHITE:ANSI_5700K

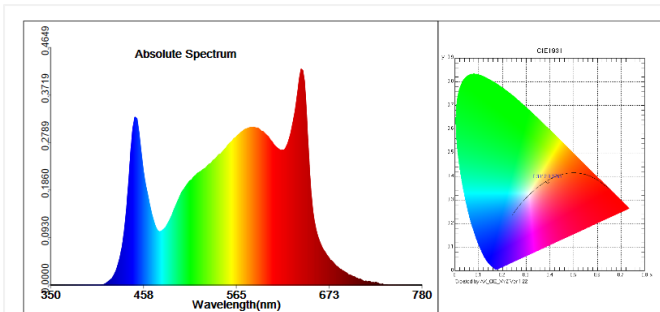


Test parameter:

E= 7743.9 lx E(tc)=719.692 fc
 CIE x= 0.3245 CIE y= 0.2144 CIE u'=0.2636 CIE v'=0.3919
 Tc=7992 K Lp=659.0 nm HW=22.2 nm Ratio_R=31.5 % Ratio_G=60.3 % Ratio_B=8.2 %
 Pur=32.7 % Duv=-0.07980
 Ra=6.3 R1=-16 R2= 37 R3= 56
 R4= -7 R5= -6 R6= 45 R7= 39
 R8=-97 R9=-385 R10=-19 R11=-19
 R12= 19 R13= -7 R14= 67 R15=-78
 SDCM=59.3(F5000) White Class:OUT
 E1=52.72 W/m2 E2=52.843 W/m2 PPF=254.66 μmol/(m·s)
 Ech-A=9.6785 W/m2 Ech-B=10.881 W/m2 Ld=380.0 nm
 Eb=15.568 W/m2 Ey=8.3592 W/m2 Er=28.808 W/m2
 Ep=45.676 Wphyto/m2 Erb_Ratio=1.8505
 PPFdf=7.4182E-001 μmol/(m2·s)

RX-GW5025T-F1 PPF PAR TEST

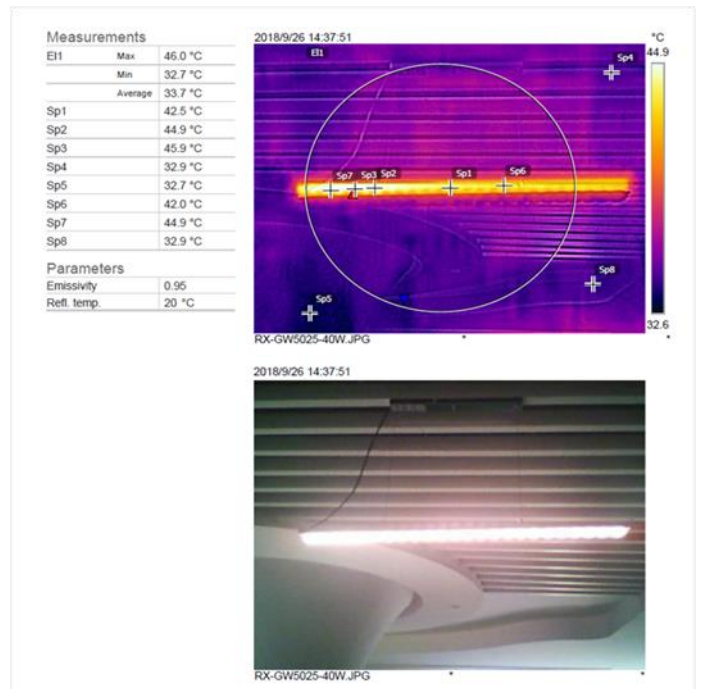
RX-GW5025T-6K2R4BI 0.2m PPF TEST



Test parameter:

E= 20180.2 lx E(tc)=1875.48 fc
 CIE x= 0.3912 CIE y= 0.3756 CIE u'=0.2327 CIE v'=0.5027
 Tc=3708 K Lp=654.0 nm HW=141.0 nm Ld=582.0 nm
 Pur=30.1 % Ratio_R=20.3 % Ratio_G=75.9 % Ratio_B=3.8 %
 Duv=-0.00347
 Ra=91.6 R1= 91 R2= 95 R3= 96
 R4= 90 R5= 91 R6= 91 R7= 93
 R8= 86 R9= 67 R10= 88 R11= 90
 R12= 71 R13= 93 R14= 98 R15= 90
 SDCM= 8.6(F3500) White Class:OUT
 E1=64.823 W/m2 E2=65.553 W/m2 PPF=308.15 μmol/(m·s)
 Ech-A=4.3714 W/m2 Ech-B=7.7679 W/m2 Ef=0.73375 W/m2
 Eb=12.823 W/m2 Ey=27.224 W/m2 Er=24.826 W/m2
 Ep=56.84 Wphyto/m2 Erb_Ratio=1.936
 PPFdf=4.4203E+000 μmol/(m2·s)

RX-GW5025T-F2 0.2m PPF TEST



Surface temperature Test

Free back mounting bolts

