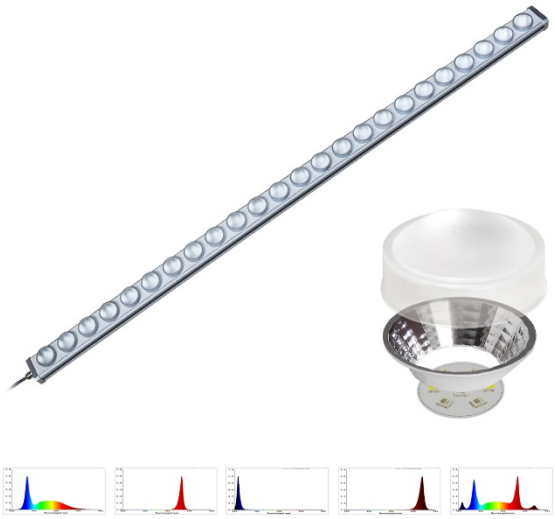
Horticulture LED Module Bar ADJ spectrum - Suitable for all periods of plants growth

MODEL: RX-TP5025-4H series www.koraylight.com www.xinelam.com

Description:

RX-TP5025-4H LED Grow Light Module, 4 individual spectrum channels design, Adjust the spectrum you need, ideal for different kinds of plants all-stage cultivation (including sprout, seedling, vegetative, budding, flowering and ripening). Available For plant factories, home planting, aquarium growth, and particularly suitable for lab plant factory germination and planting

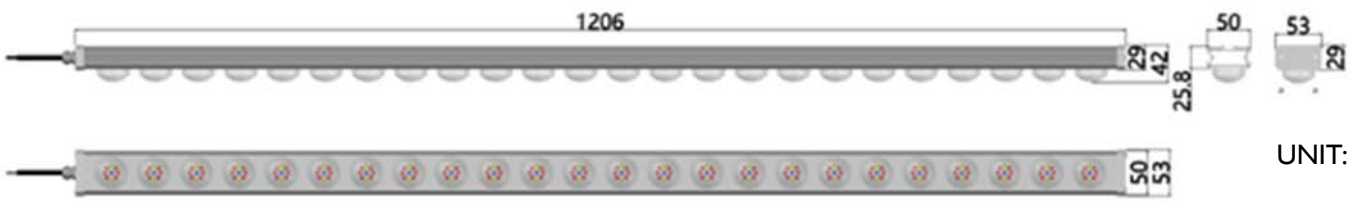


1. Different LED chips in one lens, Spectral radiation uniform, Lens + Reflector cup, Concentrating radiation, Energy saving 50%
2. Four separate channel dimming control that adjust different spectra to meet different light recipes for plant growth.
3. Optimized spectrum combinations: 450nm+white/CH1,660nm/CH2, 730nm/CH3,395nm/CH4
4. Plant incubator LED module - Growth Chamber Light module, Ideal for lab scientific research, plant factory cultivation and family growth.
5. Optional Silicone potting waterproof IP65
6. New design, Patent No: 201620887642
7. Common anode design, can be driven by ordinary RGBW controller
8. CE RoHS FCC

Model	Dimension	Spectrum and Channel	Photon PPFD μmol/m²/s	Luminous flux PAR Output	Power Input DC24V	Comment
RX-TP5025-4H	1206x50x42mm	CH1 450nm+white	159.6μmol @0.3m 10236Lx	Flux 4340Lm PPF: 70umol/s PAR: 15920mW	37.5W	Tissue culture and nursery Aquarium lighting
		CH2 660nm	61.8μmol @0.3m 788Lx	Flux 385Lm PPF: 31umol/s PAR: 5629mW	15W	CH2 increased by 50% CH1 is suitable for vegetative growth
		CH3 730nm	3.4μmol @0.3m 2.1Lx	Flux 0.8Lm PPF: 0.16umol/s PAR: 28mW	5.5W	730nm adjustment flowering Promote plant stem growth
		CH4 295nm	0.4μmol @0.3m 3.5Lx	Flux 3.6Lm PPF: 1.4umol/s PAR: 406mW	4W	Stimulate plant stress response Increase pharmaceutical ingredients
		CH1 ~ CH4	216μmol @0.3m 10528Lx	Flux 4565Lm PPF: 99umol/s PAR: 21334mW	61W	Full spectrum, increased by 395nm, 730nm suitable for plant flowering and maturity
Surface temperature rise Tc 20°K , Operating temperature: -30 °C ~ 40°C , Lifespan: 50,000 hours (Note:Ta ≤ 25 ° C) Tolerance range for optical and electrical data: ±10 %.						

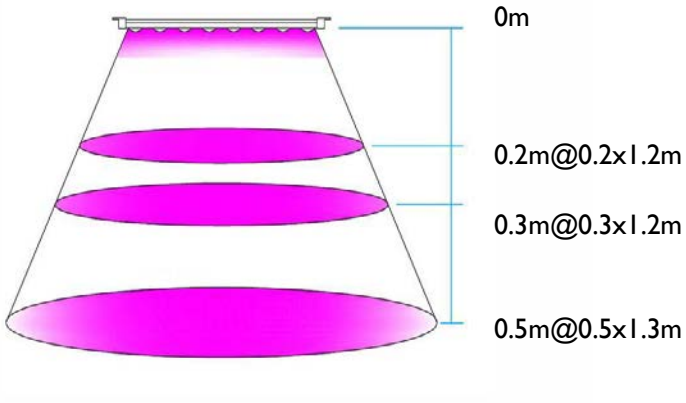
The above data is for reference only!

Dimension:



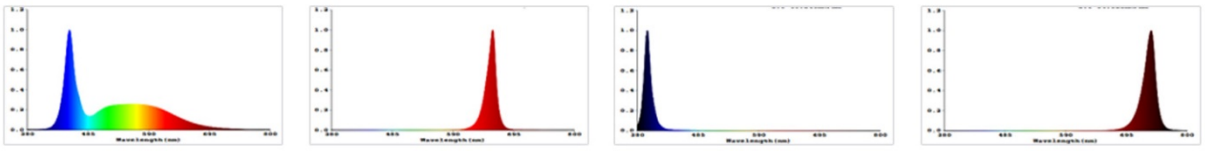
UNIT: mm

60D Depth distance & Coverage:

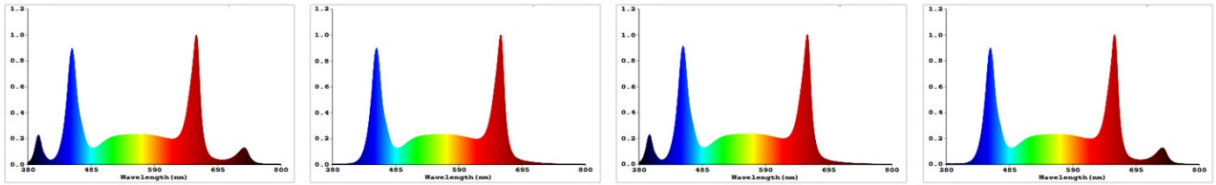


- Four independent channels, using different spectra, you can adjust the spectrum and adjust the light intensity according to the plant light recipes. Common anode design, can use a general-purpose PWM constant voltage DC24V dimming controller, such as RGBW dimmer.

Different LED in one lens More uniform Light
Concentrating Light efficiently higher light utilization efficiency

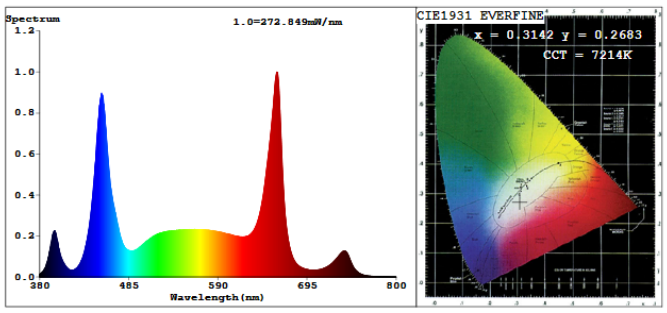


4 Basic Light Spectral



Can adjust light recipes as needed

- 测试报告



Color Parameters:

Chromaticity Coordinate:x=0.3142 y=0.2683/u'=0.2248 v'=0.4319
CCT=7214K(Duv=-0.0328) Dominant WL:Ld =-565.0nm Purity=25.4%
Ratio:R=20.2% G=72.9% B=6.9% Peak WL:Lp=659.6nm FWHM=19.8nm
Render Index:Ra=69.6 AvgR=63.6

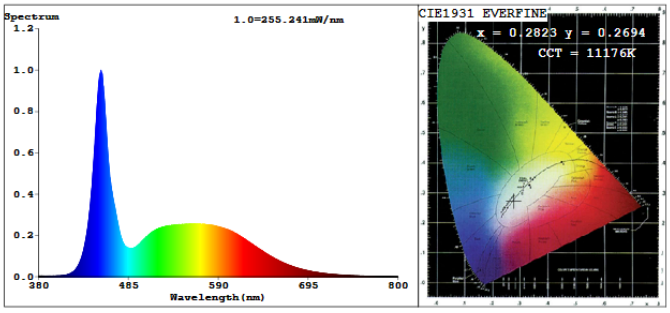
R1 =63	R2 =82	R3 =77	R4 =69	R5 =69	R6 =83	R7 =80	
R8 =34	R9 =0	R10=72	R11=65	R12=69	R13=67	R14=84	R15=40

Photo Parameters:

Flux = 4565 lm Eff. : 75.11 lm/W Fe = 23.00 W
Scotopic:11223 S/P:2.4585
Photosynthetic:PPF:99.19umol/s PAR WATT:21334mW(400-700nm)

Electrical parameters:

V = 23.999 V I = 2.533 A P = 60.78 W PF = 1.000
LEVEL:OUT WHITE:OUT



Color Parameters:

Chromaticity Coordinate:x=0.2823 y=0.2694/u'=0.1992 v'=0.4278
CCT=11176K(Duv=-0.0115) Dominant WL:Ld =471.6nm Purity=23.9%
Ratio:R=13.5% G=79.2% B=7.3% Peak WL:Lp=452.9nm FWHM=19.4nm
Render Index:Ra=87.9 AvgR=84.1

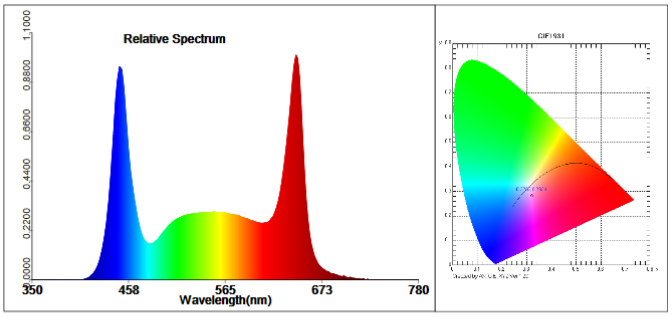
R1 =89	R2 =91	R3 =85	R4 =91	R5 =87	R6 =80	R7 =92	
R8 =88	R9 =62	R10=76	R11=90	R12=52	R13=91	R14=91	R15=96

Photo Parameters:

Flux = 4340 lm Eff. : 115.69 lm/W Fe = 16.14 W
Scotopic:11481 S/P:2.6455
Photosynthetic:PPF:69.897umol/s PAR WATT:15920mW(400-700nm)

Electrical parameters:

V = 24.000 V I = 1.563 A P = 37.51 W PF = 1.000
LEVEL:OUT WHITE:OUT



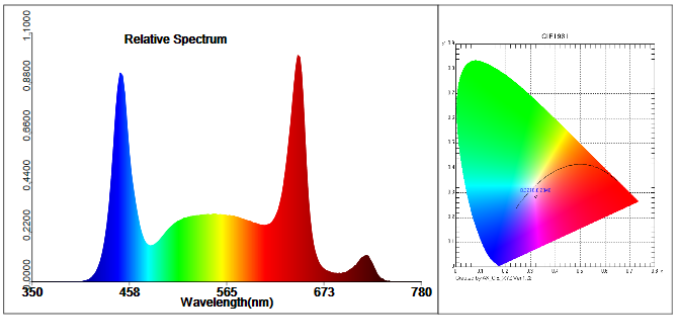
Test parameter:

E= 10735.8 lx	E(fc)=997.749 fc		
CIE x= 0.3203	CIE y= 0.2834	CIE u'=0.2224	CIE v'=0.4428
Tc=6408 K	Lp=658.0 nm	HW=23.7 nm	Ld=380.0 nm
Pur=14.1 %	Ratio_R=19.5 %	Ratio_G=74.0 %	Ratio_B=6.4 %
Duv=-0.02671			
Ra=76.4	R1= 73	R2= 87	R3= 80
R4= 77	R5= 77	R6= 86	R7= 84
R8= 48	R9=-42	R10= 80	R11= 74
R12= 72	R13= 75	R14= 87	R15= 54

SDCM=26.7(F5000)
White Class:OUT

E1=46.22 W/m2	E2=46.432 W/m2	PPFD=215.63 μmol/(m·s)
Ech-A=9.5796 W/m2	Ech-B=12.812 W/m2	Ef=0.21385 W/m2
Eb=14.482 W/m2	Ey=14.155 W/m2	Er=17.606 W/m2
Ep=39.412 Wphyto/m2	Erb_Ratio=1.2157	

PPFDf=1.2816E+000 μmol/(m2·s)



Test parameter:

E= 10585.0 lx	E(fc)=983.734 fc		
CIE x= 0.3216	CIE y= 0.2846	CIE u'=0.2229	CIE v'=0.4438
Tc=6287 K	Lp=658.0 nm	HW=23.9 nm	Ld=380.0 nm
Pur=13.7 %	Ratio_R=19.7 %	Ratio_G=74.0 %	Ratio_B=6.4 %
Duv=-0.02669			
Ra=76.3	R1= 73	R2= 87	R3= 81
R4= 76	R5= 77	R6= 86	R7= 84
R8= 48	R9=-43	R10= 80	R11= 74
R12= 72	R13= 75	R14= 87	R15= 54

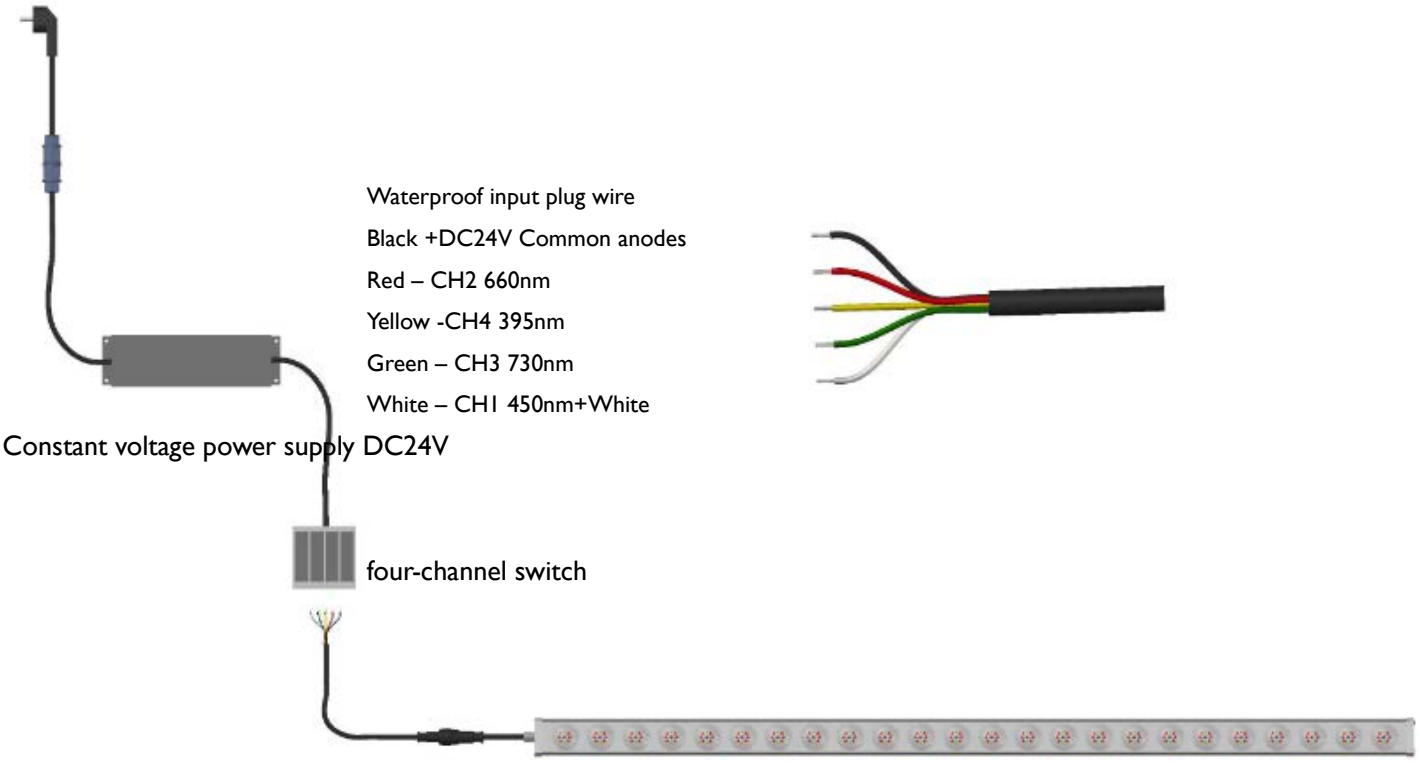
SDCM=26.4(F5000)
White Class:OUT

E1=45.764 W/m2	E2=47.516 W/m2	PPFD=213.92 μmol/(m·s)
Ech-A=9.6561 W/m2	Ech-B=12.541 W/m2	Ef=1.7503 W/m2
Eb=14.157 W/m2	Ey=13.936 W/m2	Er=17.695 W/m2
Ep=39.279 Wphyto/m2	Erb_Ratio=1.25	

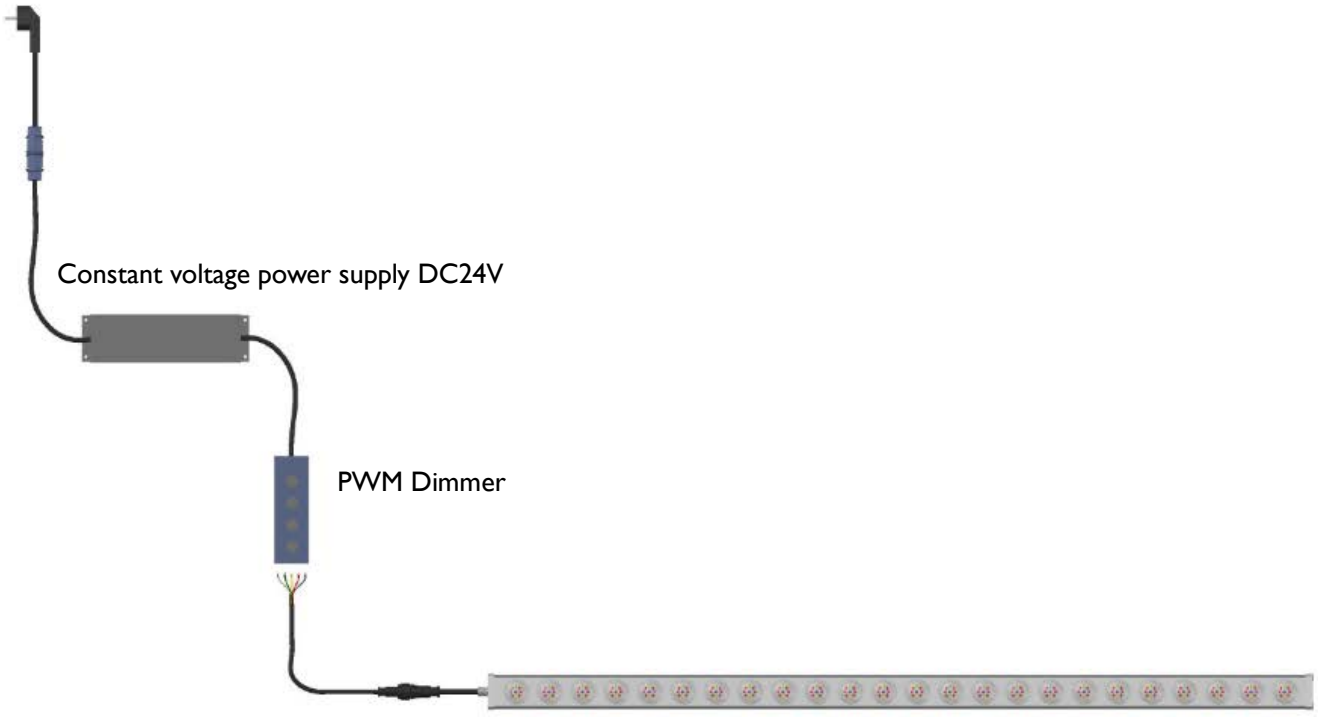
PPFDf=1.0741E+001 μmol/(m2·s)

Wiring diagram

Switching connection



Four channel dimmer connection



Make sure that the power and dimmer power is greater than the power consumption of the plant light module and leave a 20% margin.