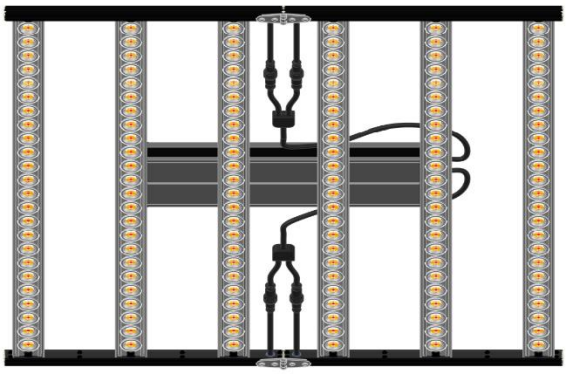
Only for growers with a legal license!

Dual-channel marijuana(cannabis) plant light array, CHA vegetative growth, CHA and CHB flowering,

MODEL: RX-G80-2H series www.koraylight.com www.xinelam.com

Description: RX-G80-2H Dual-channel plant grow array lights, Designed for medicinal plant growth, CHA vegetative growth, CHA and CHB for Flowering and maturity, The channel A PPFD is up to 600μmol/m²/s, suitable for vegetative growth of medicinal plants, the light efficiency is up to 2.7μmol/J, and the channel B is specially set with far red lamp beads for inducing flowering. The two channels are simultaneously opened, and the PPFD can be provided up to 1200μmol/m²/s rapid growth of medical plants



1. Plant grow LED Lights for vegetative growth and flowering of medicinal plants
2. Unique lens structure - high efficiency concentrating, uniform spectral radiation, directional illumination, higher light utilization, PPFD increased by 10~30%,
3. Samsung LM301H and German brand Horticultural LED
4. Channel A, 4000K for Early stage Vegetative growth
5. Channel B, additional dark red 660nm, dedicated to flowering maturity
6. Waterproof design, waterproof rating IP65
7. Input voltage: 100-305V, Rated Power: 620W
8. CE RoHS FCC

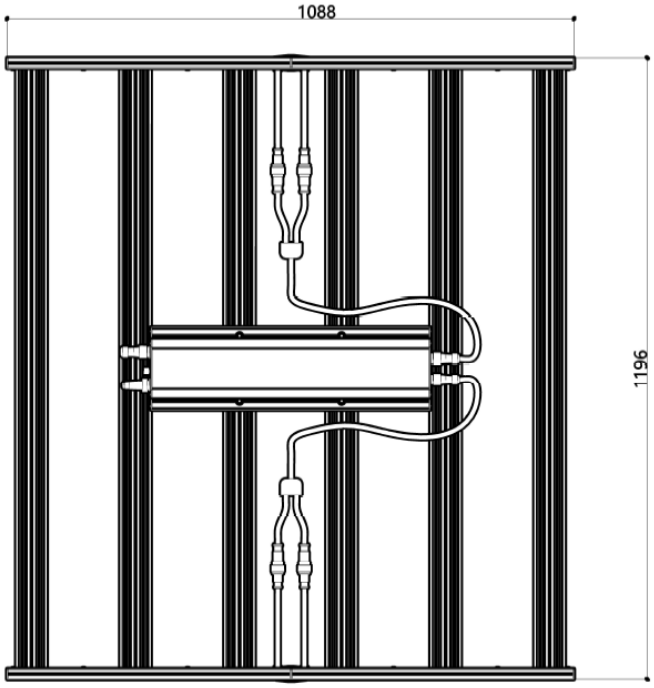
Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD μmol/m²/s	Luminous flux Radiation Power	Test Power Input	Comment
RX-G80-2H	120x120x11cm 48"x48"x4.3"	CHA	649μmol @0.2m 40305Lx	Flux 53900Lm PPF: 745umol/s	288W AC277V	2.6umol/J vegetative stage
			468μmol @0.5m 28508Lx			
			302μmol @0.8m 18151Lx			
		CHB	545μmol @0.2m 39569Lx	Flux 54800Lm PPF: 884umol/s	330W AC277V	2.7umol/J flowering
			384μmol @0.5m 27924Lx			
			244μmol @0.8m 17727Lx			
		CHA+CHB	1207μmol @0.2m 80548Lx	Flux 109300Lm PPF: 1638umol/s	610W AC277V	2.7umol/J flowering stage
			850μmol @0.5m 56229Lx			
			544μmol @0.8m 35727Lx			

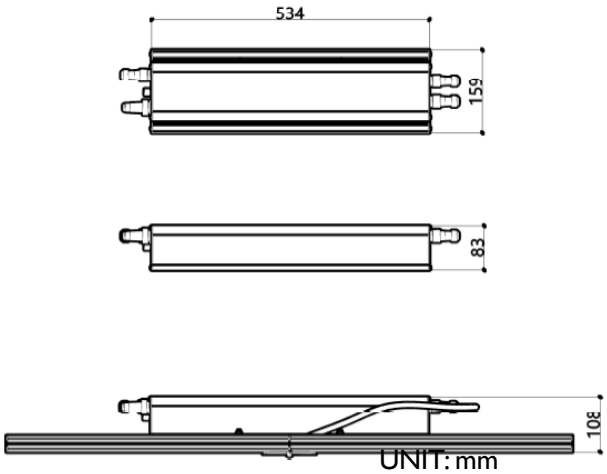
Surface temperature rise Tc 25°K, Operating temperature:-30°C~40°C,Lifespan: 50,000 hours (Note:Ta 25°C)

Tolerance range for optical and electrical data:±10%. Beam angle 90° ,Recommended irradiation distance:0.15~0.3m, illumination area 1x1.2m.

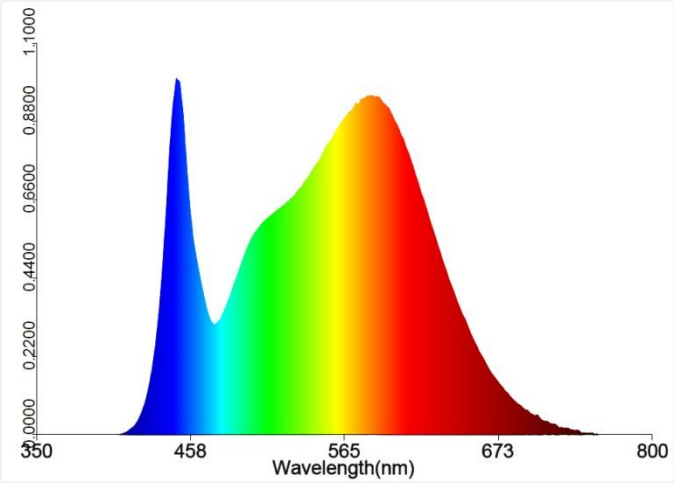
The above data is for reference only!

Dimension:

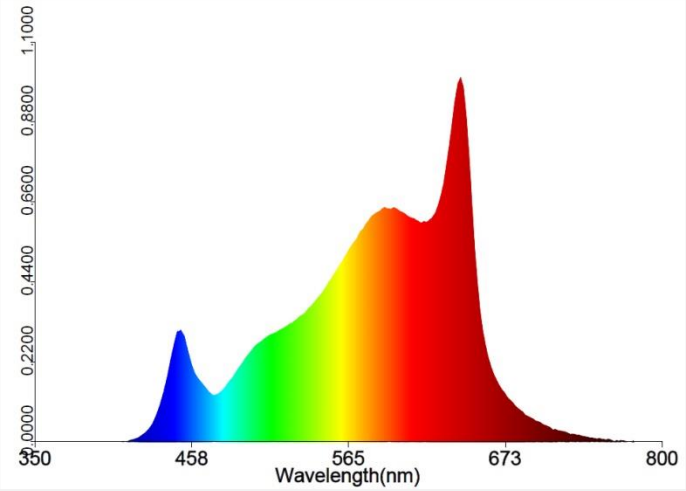




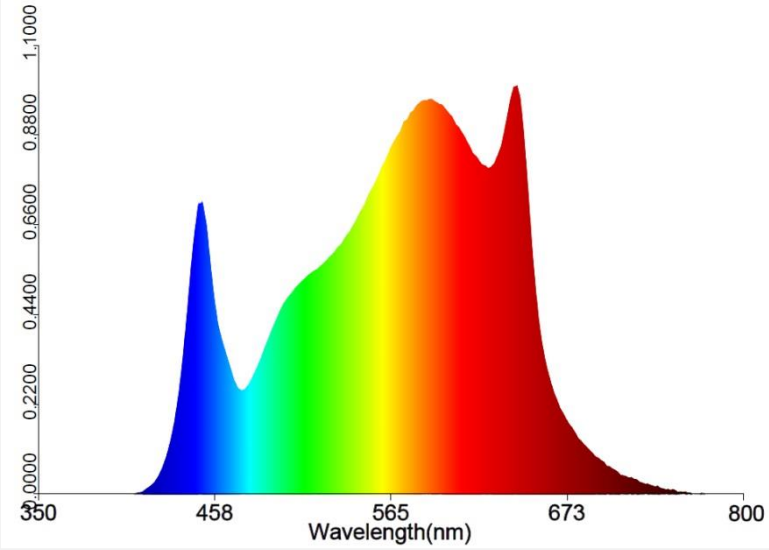
- Design for balancing plant growth, horticultural full spectrum plant lamp module



RX-G80-2H-CH1 Ra88 vegetative stage

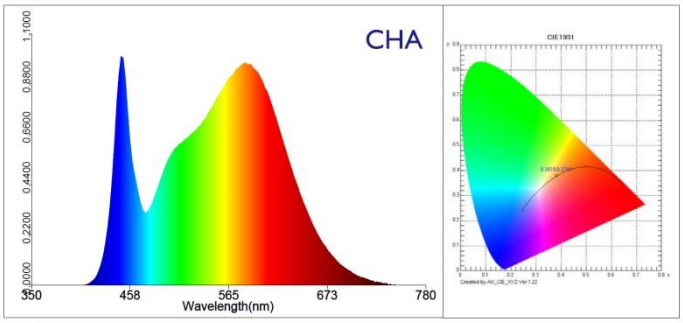


RX-G80-2H-CH2 Ra88 flowering



RX-G80-2H flowering stage

- Testing report



Test parameter:

E= 39569.2 lx E(fc)=3677.43 fc

CIE x= 0.3819	CIE y= 0.3794	CIE u'=0.2250	CIE v'=0.5030
Tc=3980 K	Lp=452.0 nm	HW=24.2 nm	Ld=578.7 nm
Pur=28.5 %	Ratio_R=18.4 %	Ratio_G=77.7 %	Ratio_B=3.9 %
Duv=0.00080			

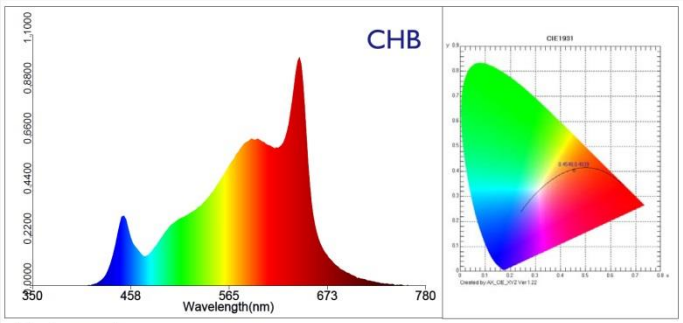
Ra=83.4	R1= 82	R2= 91	R3= 96
R4= 81	R5= 82	R6= 88	R7= 85
R8= 63	R9= 6	R10= 79	R11= 81
R12= 64	R13= 84	R14= 98	R15= 75

SDCM= 1.4(F4000)
White Class:OUT

545μmol/㎡/s

E1=116.65 W/m2	E2=118.19 W/m2	PPFD=545.2 μmol/(m·s)
Ech-A=14.397 W/m2	Ech-B=23.342 W/m2	Ef=1.5442 W/m2
Eb=25.689 W/m2	Ey=54.8 W/m2	Er=36.271 W/m2
Ep=101.52 Wphyto/m2	Erb_Ratio=1.4119	
PPFDf=9.3150E+000 μmol/(m2·s)		

RX-G80-2H CHA 288W PPFD Test



Test parameter:

E= 40304.7 lx E(fc)=3745.79 fc

CIE x= 0.4552	CIE y= 0.4044	CIE u'=0.2623	CIE v'=0.5242
Tc=2717 K	Lp=654.0 nm	HW=92.8 nm	Ld=584.8 nm
Pur=58.0 %	Ratio_R=25.6 %	Ratio_G=71.8 %	Ratio_B=2.6 %
Duv=-0.00193			

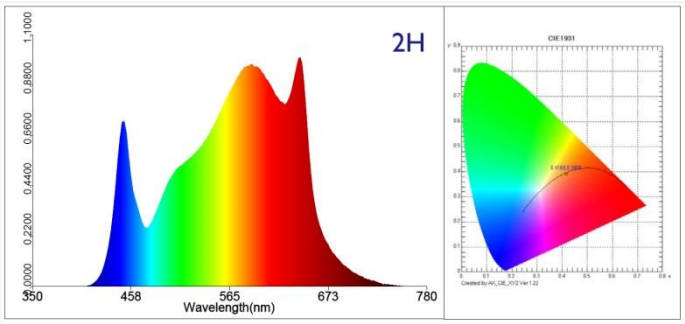
Ra=92.2	R1= 91	R2= 97	R3= 98
R4= 91	R5= 92	R6= 96	R7= 91
R8= 82	R9= 64	R10= 93	R11= 92
R12= 85	R13= 93	R14=100	R15= 88

SDCM= 0.4(2700K/ELR)
White Class:OUT

649μmol/㎡/s

E1=131.94 W/m2	E2=134.06 W/m2	PPFD=648.77 μmol/(m·s)
Ech-A=25.036 W/m2	Ech-B=22.723 W/m2	Ef=2.1134 W/m2
Eb=15.015 W/m2	Ey=51.55 W/m2	Er=65.483 W/m2
Ep=119.1 Wphyto/m2	Erb_Ratio=4.3611	
PPFDf=1.2758E+001 μmol/(m2·s)		

RX-G80-2H CHB 330W PPFD Test



Test parameter:

E= 80548.2 lx E(fc)=7485.89 fc

CIE x= 0.4168	CIE y= 0.3908	CIE u'=0.2432	CIE v'=0.5130
Tc=3259 K	Lp=655.0 nm	HW=155.1 nm	Ld=582.7 nm
Pur=42.4 %	Ratio_R=22.0 %	Ratio_G=74.8 %	Ratio_B=3.3 %
Duv=-0.00230			

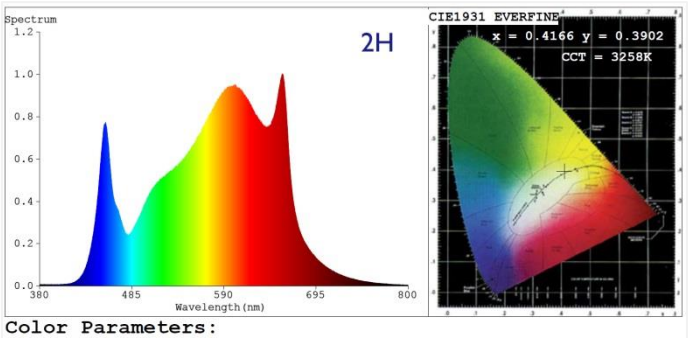
Ra=88.6	R1= 88	R2= 95	R3= 97
R4= 87	R5= 88	R6= 93	R7= 88
R8= 74	R9= 43	R10= 88	R11= 87
R12= 76	R13= 90	R14= 99	R15= 84

SDCM= 4.4(3500K/White)
White Class:OUT

1207μmol/㎡/s

E1=251.27 W/m2	E2=255.1 W/m2	PPFD=1206.6 μmol/(m·s)
Ech-A=40.342 W/m2	Ech-B=46.402 W/m2	Ef=3.8118 W/m2
Eb=41.539 W/m2	Ey=107.3 W/m2	Er=102.64 W/m2
Ep=222.9 Wphyto/m2	Erb_Ratio=2.471	
PPFDf=2.3008E+001 μmol/(m2·s)		

RX-G80-2H 618W PPFD Test



Color Parameters:

Chromaticity Coordinate:x=0.4166 y=0.3902/u'=0.2433 v'=0.5127
CCT=3258K(Duv=-0.0025) Dominant WL:Ld =582.8nm Purity=42.1%
Ratio:R=22.0% G=74.7% B=3.3% Peak WL:Lp=656.7nm FWHM=150.1nm
Render Index:Ra=88.3 AvgR=84.6

R1 =88	R2 =95	R3 =97	R4 =86	R5 =88	R6 =93	R7 =87	
R8 =73	R9 =41	R10=88	R11=87	R12=75	R13=90	R14=99	R15=83

Photo Parameters: 1638μmol/s 609W

Flux = 109330 lm Eff. : 179.54 lm/W Fe = 174.4 W

Scotopic:82725 S/P:1.5133
Photosynthetic:PPF:1638.22umol/s PAR WATT:1.7065e+005mW(400-700nm)

Electrical parameters:

V = 278.65 V I = 2.281 A P = 608.9 W PF = 0.9581
LEVEL:OUT WHITE:ANSI_3500K

RX-G80-2H 609W PPF Output Test