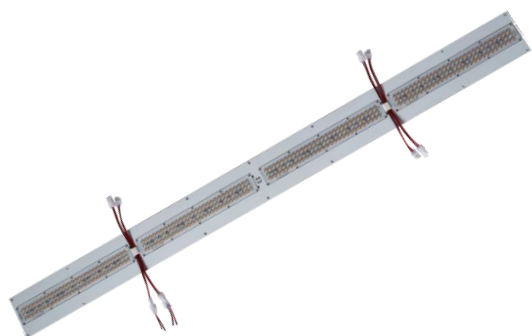


**Description:**

RX-LM301-12093-2H Double-channel medicinal plant lamp, channel A is dedicated to vegetative growth of medicinal plants, channel B is specially increased far red spectrum, used for medicinal plant flowering and medical component formation, using Samsung LM301 and extra deep red 660nm and far red 730nm Plant gardening LED, unique lens structure - high efficiency concentrating, higher light utilization, more energy efficient than ordinary plant lights, providing up to 1200μmol/m2/s @0.2m illumination, Preferred plant-Light recipes, Improve the yield and quality of medicinal plants.



1. Dual-channel LED grow module, channel A plant vegetative growth, channel A and channel B, for flower harvesting
2. Concentrated light lens provides up to 1200μmol/m2/s @0.2m illumination
3. Forming an LED plant light module array by plugging and connecting
4. Samsung LM301 and extra deep red 660nm and far red 730nm plant Horticulture LED
5. CHA maximum power 2.4A@34V 82W; CHB maximum power 1.8A@31V 56W
6. The recommended irradiation distance is 0.2~0.5m, which is suitable for greenhouses, basements and indoor light-free environments.
7. Lifespan 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-LM301-12093 -2H-CHA	1190x93x8mm 47"x3.7"x 0.3"	CHA	209μmol@0.3m 13016 Lx	6087Lm 91umol/s	1A @31.8V	32W 2.8umol/J
			333μmol@0.3m 22190Lx	9496Lm 143umol/s	1.6A @32.6V	52W 2.8umol/J
			414μmol@0.5m 27594Lx	13837Lm 209umol/s	2.4A @33.1V	80W 2.6umol/J
RX-LM301-12093 -2H-CHB	1190x93x8mm 47"x3.7"x 0.3"	CHB	135μmol @0.2m 8783 Lx	3913Lm 60umol/s	0.8A @29.5V	24W 2.5umol/J
			201μmol @0.3m 13016Lx	5751Lm 89umol/s	1.2A @30.1V	36W 2.5umol/J
			294μmol @0.5m 18993Lx	8418Lm 130umol/s	1.8A @30.9V	56W 2.3umol/J
RX-LM301-12093- 2H	1190x93x8mm 47"x3.7"x 0.3"	CHA+CHB	730μmol @10" (0.25m)48003Lx	16071Lm 246umol/s	1.77A @33V 1.33A @30V	CHA 58W CHB 40W 98W 2.5umol/J

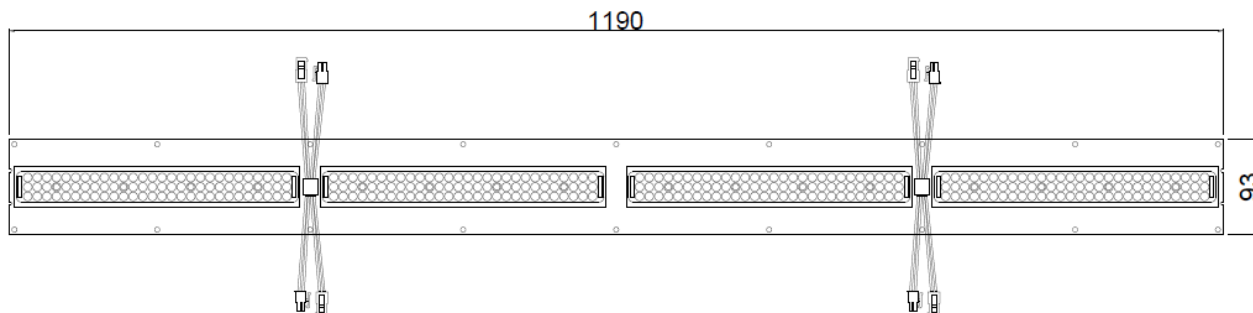
Module maximum working temperature: T<sub>cp</sub> <75 °C, above test room temperature 20 ° C, service life: 50,000 hours (Note: T<sub>cp</sub> <55 ° C)

Tolerance range for optical and electrical data: ± 10%. Beam angle 90° ,Recommended irradiation distance:0.2~0.5m,

height is 0.2m corresponding to the illumination area 0.2x1.2m.

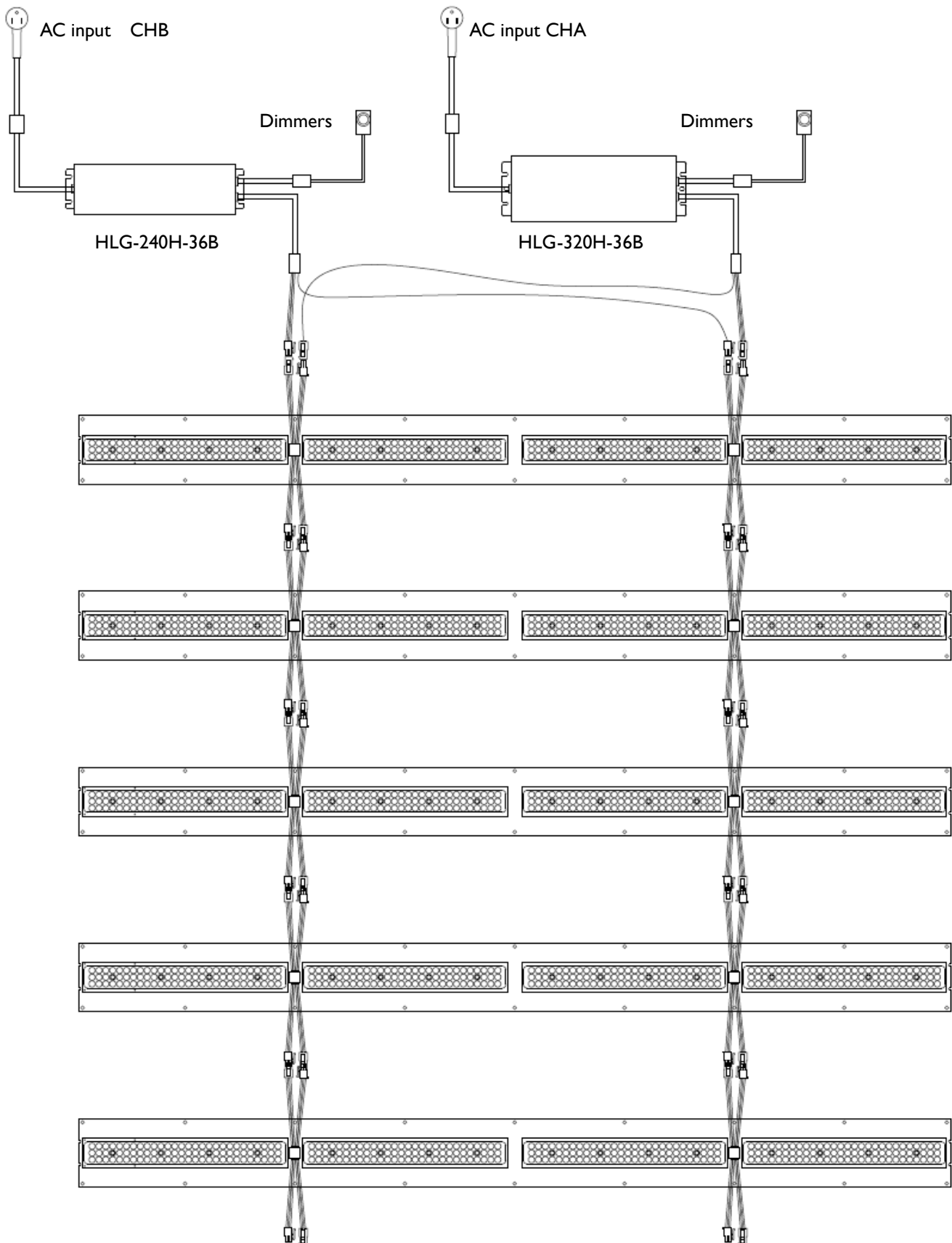
The above data is for reference only!

**Dimension:**

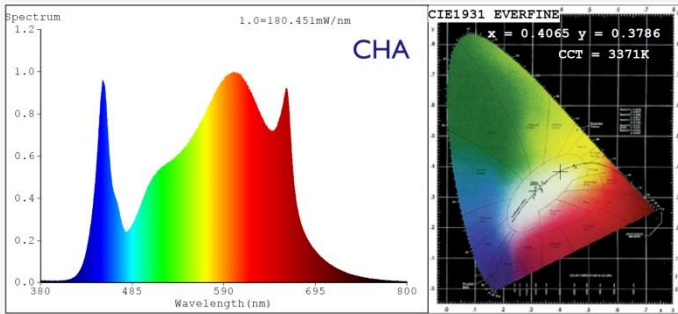


UNIT: mm

- K5 kit uses Meanwell HLG series power supply



● Testing report



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4065$   $y=0.3786$   $u'=0.2416$   $v'=0.5063$   
 CCT=3371K (Duv=-0.0056) Dominant WL:Ld =584.0nm Purity=35.6%  
 Ratio:R=21.7% G=74.9% B=3.4% Peak WL:Lp=601.0nm FWHM=160.9nm  
 Render Index:Ra=88.2 AvgR=84.6  
 R1 =88 R2 =95 R3 =96 R4 =87 R5 =89 R6 =92 R7 =87  
 R8 =72 R9 =38 R10=88 R11=87 R12=77 R13=90 R14=99 R15=84

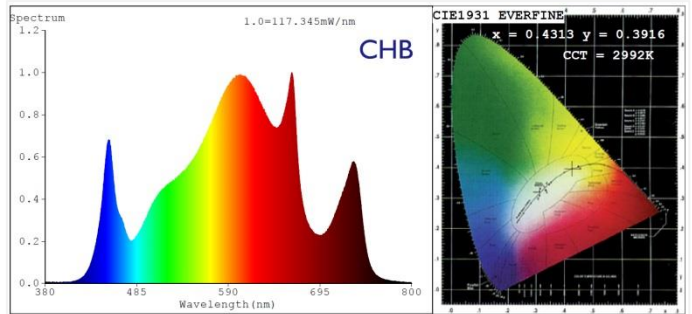
**Photo Parameters:** **143.5µmol/s 52W**

Flux = 9495 lm Eff. : 182.10 lm/W Fe = 30.75 W  
 Scotopic:14795 S/P:1.5582  
 Photosynthetic:PPF:143.51µmol/s PAR WATT:30058mW(400-700nm)

**Electrical parameters:**

V = 32.610 V I = 1.599 A P = 52.14 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_3500K

RX-LM301-I2093-2H-CHA 1.6A@32.6V PPF output Test



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4313$   $y=0.3916$   $u'=0.2524$   $v'=0.5155$   
 CCT=2992K (Duv=-0.0043) Dominant WL:Ld =584.5nm Purity=47.0%  
 Ratio:R=23.6% G=73.5% B=2.9% Peak WL:Lp=663.1nm FWHM=140.4nm  
 Render Index:Ra=87.2 AvgR=83.7  
 R1 =87 R2 =95 R3 =95 R4 =85 R5 =88 R6 =93 R7 =85  
 R8 =70 R9 =35 R10=89 R11=86 R12=79 R13=89 R14=98 R15=82

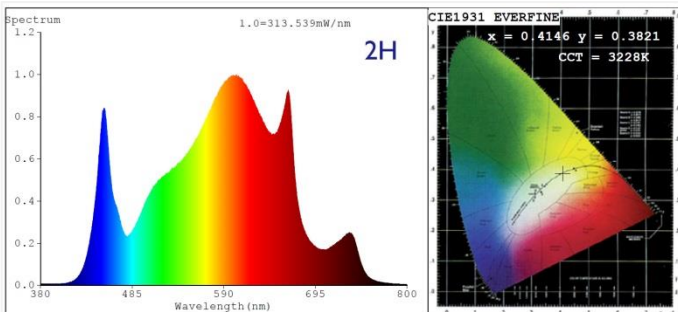
**Photo Parameters:** **89µmol/s 36W**

Flux = 5751 lm Eff. : 159.50 lm/W Fe = 20.80 W  
 Scotopic:8090.5 S/P:1.4067  
 Photosynthetic:PPF:89.121µmol/s PAR WATT:18376mW(400-700nm)

**Electrical parameters:**

V = 30.070 V I = 1.199 A P = 36.06 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_3000K

RX-LM301-I2093-2H-CHB 1.2A@30.1V PPF output Test



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4146$   $y=0.3821$   $u'=0.2455$   $v'=0.5090$   
 CCT=3228K (Duv=-0.0057) Dominant WL:Ld =584.4nm Purity=39.1%  
 Ratio:R=22.4% G=74.4% B=3.2% Peak WL:Lp=604.2nm FWHM=156.6nm  
 Render Index:Ra=87.8 AvgR=84.3  
 R1 =88 R2 =95 R3 =96 R4 =86 R5 =88 R6 =93 R7 =86  
 R8 =71 R9 =37 R10=89 R11=86 R12=78 R13=90 R14=98 R15=83

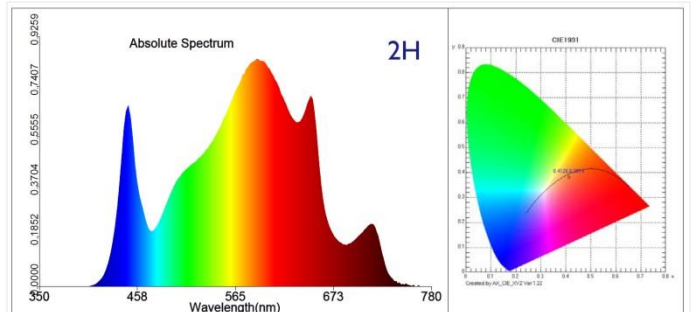
**Photo Parameters:** **246µmol/s 98W**

Flux = 16071 lm Eff. : 163.99 lm/W Fe = 54.61 W  
 Scotopic:24230 S/P:1.5077  
 Photosynthetic:PPF:246.23µmol/s PAR WATT:51268mW(400-700nm)

**Electrical parameters:**

V = 1.7700 V I = 1.330 A P = 98.00 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_3500K

RX-LM301-I2093-2H PPF output Test



**Test parameter:**

E = 48002.9 lx E(fc)=4461.24 fc  
 CIE x= 0.4126 CIE y= 0.3814 CIE u'=0.2444 CIE v'=0.5084  
 Tc=3264 K Lp=600.0 nm HW=157.1 nm Ld=584.3 nm  
 Pur=38.3 % Ratio\_R=22.1 % Ratio\_G=74.6 % Ratio\_B=3.3 %  
 Duv=-0.00562  
 Ra=87.3 R1= 87 R2= 94 R3= 96  
 R4= 86 R5= 88 R6= 92 R7= 86  
 R8= 70 R9= 35 R10= 88 R11= 86  
 R12= 78 R13= 89 R14= 98 R15= 83  
 SDCM= 6.5(3500K/White) White Class:OUT  
**730µmol/m²/s**  
 E1=152.33 W/m2 E2=162.29 W/m2 PPF=730.4 µmol/(m²s)  
 Ech-A=25.586 W/m2 Ech-B=28.136 W/m2 Ef=9.8405 W/m2  
 Eb=26.65 W/m2 Ey=63.857 W/m2 Er=61.951 W/m2  
 Ep=136.16 W/m2 Erb\_Ratio=2.3246

RX-LM301-I2093-2H PPF Test 0.25m