

Description:

RX-LM301-I28 high PAR output grow tent medicinal grow light module kit, for Balanced growth. Samsung LM301 high efficiency led chip, and add the deep red 660 nm. More effective spectra for medicinal plants, full spectrum is Ideal Medicinal plants LED grow light which can obviously improve the quality and harvest. suitable for basement planting, plant tent planting, experimental planting and greenhouse planting. marijuana (cannabis)



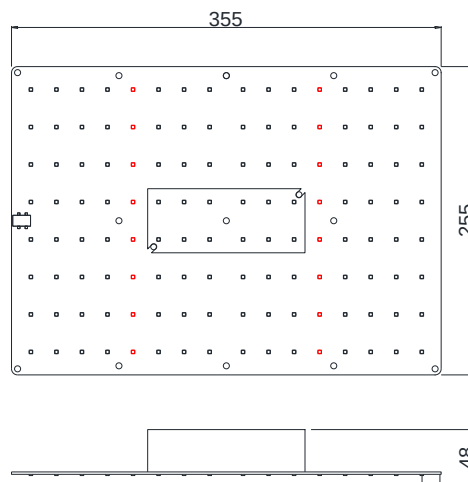
- 1.High efficiency grow light module kit, efficiency up to 2.9 $\mu\text{mol/J}$
- 2.Samsung LM301 led chip, high efficiency and reliability
- 3.Additional 660 nm deep red led chip, efficiency up to 3.2 $\mu\text{mol/J}$,
Suitable for plant growth
- 4.Aluminum substrate size: 14"x10" (355x255mm)
- 5.Meanwell OWA-60U power supply
- 6.Can be customized the size, power, spectrum, PAR output, PPFD output as you need
- 7.Input voltage: 40~47V, input current 0.5~1.5A, maximum power:70W
- 8.Lifespan 50,000 hours
- 9.CE RoHS FCC

Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD $\mu\text{mol/m}^2/\text{s}$	Luminous flux Radiation Power	Power Test Input	Comment
RX-LM301-I28	355x255x2mm 14"x10"x 0.8"	SII 3K57RI	160.3 μmol @0.3m 10581Lx	4085Lm 63 $\mu\text{mol/s}$	0.48A @41.3V	19.8W 3.2 $\mu\text{mol/J}$
			262 μmol @0.3m 17242Lx	6644Lm 102 $\mu\text{mol/s}$	0.8A @42.1V	34W 3 $\mu\text{mol/J}$
			473.7 μmol @0.3m 31063Lx	11873Lm 183 $\mu\text{mol/s}$	1.5A @43.6V	65W 2.8 $\mu\text{mol/J}$
RX-LM301-I28-KI	355x255x48mm 14"x10"x 1.9"	SII 3K57RI	728.5 μmol @0.2m 47651.7 Lx	10315Lm 159 $\mu\text{mol/s}$	60W 100~240V@1.2A	Grow Kit Includes Meanwell OWA-60U-48 power supply
			412.7 μmol @0.3m 27064.5Lx			

Surface temperature rise T_c 28°K, Operating temperature: -30°C~40°C, Lifespan: 50,000 hours (Note: T_a 25°C) Tolerance range for optical and electrical data: $\pm 10\%$. Beam angle 120°, Recommended irradiation distance: 0.2~0.5m

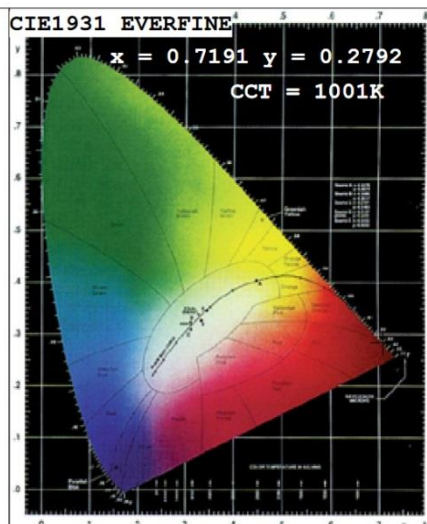
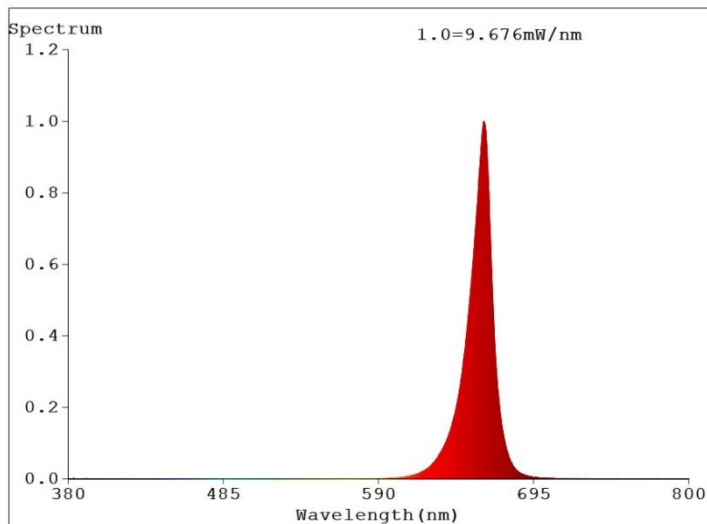
The above data is for reference only!

Dimension:



UNIT:mm

- High efficiency and energy saving, Samsung LM301b led chip, add Ultra-high efficiency deep red 660 nm , efficiency up to 3.4μmol/J



Color Parameters:

Chromaticity Coordinate: $x=0.7191$ $y=0.2792$ $u'=0.5855$ $v'=0.5115$

CCT=1001K (Duv=-0.1383) Dominant WL:Ld =642.3nm Purity=99.5%

Ratio:R=98.6% G=1.4% B=0.0% Peak WL:Lp=661.3nm FWHM=15.8nm

Render Index:Ra=31.5 AvgR=35.0

R1 =16 R2 =82 R3 =37 R4 =0 R5 =16 R6 =85 R7 =16

R8 =0 R9 =0 R10=83 R11=7 R12=81 R13=40 R14=62 R15=0

Photo Parameters:

3.4μmol/J

Flux = 11.29 lm Eff. : 36.60 lm/W Fe = 192.7 mW

Scotopic:0.43088 S/P:0.038154

Photosynthetic:PPF:1.0551μmol/s PAR WATT:192.26mW(400-700nm)

Electrical parameters:

V = 2.0585 V I = 0.1499 A P = 0.3086 W PF = 1.000

LEVEL:Class1

WHITE:OUT

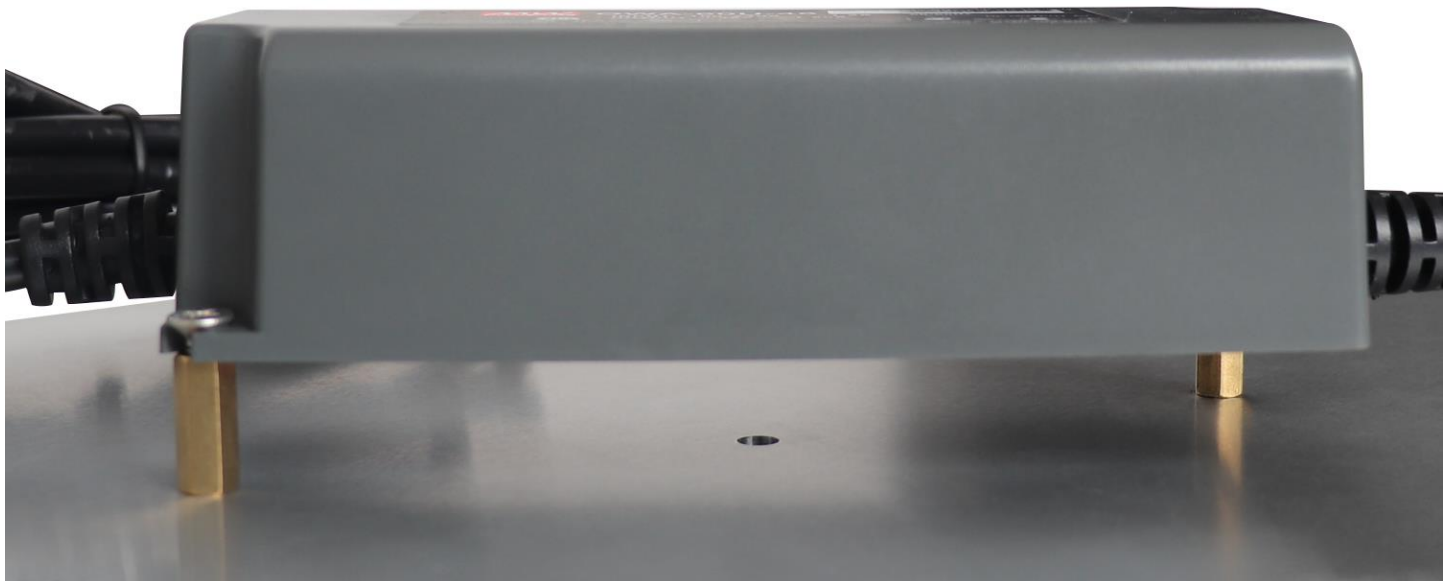
efficiency up to 3.4μmol/J

- Meanwell power supply, Waterproof rating IP67, high reliability



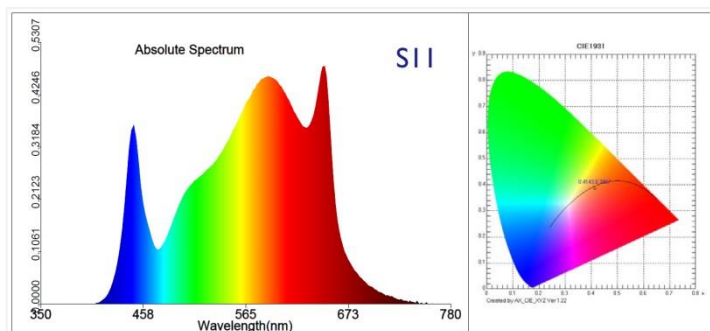
Meanwell power supply OWA-60U-48, input voltage: AC 100-240V, IP67 waterproof rating, safe and reliable

- Stepped insulation design for the power supply for better heat dissipation



Effectively isolates the heat transfer of the plant light module heat sink to the power drive, which has good heat dissipation effect.

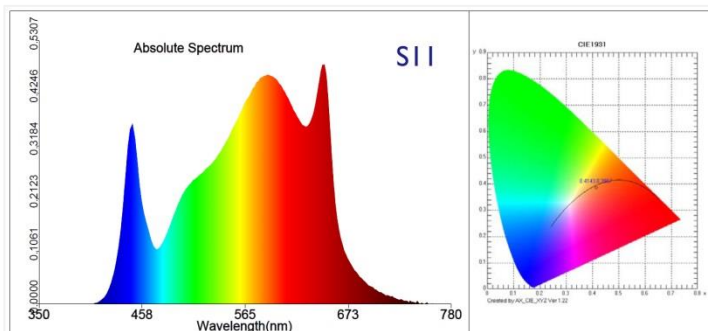
● RX-LM301-I28-KI PPFD Testing Report



Test parameter:

E= 47651.7 lx E(fc)=4428.6 fc
 CIE x= 0.4151 CIE y= 0.3870 CIE u'=0.2437 CIE v'=0.5112
 Tc=3260 K Lp=659.0 nm HW=150.3 nm Ld=583.3 nm
 Pur=40.7 % Ratio_R=22.0 % Ratio_G=74.9 % Ratio_B=3.2 %
 Duv=-0.00362
 Ra=88.5 R1= 88 R2= 94 R3= 97
 R4= 87 R5= 88 R6= 91 R7= 88
 R8= 75 R9= 44 R10= 87 R11= 87
 R12= 77 R13= 89 R14= 99 R15= 84
 SDCM= 5.0(3500K/White)
 White Class:OUT
728.5 μmol/m²/s
 E1=151.5 W/m² E2=153.84 W/m² PPFD=728.53 μmol/(m²·s)
 Ech-A=26.738 W/m² Ech-B=27.644 W/m² Ef=2.3331 W/m²
 Eb=25.049 W/m² Ey=63.555 W/m² Er=63.018 W/m²
 Ep=134.44 W/m² Erb_Ratio=2.5157
 PPFDf=1.4094E+001 μmol/(m²·s)

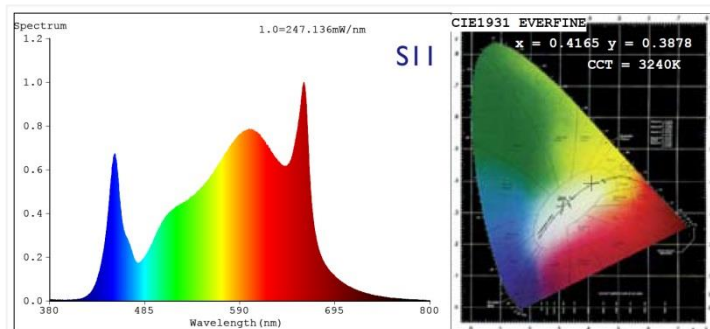
RX-LM301-I28-KI H20 PPFD Test 728.5 μmol/m²/s



Test parameter:

E= 27064.5 lx E(fc)=2515.29 fc
 CIE x= 0.4143 CIE y= 0.3867 CIE u'=0.2433 CIE v'=0.5109
 Tc=3275 K Lp=661.0 nm HW=156.7 nm Ld=583.3 nm
 Pur=40.4 % Ratio_R=21.9 % Ratio_G=75.0 % Ratio_B=3.2 %
 Duv=-0.00358
 Ra=88.1 R1= 87 R2= 94 R3= 97
 R4= 86 R5= 88 R6= 91 R7= 88
 R8= 74 R9= 41 R10= 86 R11= 87
 R12= 77 R13= 89 R14= 99 R15= 83
 SDCM= 4.7(3500K/White)
 White Class:OUT
412.7 μmol/m²/s
 E1=85.868 W/m² E2=87.222 W/m² PPFD=412.7 μmol/(m²·s)
 Ech-A=15.146 W/m² Ech-B=15.638 W/m² Ef=1.3412 W/m²
 Eb=14.328 W/m² Ey=36.126 W/m² Er=35.485 W/m²
 Ep=76.171 W/m² Erb_Ratio=2.4766
 PPFDf=8.1004E+000 μmol/(m²·s)

RX-LM301-I28-KI H30 PPFD Test 412.7 μmol/m²/s



Color Parameters:

Chromaticity Coordinate:x=0.4165 y=0.3878/u'=0.2442 v'=0.5117
 CCT=3240K (Duv=-0.0035) Dominant WL:Ld =583.3nm Purity=41.4%
 Ratio:R=22.1% G=74.7% B=3.1% Peak WL:Lp=660.9nm FWHM=125.0nm
 Render Index:Ra=89.0 AvgR=85.6
 R1=88 R2=94 R3=97 R4=88 R5=89 R6=92 R7=89
 R8=76 R9=46 R10=87 R11=88 R12=77 R13=90 R14=99 R15=85

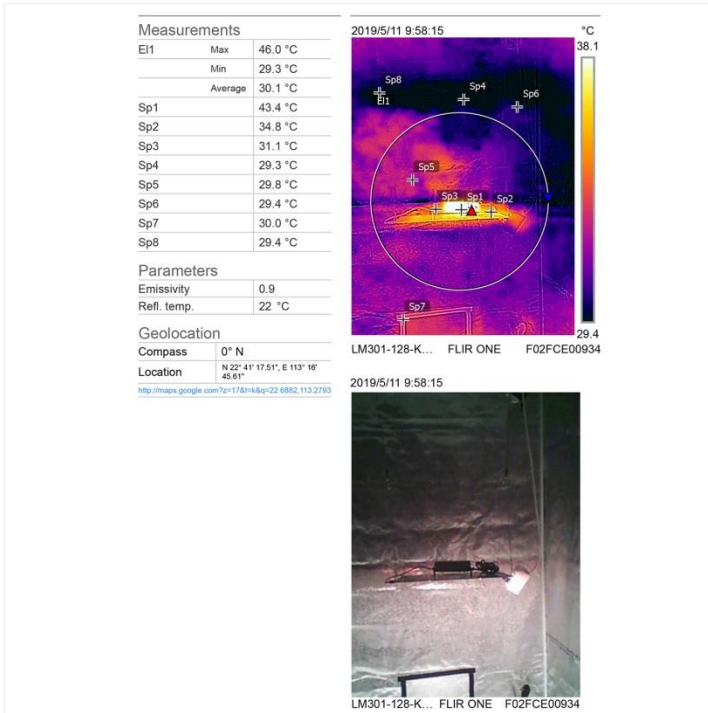
Photo Parameters **158.79 μmol/s 60W**

Flux = 10315 lm Eff. : 169.90 lm/W Fe = 33.67 W
 Photosynthetic:PPF:158.79 μmol/s PAR WATT:32977mW (400~700nm)

Electrical parameters:

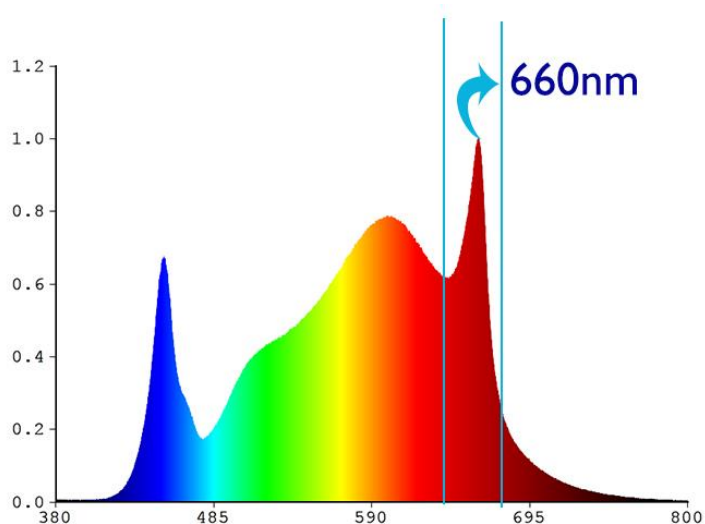
V = 231.58 V I = 0.5454 A P = 60.71 W PF = 0.4807
 LEVEL:OUT WHITE:ANSI_3500K

RX-LM301-I28-KI 60W PPF Test 158.79 μmol/s

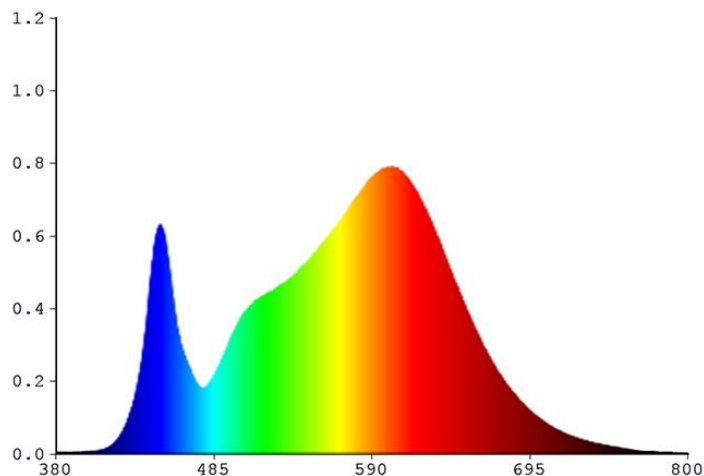


RX-LM301-I28-KI Surface temperature Test

- Designed for balancing plant growth ,full spectrum grow light for horticulture



RX-LM301-S10 Spectrum Recommended Extra High Efficiency Deep Red Spectrum



Low cost spectrum
Without deep red 660nm led chip

- Product List



- 1、 LM301-I28 grow light module: 1pcs
- 2、 Meanwell driver OWA-60U-48: 1pcs
- 3、 Hexagon pillar (M4*15): 2pcs
- 4、 M4 Copper Column Screw: 4pcs
- 5、 Wire rope hook: 4pcs
- 6、 Snap hook: 1pcs

- Other optional accessories (Need additional purchase)



Wire rope hook



1.5m Steel cable



Side Exit Grippers



Nylon rope hook