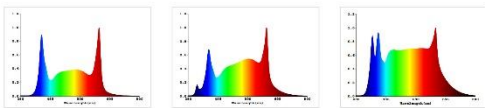


**Description:**

RX-LM301H Horticulture LED linear Full Spectrum Additional hyper red more suitable for plant growth, Applications: Horticultural lighting vertical farm indoor farm, Supplementary lighting greenhouse, Increased Deep red LED full spectrum, designed for balanced growth equipment, stimulates enhanced plant growth compared to Red-blue ratio narrow spectrums.



1. High efficiency plant light Horticulture module, PPF efficiency up to 3.1 μmol / J at 20W power
2. Max Power: 70W
3. Preferred spectrum based on plant growth experimentation in the lab
4. Horticulture LED Light Engine LED linear Full Spectrum Additional hyper red 660nm more suitable for plant growth,
5. Length 2ft 561mm, Width 1.6 inches 41 mm
6. LED Module Input voltage: 30~45V, input current 0.24~1.6A
7. Service life 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-LM301H-L56W 4-S5	561x41x6mm 22"x3.8"x 2.4"	S5	203μmol @0.2m 13278Lx	3388Lm 53umol/s	0.5A @36.9V	18.4W 2.9μmol/J Tcp 43 °C
		3400K Ra91	379μmol @0.2m 24779Lx	6453Lm 102umol/s	1A @38.6V	38.4W 2.7μmol/J Tcp60 °C
		4K43K2 R1	585μmol @0.2m 38131Lx	9769Lm 155umol/s	1.6A @40.3V	64W Need install heat sink
RX-LM301H-L56W 4-S6	561x41x6mm 22"x3.8"x 2.4"	S6	185μmol @0.2m 11617Lx	3039Lm 49umol/s	0.5A @37.4V	18.6W 2.6μmol/J Tcp 43 °C
		4000K Ra97	359μmol @0.2m 22545Lx	5858Lm 96umol/s	1A @38.9V	38.9W 2.5μmol/J Tcp60 °C
		R9=98	558μmol @0.2m 34960Lx	8956Lm 147umol/s	1.6A @40.4V	64W Need install heat sink
RX-LM301H-L56W 4-S7	561x41x6mm 22"x3.8"x 2.4"	S7	176μmol @0.2m 10569Lx	2804Lm 47umol/s	0.5A @35.8V	17.8W 2.6μmol/J Tcp 43 °C
		5000K Ra95	328μmol @0.2m 19608Lx	5209Lm 88umol/s	1A @37.6V	38.4W 2.7μmol/J Tcp60 °C
		5K56R1	487μmol @0.2m 28958Lx	7512Lm 128umol/s	1.6A @38.9V	62W Need install heat sink
RX-LM301H-L56W 4-S8	561x41x6mm 22"x3.8"x 2.4"	S8	219μmol @0.2m 13159Lx	3642Lm 63umol/s	0.5A @40.5V	20W 3.1μmol/J Tcp 43 °C
		5200K Ra92	425μmol @0.2m 25579Lx	7024Lm 122umol/s	1A @42.6V	43W 2.8μmol/J Tcp60 °C
		6K3R1	660μmol @0.2m 39441Lx	10542Lm 148umol/s	1.6A @44.6V	71W Need install heat sink

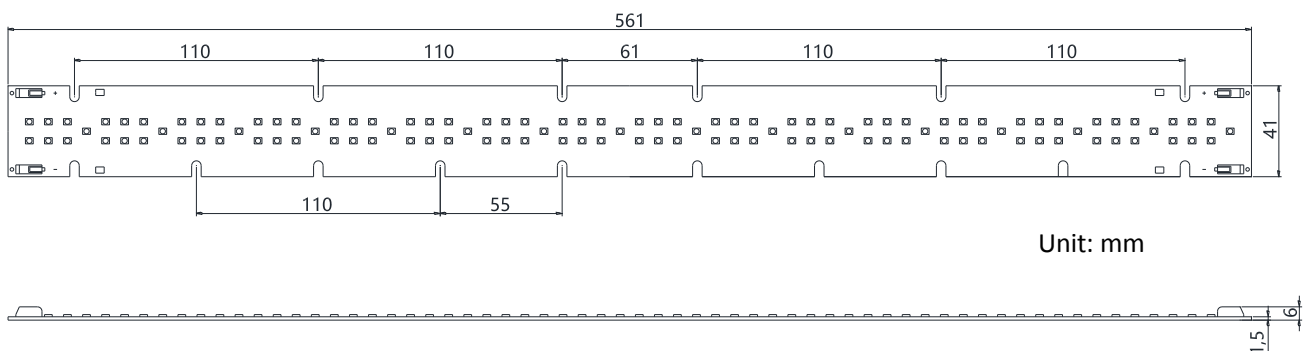
Module maximum working temperature: Tcp <75 °C, above test room temperature 20 ° C, service life: 50,000 hours (Note: Tcp <55 ° C)

Tolerance range for optical and electrical data: ±10 % . ;

The illumination angle is 120°, and the recommended illumination distance is 0.2~0.5m; it meets the Zhaga size requirement.

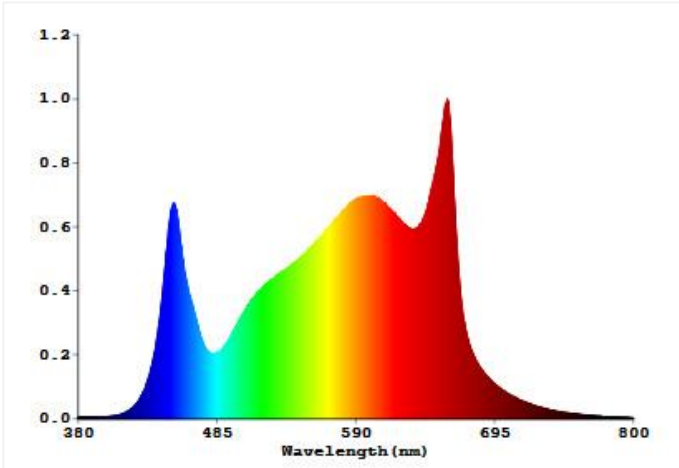
The above data is for reference only!

● Dimension:

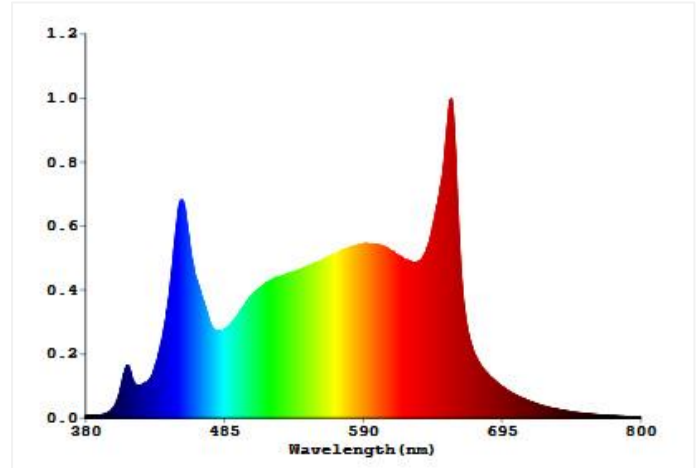


Unit: mm

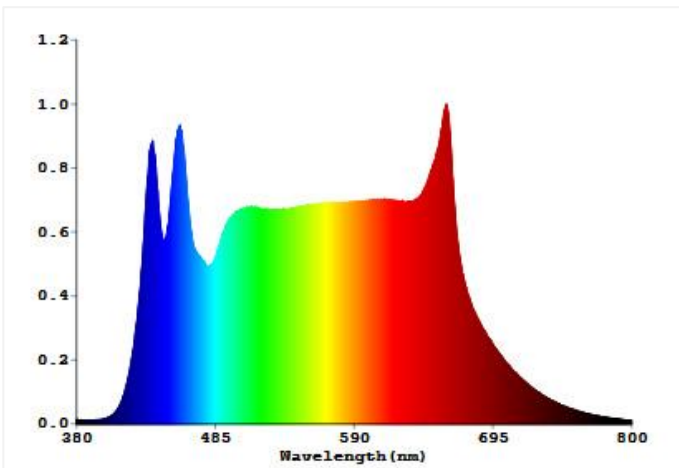
- Design for balancing plant growth, horticultural full spectrum plant lamp module



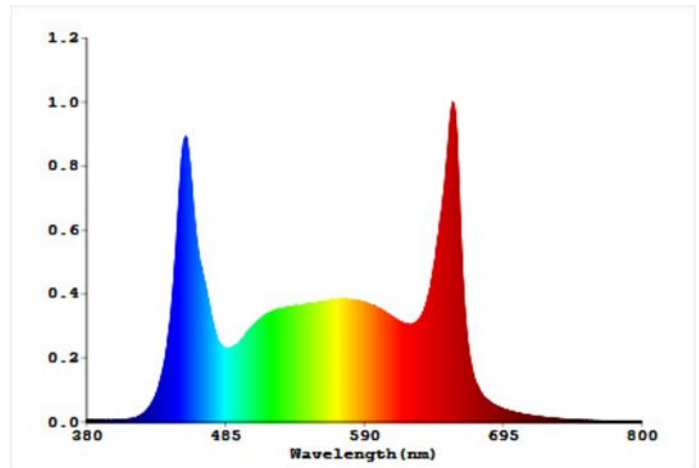
RX-LM301H-L56W4-S5  
3400K Ra91  
General planting spectrum  
Suitable for most indoor planting



RX-LM301H-L56W4-S6  
Additional purple spectrum  
4000K, high color rendering Ra97, R9=98  
Medicinal planting



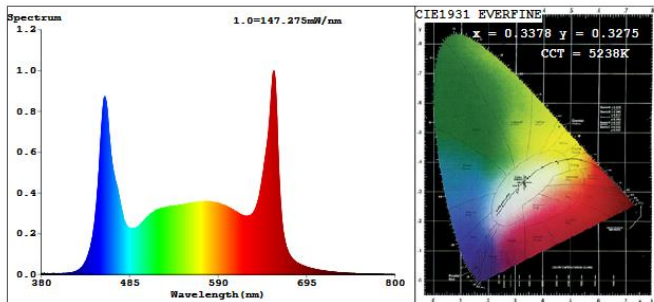
RX-LM301H-L56W4-S7  
5000K Ra95 sunshine light spectrum, an additional 660nm  
Suitable for succulent plants, suitable for ornamental  
planting



RX-LM301H-L56W4-S8  
5200K Ra92  
High energy efficiency spectrum, high PPE 2.8μmol/J @43W  
universal plant growth

We can customize the spectrum you need according to your requirements. Plant planting lights, biological growth farming lights, if you need special light sources, please contact us.

● Testing report



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3378$   $y=0.3275$   $u'=0.2160$   $v'=0.4713$   
 CCT=5238K (Duv=-0.0096) Dominant WL:Ld =510.0nm Purity=1.4%  
 Ratio:R=18.2% G=75.6% B=6.2% Peak WL:Lp=656.0nm FWHM=18.7nm  
 Render Index:Ra=92.3 AvgR=87.5  
 R1 =91 R2 =94 R3 =95 R4 =96 R5 =91 R6 =92 R7 =97  
 R8 =83 R9 =48 R10=90 R11=94 R12=72 R13=91 R14=97 R15=84

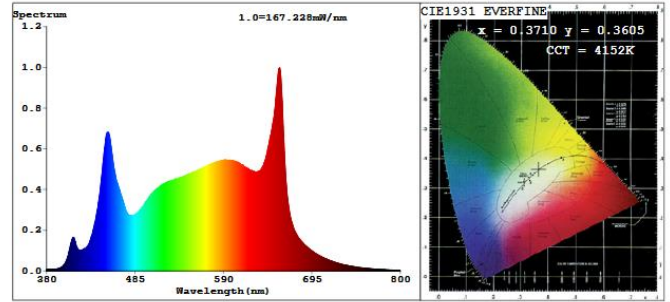
**Photo Parameters:**

Flux = 3642 lm Eff. : 180.81 lm/W Fe = 13.66 W  
 Scotopic:8075.7 S/P:2.2177  
 Photosynthetic:PPF:63.062umol/s PAR WATT:13515mW(400-700nm)

**Electrical parameters:**

V = 40.540 V I = 0.4970 A P = 20.14 W PF = 1.000  
 LEVEL:OUT WHITE:OUT

RX-LM301H-L56W4-S8 PPF Test  
 0.5A @40.5V 20W  
 3.1μmol/J



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3710$   $y=0.3605$   $u'=0.2254$   $v'=0.4928$   
 CCT=4152K (Duv=-0.0050) Dominant WL:Ld =582.2nm Purity=19.5%  
 Ratio:R=19.6% G=75.7% B=4.7% Peak WL:Lp=656.7nm FWHM=29.0nm  
 Render Index:Ra=97.2 AvgR=96.2  
 R1 =98 R2 =98 R3 =96 R4 =97 R5 =97 R6 =95 R7 =98  
 R8 =98 R9 =98 R10=96 R11=97 R12=81 R13=98 R14=97 R15=99

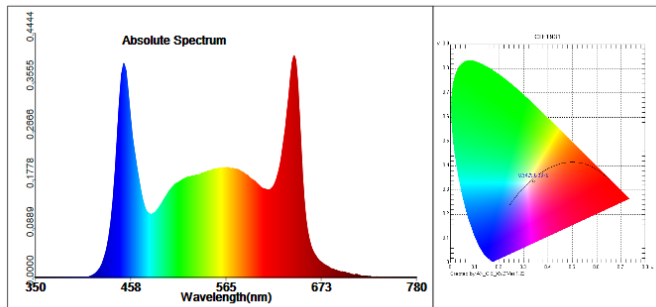
**Photo Parameters:**

Flux = 5858 lm Eff. : 151.33 lm/W Fe = 20.78 W  
 Scotopic:11004 S/P:1.8785  
 Photosynthetic:PPF:95.539umol/s PAR WATT:20318mW(400-700nm)

**Electrical parameters:**

V = 38.900 V I = 0.9950 A P = 38.71 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_4000K

RX-LM301H-L56W4-S6 PPF Test  
 1A @38.9V 39W  
 2.5μmol/J 410nm Purple spectrum



**Test parameter:**

E= 14882.0 lx E(fc)=1383.09 fc  
 CIE x= 0.3429 CIE y= 0.3370 CIE u'=0.2157 CIE v'=0.4770  
 Tc=5037 K Lp=655.0 nm HW=26.3 nm Ld=589.7 nm  
 Pur=4.0 % Ratio\_R=17.8 % Ratio\_G=76.5 % Ratio\_B=5.7 %  
 Duv=-0.00665  
 Ra=95.8 R1= 96 R2= 97 R3= 94  
 R4= 98 R5= 96 R6= 93 R7= 100  
 R8= 93 R9= 76 R10= 96 R11= 96  
 R12= 73 R13= 97 R14= 96 R15= 92  
 SDCM= 9.0(5300K/ENM)  
 White Class:OUT  
 E1=53.055 W/m2 E2=53.399 W/m2 PPF=247.62 μmol/(m·s)  
 Ech-A=8.6929 W/m2 Ech-B=12.695 W/m2 Ef=0.34499 W/m2  
 Eb=14.474 W/m2 Ey=20.333 W/m2 Er=18.283 W/m2  
 Ep=45.426 Wphyto/m2 Erb\_Ratio=1.2632  
 PPFDF=2.0762E+000 μmol/(m2·s)

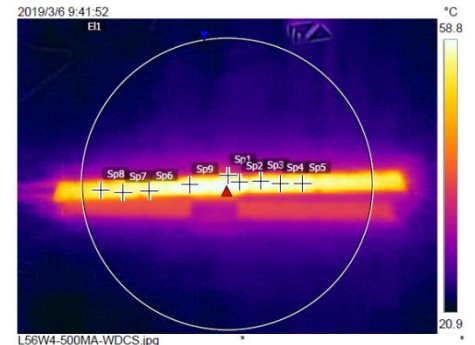
RX-LM301H-L56W4-S8 PPF Test  
 1A @42.6V 43W  
 248μmol/m²/s Test height 0.3m 11.8"

Measurements

E11	Max	59.4 °C
	Min	21.0 °C
	Average	25.2 °C
Sp1		35.9 °C
Sp2		58.7 °C
Sp3		57.9 °C
Sp4		58.3 °C
Sp5		58.2 °C
Sp6		57.2 °C
Sp7		55.9 °C
Sp8		55.0 °C
Sp9		58.2 °C

Parameters

Emissivity	0.95
Refl. temp.	20 °C



RX-LM301H-L56W4-S5  
 1A @38.6V 39W Temperature test  
 LF-GLD040YA 1A



Horticulture LED linear Full Spectrum Additional hyper red more suitable for plant growth

MODEL: RX-LM301H [Http: www.koraylight.com](http://www.koraylight.com)

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Horticulture LED linear

Horticulture module

Horticulture LED Light Engine

LED grow lights

LED grow light linear