

Description: RX-LM301H-OS-K2 Sunlight spectrum Plants Lights for Indoor Veg and Flower Growing Lamp, Samsung LM301 high efficiency led chip, and add the German Brand deep red 660nm. More effective spectra for medicinal plants, koray LED grow light which can obviously improve the quality and harvest. suitable for basement planting, plant tent planting, experimental planting and greenhouse planting.

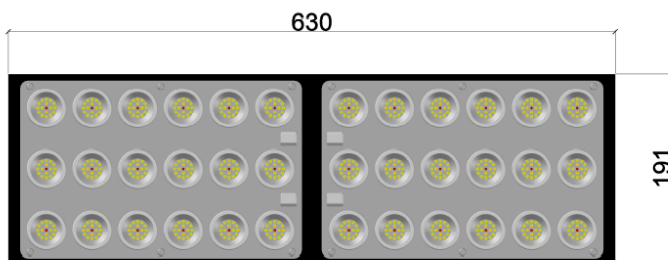


1. High efficiency up to 2.8 μ mol/J, only consume 240W but has same harvesting as fake 2000W Red ratio blue led growing lights
2. Veg footprint is 3 x 4 ft, Flowering footprint 2 x 3 ft
3. Samsung LM301 led chip and German Brand deep red 660nm
4. MeanWell Driver power
5. All aluminum heat dissipation without fan zero noise
6. Power: 245W/AC120V, 240W/230V, 237W/277V
7. Lifespan 50,000 hours, Warranty: 3 years
8. CE RoHS FCC

Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD μmol/m²/s	Luminous flux Radiation Power	Power Test Input	Comment
RX-LM301H-OS -K2	630x191x66 mm 24.8"x7.5"x 2.6"	F26	1459μmol @13.8"(35cm) 93408Lx	Flux: 44405Lm PPF:673umol/s	240W AC277V	Leafy vegetables, flowering, medicinal plants
			1211μmol @15.7"(40cm) 77552Lx			
			861μmol @19.7"(50cm) 55118Lx			
Max working temperature: Tc 28 °K ,Working temperature: - 30°C ~ 40°C ,Lifespan: 50,000 hours (Note: Ta 25 °C) Tolerance range for optical and electrical data: ±10 %. Recommended Mounting Height: Germination: 24-30 inches; Seeding: 24 inches,Veg: 18-24 inches; Bloom: 12-18 inches						

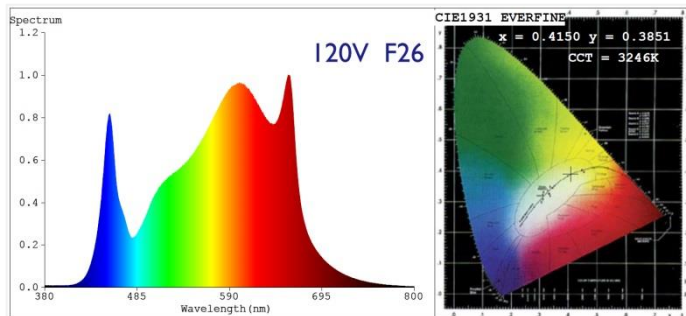
The above data is for reference only!

Dimension:



Unit: mm

High efficiency up to $2.8\mu\text{mol/J}$, only consume 240W but has same harvesting as fake 2000W Red ratio blue led growing lights



Color Parameters:

Chromaticity Coordinate: $x=0.4151$ $y=0.3851$ $u'=0.2445$ $v'=0.5104$
 CCT=3244K (Duv=-0.0044) Dominant WL:Ld =583.8nm Purity=40.2%
 Ratio:R=22.2% G=74.5% B=3.2% Peak WL:Lp=656.7nm FWHM=151.1nm
 Render Index:Ra=88.7 AvgR=85.3
 R1 =88 R2 =95 R3 =96 R4 =87 R5 =89 R6 =93 R7 =88
 R8 =74 R9 =43 R10=89 R11=87 R12=77 R13=90 R14=99 R15=85

Photo Parameters:

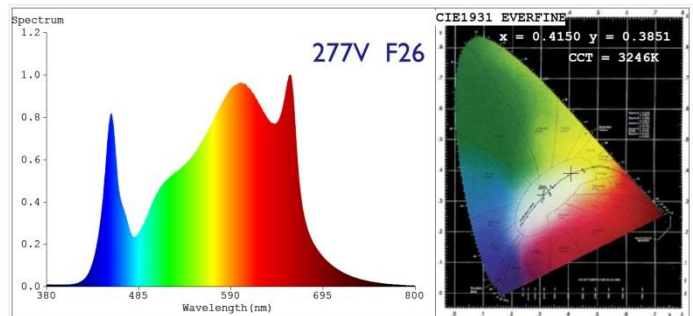
671 $\mu\text{mol/s}$ 245W

Flux = 44271 lm Eff. : 180.35 lm/W Fe = 143.1 W
 Scotopic:66942 S/P:1.5121
 Photosynthetic:PPF:671.49 $\mu\text{mol/s}$ PAR WATT:1.3993e+005mW (400-700nm)

Electrical parameters:

V = 120.83 V I = 2.041 A P = 245.5 W PF = 0.9954
 LEVEL:OUT WHITE:ANSI_3500K

RX-LM301H-OS-K2-F26 120V PPF Test



Color Parameters:

Chromaticity Coordinate: $x=0.4150$ $y=0.3851$ $u'=0.2445$ $v'=0.5103$
 CCT=3246K (Duv=-0.0044) Dominant WL:Ld =583.8nm Purity=40.1%
 Ratio:R=22.2% G=74.5% B=3.2% Peak WL:Lp=657.0nm FWHM=151.3nm
 Render Index:Ra=88.7 AvgR=85.2
 R1 =88 R2 =95 R3 =96 R4 =87 R5 =89 R6 =93 R7 =88
 R8 =74 R9 =43 R10=89 R11=87 R12=77 R13=90 R14=99 R15=85

Photo Parameters:

673 $\mu\text{mol/s}$ 237W

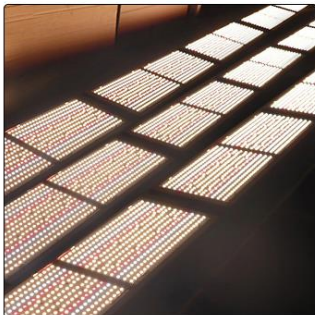
Flux = 44405 lm Eff. : 187.30 lm/W Fe = 143.5 W
 Scotopic:67159 S/P:1.5124
 Photosynthetic:PPF:673.44 $\mu\text{mol/s}$ PAR WATT:1.4034e+005mW (400-700nm)

Electrical parameters:

V = 279.51 V I = 0.8882 A P = 237.1 W PF = 0.9549
 LEVEL:OUT WHITE:ANSI_3500K

RX-LM301H-OS-K2-F26 277V PPF Test

Testing



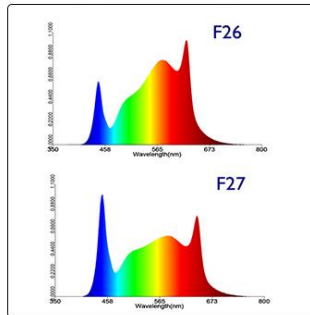
Durability Test for Each Light to Ensure Perfect Operation.

Dimmable



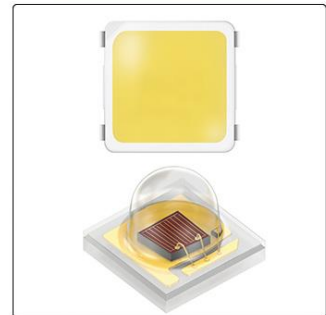
RX-DM35 dimmer
1-10V 40mA drive current

Spectrum



Full Spectrum Light for Healthy Plants & Better Yields.

Brand lamp beads



Samsung LM301 add Osram Deep red 660nm led chips.

Germination



Hang at 24" - 30"
18hr On/6hr Off

Seedling



Hang at 24" - 30"
18hr On/6hr Off

Veg



Hang at 18" - 24"
18hr On/6hr Off

Bloom

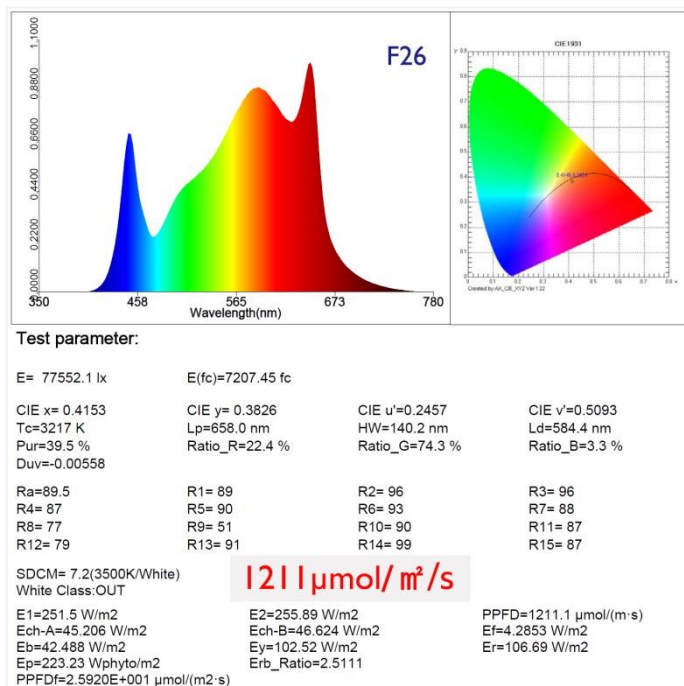


Hang at 12" - 18"
12hr On/12hr Off

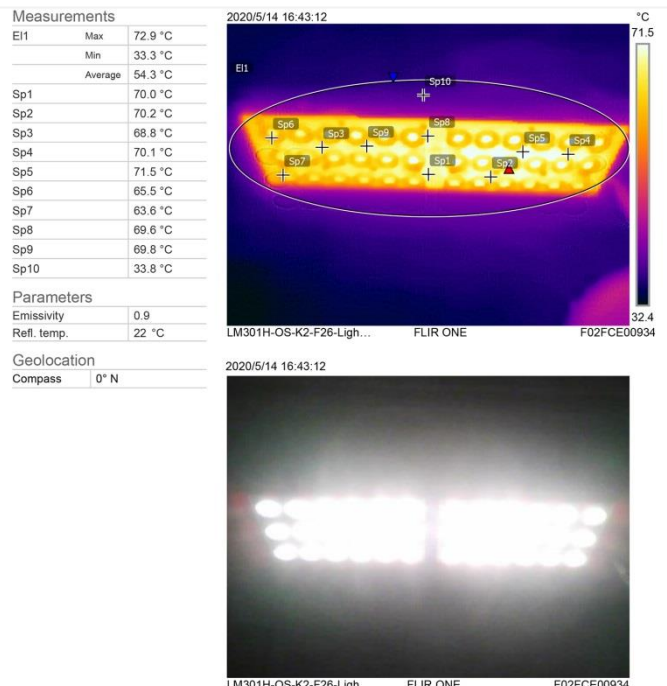
Comparison of three plant lights

 Materials: Good Quality, but Obsolete Components Energy Efficiency: Less Lifespan: 6 to 12 Months Heat Output: Very High PPFD: Footprint Not Uniform Spectrum: Limited Spectrum Noise: ZERO Noise Water Resistance: No Yields: Less Operation Cost: Much Higher	 Materials: Reliable, Longer Lasting Energy Efficiency: The Highest Lifespan: Longer Heat Output: Low PPFD: More PAR/Watt & Uniformity Spectrum: Full-Spectrum Noise: ZERO Noise Water Resistance: Yes Yields: 2.5g/watt Operation Cost: Lower	 Materials: Cheaply Built. Low Quality, Obsolete Components Energy Efficiency: Less Lifespan: Shorter Heat Output: High PPFD: Much Lower, Not Uniform Spectrum: Limited Spectrum Noise: Fan Noise Water Resistance: No Yields: Less Operation Cost: Higher
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PPFD test report and temperature test report



RX-LM301H-OS-K2-F26 0.4m PPFD Test



RX-LM301H-OS-K2-F26 Surface temperature test

PPFD Comparative test

I、2.6 'x2.6 ' (0.8mx0.8m) No reflection test, 0.4m height multi-point PPFD comparison test:

RX-LM301H-OS-K2 Test height 16" / 0.4m, No reflector Coverage area 4 'x4 '		RX-LM301H-OS-K2 Test height 16" / 0.4m, With reflector Coverage area 4 'x4 '																																	
W=80cm <table><tr><td>284</td><td>419</td><td>418</td><td>270</td></tr><tr><td>571</td><td>888</td><td>860</td><td>563</td></tr><tr><td>580</td><td>892</td><td>874</td><td>550</td></tr><tr><td>295</td><td>423</td><td>421</td><td>282</td></tr></table> H=80cm		284	419	418	270	571	888	860	563	580	892	874	550	295	423	421	282	W=80cm <table><tr><td>305</td><td>428</td><td>417</td><td>287</td></tr><tr><td>570</td><td>907</td><td>930</td><td>590</td></tr><tr><td>587</td><td>908</td><td>911</td><td>584</td></tr><tr><td>301</td><td>425</td><td>426</td><td>291</td></tr></table> H=80cm		305	428	417	287	570	907	930	590	587	908	911	584	301	425	426	291
284	419	418	270																																
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17-point average PPFD 565μmol/m²/s Lowest test point PPFD 270μmol/m² /s Maximum test point PPFD 1020umol/m² /s		17-point average PPFD 593μmol/m² /s Lowest test point PPFD 287μmol/m² /s Maximum test point PPFD 1211umol/m² /s																																	
Compared with the test without reflector, the average PPFD is increased by 28μmol/m²/s, and the uniformity is improved by 5%.																																			

2、2.6 'x2.6 ' (0.8mx0.8m) No reflection test, 0.4m height multi-point PPFD comparison test:

RX-LM301H-OS-K2 Test height 16" / 0.4m, No reflector Coverage area 4 'x4 '	RX-LM301H-OS-K2 Test height 16" / 0.4m, With reflector Coverage area 4 'x4 '																																
W=80cm <table><tr><td>271</td><td>435</td><td>431</td><td>270</td></tr><tr><td>366</td><td>628</td><td>636</td><td>386</td></tr><tr><td>368</td><td>638</td><td>640</td><td>375</td></tr><tr><td>273</td><td>450</td><td>453</td><td>277</td></tr></table> H=80cm	271	435	431	270	366	628	636	386	368	638	640	375	273	450	453	277	W=80cm <table><tr><td>293</td><td>400</td><td>389</td><td>288</td></tr><tr><td>474</td><td>679</td><td>670</td><td>463</td></tr><tr><td>451</td><td>664</td><td>657</td><td>459</td></tr><tr><td>282</td><td>374</td><td>370</td><td>272</td></tr></table> H=80cm	293	400	389	288	474	679	670	463	451	664	657	459	282	374	370	272
271	435	431	270																														
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451	664	657	459																														
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17-point average PPFD 448μmol/m²/s Lowest test point PPFD 270μmol/m² /s Maximum test point PPFD 725umol/m² /s	17-point average PPFD 473μmol/m² /s Lowest test point PPFD 272μmol/m² /s Maximum test point PPFD 861 umol/m² /s																																
Compared with the test without reflector, the average PPFD is increased by 25μmol/m²/s, and the uniformity is improved by 5.6%.																																	

Multi-point irradiation PPFD data sheet and Packing list

