



SL-RGBW-60-12V LED Strip

Product Details

Code	SL-RGBW-60-12V
Warranty	5 Years
RoHS Compliance	IEC 62321:2013
CE Certification	EN 55015:2013/A1:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61547:2009

Physical Data

PCB Colour	White
PCB Width	12 mm
Thickness Including LED	2.5mm
Cut Points	50mm

Electrical Data

Voltage	12V
Power Consumption	19.2W/m
Dimmable	Yes (PWM)

Light Data

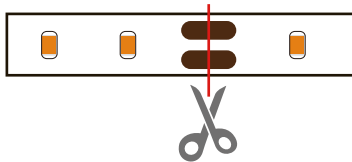
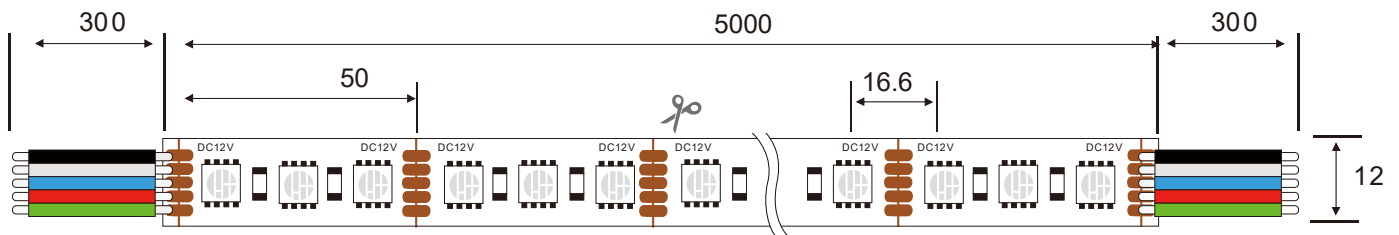
Colour Temperature	3000K	4000K	6000K	R	G	B
Lumens per Metre	480	545	542	131	356	101
LEDs per Metre	60					
Beam Angle	120°					
Colour Rendering Index(CRI)	/					
LED Type	5050					
LED Manufacturer	Sanan					

Environment

Operating Temperature	-30 ~ 60°C
Ingress Protection (IP) Rating	65

SL-RGBW-60-12V LED Strip

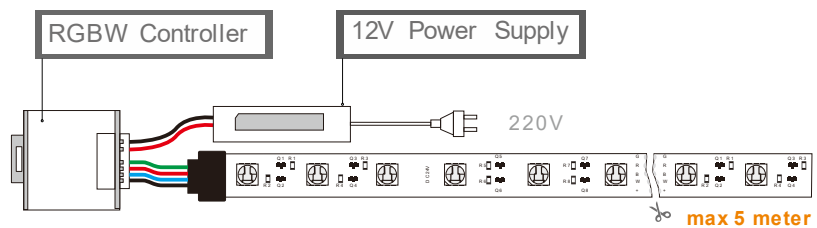
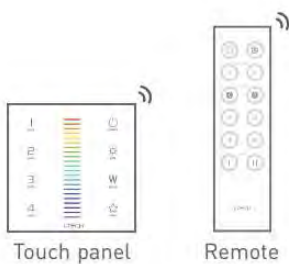
5050 60LEDs/m DC 12V Unit:mm



Cut in the
centre of the
copper or
soldered points

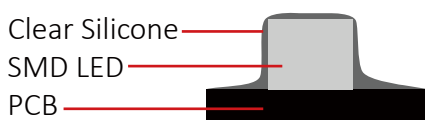


Peel off paper backing to
reveal 3m self adhesive



- 1.The voltage out from the power supply must be the same as the voltage requirement of the LED Strip
- 2.The power capacity of the power supply must be equal to or greater than the power requirement of the LED Strip
- 3.Some of our control systems allow multiple RGBW controllers to be used in one installation

IP65 Silicone Spray Coating



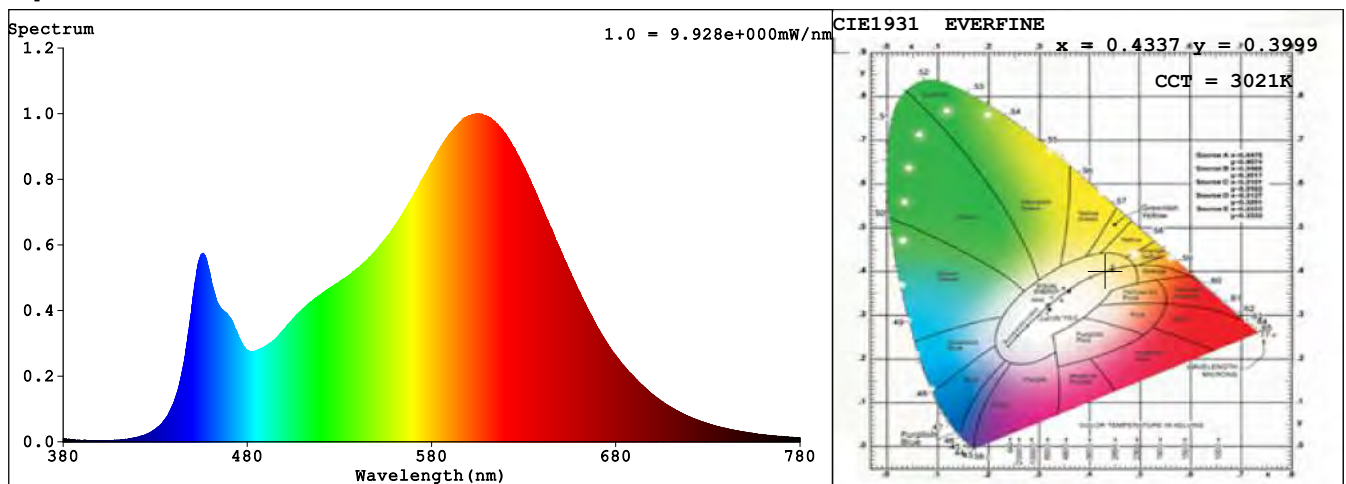
Spectrum Test Report

Sample	: SL-RGB3000K-60-12V	Date	: 2021-03-09 10:46:34
Specification	: Light on 3000K chip	Sam. Status	:
Sample No.	: 1M	Standard	:
Manufacturer	:	Instrument	: HaasSuite(EVERFINE)
Assessor	: damin	Test by	: Jin Zhi
Remark	:		
Device SN	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 49330 (75%)
Test Mode	: Fast Test	T	: 241 ms
Sensitivity	: High		

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4337$ $y = 0.3999$ / $u' = 0.2503$ $v' = 0.5192$ ($duv = -1.24e-03$)

CCT= 3021K Prcp WL: $\lambda_d = 583.2nm$ Purity=50.2%

Peak WL: $\lambda_p = 604nm$ FWHM: $= 123.2nm$ Ratio: R=23.3% G=73.5% B=3.2%

Render Index: $R_a = 84.3$ AvgR = 79.8

EEL: 0.13042 A+

R1 =84	R2 =96	R3 =92	R4 =81	R5 =85	R6 =94	R7 =81
R8 =60	R9 =15	R10=90	R11=81	R12=76	R13=88	R14=97
						R15=77

Photometric & Radiometric Parameters

Flux = 479.80 lm Eff. : 85.98 lm/W $\Phi_e = 1.4758 W$

Electrical parameters

V = 12.00 V I = 0.4651 A P = 5.580 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : SL-RGB3000K-60-12V
Specification : RGBW +3000K light on
Sample No. : 1M RGBW
Manufacturer :
Assessor : damin
Remark :
Device SN :

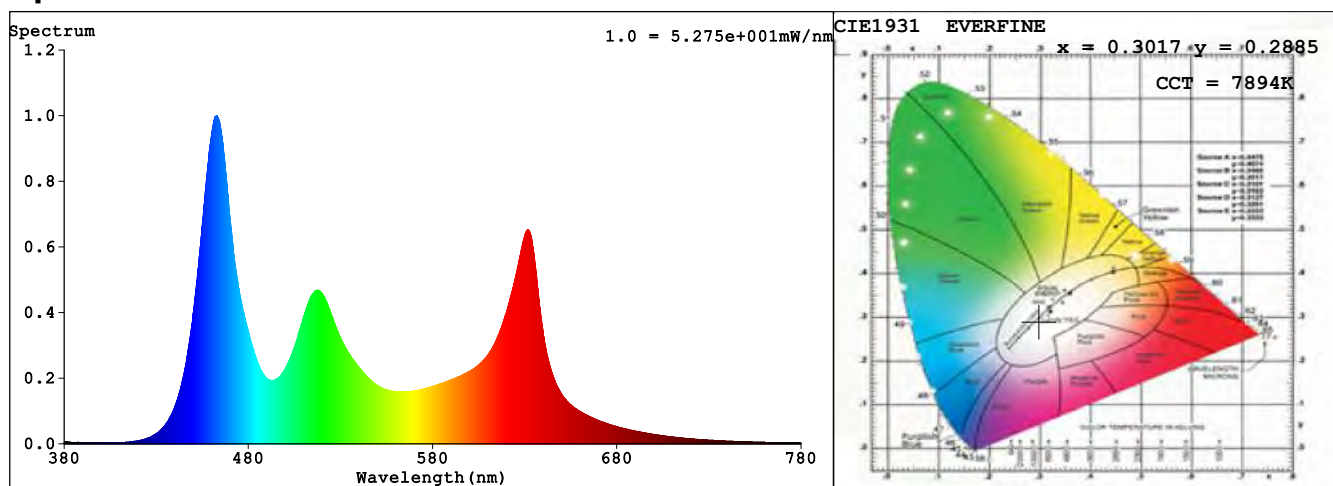
Date : 2021-03-09 10:48:44
Sam. Status :
Standard :
Instrument : HaasSuite(EVERFINE)
Test by : Jin Zhi

Test Condition

Temprature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 65.0%
IP : 55166 (84%)
T : 84 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3017$ $y = 0.2885$ / $u' = 0.2060$ $v' = 0.4432$ ($duv = -1.28e-02$)

CCT= 7894K Prcp WL: $L_d = 467.2nm$ Purity=15.6%

Peak WL: $L_p = 463nm$ FWHM: $= 21.9nm$ Ratio: R=22.2% G=68.7% B=9.1%

Render Index: $R_a = 60.5$ AvgR = 52.3

EEL: 0.23727 A

R1 =46 R2 =66 R3 =86 R4 =57 R5 =55 R6 =59 R7 =76
R8 =40 R9 =0 R10=25 R11=45 R12=54 R13=48 R14=90 R15=39

Photometric & Radiometric Parameters

Flux = 1004.1 lm Eff. : 54.90 lm/W $F_e = 4.0129 W$

Electrical parameters

V = 12.00 V I = 1.524 A P = 18.29 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : SL-RGB4000K-60-12V
Specification : Light on 4000K only
Sample No. :
Manufacturer :
Assessor : damin
Remark :
Device SN :

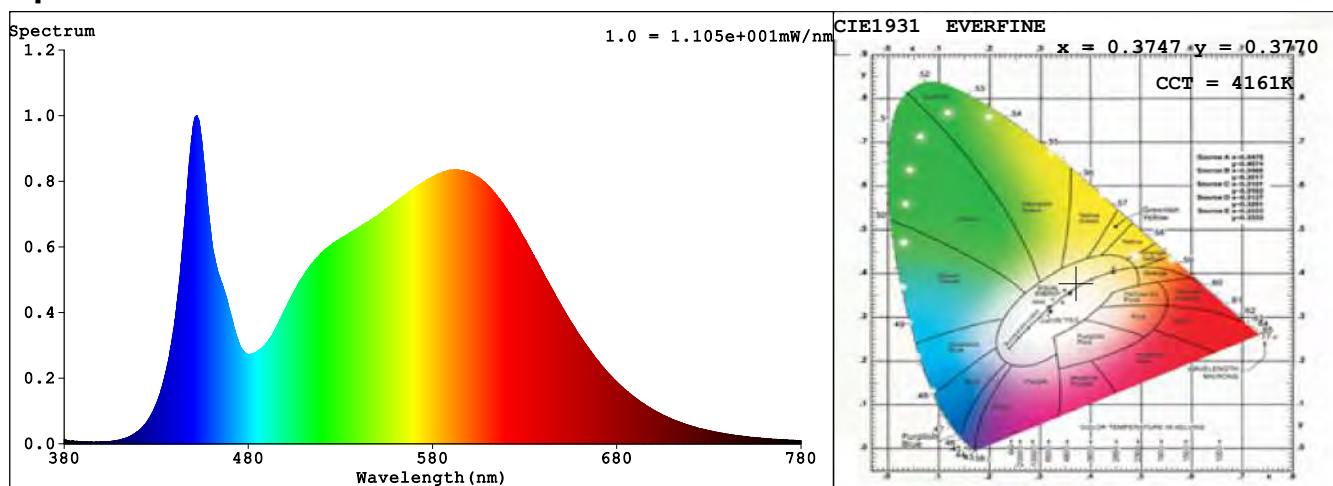
Date : 2021-03-09 10:50:15
Sam. Status :
Standard :
Instrument : HaasSuite(EVERFINE)
Test by : Jin Zhi

Test Condition

Temperature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 65.0%
IP : 52700 (80%)
T : 264 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3747$ $y = 0.3770$ / $u' = 0.2213$ $v' = 0.5009$ ($duv=1.83e-03$)

CCT= 4161K Prcp WL: $L_d=577.4nm$ Purity=25.6%

Peak WL: $L_p=452nm$ FWHM: $=22.1nm$ Ratio:R=17.7% G=78.5% B=3.8%

Render Index: $R_a = 83.0$ AvgR = 76.1

EEL: 0.11553 A+

R1 =81 R2 =89 R3 =95 R4 =81 R5 =81 R6 =85 R7 =87
R8 =65 R9 =8 R10=74 R11=80 R12=60 R13=83 R14=97 R15=75

Photometric & Radiometric Parameters

Flux = 544.87 lm Eff. : 99.83 lm/W $F_e = 1.6482 W$

Electrical parameters

V = 12.00 V I = 0.4549 A P = 5.458 W PF = 1.000 F=0.00 Hz

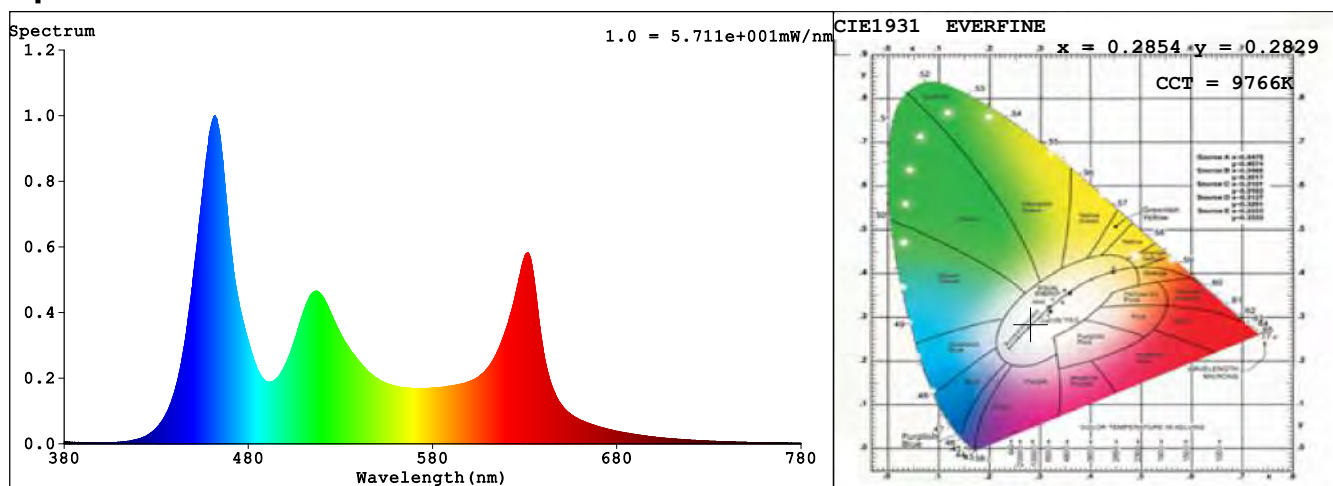
Spectrum Test Report

Sample	: SL-RGB4000K-60-12V	Date	: 2021-03-09 10:53:14
Specification	: RGB+4000K light together	Sam. Status	:
Sample No.	: 1M	Standard	:
Manufacturer	:	Instrument	: HaasSuite(EVERFINE)
Assessor	: damin	Test by	: Jin Zhi
Remark	:		
Device SN	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 58217 (89%)
Test Mode	: Fast Test	T	: 83 ms
Sensitivity	: High		

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2854$ $y = 0.2829$ / $u' = 0.1960$ $v' = 0.4372$ ($duv = -5.95e-03$)

CCT= 9766K Prcp WL: $L_d = 476.0nm$ Purity=21.1%

Peak WL: $L_p = 462nm$ FWHM: $= 22.7nm$ Ratio: R=19.5% G=71.4% B=9.1%

Render Index: $R_a = 70.5$ AvgR = 62.5

EEL: 0.22090 A

R1 =59	R2 =76	R3 =90	R4 =68	R5 =68	R6 =72	R7 =80
R8 =51	R9 =0	R10=47	R11=59	R12=64	R13=61	R14=91
						R15=51

Photometric & Radiometric Parameters

Flux = 1074.3 lm Eff. : 59.68 lm/W $F_e = 4.2383 W$

Electrical parameters

V = 12.00 V I = 1.500 A P = 18.00 W PF = 1.000 F=0.00 Hz

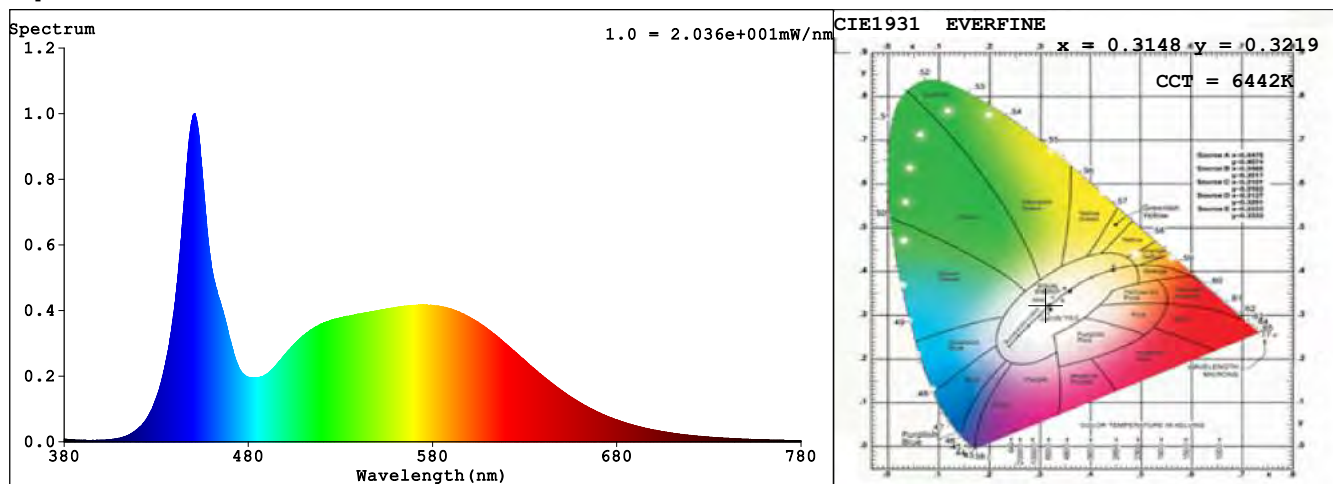
Spectrum Test Report

Sample	: SL-RGB6000K-60-12V	Date	: 2021-03-09 10:54:44
Specification	: Light 6000K only	Sam. Status	:
Sample No.	: 1M	Standard	:
Manufacturer	:	Instrument	: HaasSuite(EVERFINE)
Assessor	: damin	Test by	: Jin Zhi
Remark	:		
Device SN	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 52711 (80%)
Test Mode	: Fast Test	T	: 235 ms
Sensitivity	: High		

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3148$ $y = 0.3219$ / $u' = 0.2020$ $v' = 0.4648$ ($duv = -1.54e-03$)

CCT= 6442K Prcp WL: $L_d = 483.4nm$ Purity=7.2%

Peak WL: $L_p = 451nm$ FWHM: $= 19.4nm$ Ratio: R=13.9% G=80.7% B=5.5%

Render Index: $R_a = 83.3$ AvgR = 76.4

EEL: 0.11427 A+

R1 =83	R2 =88	R3 =90	R4 =84	R5 =83	R6 =82	R7 =87
R8 =70	R9 =10	R10=70	R11=83	R12=58	R13=84	R14=94 R15=79

Photometric & Radiometric Parameters

Flux = 542.35 lm Eff. : 100.83 lm/W $F_e = 1.7647 W$

Electrical parameters

V = 12.00 V I = 0.4483 A P = 5.379 W PF = 1.000 F=0.00 Hz

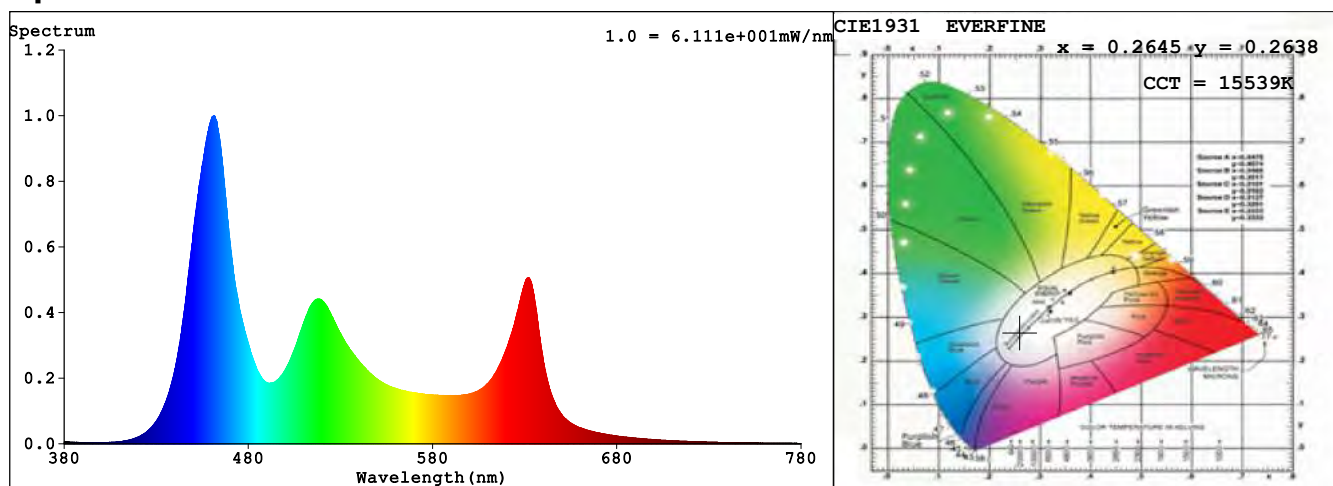
Spectrum Test Report

Sample	: SL-RGB6000K-60-12V	Date	: 2021-03-09 10:56:47
Specification	: RGB+6000K light on together	Sam. Status	:
Sample No.	: 1M	Standard	:
Manufacturer	:	Instrument	: HaasSuite(EVERFINE)
Assessor	: damin	Test by	: Jin Zhi
Remark	:		
Device SN	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 48520 (74%)
Test Mode	: Fast Test	T	: 65 ms
Sensitivity	: High		

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2645$ $y = 0.2638$ / $u' = 0.1877$ $v' = 0.4212$ ($duv = -2.39e-03$)

CCT= 15539K Prcp WL: Ld=476.8nm Purity=30.0%

Peak WL: Lp=462nm FWHM: =25.4nm Ratio:R=17.3% G=72.8% B=9.9%

Render Index: Ra = 76.5 AvgR = 68.2

EEL: 0.22229 A

R1 =66	R2 =81	R3 =92	R4 =76	R5 =76	R6 =81	R7 =82	
R8 =57	R9 =0	R10=60	R11=69	R12=65	R13=68	R14=92	R15=57

Photometric & Radiometric Parameters

Flux = 1069.6 lm Eff. : 59.26 lm/W Fe = 4.3572 W

Electrical parameters

V = 12.00 V I = 1.504 A P = 18.05 W PF = 1.000 F=0.00 Hz

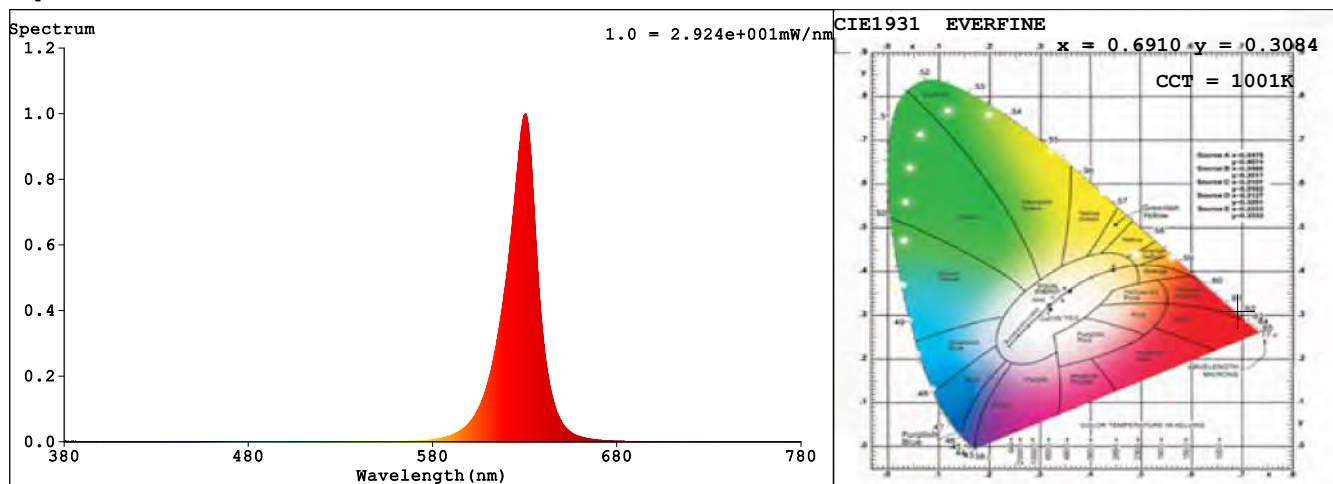
Spectrum Test Report

Sample	: SL-RGBW-60-12V-Red	Date	: 2021-03-09 10:55:13
Specification	: light Red chip only	Sam. Status	:
Sample No.	: 1M	Standard	:
Manufacturer	:	Instrument	: HaasSuite(EVERFINE)
Assessor	: damin	Test by	: Jin Zhi
Remark	:		
Device SN	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 53510 (82%)
Test Mode	: Fast Test	T	: 97 ms
Sensitivity	: High		

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6910$ $y = 0.3084$ / $u' = 0.5196$ $v' = 0.5219$ ($duv = -7.20e-02$)

CCT= 1001K Prcp WL: $L_d = 619.9nm$ Purity=99.9%

Peak WL: $L_p = 631nm$ FWHM: $= 17.3nm$ Ratio: R=94.4% G=5.6% B=0.0%

Render Index: $R_a = 28.5$ AvgR = 31.5

EEL: 0.26167 B

R1 =10	R2 =78	R3 =34	R4 =0	R5 =5	R6 =90	R7 =10
R8 =0	R9 =0	R10=72	R11=0	R12=79	R13=32	R14=62
						R15=0

Photometric & Radiometric Parameters

Flux = 131.86 lm Eff. : 30.42 lm/W Fe = 627.52 mW

Electrical parameters

V = 12.00 V I = 0.3613 A P = 4.335 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : SL-RGBW-60-12V-Green
Specification : light Green chip only
Sample No. : 1M
Manufacturer :
Assessor : damin
Remark :
Device SN :

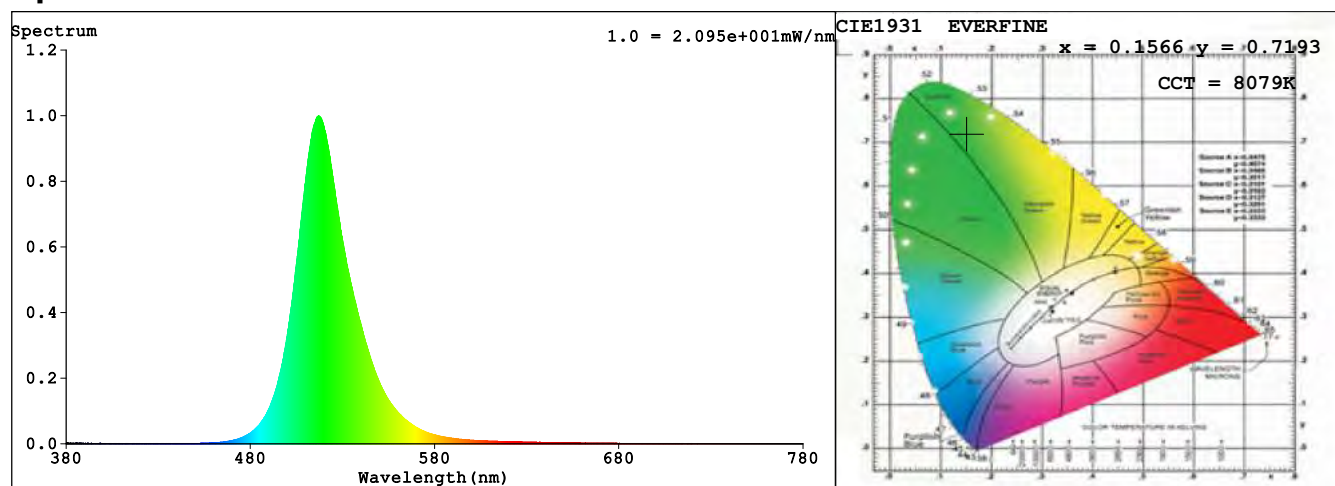
Date : 2021-03-09 10:55:36
Sam. Status :
Standard :
Instrument : HaasSuite(EVERFINE)
Test by : Jin Zhi

Test Condition

Temperature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 65.0%
IP : 53622 (82%)
T : 137 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1566$ $y = 0.7193$ / $u' = 0.0553$ $v' = 0.5720$ ($duv=1.61e-01$)
CCT= 8079K Prcp WL: Ld=524.0nm Purity=77.8%
Peak WL: Lp=517nm FWHM: =30.1nm Ratio:R=0.5% G=97.0% B=2.5%
Render Index: Ra = 0.0 AvgR = 2.5

EEL: 0.11615 A+

R1 =0 R2 =0 R3 =0 R4 =0 R5 =0 R6 =0 R7 =0
R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=38 R15=0

Photometric & Radiometric Parameters

Flux = 356.26 lm Eff. : 90.03 lm/W Fe = 768.58 mW

Electrical parameters

V = 12.00 V I = 0.3298 A P = 3.957 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : SL-RGBW-60-12V-Blue
Specification : light Blue chip only
Sample No. : 1M
Manufacturer :
Assessor : damin
Remark :
Device SN :

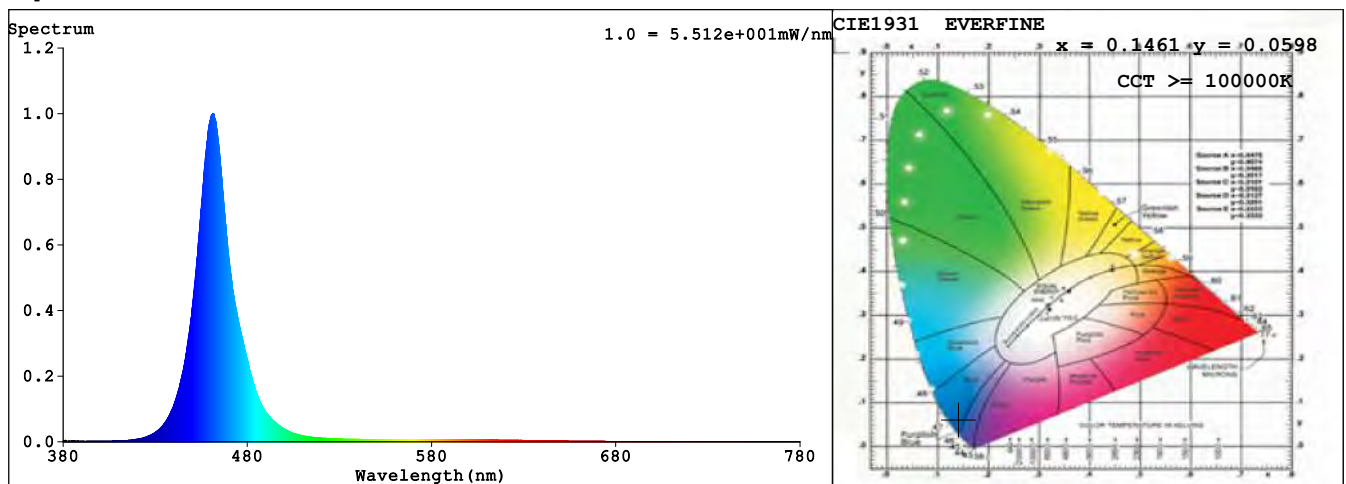
Date : 2021-03-09 10:56:00
Sam. Status :
Standard :
Instrument : HaasSuite(EVERFINE)
Test by : Jin Zhi

Test Condition

Temperature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 65.0%
IP : 45830 (70%)
T : 68 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1461$ $y = 0.0598$ / $u' = 0.1706$ $v' = 0.1571$ ($duv = -1.62e-01$)
CCT>=100000K Prcp WL: $L_d = 465.8\text{nm}$ Purity=93.9%
Peak WL: $L_p = 462\text{nm}$ FWHM: $= 19.6\text{nm}$ Ratio: R=3.4% G=26.5% B=70.1%
Render Index: $R_a = 9.4$ AvgR = 8.3

EEL: 0.35232 B

R1 =34 R2 =0 R3 =0 R4 =0 R5 =41 R6 =0 R7 =0
R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=15 R14=0 R15=34

Photometric & Radiometric Parameters

Flux = 101.06 lm Eff. : 20.79 lm/W Fe = 1.4322 W

Electrical parameters

V = 12.00 V I = 0.4052 A P = 4.862 W PF = 1.000 F=0.00 Hz