



SL-RGBW-60-24V LED Strip

Product Details

Code	SL-RGBW-60-24V
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	12mm
Thickness Including LED	2.5mm
Cut Points	100mm

Electrical Data

Voltage	24V
Power Consumption	19.2W/m
Dimmable	Yes (PWM)

Light Data

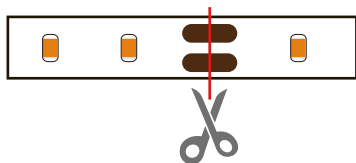
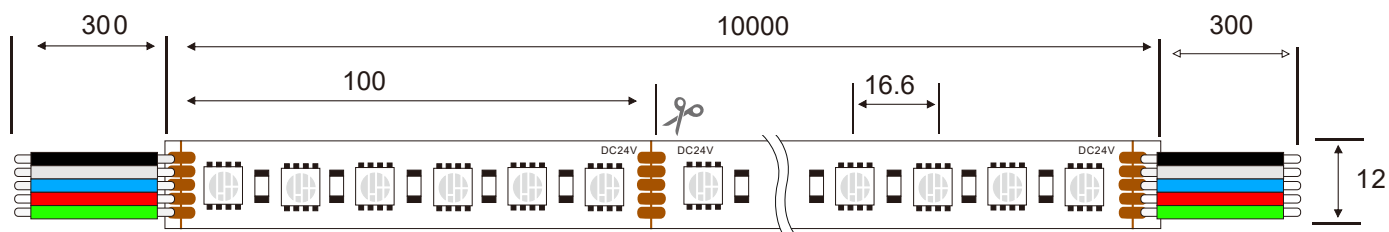
Colour Temperature	3000k	4000k	6000k	R	G	B
Lumens per Metre	454	470	447	118	325	90
LEDs per Metre	60					
Beam Angle	120°					
Colour Rendering Index(CRI)	>80					
LED Type	5050					
LED Manufacturer	Sanan					

Environment

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

SL-RGBW-60-24V LED Strip

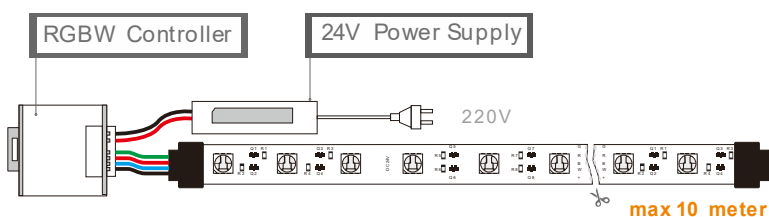
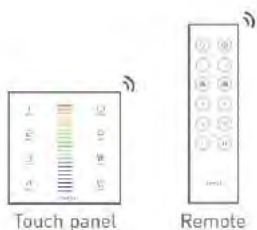
5050 60LEDs/m DC 24V Unit:mm



Cut in the centre of the copper or soldered points

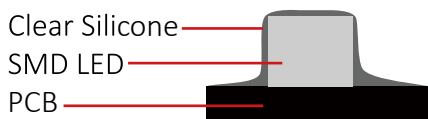


Peel off paper backing to reveal 3m self adhesive



- 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 : 1m LED strip
 Specification : SL-RGBW-60-24V-3000K (3000K)
 Sample No. :
 LED type : Sanan RGBW

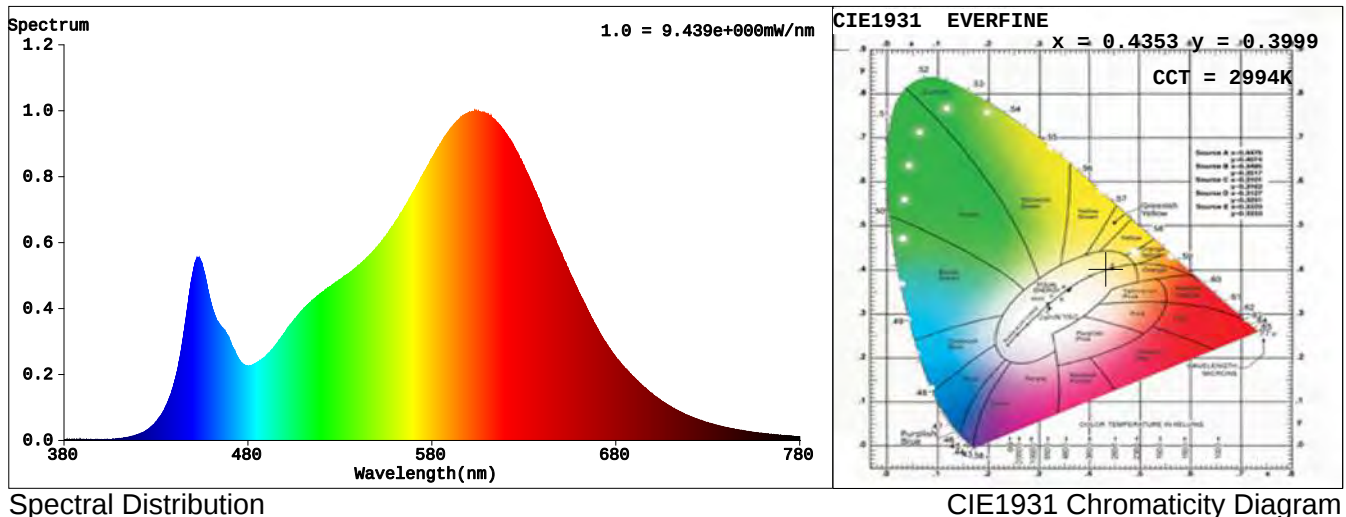
Date : 2019-03-21 14:38:55
 Sam. Status : 3000K
 Instrument : HaasSuite(EVERFINE)
 Test by : DAMIN
 Assessor : damin

Test Condition

Temperature : 25.3Deg
 WL Range : 380nm-780nm
 Test Mode : Accuracy Test

RH : 65.0%
 IP : 49396 (75%)
 T : 223 ms
 Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4353$ $y = 0.3999$ / $u' = 0.2513$ $v' = 0.5195$ ($duv = -1.46e-03$)

CCT= 2994K Prcp WL: $L_d = 583.4\text{nm}$ Purity=50.7%

Peak WL: $L_p = 603\text{nm}$ FWHM: $=122.6\text{nm}$ Ratio: R=23.2% G=73.9% B=2.9%

Render Index: $R_a = 83.4$

R1 =83	R2 =93	R3 =94	R4 =81	R5 =83	R6 =92	R7 =81
R8 =59	R9 =10	R10=85	R11=81	R12=75	R13=85	R14=98 R15=75

Photometric & Radiometric Parameters

Flux = 454.05 lm Eff. : 85.53 lm/W $F_e = 1.3830\text{ W}$

Electrical parameters

V = 24.00 V I = 0.2212 A P = 5.308 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : 1m LED strip
Specification : SL-RGBW-60-24V-3000K(RGB3000K)
Sample No. :
LED type : Sanan RGBW

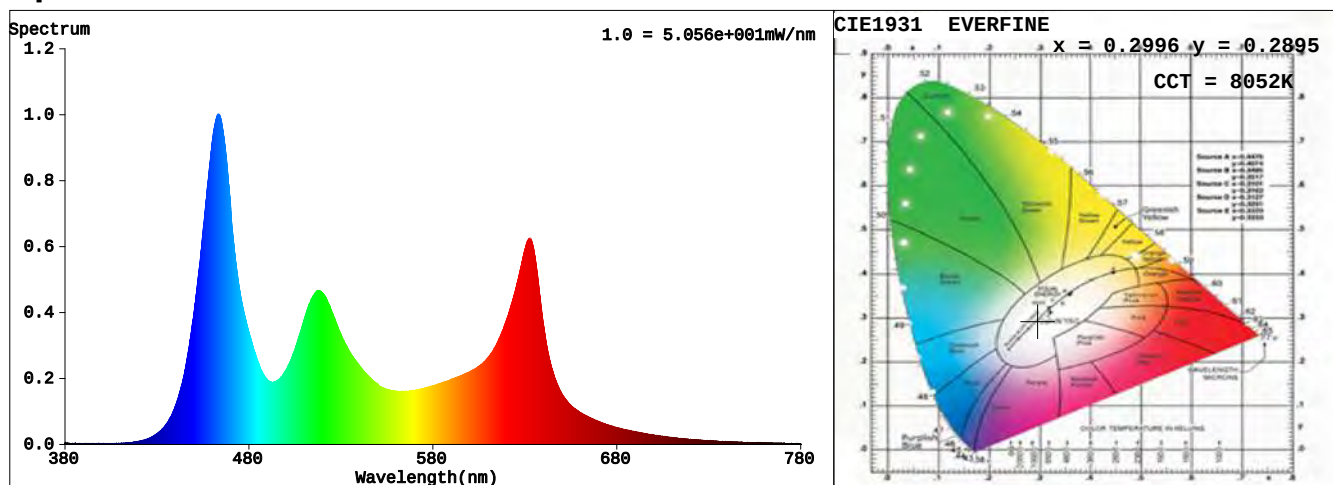
Date : 2019-03-21 14:41:30
Sam. Status : Red,Green,Blue,3000K
Instrument : HaasSuite(EVERFINE)
Test by : DAMIN
Assessor : damin

Test Condition

Temperature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Accuracy Test

RH : 65.0%
IP : 51780 (79%)
T : 71 ms
Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2996$ $y = 0.2895$ / $u' = 0.2040$ $v' = 0.4435$ ($duv = -1.10e-02$)

CCT= 8052K Prcp WL: $L_d = 470.5\text{nm}$ Purity=16.0%

Peak WL: $L_p = 463\text{nm}$ FWHM: $= 21.9\text{nm}$ Ratio: R=21.5% G=69.4% B=9.1%

Render Index: $R_a = 62.9$

R1 =49 R2 =68 R3 =87 R4 =60 R5 =58 R6 =62 R7 =77

R8 =43 R9 =68 R10=30 R11=49 R12=57 R13=51 R14=90 R15=42

Photometric & Radiometric Parameters

Flux = 962.22 lm Eff. : 51.30 lm/W $F_e = 3.8260\text{ W}$

Electrical parameters

V = 24.00 V I = 0.7816 A P = 18.76 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : 1m LED strip
Specification : SL-RGBW-60-24V-4000K (4000K)
Sample No. :
LED type : Sanan RGBW

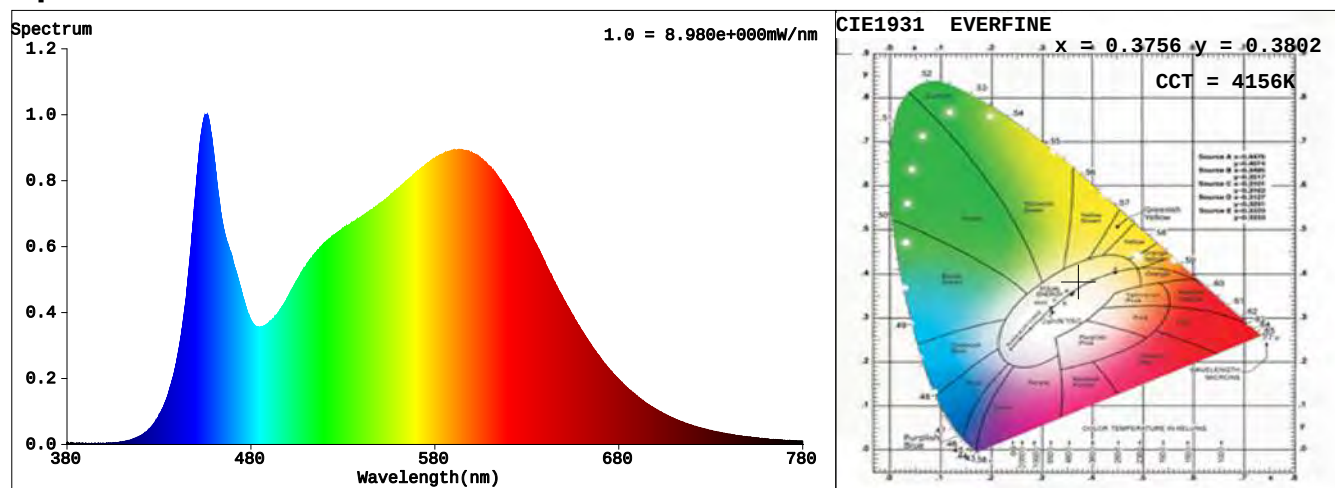
Date : 2019-03-21 14:29:48
Sam. Status : 4000K
Instrument : HaasSuite(EVERFINE)
Test by : DAMIN
Assessor : damin

Test Condition

Temperature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Accuracy Test

RH : 65.0%
IP : 50472 (77%)
T : 254 ms
Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3756$ $y = 0.3802$ / $u' = 0.2206$ $v' = 0.5024$ ($duv=3.04e-03$)

CCT= 4156K Prcp WL: $L_d=576.8\text{nm}$ Purity=26.8%

Peak WL: $L_p=456\text{nm}$ FWHM: $=27.3\text{nm}$ Ratio:R=17.8% G=78.0% B=4.2%

Render Index: $R_a = 83.4$

R1 =82	R2 =92	R3 =96	R4 =80	R5 =81	R6 =88	R7 =85
R8 =64	R9 =8	R10=80	R11=78	R12=60	R13=85	R14=98
						R15=75

Photometric & Radiometric Parameters

Flux = 470.68 lm Eff. : 84.00 lm/W $F_e = 1.4203 \text{ W}$

Electrical parameters

V = 24.00 V I = 0.2335 A P = 5.604 W PF = 1.000 F=0.00 Hz

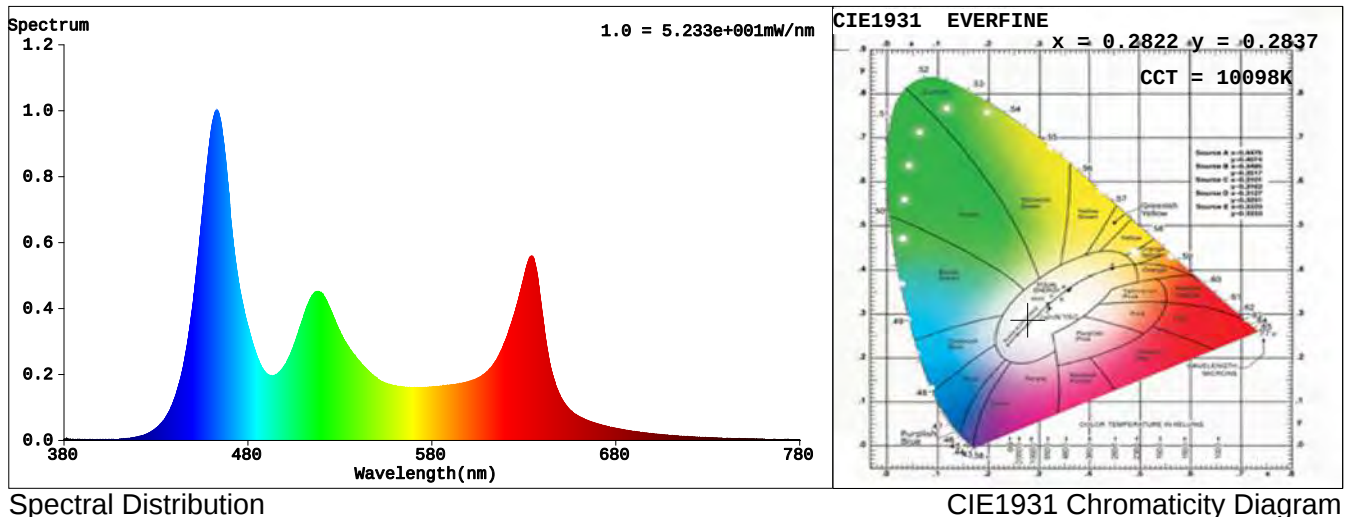
Spectrum Test Report

Sample	: 1m LED strip	Date	: 2019-03-21 14:33:03
Specification	: SL-RGBW-60-24V-4000K (RGB4000K)	Sam. Status	: Red,Green,Blue,4000K
Sample No.	:	Instrument	: HaasSuite(EVERFINE)
LED type	: Sanan RGBW	Test by	: DAMIN
		Assessor	: damin

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 49524 (76%)
Test Mode	: Accuracy Test	T	: 66 ms
		Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2822$ $y = 0.2837$ / $u' = 0.1933$ $v' = 0.4372$ ($duv = -3.50e-03$)
 CCT= 10098K Prcp WL: Ld=477.5nm Purity=22.0%
 Peak WL: Lp=463nm FWHM: =22.5nm Ratio:R=19.0% G=71.2% B=9.8%

Render Index: Ra = 69.4

R1 =59	R2 =74	R3 =88	R4 =69	R5 =69	R6 =71	R7 =77
R8 =48	R9 =-59	R10=42	R11=64	R12=63	R13=60	R14=91 R15=50

Photometric & Radiometric Parameters

Flux = 945.17 lm Eff. : 48.55 lm/W Fe = 3.7730 W

Electrical parameters

V = 24.00 V I = 0.8113 A P = 19.47 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : 1m LED strip
 Specification : SL-RGBW-60-24V-6000K (6000k)
 Sample No. :
 LED type : Sanan RGBW

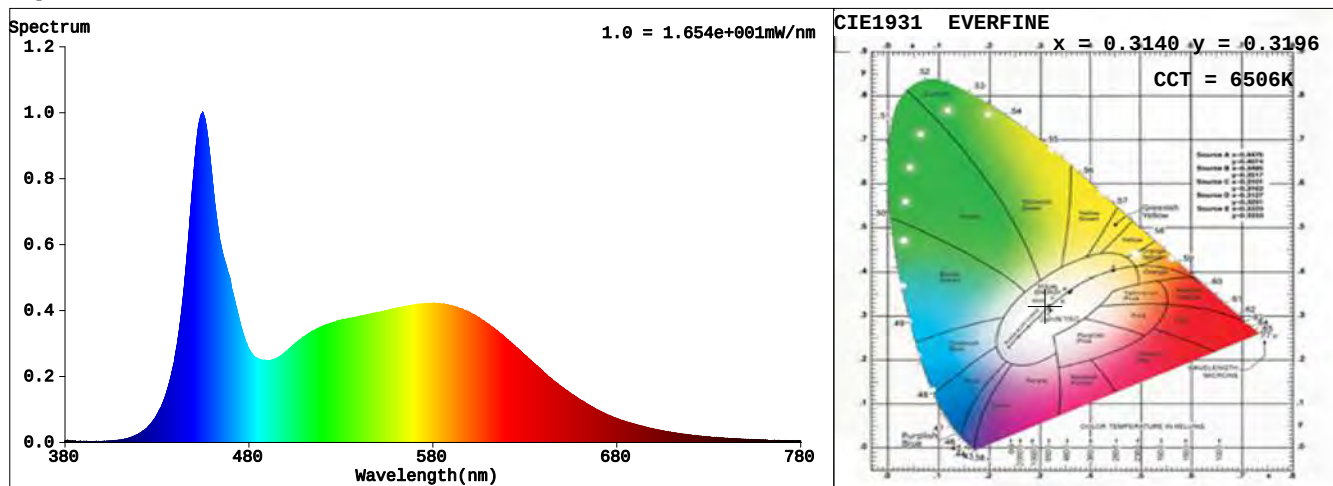
Date : 2019-03-21 14:34:35
 Sam. Status : 6000K
 Instrument : HaasSuite(EVERFINE)
 Test by : DAMIN
 Assessor : damin

Test Condition

Temperature : 25.3Deg
 WL Range : 380nm-780nm
 Test Mode : Accuracy Test

RH : 65.0%
 IP : 48296 (74%)
 T : 219 ms
 Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3140$ $y = 0.3196$ / $u' = 0.2023$ $v' = 0.4634$ ($duv = -2.39e-03$)

CCT= 6506K Prcp WL: $L_d = 481.9\text{nm}$ Purity=7.7%

Peak WL: $L_p = 455\text{nm}$ FWHM: $=24.1\text{nm}$ Ratio: R=14.4% G=79.1% B=6.5%

Render Index: $R_a = 86.2$

R1 =87	R2 =94	R3 =94	R4 =83	R5 =86	R6 =87	R7 =86
R8 =72	R9 =24	R10=84	R11=83	R12=60	R13=90	R14=98 R15=84

Photometric & Radiometric Parameters

Flux = 447.18 lm Eff. : 81.44 lm/W $F_e = 1.4839\text{ W}$

Electrical parameters

V = 24.00 V I = 0.2288 A P = 5.491 W PF = 1.000 F=0.00 Hz

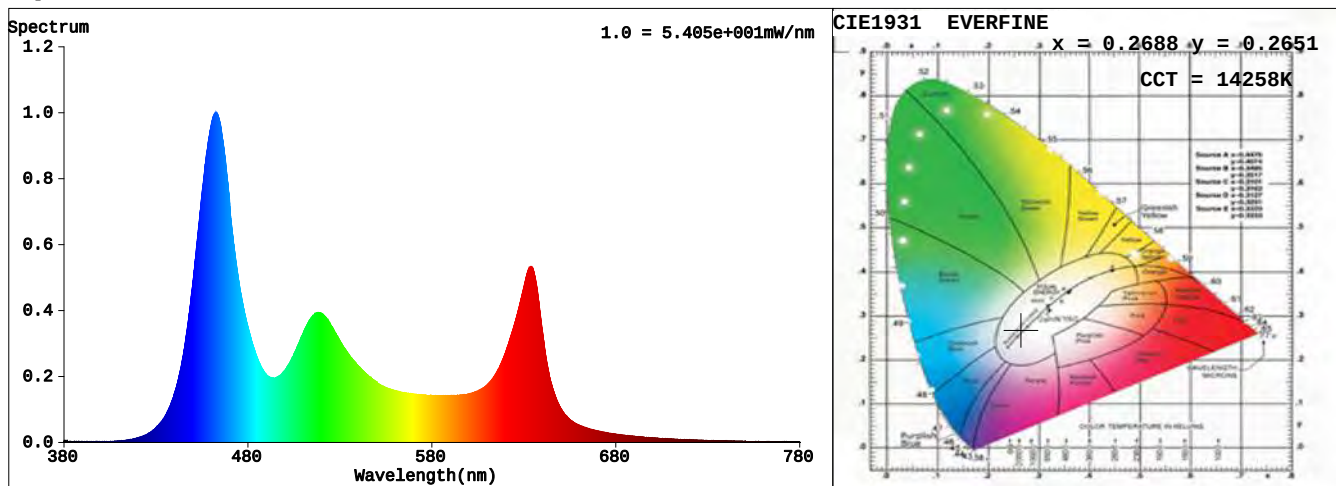
Spectrum Test Report

Sample	: 1m LED strip	Date	: 2019-03-21 14:37:34
Specification	: SL-RGBW-60-24V-6000K (RGB+6000K)	Sam. Status	: Red,Green,Blue,6000K
Sample No.	:	Instrument	: HaasSuite(EVERFINE)
LED type	: Sanan RGBW	Test by	: DAMIN
		Assessor	: damin

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 47780 (73%)
Test Mode	: Accuracy Test	T	: 62 ms
		Sensitivity	: High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2688$ $y = 0.2651$ / $u' = 0.1905$ $v' = 0.4227$ ($duv = -4.70e-03$)

CCT= 14258K Prcp WL: Ld=475.9nm Purity=28.5%

Peak WL: Lp=463nm FWHM: =24.5nm Ratio:R=18.3% G=70.8% B=10.9%

Render Index: Ra = 69.4

R1 =59	R2 =73	R3 =89	R4 =70	R5 =69	R6 =73	R7 =76
R8 =47	R9 =74	R10=42	R11=67	R12=62	R13=60	R14=91
						R15=47

Photometric & Radiometric Parameters

Flux = 897.63 lm Eff. : 46.93 lm/W Fe = 3.7261 W

Electrical parameters

V = 24.00 V I = 0.7970 A P = 19.13 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : 1m LED strip
Specification : SL-RGBW-60-24V (Red)
Sample No. :
LED type : Sanan RGBW

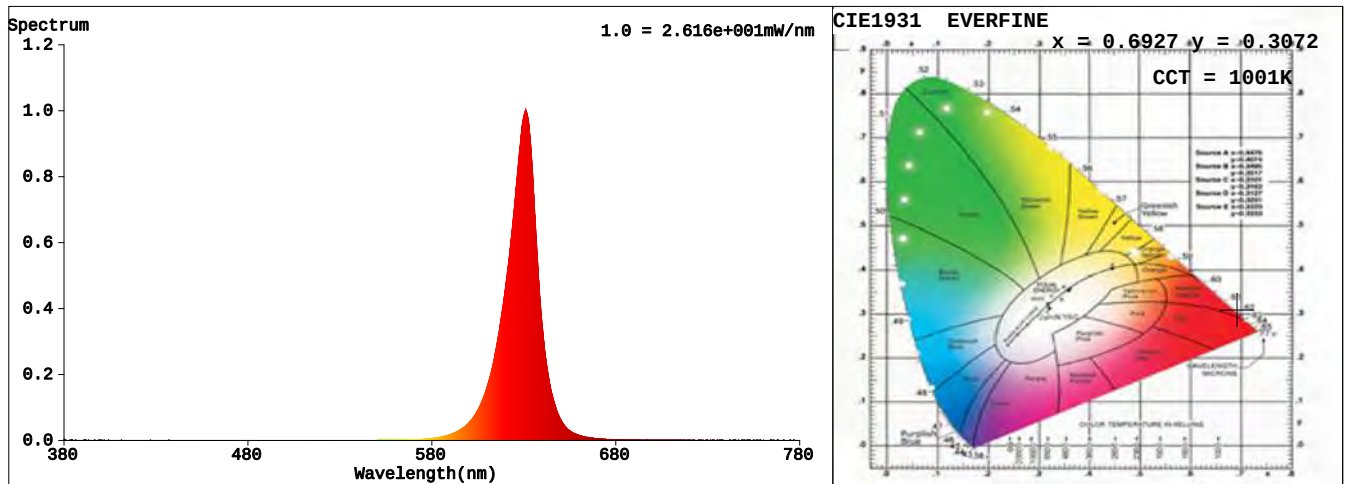
Date : 2019-03-21 14:39:33
Sam. Status : Red
Instrument : HaasSuite(EVERFINE)
Test by : DAMIN
Assessor : damin

Test Condition

Temperature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Accuracy Test

RH : 65.0%
IP : 50695 (77%)
T : 92 ms
Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6927$ $y = 0.3072$ / $u' = 0.5228$ $v' = 0.5215$ ($duv = -7.52e-02$)

CCT= 1001K Prcp WL: $L_d = 620.6\text{nm}$ Purity=100.0%

Peak WL: $L_p = 631\text{nm}$ FWHM: $= 17.1\text{nm}$ Ratio: R=94.8% G=5.2% B=0.0%

Render Index: $R_a = 17.0$

$R_1 = 9$ $R_2 = 77$ $R_3 = 34$ $R_4 = -24$ $R_5 = 3$ $R_6 = 88$ $R_7 = 10$

$R_8 = -62$ $R_9 = -210$ $R_{10} = 70$ $R_{11} = -14$ $R_{12} = 79$ $R_{13} = 30$ $R_{14} = 62$ $R_{15} = -29$

Photometric & Radiometric Parameters

Flux = 113.63 lm Eff. : 27.95 lm/W $F_e = 553.20\text{ mW}$

Electrical parameters

V = 24.00 V I = 0.1694 A P = 4.065 W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : 1m LED strip
Specification : SL-RGBW-60-24V (Green)
Sample No. :
LED type : Sanan RGBW

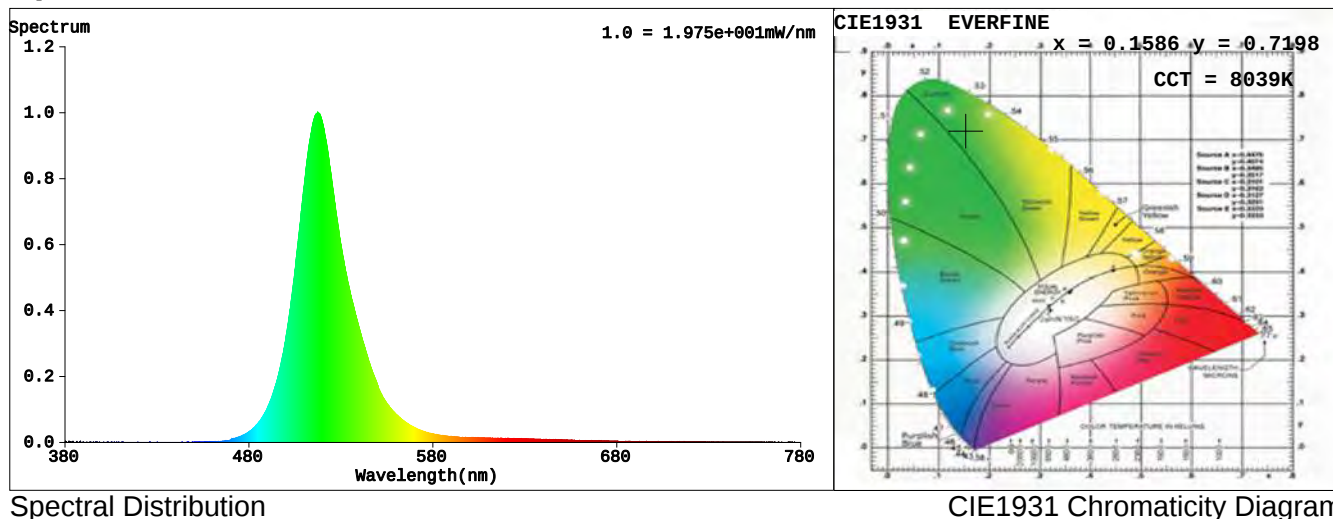
Date : 2019-03-21 14:40:03
Sam. Status : Green
Instrument : HaasSuite(EVERFINE)
Test by : DAMIN
Assessor : damin

Test Condition

Temperature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Accuracy Test

RH : 65.0%
IP : 48873 (75%)
T : 116 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1586$ $y = 0.7198$ / $u' = 0.0560$ $v' = 0.5723$ ($duv=1.60e-01$)

CCT= 8039K Prcp WL: $L_d=524.5nm$ Purity=78.2%

Peak WL: $L_p=518nm$ FWHM: $=28.9nm$ Ratio:R=0.9% G=96.7% B=2.5%

Render Index: $R_a = -24.3$

$R_1 = -30$ $R_2 = -9$ $R_3 = -28$ $R_4 = -63$ $R_5 = -6$ $R_6 = -18$ $R_7 = -11$

$R_8 = -30$ $R_9 = -326$ $R_{10} = -109$ $R_{11} = -91$ $R_{12} = -33$ $R_{13} = -38$ $R_{14} = 36$ $R_{15} = -28$

Photometric & Radiometric Parameters

Flux = 325.56 lm Eff. : 79.94 lm/W $P_e = 707.50$ mW

Electrical parameters

$V = 24.00$ V $I = 0.1697$ A $P = 4.072$ W PF = 1.000 F=0.00 Hz

Spectrum Test Report

Sample : 1m LED strip
Specification : SL-RGBW-60-24V (Blue)
Sample No. :
LED type : Sanan RGBW

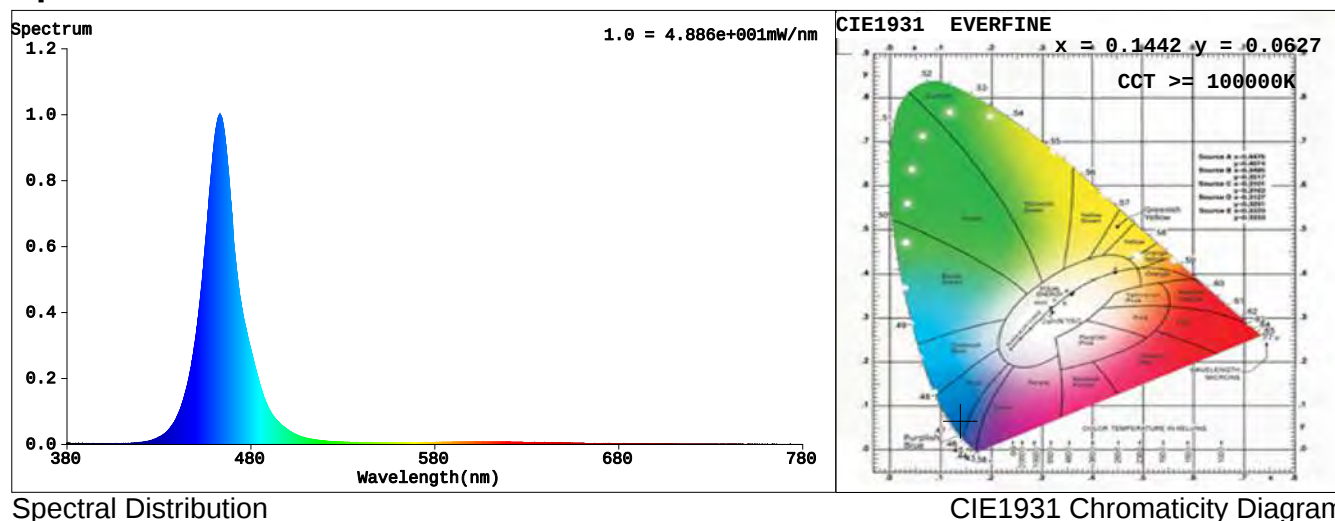
Date : 2019-03-21 14:40:34
Sam. Status : Blue
Instrument : HaasSuite(EVERFINE)
Test by : DAMIN
Assessor : damin

Test Condition

Temperature : 25.3Deg
WL Range : 380nm-780nm
Test Mode : Accuracy Test

RH : 65.0%
IP : 49765 (76%)
T : 71 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1442$ $y = 0.0627$ / $u' = 0.1665$ $v' = 0.1629$ ($duv=1.58e-01$)

CCT $\geq$ 1000000K Prcp WL: $L_d=466.7nm$ Purity=93.9%

Peak WL: $L_p=463nm$ FWHM: $\approx 19.3nm$ Ratio: R=4.3% G=22.6% B=73.2%

Render Index: $R_a = -32.1$

$R_1 = 38$ $R_2 = -27$ $R_3 = -143$ $R_4 = -68$ $R_5 = 44$ $R_6 = -29$ $R_7 = -45$

$R_8 = -27$ $R_9 = -108$ $R_{10} = -211$ $R_{11} = -86$ $R_{12} = -72$ $R_{13} = 13$ $R_{14} = -29$ $R_{15} = 37$

Photometric & Radiometric Parameters

Flux = 90.601 lm Eff. : 17.71 lm/W $F_e = 1.2588 W$

Electrical parameters

V = 24.00 V I = 0.2132 A P = 5.116 W PF = 1.000 F=0.00 Hz