



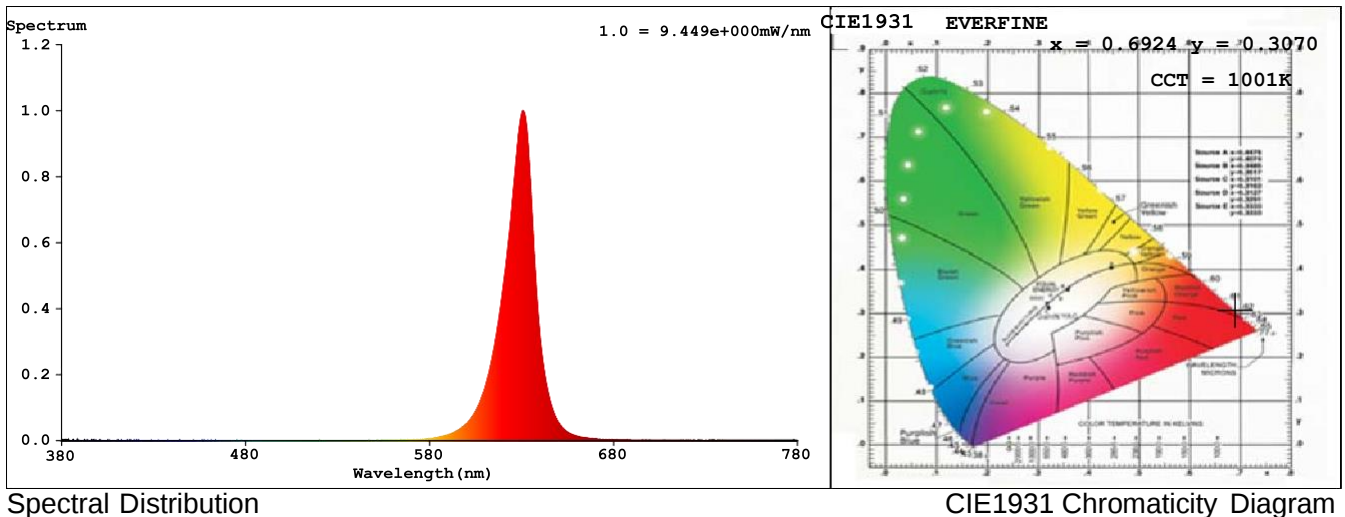
Spectrum Test Report

Sample	: E05N210DRGB	Date	: 2019-05-13 16:04:59
Specification	: 5050 30LED 10MM 5V 7.2W RGB WS2812 IP20 1M		
Sample No.	: LD19040302#45	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Velleman
Assessor	:		
Remark	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 53956 (82%)
Test Mode	: Fast Test	T	: 437 ms
		Sensitivity	: High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6924$ $y = 0.3070$ / $u' = 0.5227$ $v' = 0.5214$ ($duv = -7.51e-02$)

CCT= 1001K Prcp WL: Ld=620.7nm Purity=99.9%

Peak WL: Lp=631nm FWHM: =16.7nm Ratio:R=95.0% G=5.0% B=0.0%

Render Index: Ra = 27.7 CRI = 33.2 AvgR = 30.9 TM30:Rf=10 Rg=-1

R1 =9 R2 =78 R3 =33 R4 =0 R5 =4 R6 =90 R7 =9

R8 =0 R9 =0 R10=72 R11=0 R12=79 R13=31 R14=61 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 40.199 lm Eff. : 15.65 lm/W Fe = 194.43 mW

Flux of emitted photons(umol/s):1.0182 Fluo. and blue light ratio:4448 Fluorescent eff.:75.70

Electrical parameters

V = 4.999 V I = 0.5137 A P = 2.568 W PF = 1.000 F=0.00 Hz



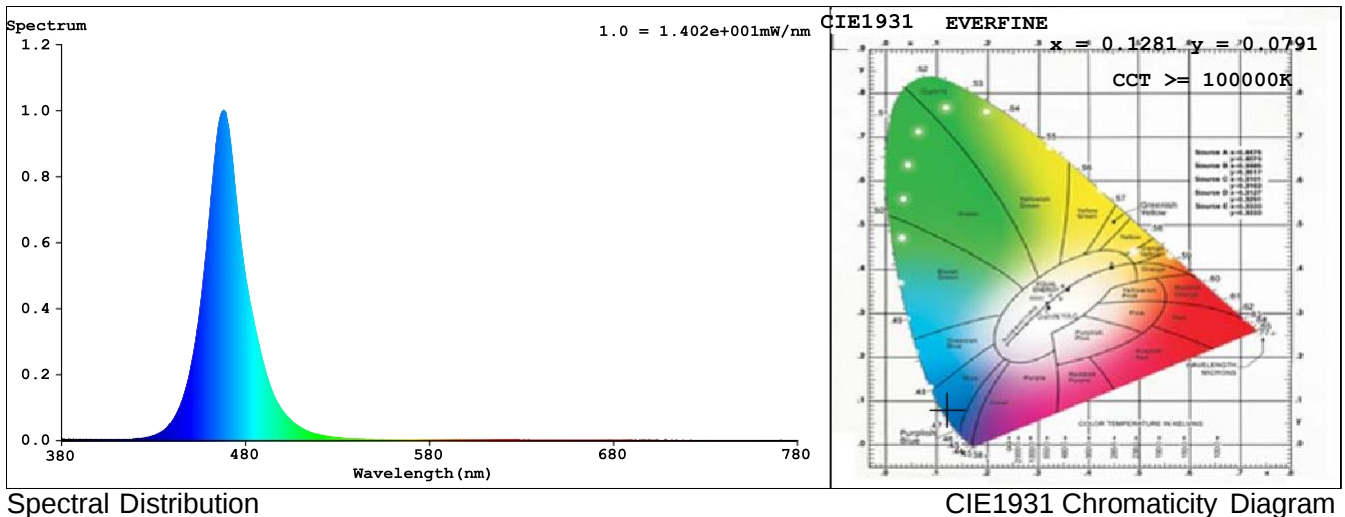
Spectrum Test Report

Sample	: E05N210DRGB	Date	: 2019-05-13 16:06:11
Specification	: 5050 30LED 10MM 5V 7.2W RGB WS2812 IP20 1M		
Sample No.	: LD19040302#45	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Velleman
Assessor	:		
Remark	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 54155 (83%)
Test Mode	: Fast Test	T	: 437 ms
		Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1281$ $y = 0.0791$ / $u' = 0.1387$ $v' = 0.1927$ ($duv=1.44e-01$)

CCT $\geq$ 100000K Prcp WL: $L_d=472.0nm$ Purity=95.7%

Peak WL: $L_p=468nm$ FWHM: $\approx 22.4nm$ Ratio: R=0.5% G=20.0% B=79.6%

Render Index: $R_a = 0.7$ CRI = 0.4 AvgR = 0.4 TM30:Rf=0 Rg=-52

R1 =0 R2 =0 R3 =0 R4 =0 R5 =5 R6 =0 R7 =0

R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=1

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 32.044 lm Eff. : 12.55 lm/W $F_e = 392.80$ mW

Flux of emitted photons($\mu mol/s$):1.5452 Fluo. and blue light ratio:0.2851 Fluorescent eff.:34.19

Electrical parameters

V = 4.999 V I = 0.5107 A P = 2.553 W PF = 1.000 F=0.00 Hz



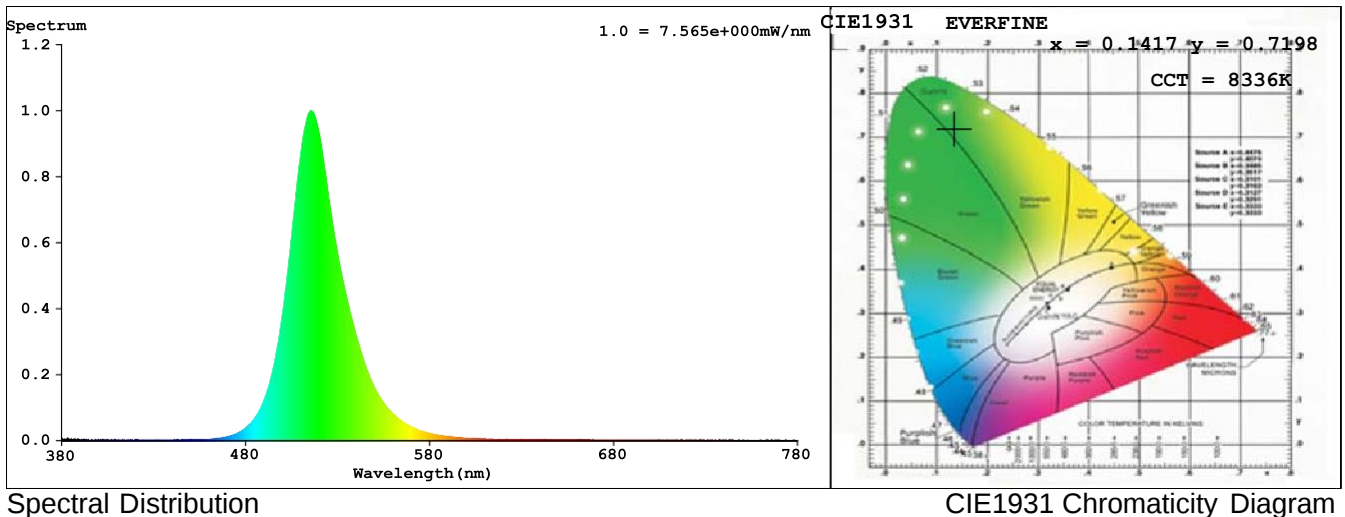
Spectrum Test Report

Sample	: E05N210DRGB	Date	: 2019-05-13 16:06:34
Specification	: 5050 30LED 10MM 5V 7.2W RGB WS2812 IP20 1M		
Sample No.	: LD19040302#45	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Velleman
Assessor	:		
Remark	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 53088 (81%)
Test Mode	: Fast Test	T	: 550 ms
		Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1417$ $y = 0.7198$ / $u' = 0.0499$ $v' = 0.5706$ ($duv=1.65e-01$)

CCT= 8336K Prpc WL: Ld=521.4nm Purity=77.2%

Peak WL: Lp=516nm FWHM: =29.5nm Ratio:R=0.2% G=96.8% B=3.0%

Render Index: Ra = 0.0 CRI = 2.6 AvgR = 2.4 TM30:Rf=0 Rg=7

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=36 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 121.48 lm Eff. : 47.65 lm/W Fe = 269.24 mW

Flux of emitted photons(umol/s):1.1709 Fluo. and blue light ratio:106.3 Fluorescent eff.:104.6

Electrical parameters

V = 4.999 V I = 0.5100 A P = 2.550 W PF = 1.000 F=0.00 Hz



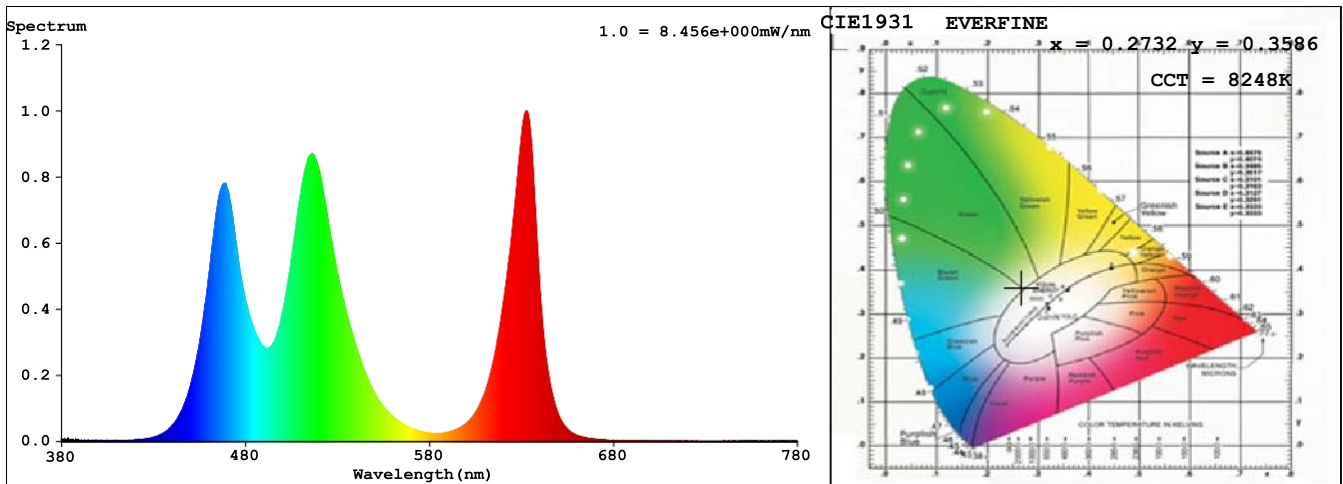
Spectrum Test Report

Sample	: E05N210DRGB	Date	: 2019-05-13 16:06:34
Specification	: 5050 30LED 10MM 5V 7.2W RGB WS2812 IP20 1M		
Sample No.	: LD19040302#45	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:Velleman
Assessor	:		
Remark	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 47085 (72%)
Test Mode	: Fast Test	T	: 427 ms
		Sensitivity	: High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2732$ $y = 0.3586$ / $u' = 0.1617$ $v' = 0.4776$ ($duv=3.70e-02$)

CCT= 8248K Prcp WL: $L_d=497.1nm$ Purity=18.9%

Peak WL: $L_p=633nm$ FWHM: $\approx 17.4nm$ Ratio: R=20.1% G=70.7% B=9.2%

Render Index: $R_a = 55.1$ CRI = 51.8 AvgR = 51.0 TM30: $R_f=43$ $R_g=98$

R1 =51 R2 =69 R3 =68 R4 =62 R5 =67 R6 =57 R7 =53

R8 =12 R9 =0 R10=23 R11=55 R12=72 R13=53 R14=80 R15=40

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 169.17 lm Eff. : 29.29 lm/W $F_e = 626.52$ mW

Flux of emitted photons($\mu mol/s$):2.8113 Fluo. and blue light ratio:0.4122 Fluorescent eff.:31.67

Electrical parameters

V = 4.999 V I = 1.155 A P = 5.775 W PF = 1.000 F=0.00 Hz