



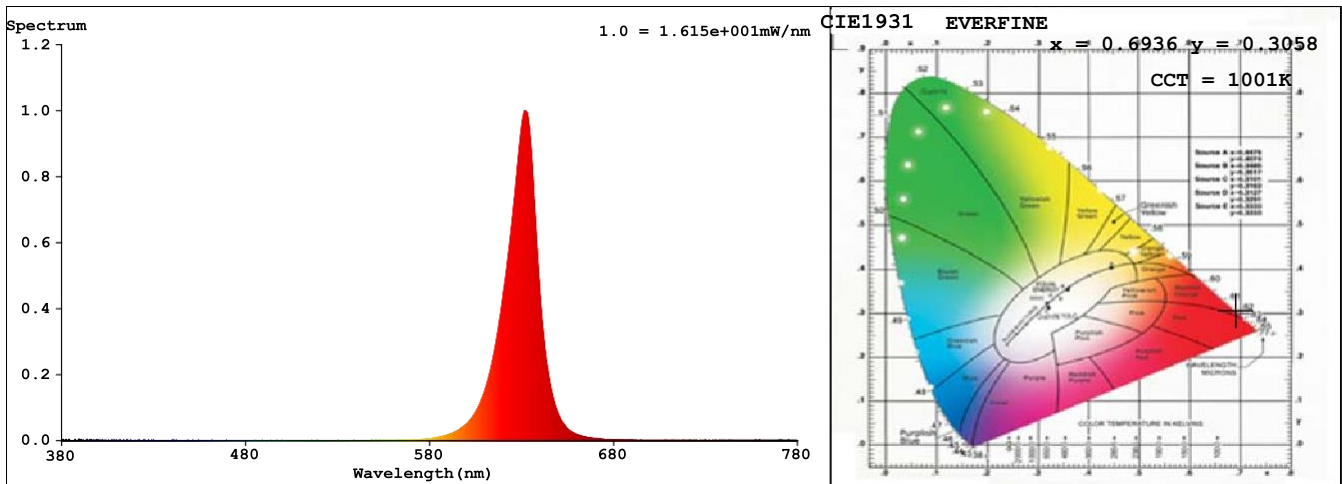
Spectrum Test Report

Sample : E05N230DRGB Date : 2019-05-13 16:10:36
 Specification : 5050 60LED 10MM 5V 14.4W RGB WS2812 IP20 1M
 Sample No. : LD19040302#46 Instrument : HaasSuite(EVERFINE)
 Manufacturer : Test by : Velleman
 Assessor :
 Remark :

Test Condition

Temperature : 25.3Deg RH : 65.0%
 WL Range : 380nm-780nm IP : 44869 (68%)
 Test Mode : Fast Test T : 213 ms
 Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6936$ $y = 0.3058$ / $u' = 0.5252$ $v' = 0.5210$ ($duv = -7.77e-02$)

CCT= 1001K Prcp WL: $L_d = 621.3 \text{ nm}$ Purity=99.9%

Peak WL: $L_p = 632 \text{ nm}$ FWHM: $= 17.8 \text{ nm}$ Ratio: R=94.9% G=5.0% B=0.0%

Render Index: $R_a = 28.4$ CRI = 33.7 AvgR = 31.4 TM30:Rf=16 Rg=-1

R1 =10 R2 =78 R3 =34 R4 =0 R5 =5 R6 =89 R7 =11

R8 =0 R9 =0 R10=72 R11=0 R12=79 R13=31 R14=62 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 69.705 lm Eff. : 13.60 lm/W Fe = 351.10 mW

Flux of emitted photons($\mu\text{mol/s}$):1.8421 Flu. and blue light ratio:2731 Fluorescent eff.:68.48

Electrical parameters

V = 4.999 V I = 1.025 A P = 5.125 W PF = 1.000 F=0.00 Hz



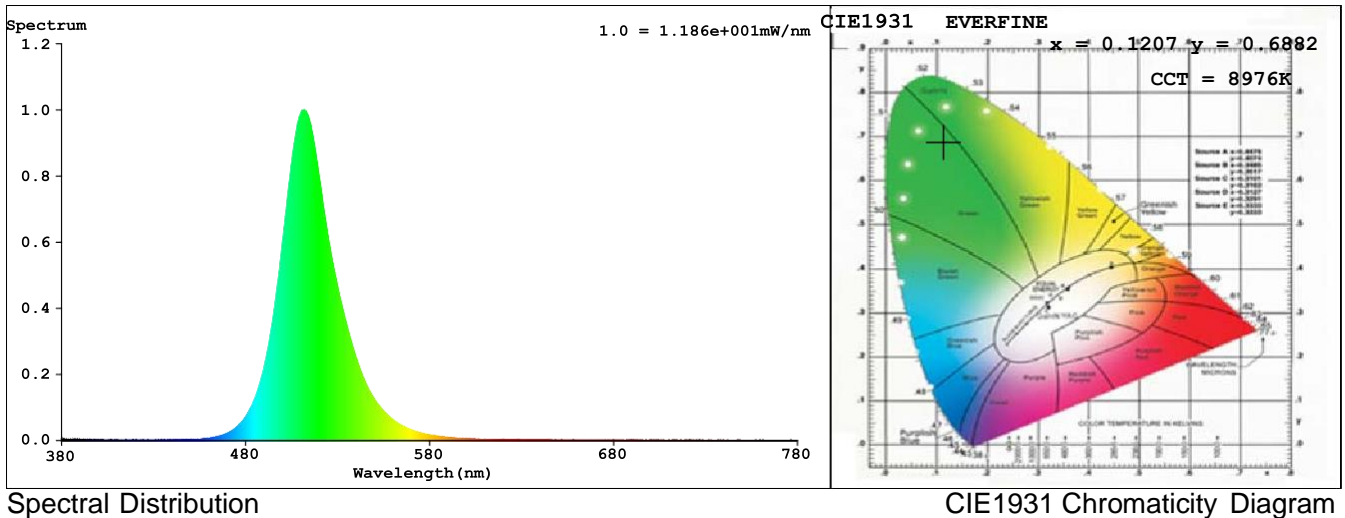
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Sample : E05N230DRGB Date : 2019-05-13 16:10:36
 Specification : 5050 60LED 10MM 5V 14.4W RGB WS2812 IP20 1M
 Sample No. : LD19040302#46 Instrument : HaasSuite(EVERFINE)
 Manufacturer : Test by : Velleman
 Assessor :
 Remark :

Test Condition

Temperature : 25.3Deg RH : 65.0%
 WL Range : 380nm-780nm IP : 52682 (80%)
 Test Mode : Fast Test T : 356 ms
 Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1207$ $y = 0.6882$ / $u' = 0.0438$ $v' = 0.5622$ ($duv=1.68e-01$)

CCT= 8976K Prcp WL: Ld=515.7nm Purity=73.3%

Peak WL: Lp=512nm FWHM: =30.5nm Ratio:R=0.2% G=94.2% B=5.6%

Render Index: Ra = 0.0 CRI = 2.7 AvgR = 2.5 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=37 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 177.74 lm Eff. : 34.83 lm/W Fe = 435.35 mW

Flux of emitted photons($\mu\text{mol/s}$):1.8767 Flu. and blue light ratio:57.96 Fluorescent eff.:83.88

Electrical parameters

V = 4.999 V I = 1.021 A P = 5.103 W PF = 1.000 F=0.00 Hz



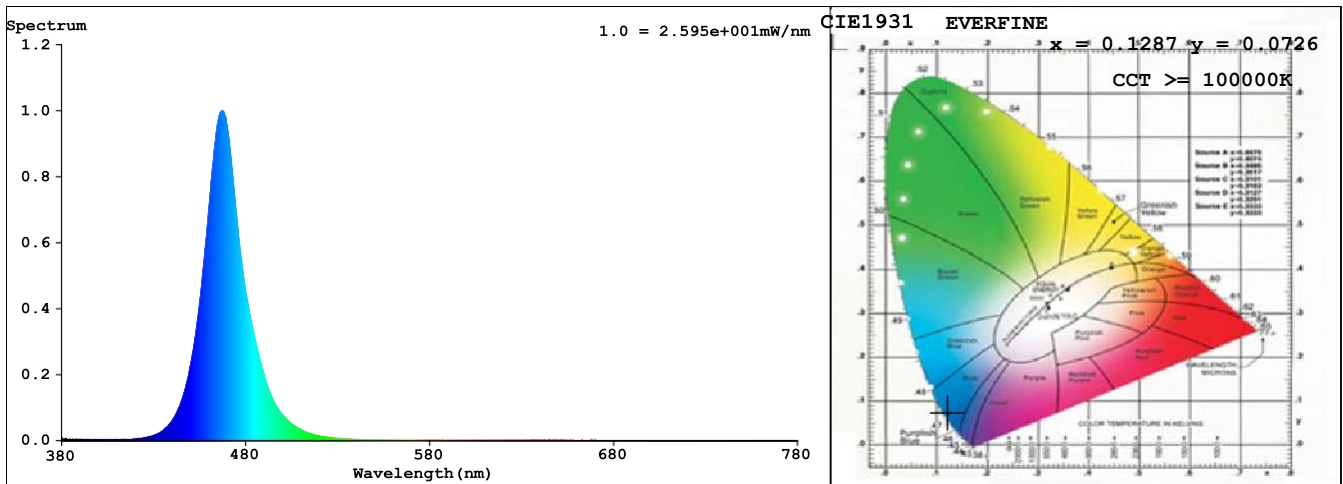
Spectrum Test Report

Sample : E05N230DRGB Date : 2019-05-13 16:11:02
 Specification : 5050 60LED 10MM 5V 14.4W RGB WS2812 IP20 1M
 Sample No. : LD19040302#46 Instrument : HaasSuite(EVERFINE)
 Manufacturer : Test by : Velleman
 Assessor :
 Remark :

Test Condition

Temperature : 25.3Deg RH : 65.0%
 WL Range : 380nm-780nm IP : 52856 (81%)
 Test Mode : Fast Test T : 233 ms
 Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1287$ $y = 0.0726$ / $u' = 0.1425$ $v' = 0.1809$ ($\text{duv} = 1.50e-01$)

$\text{CCT} \geq 100000\text{K}$ Prcp WL: $\text{Ld} = 471.1\text{nm}$ Purity=96.5%

Peak WL: $\text{Lp} = 467\text{nm}$ FWHM: $\approx 22.1\text{nm}$ Ratio: R=0.2% G=16.9% B=82.8%

Render Index: $\text{Ra} = 0.1$ $\text{CRI} = 0.1$ $\text{AvgR} = 0.1$ $\text{TM30:Rf} = 0$ $\text{Rg} = -59$

R1 = 0 R2 = 0 R3 = 0 R4 = 0 R5 = 1 R6 = 0 R7 = 0

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

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 54.490 lm Eff. : 10.70 lm/W Fe = 711.47 mW

Flux of emitted photons($\mu\text{mol/s}$): 2.7907 Flu. and blue light ratio: 0.2464 Fluorescent eff.: 27.67

Electrical parameters

V = 4.999 V I = 1.018 A P = 5.092 W PF = 1.000 F=0.00 Hz



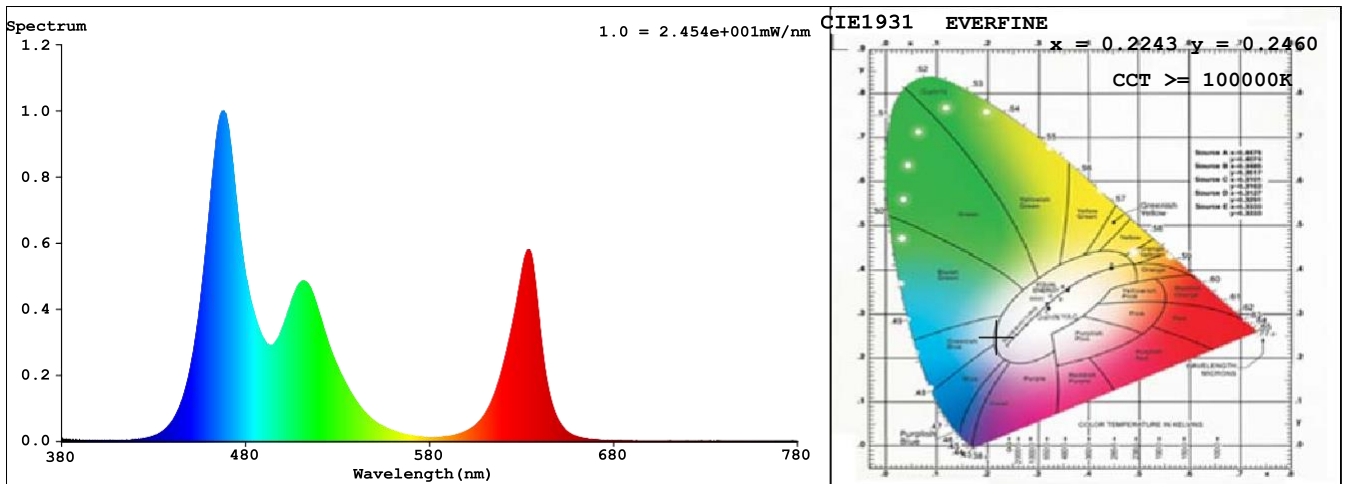
Spectrum Test Report

Sample	: E05N230DRGB	Date	: 2019-05-13 16:11:02
Specification	: 5050 60LED 10MM 5V 14.4W RGB WS2812 IP20 1M		
Sample No.	: LD19040302#46	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Velleman
Assessor	:		
Remark	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 50371 (77%)
Test Mode	: Fast Test	T	: 233 ms
		Sensitivity	: High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2243$ $y = 0.2460$ / $u' = 0.1630$ $v' = 0.4023$ ($duv=1.78e-02$)

$CCT \geq 100000K$ Prcp WL: $L_d=480.5nm$ Purity=44.7%

Peak WL: $L_p=468nm$ FWHM: $=23.1nm$ Ratio:R=20.3% G=61.2% B=18.5%

Render Index: $R_a = 37.1$ CRI = 35.3 AvgR = 33.8 TM30:Rf=28 Rg=101

R1 =33 R2 =40 R3 =38 R4 =51 R5 =54 R6 =38 R7 =43

R8 =0 R9 =0 R10=0 R11=57 R12=51 R13=28 R14=62 R15=12

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 284.06 lm Eff. : 20.71 lm/W Fe = 1.4090 W

Flux of emitted photons($\mu mol/s$):6.1152 Flu. and blue light ratio:0.2939 Fluorescent eff.:23.34

Electrical parameters

V = 4.999 V I = 2.743 A P = 13.71 W PF = 1.000 F=0.00 Hz