



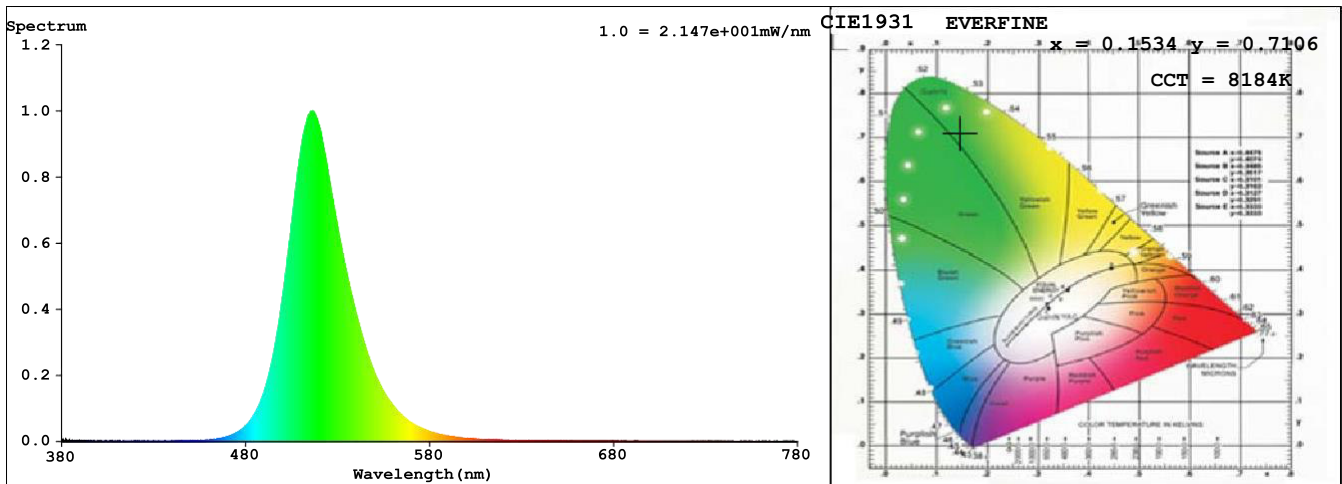
Spectrum Test Report

Sample : E24W230RGB Date : 2019-04-17 17:06:52
 Specification : 5050 60LED 10MM 24V 14.4W RGB IP68 1M
 Sample No. : LD19040302#25 Instrument : HaasSuite(EVERFINE)
 Manufacturer : Test by : Velleman
 Assessor :
 Remark :

Test Condition

Temperature : 25.3Deg RH : 65.0%
 WL Range : 380nm-780nm IP : 49552 (76%)
 Test Mode : Fast Test T : 180 ms
 Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1534$ $y = 0.7106$ / $u' = 0.0547$ $v' = 0.5700$ ($duv=1.60e-01$)

CCT= 8184K Prcp WL: $L_d=522.7\text{nm}$ Purity=75.6%

Peak WL: $L_p=517\text{nm}$ FWHM: $=33.8\text{nm}$ Ratio:R=0.3% G=96.5% B=3.2%

Render Index: $R_a = 0.0$ CRI = 2.9 AvgR = 2.7 TM30:Rf=0 Rg=8

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=40 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 389.08 lm Eff. : 75.52 lm/W $F_e = 854.01$ mW

Flux of emitted photons($\mu\text{mol/s}$):3.7212 Flu. and blue light ratio:90.90 Fluorescent eff.:164.0

Electrical parameters

V = 24.00 V I = 0.2147 A P = 5.152 W PF = 1.000 F=0.00 Hz



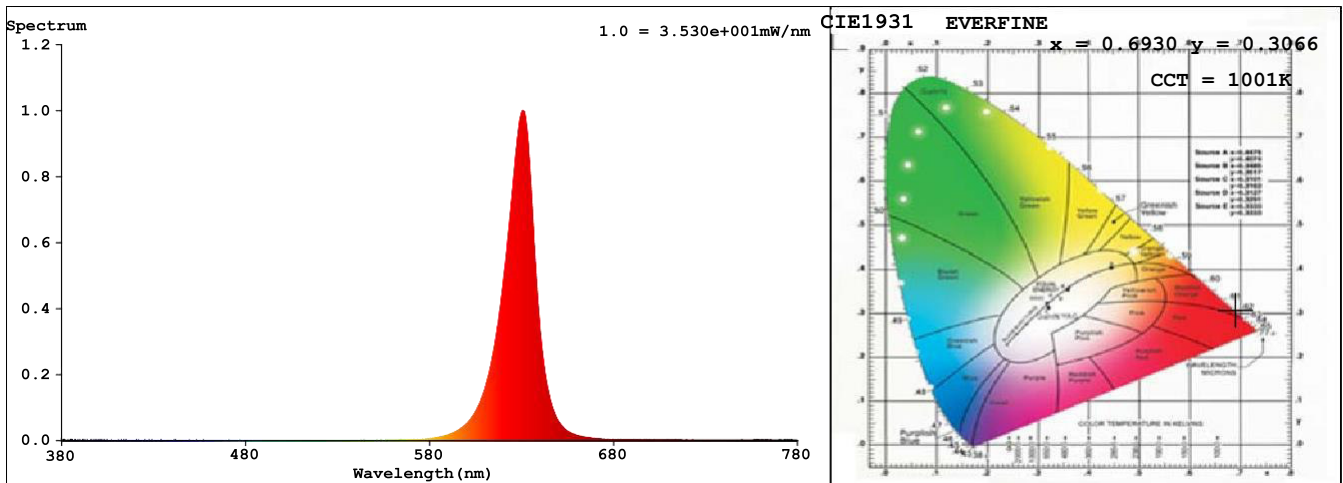
Spectrum Test Report

Sample : E24W230RGB Date : 2019-04-17 17:07:56
 Specification : 5050 60LED 10MM 24V 14.4W RGB IP68 1M
 Sample No. : LD19040302#25 Instrument : HaasSuite(EVERFINE)
 Manufacturer : Test by : Velleman
 Assessor :
 Remark :

Test Condition

Temperature : 25.3Deg RH : 65.0%
 WL Range : 380nm-780nm IP : 53043 (81%)
 Test Mode : Fast Test T : 115 ms
 Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6930$ $y = 0.3066$ / $u' = 0.5236$ $v' = 0.5213$ ($duv = -7.60e-02$)

CCT= 1001K Prcp WL: $L_d = 620.9 \text{ nm}$ Purity=99.9%

Peak WL: $L_p = 631 \text{ nm}$ FWHM: =17.2nm Ratio:R=95.2% G=4.8% B=0.0%

Render Index: $R_a = 27.4$ CRI = 32.9 AvgR = 30.7 TM30:Rf=10 Rg=-1

R1 =8 R2 =78 R3 =32 R4 =0 R5 =3 R6 =89 R7 =8

R8 =0 R9 =0 R10=72 R11=0 R12=79 R13=30 R14=61 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 152.53 lm Eff. : 30.73 lm/W Fe = 743.72 mW

Flux of emitted photons($\mu\text{mol/s}$):3.8971 Fluo. and blue light ratio:29848 Fluorescent eff.:149.9

Electrical parameters

V = 24.00 V I = 0.2068 A P = 4.963 W PF = 1.000 F=0.00 Hz



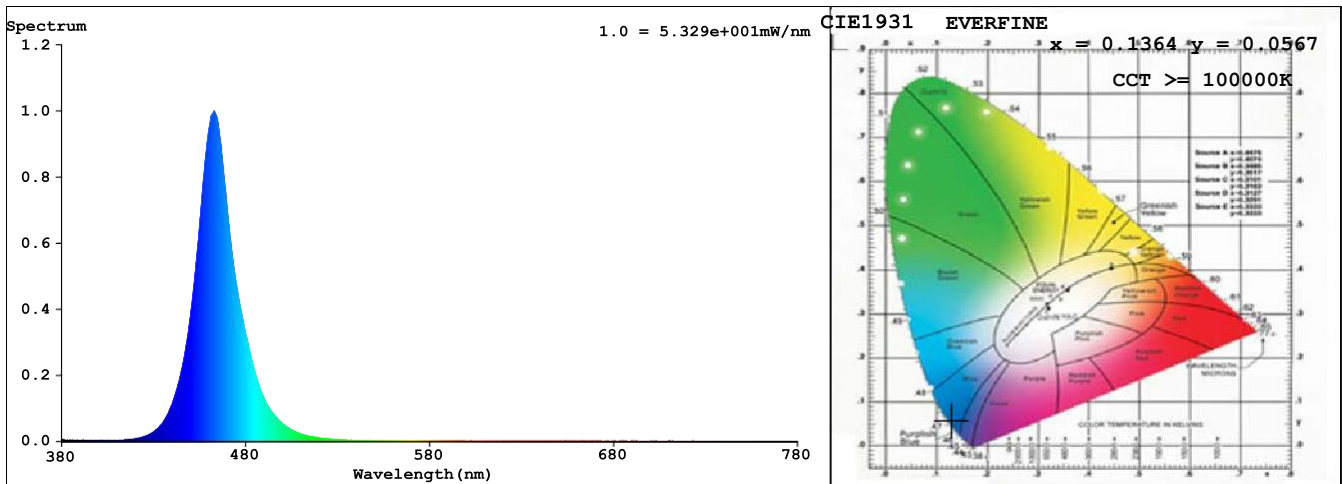
Spectrum Test Report

Sample : E24W230RGB Date : 2019-04-17 17:08:09
 Specification : 5050 60LED 10MM 24V 14.4W RGB IP68 1M
 Sample No. : LD19040302#25 Instrument : HaasSuite(EVERFINE)
 Manufacturer : Test by : Velleman
 Assessor :
 Remark :

Test Condition

Temperature : 25.3Deg RH : 65.0%
 WL Range : 380nm-780nm IP : 51357 (78%)
 Test Mode : Fast Test T : 115 ms
 Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1364$ $y = 0.0567$ / $u' = 0.1601$ $v' = 0.1498$ ($duv=1.67e-01$)

CCT>=100000K Prcp WL: $L_d=467.6\text{nm}$ Purity=96.9%

Peak WL: $L_p=463\text{nm}$ FWHM: $=21.7\text{nm}$ Ratio:R=0.4% G=15.5% B=84.1%

Render Index: $R_a = 0.3$ CRI = 0.1 AvgR = 0.2 TM30:Rf=0 Rg=-102

R1 =0 R2 =0 R3 =0 R4 =0 R5 =2 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 = 94.566 lm Eff. : 18.76 lm/W Fe = 1.4529 W

Flux of emitted photons($\mu\text{mol/s}$):5.6487 Flu. and blue light ratio:0.1620 Fluorescent eff.:40.22

Electrical parameters

V = 24.00 V I = 0.2101 A P = 5.042 W PF = 1.000 F=0.00 Hz



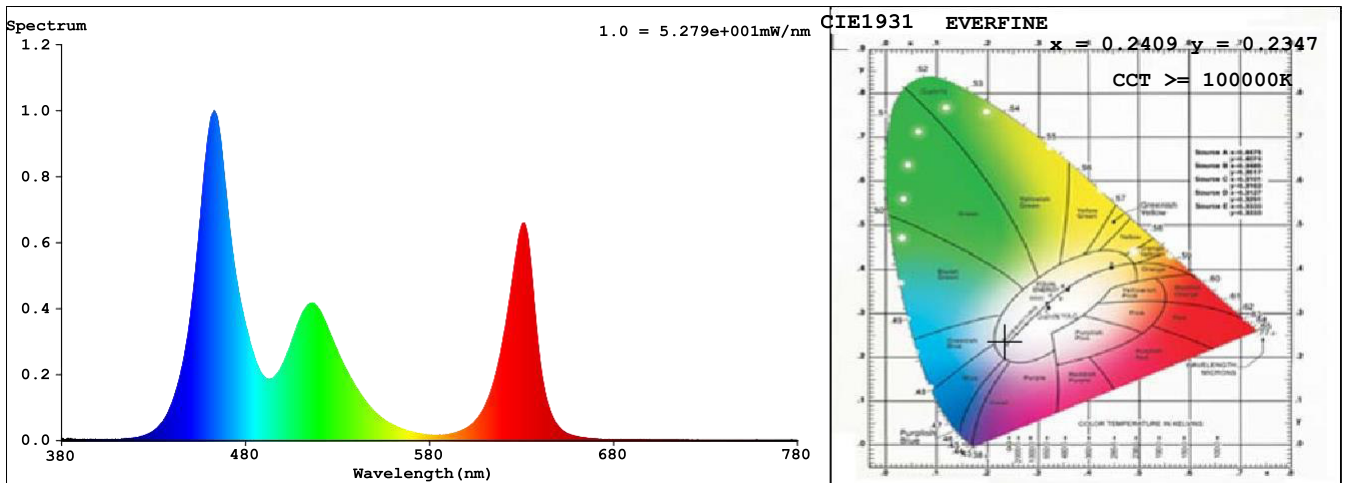
Spectrum Test Report

Sample	: E24W230RGB	Date	: 2019-04-17 17:08:23
Specification	: 5050 60LED 10MM 24V 14.4W RGB IP68 1M		
Sample No.	: LD19040302#25	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Velleman
Assessor	:		
Remark	:		

Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 52319 (80%)
Test Mode	: Fast Test	T	: 115 ms
		Sensitivity	: High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2409$ $y = 0.2347$ / $u' = 0.1806$ $v' = 0.3960$ ($duv=1.96e-03$)

CCT \geq 100000K Prcp WL: Ld=475.7nm Purity=40.9%

Peak WL: Lp=463nm FWHM: =22.1nm Ratio:R=22.7% G=62.7% B=14.5%

Render Index: Ra = 41.0 CRI = 36.8 AvgR = 34.4 TM30:Rf=39 Rg=114

R1 =21 R2 =48 R3 =67 R4 =43 R5 =44 R6 =49 R7 =55

R8 =0 R9 =0 R10=0 R11=33 R12=55 R13=24 R14=77 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 631.77 lm Eff. : 41.72 lm/W Fe = 3.0294 W

Flux of emitted photons($\mu\text{mol/s}$):13.175 Fluo. and blue light ratio:0.3267 Fluorescent eff.:49.27

Electrical parameters

V = 24.00 V I = 0.6310 A P = 15.14 W PF = 1.000 F=0.00 Hz