



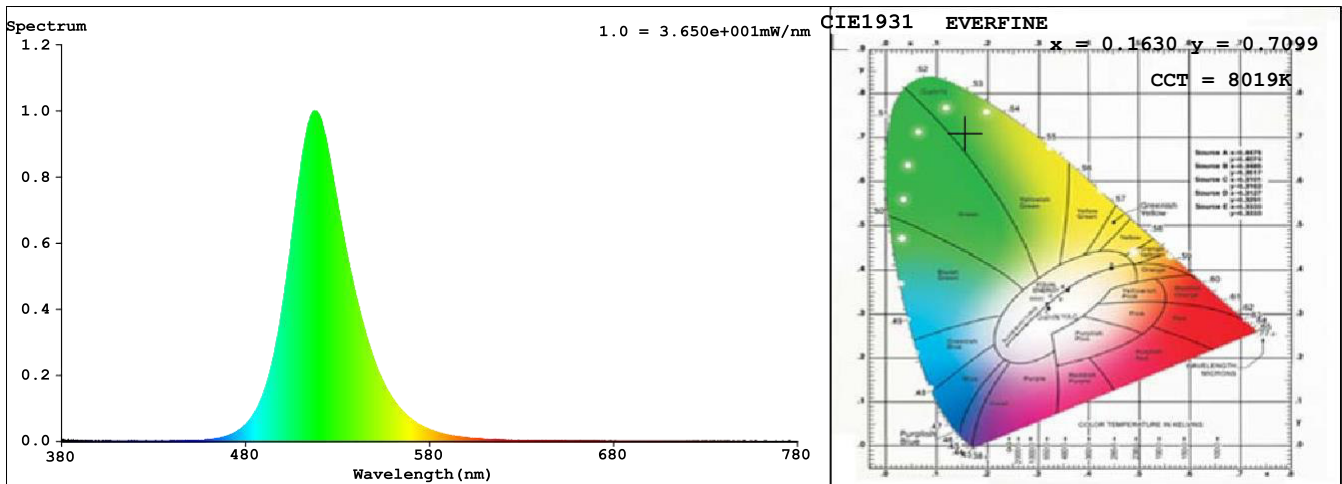
Spectrum Test Report

Sample : E24N260RGB Date : 2019-04-17 16:47:10
 Specification : 5050 120LED 12MM 24V 28.8W RGB IP20 1M
 Sample No. : LD19040302#05 Instrument : HaasSuite(EVERFINE)
 Manufacturer : Test by : Velleman
 Assessor :
 Remark :

Test Condition

Temperature : 25.3Deg RH : 65.0%
 WL Range : 380nm-780nm IP : 52733 (80%)
 Test Mode : Fast Test T : 112 ms
 Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1630$ $y = 0.7099$ / $u' = 0.0582$ $v' = 0.5708$ ($duv=1.58e-01$)

CCT= 8019K Prcp WL: $L_d=524.4\text{nm}$ Purity=76.1%

Peak WL: $L_p=517\text{nm}$ FWHM: $=35.2\text{nm}$ Ratio:R=0.3% G=96.7% B=3.0%

Render Index: $R_a = 0.0$ CRI = 3.0 AvgR = 2.8 TM30:Rf=1 Rg=9

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=42 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 703.88 lm Eff. : 72.91 lm/W Fe = 1.5080 W

Flux of emitted photons($\mu\text{mol/s}$):6.5871 Flu. and blue light ratio:86.22 Fluorescent eff.:154.4

Electrical parameters

V = 24.00 V I = 0.4023 A P = 9.654 W PF = 1.000 F=0.00 Hz



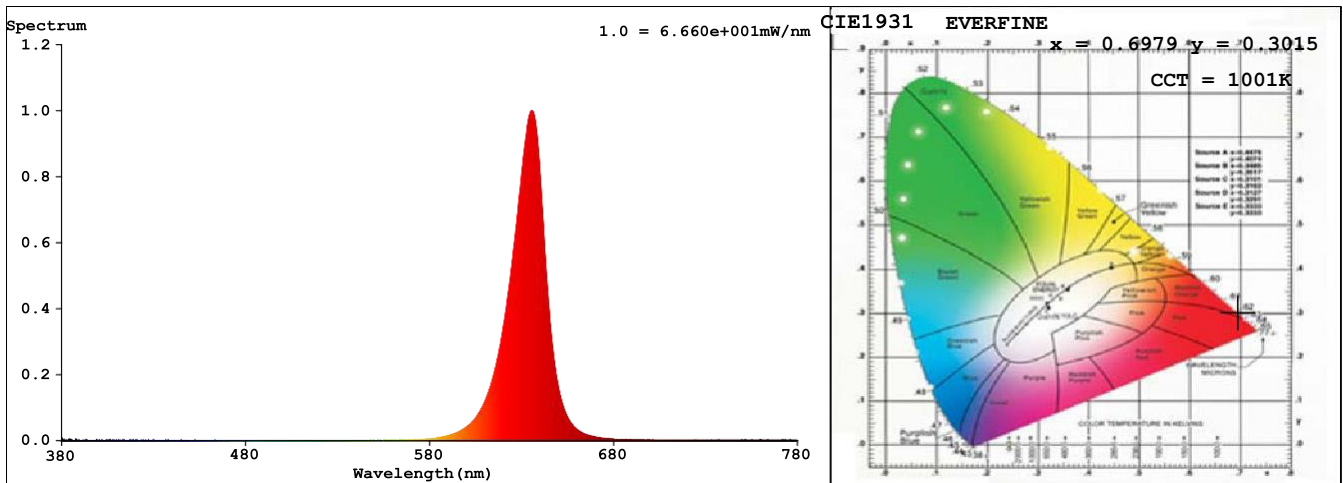
Spectrum Test Report

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|---------------|--|------------|-----------------------|
| Sample | : E24N260RGB | Date | : 2019-04-17 16:48:13 |
| Specification | : 5050 120LED 12MM 24V 28.8W RGB IP20 1M | | |
| Sample No. | : LD19040302#05 | Instrument | : HaasSuite(EVERFINE) |
| Manufacturer | : | Test by | : Velleman |
| Assessor | : | | |
| Remark | : | | |

Test Condition

| | | | |
|-------------|---------------|-------------|---------------|
| Temperature | : 25.3Deg | RH | : 65.0% |
| WL Range | : 380nm-780nm | IP | : 48320 (74%) |
| Test Mode | : Fast Test | T | : 56 ms |
| | | Sensitivity | : High |

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6979$ $y = 0.3015$ / $u' = 0.5346$ $v' = 0.5196$ ($duv = -8.71e-02$)

CCT= 1001K Prcp WL: $L_d = 623.7\text{nm}$ Purity=99.8%

Peak WL: $L_p = 635\text{nm}$ FWHM: =19.3nm Ratio:R=95.7% G=4.3% B=0.0%

Render Index: $R_a = 28.6$ CRI = 33.9 AvgR = 31.6 TM30:Rf=35 Rg=-1

R1 =9 R2 =78 R3 =35 R4 =0 R5 =6 R6 =88 R7 =13

R8 =0 R9 =0 R10=72 R11=0 R12=80 R13=31 R14=62 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 273.16 lm Eff. : 26.95 lm/W $F_e = 1.5479$ W

Flux of emitted photons($\mu\text{mol/s}$):8.1661 Fluo. and blue light ratio:31502 Fluorescent eff.:152.7

Electrical parameters

V = 24.00 V I = 0.4223 A P = 10.13 W PF = 1.000 F=0.00 Hz



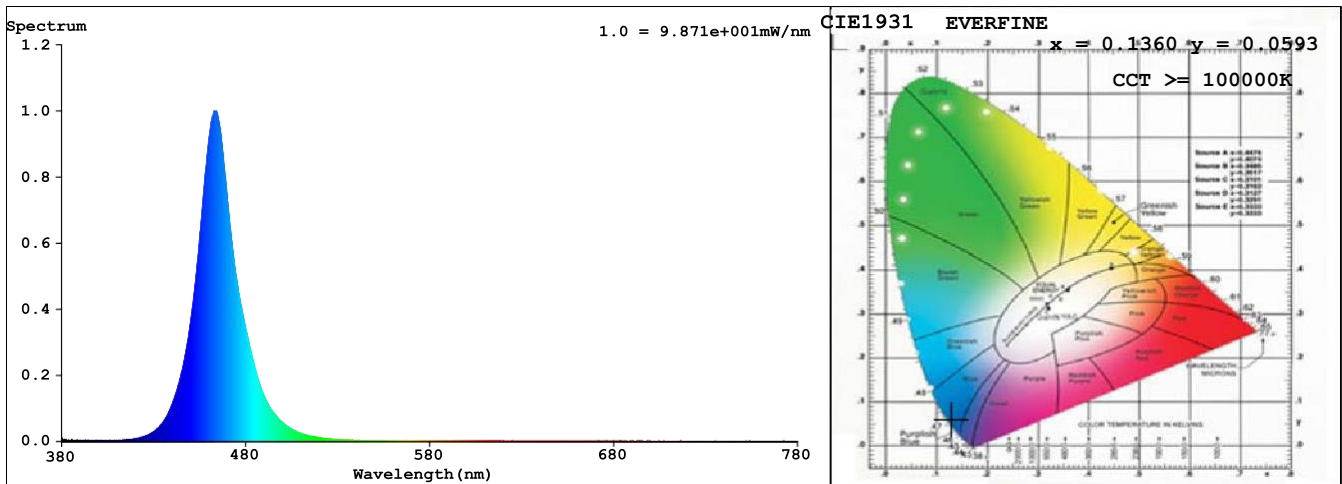
Spectrum Test Report

Sample : E24N260RGB Date : 2019-04-17 16:48:33
 Specification : 5050 120LED 12MM 24V 28.8W RGB IP20 1M
 Sample No. : LD19040302#05 Instrument : HaasSuite(EVERFINE)
 Manufacturer : Test by : Velleman
 Assessor :
 Remark :

Test Condition

Temperature : 25.3Deg RH : 65.0%
 WL Range : 380nm-780nm IP : 46477 (71%)
 Test Mode : Fast Test T : 56 ms
 Sensitivity : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1360$ $y = 0.0593$ / $u' = 0.1581$ $v' = 0.1551$ ($duv=1.64e-01$)

CCT>=100000K Prcp WL: $L_d=468.0\text{nm}$ Purity=96.6%

Peak WL: $L_p=464\text{nm}$ FWHM: =21.7nm Ratio:R=0.5% G=16.9% B=82.6%

Render Index: $R_a = 0.5$ CRI = 0.3 AvgR = 0.4 TM30:Rf=0 Rg=-102

R1 =0 R2 =0 R3 =0 R4 =0 R5 =4 R6 =0 R7 =0

R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=2

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 182.58 lm Eff. : 18.96 lm/W Fe = 2.7134 W

Flux of emitted photons($\mu\text{mol/s}$):10.564 Flu. and blue light ratio:0.1738 Fluorescent eff.:41.77

Electrical parameters

V = 24.00 V I = 0.4013 A P = 9.630 W PF = 1.000 F=0.00 Hz



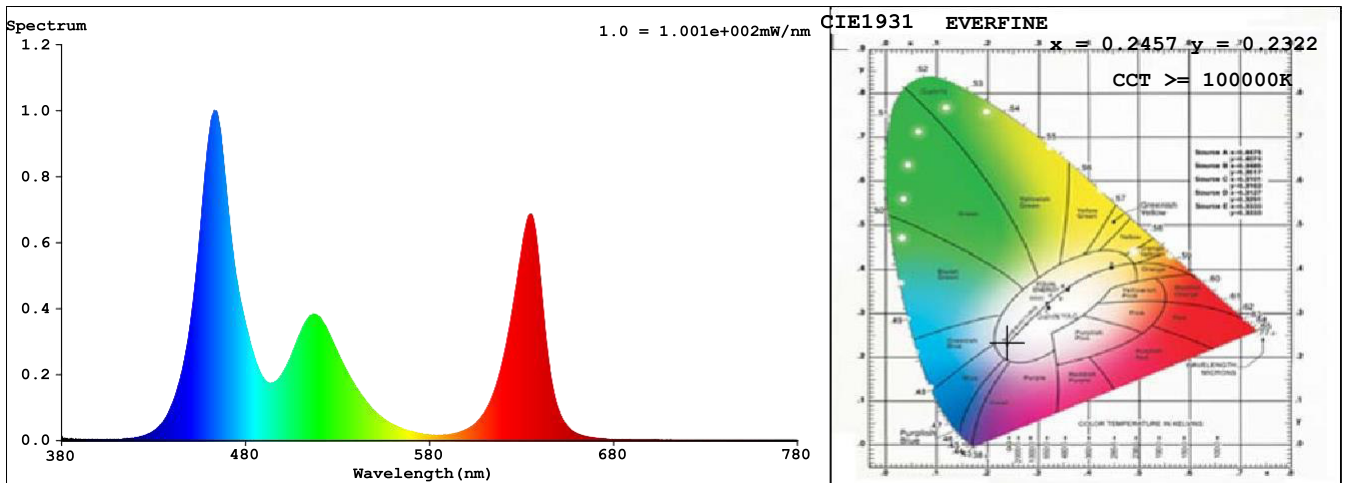
Spectrum Test Report

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|---------------|--|------------|-----------------------|
| Sample | : E24N260RGB | Date | : 2019-04-17 16:51:40 |
| Specification | : 5050 120LED 12MM 24V 28.8W RGB IP20 1M | | |
| Sample No. | : LD19040302#05 | Instrument | : HaasSuite(EVERFINE) |
| Manufacturer | : | Test by | : Velleman |
| Assessor | : | | |
| Remark | : | | |

Test Condition

| | | | |
|-------------|---------------|-------------|---------------|
| Temperature | : 25.3Deg | RH | : 65.0% |
| WL Range | : 380nm-780nm | IP | : 49863 (76%) |
| Test Mode | : Fast Test | T | : 56 ms |
| | | Sensitivity | : High |

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2457$ $y = 0.2322$ / $u' = 0.1856$ $v' = 0.3947$ ($duv = -5.71e-03$)

CCT \geq 100000K Prcp WL: $L_d = 473.9\text{nm}$ Purity = 39.8%

Peak WL: $L_p = 463\text{nm}$ FWHM: $\approx 21.6\text{nm}$ Ratio: R=23.5% G=61.9% B=14.6%

Render Index: $R_a = 36.6$ CRI = 32.8 AvgR = 30.6 TM30: $R_f = 36$ $R_g = 117$

R1 = 12 R2 = 44 R3 = 68 R4 = 35 R5 = 37 R6 = 46 R7 = 51

R8 = 0 R9 = 0 R10 = 0 R11 = 24 R12 = 50 R13 = 15 R14 = 77 R15 = 0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 1166.1 lm Eff. : 40.61 lm/W $F_e = 5.7844$ W

Flux of emitted photons($\mu\text{mol/s}$): 25.384 Fluo. and blue light ratio: 0.3771 Fluorescent eff.: 55.16

Electrical parameters

V = 24.00 V I = 1.197 A P = 28.72 W PF = 1.000 F = 0.00 Hz