



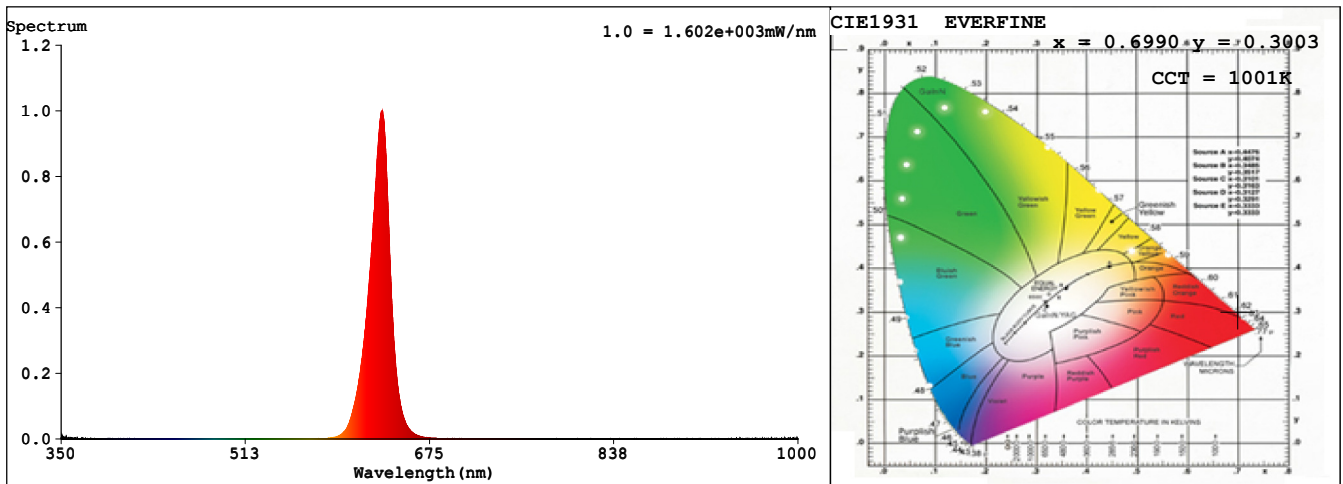
Spectrum Test Report

Sample : Date : 2024-02-19 18:16:43
 Specification : SERA Sam. Status :
 Sample No. : R Instrument : HAAS-2000(EVERFINE)
 Manufacturer : CLF Test by : DANNY
 Assessor : damin

Test Condition

Temperature : 28Deg RH : 65.0%
 WL Range : 350nm-1000nm IP : 57095 (87%)
 Test Mode : Fast Test T : 18 ms
 Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6990$ $y = 0.3003$ / $u' = 0.5371$ $v' = 0.5192$ ($duv = -8.96e-02$)

CCT= 1001K Prcp WL: $L_d = 624.5\text{nm}$ Purity=99.8%

Peak WL: $L_p = 634\text{nm}$ FWHM: =18.4nm Ratio:R=98.5% G=1.5% B=0.0%

Render Index: $R_a = 24.6$

$R_1 = 3$ $R_2 = 78$ $R_3 = 26$ $R_4 = 0$ $R_5 = 0$ $R_6 = 90$ $R_7 = 0$
 $R_8 = 0$ $R_9 = 0$ $R_{10} = 72$ $R_{11} = 0$ $R_{12} = 79$ $R_{13} = 28$ $R_{14} = 56$ $R_{15} = 0$

LEVEL:OUT WHITE:OUT

TLCI Parameters: TLCI = 2.7

Photometric & Radiometric Parameters

Flux = 6416.1 lm Eff. : 34.19 lm/W $F_e = 34.720\text{ W}$

Electrical parameters

$V = 239.8\text{ V}$ $I = 0.8872\text{ A}$ $P = 187.7\text{ W}$ PF = 0.8820

Freq=50.01 Hz



Spectrum Test Report

Sample :
 Specification : SERA
 Sample No. : G
 Manufacturer : CLF

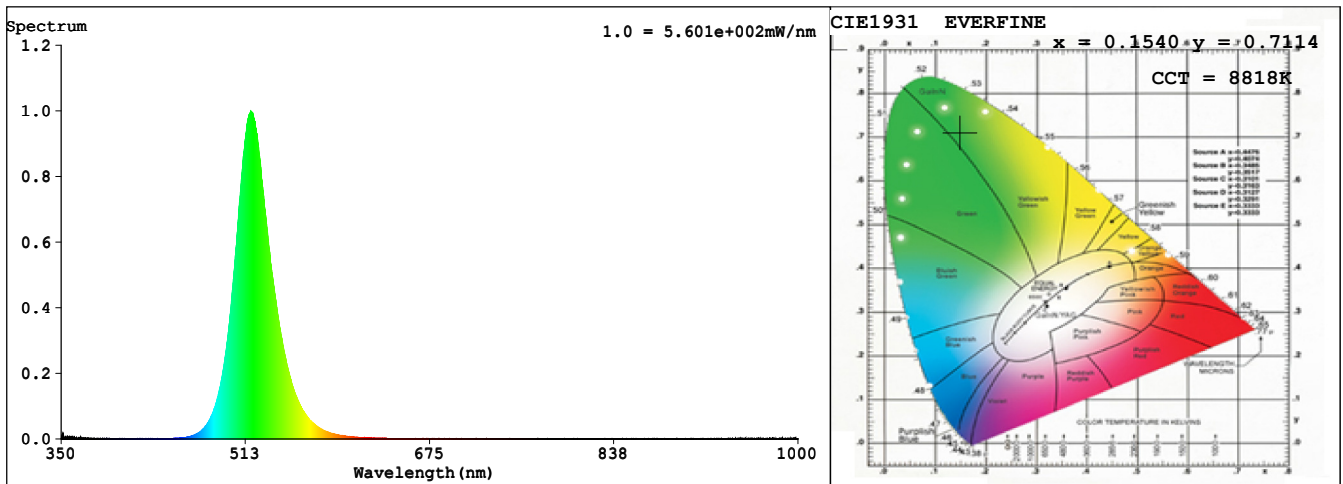
Date : 2024-02-19 18:17:25
 Sam. Status :
 Instrument : HAAS-2000(EVERFINE)
 Test by : DANNY
 Assessor : damin

Test Condition

Temperature : 28Deg
 WL Range : 350nm-1000nm
 Test Mode : Fast Test

RH : 65.0%
 IP : 53436 (82%)
 T : 39 ms
 Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1540$ $y = 0.7114$ / $u' = 0.0549$ $v' = 0.5702$ ($duv=1.60e-01$)

CCT= 8818K Prcp WL: $L_d=522.9nm$ Purity=75.8%

Peak WL: $L_p=517nm$ FWHM: =34.0nm Ratio:R=0.3% G=96.5% B=3.2%

Render Index: $R_a = 0.0$

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=41 R15=0

LEVEL:OUT WHITE:OUT

TLCI Parameters: TLCI = 2.9

Photometric & Radiometric Parameters

Flux = 10297 lm Eff. : 44.63 lm/W $F_e = 22.475 W$

Electrical parameters

$V = 239.8 V$ $I = 1.056 A$ $P = 230.7 W$ PF = 0.9112

Freq=50.01 Hz



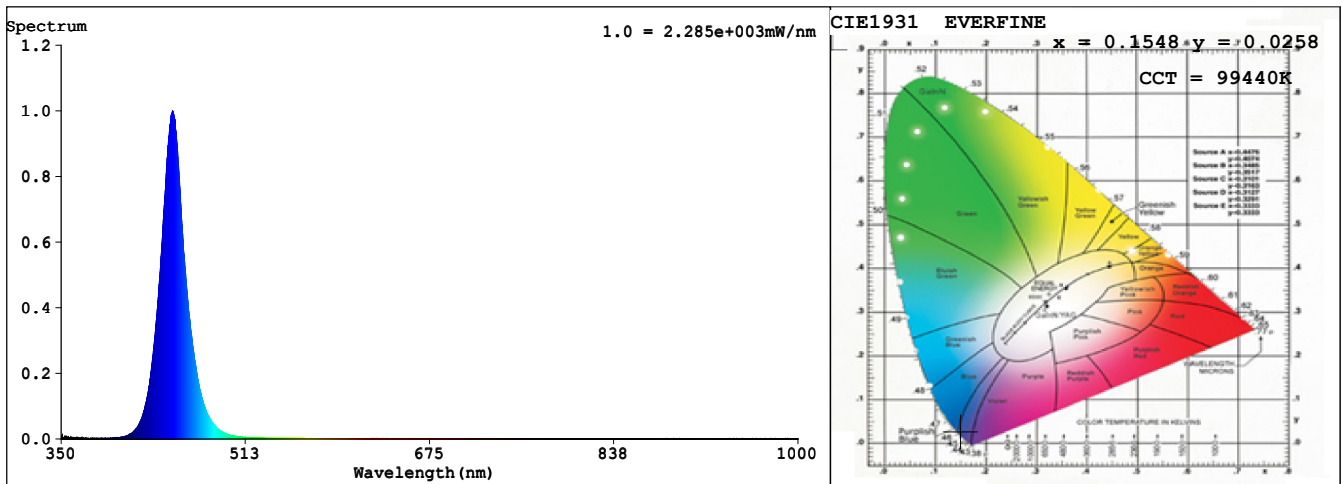
Spectrum Test Report

Sample : Date : 2024-02-19 18:17:38
 Specification : SERA Sam. Status :
 Sample No. : B Instrument : HAAS-2000(EVERFINE)
 Manufacturer : CLF Test by : DANNY
 Assessor : damin

Test Condition

Temperature : 28Deg RH : 65.0%
 WL Range : 350nm-1000nm IP : 54131 (83%)
 Test Mode : Fast Test T : 15 ms
 Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1548$ $y = 0.0258$ / $u' = 0.2064$ $v' = 0.0774$ ($duv = -2.16e-01$)

CCT= 99440K Prcp WL: Ld=453.9nm Purity=98.6%

Peak WL: Lp=448nm FWHM: =22.6nm Ratio:R=0.8% G=12.3% B=86.9%

Render Index: Ra = 0.9

R1 = 0 R2 = 0 R3 = 0 R4 = 0 R5 = 7 R6 = 0 R7 = 0
 R8 = 0 R9 = 0 R10 = 0 R11 = 0 R12 = 0 R13 = 0 R14 = 0 R15 = 10

LEVEL:OUT WHITE:OUT

TLCI Parameters: TLCI = 0.7

Photometric & Radiometric Parameters

Flux = 2127.5 lm Eff. : 9.27 lm/W Fe = 62.629 W

Electrical parameters

V = 239.8 V I = 1.051 A P = 229.6 W PF = 0.9105

Freq=50.01 Hz



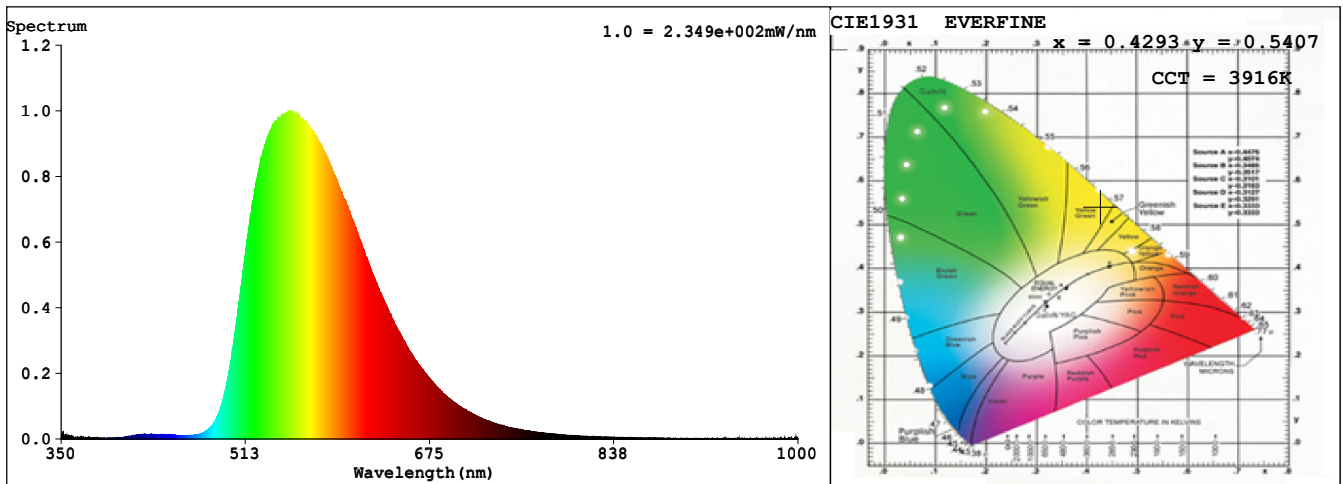
Spectrum Test Report

Sample : Date : 2024-02-19 18:17:50
 Specification : SERA Sam. Status :
 Sample No. : L Instrument : HAAS-2000(EVERFINE)
 Manufacturer : CLF Test by : DANNY
 Assessor : damin

Test Condition

Temperature : 28Deg RH : 65.0%
 WL Range : 350nm-1000nm IP : 53313 (81%)
 Test Mode : Fast Test T : 89 ms
 Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4293$ $y = 0.5407$ / $u' = 0.1990$ $v' = 0.5639$ ($duv=4.90e-02$)

CCT= 3916K Prcp WL: $L_d=569.2nm$ Purity=91.4%

Peak WL: $L_p=552nm$ FWHM: =115.0nm Ratio:R=12.7% G=86.7% B=0.6%

Render Index: $R_a = 43.8$

R1 =46 R2 =54 R3 =53 R4 =23 R5 =44 R6 =48 R7 =54

R8 =29 R9 =0 R10=5 R11=2 R12=17 R13=46 R14=77 R15=31

LEVEL:OUT WHITE:OUT

TLCI Parameters: TLCI = 9.8

Photometric & Radiometric Parameters

Flux = 12959 lm Eff. : 57.27 lm/W $F_e = 29.389 W$

Electrical parameters

$V = 239.8 V$ $I = 1.038 A$ $P = 226.3 W$ PF = 0.9088

Freq=50.01 Hz



Spectrum Test Report

Sample :
 Specification : SERA
 Sample No. : RGLB(RAW)
 Manufacturer : CLF

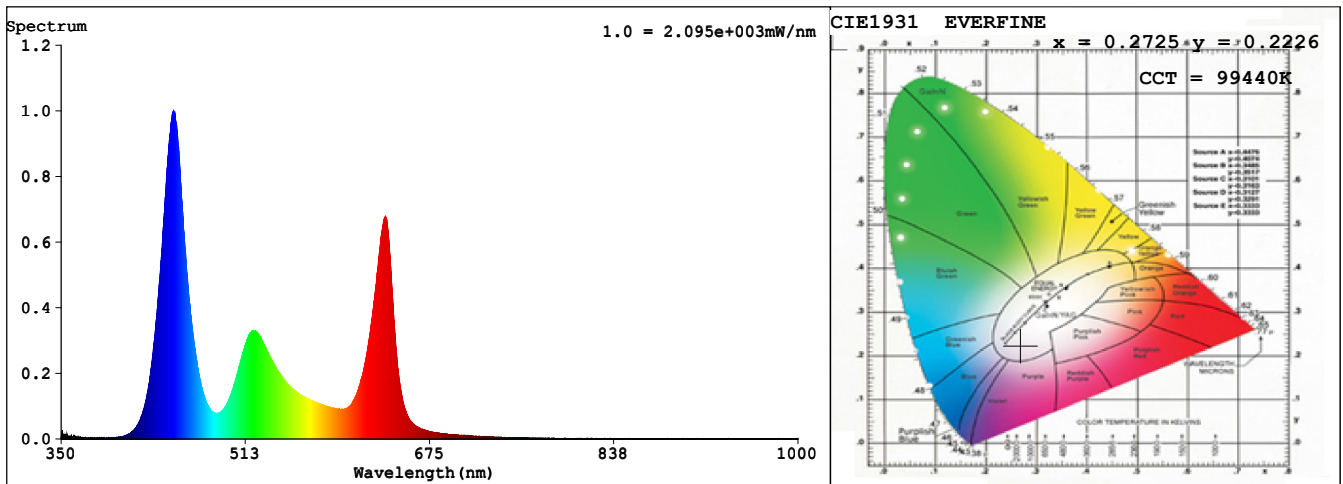
Date : 2024-02-19 18:18:08
 Sam. Status :
 Instrument : HAAS-2000(EVERFINE)
 Test by : DANNY
 Assessor : damin

Test Condition

Temperature : 28Deg
 WL Range : 350nm-1000nm
 Test Mode : Fast Test

RH : 65.0%
 IP : 46695 (71%)
 T : 14 ms
 Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2725$ $y = 0.2226$ / $u' = 0.2126$ $v' = 0.3908$ ($duv = -3.24e-02$)

CCT= 99440K Prcp WL: Ld=447.7nm Purity=34.9%

Peak WL: Lp=449nm FWHM: =23.8nm Ratio:R=22.4% G=70.1% B=7.5%

Render Index: Ra = 44.5

R1 =30 R2 =77 R3 =43 R4 =20 R5 =48 R6 =78 R7 =61

R8 =0 R9 =0 R10=65 R11=5 R12=68 R13=41 R14=64 R15=4

LEVEL:OUT WHITE:OUT

TLCI Parameters: TLCI = 35.6

Photometric & Radiometric Parameters

Flux = 29392 lm Eff. : 36.61 lm/W Fe = 138.84 W

Electrical parameters

V = 239.7 V I = 3.385 A P = 802.8 W PF = 0.9896

Freq=50.01 Hz



Spectrum Test Report

Sample :
 Specification : SERA
 Sample No. : RGLB(calibration)
 Manufacturer : CLF

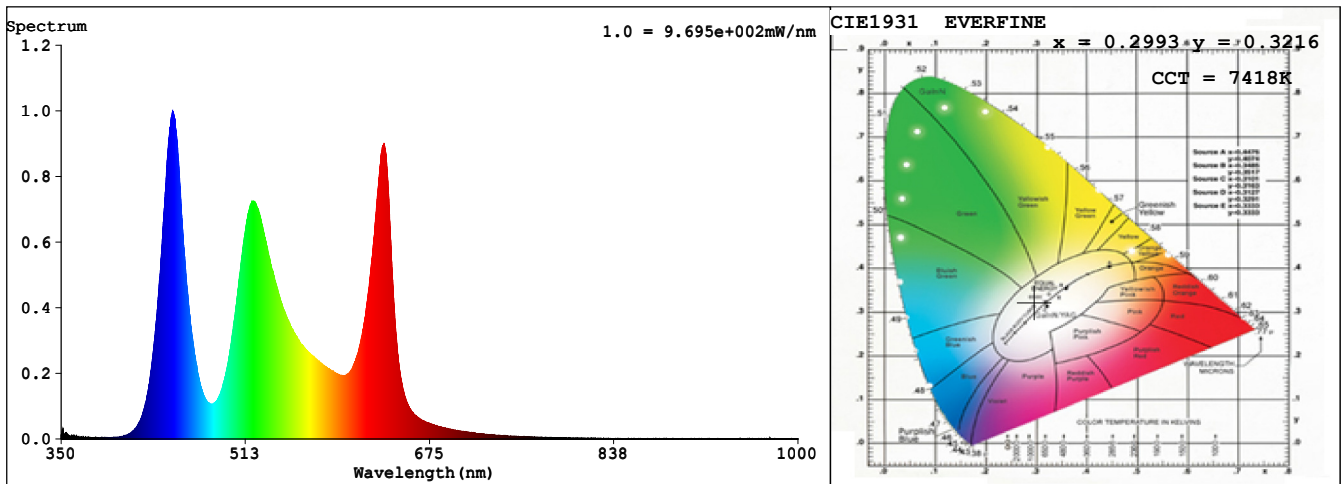
Date : 2024-02-19 18:29:40
 Sam. Status :
 Instrument : HAAS-2000(EVERFINE)
 Test by : DANNY
 Assessor : damin

Test Condition

Temperature : 28Deg
 WL Range : 350nm-1000nm
 Test Mode : Fast Test

RH : 65.0%
 IP : 53485 (82%)
 T : 31 ms
 Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2993$ $y = 0.3216$ / $u' = 0.1913$ $v' = 0.4623$ ($duv=6.39e-03$)

CCT= 7418K Prcp WL: $L_d=487.2nm$ Purity=12.4%

Peak WL: $L_p=448nm$ FWHM: =22.9nm Ratio:R=17.3% G=78.2% B=4.5%

Render Index: $R_a = 76.7$

R1 =80 R2 =94 R3 =70 R4 =64 R5 =84 R6 =94 R7 =75

R8 =53 R9 =0 R10=87 R11=54 R12=75 R13=88 R14=82 R15=73

LEVEL:OUT WHITE:OUT

TLCI Parameters: TLCI = 63.9

Photometric & Radiometric Parameters

Flux = 26625 lm Eff. : 43.55 lm/W $F_e = 94.219 W$

Electrical parameters

$V = 239.7 V$ $I = 2.597 A$ $P = 611.4 W$ PF = 0.9821

Freq=50.01 Hz