

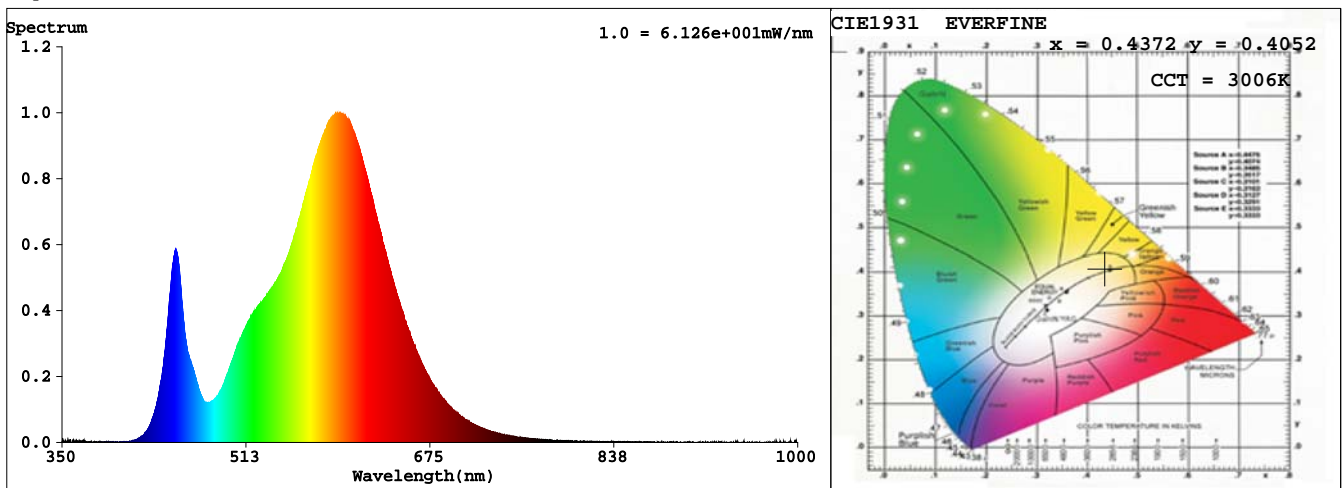
Spectrum Test Report

Sample	:	Date	: 2020-04-02 14:38:56
Specification	: HFB-22	Sam. Status	:
Sample No.	: 45	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	:	Test by	:
		Assessor	: damin

Test Condition

Temperature	: 25Deg	RH	: 65.0%
WL Range	: 350nm-1000nm	IP	: 41199 (63%)
Test Mode	: Fast Test	T	: 164 ms
		Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4372$ $y = 0.4052$ / $u' = 0.2502$ $v' = 0.5219$ ($duv=4.33e-04$)

CCT= 3006K Prcp WL: $L_d=582.6nm$ Purity=52.9%

Peak WL: $L_p=592nm$ FWHM: =101.1nm Ratio:R=21.2% G=76.7% B=2.1%

Render Index: $R_a = 71.9$ TM30: $R_f=73$ $R_g=92$

R1 =68 R2 =84 R3 =94 R4 =67 R5 =68 R6 =79 R7 =75

R8 =39 R9 =0 R10=65 R11=64 R12=55 R13=71 R14=97 R15=59

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 2840.8 lm Eff. : 139.69 lm/W $F_e = 7.9285 W$

Electrical parameters

V = 220.5 V I = 0.09776 A P = 20.34 W PF = 0.9433 F=49.99 Hz

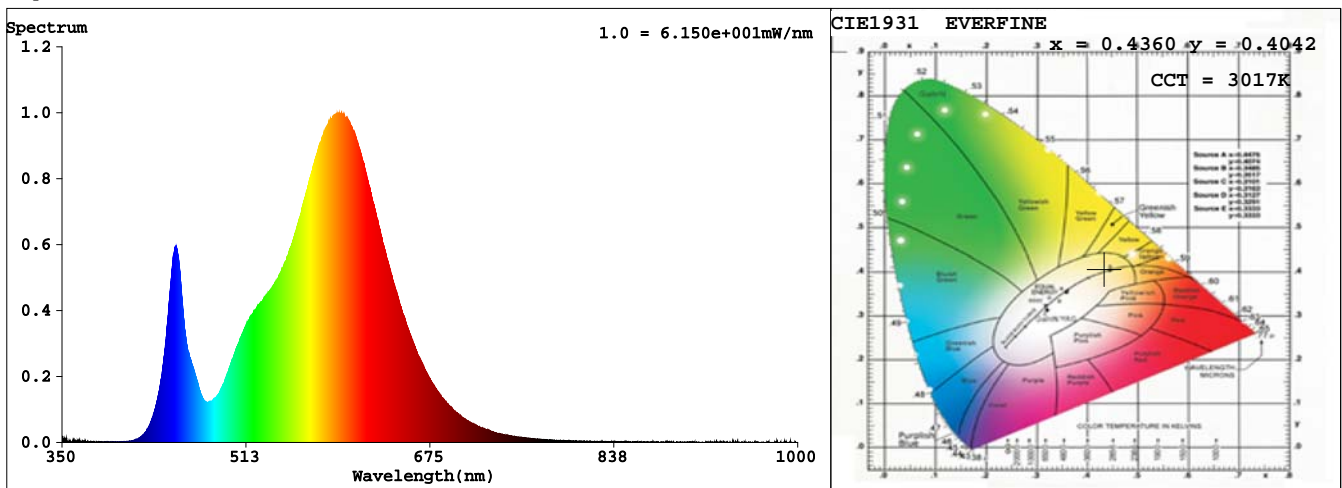
Spectrum Test Report

Sample	:	Date	: 2020-04-02 14:39:58
Specification	: HFB-22	Sam. Status	:
Sample No.	: 46	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	:	Test by	:
		Assessor	: damin

Test Condition

Temperature	: 25Deg	RH	: 65.0%
WL Range	: 350nm-1000nm	IP	: 41181 (63%)
Test Mode	: Fast Test	T	: 164 ms
		Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4360$ $y = 0.4042$ / $u' = 0.2499$ $v' = 0.5213$ ($duv=1.64e-04$)
 CCT= 3017K Prcp WL: $L_d=582.7nm$ Purity=52.2%
 Peak WL: $L_p=595nm$ FWHM: $=100.4nm$ Ratio:R=21.1% G=76.8% B=2.1%

Render Index: $R_a = 72.0$ TM30: $R_f=73$ $R_g=92$

R1 =68 R2 =84 R3 =94 R4 =67 R5 =68 R6 =79 R7 =75
 R8 =39 R9 =0 R10=65 R11=64 R12=55 R13=71 R14=97 R15=59
 LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 2852.9 lm Eff. : 138.00 lm/W $F_e = 7.9792$ W

Electrical parameters

V = 220.5 V I = 0.09920 A P = 20.67 W PF = 0.9451 F=49.99 Hz

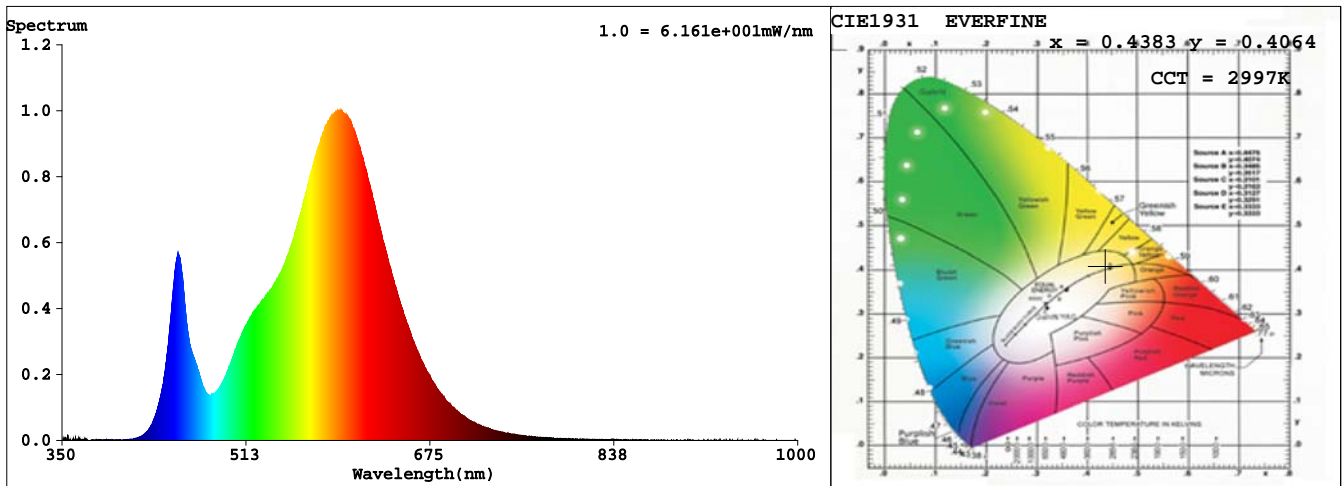
Spectrum Test Report

Sample	:	Date	: 2020-04-02 14:41:17
Specification	: HFB-22	Sam. Status	:
Sample No.	: 47	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	:	Test by	:
		Assessor	: damin

Test Condition

Temperature	: 25Deg	RH	: 65.0%
WL Range	: 350nm-1000nm	IP	: 41224 (63%)
Test Mode	: Fast Test	T	: 164 ms
		Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4383$ $y = 0.4064$ / $u' = 0.2504$ $v' = 0.5225$ ($duv=7.55e-04$)

CCT= 2997K Prcp WL: $L_d=582.6nm$ Purity=53.5%

Peak WL: $L_p=596nm$ FWHM: =99.6nm Ratio:R=21.3% G=76.5% B=2.2%

Render Index: $R_a = 72.0$ TM30:Rf=73 Rg=91

R1 =68 R2 =85 R3 =94 R4 =67 R5 =68 R6 =80 R7 =75

R8 =39 R9 =0 R10=67 R11=63 R12=55 R13=72 R14=97 R15=59

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 2847.5 lm Eff. : 136.44 lm/W $F_e = 7.9403 W$

Electrical parameters

V = 220.5 V I = 0.1002 A P = 20.87 W PF = 0.9443 F=49.99 Hz

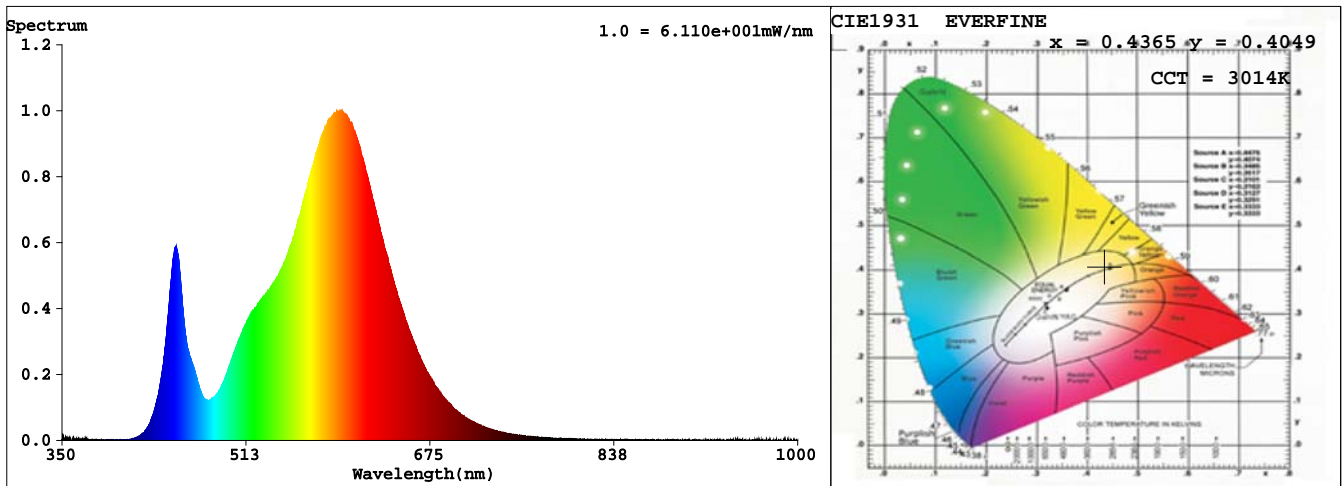
Spectrum Test Report

Sample	:	Date	: 2020-04-02 14:42:11
Specification	: HFB-22	Sam. Status	:
Sample No.	: 48	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	:	Test by	:
		Assessor	: damin

Test Condition

Temperature	: 25Deg	RH	: 65.0%
WL Range	: 350nm-1000nm	IP	: 40935 (62%)
Test Mode	: Fast Test	T	: 164 ms
		Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4365$ $y = 0.4049$ / $u' = 0.2499$ $v' = 0.5216$ ($duv=3.85e-04$)

CCT= 3014K Prcp WL: $L_d=582.6nm$ Purity=52.6%

Peak WL: $L_p=597nm$ FWHM: $=100.6nm$ Ratio:R=21.1% G=76.8% B=2.1%

Render Index: $R_a = 72.0$ TM30: $R_f=73$ $R_g=92$

R1 =68 R2 =84 R3 =94 R4 =67 R5 =68 R6 =79 R7 =75

R8 =39 R9 =0 R10=65 R11=64 R12=55 R13=71 R14=97 R15=59

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 2838.2 lm Eff. : 138.49 lm/W $F_e = 7.9326 W$

Electrical parameters

V = 220.5 V I = 0.09827 A P = 20.49 W PF = 0.9456 F=49.99 Hz

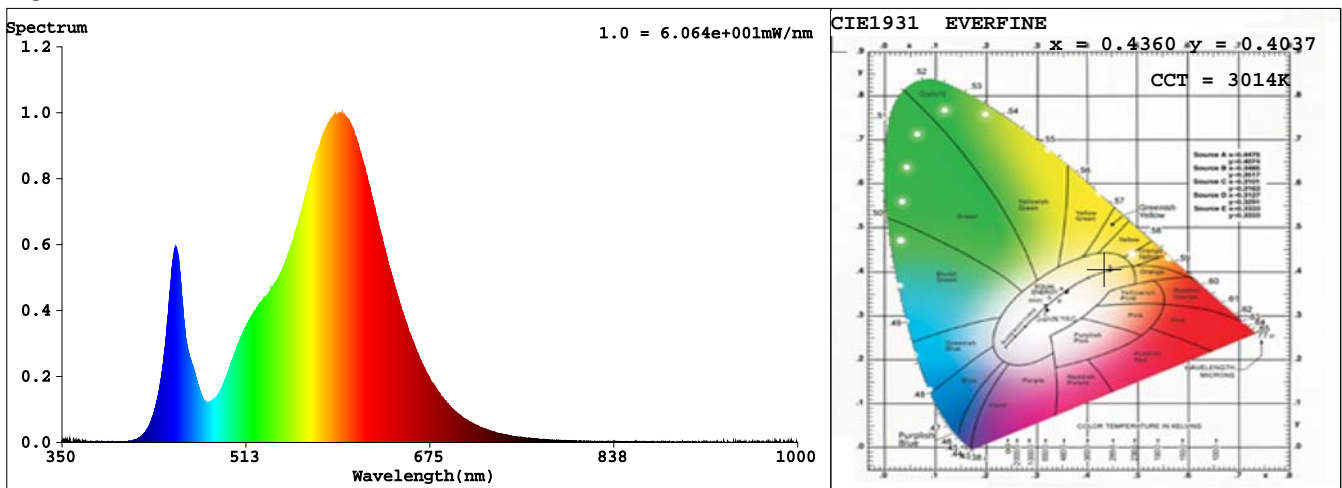
Spectrum Test Report

Sample	:	Date	: 2020-04-02 14:44:22
Specification	: HFB-22	Sam. Status	:
Sample No.	: 49	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	:	Test by	:
		Assessor	: damin

Test Condition

Temperature	: 25Deg	RH	: 65.0%
WL Range	: 350nm-1000nm	IP	: 40658 (62%)
Test Mode	: Fast Test	T	: 164 ms
		Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4360$ $y = 0.4037$ / $u' = 0.2501$ $v' = 0.5211$ ($duv = -5.02e-06$)

CCT= 3014K Prcp WL: $L_d = 582.8nm$ Purity=52.1%

Peak WL: $L_p = 598nm$ FWHM: $= 100.7nm$ Ratio: R=21.2% G=76.7% B=2.1%

Render Index: $R_a = 72.0$ TM30: $R_f = 72$ $R_g = 92$

R1 =68 R2 =84 R3 =94 R4 =67 R5 =68 R6 =79 R7 =75

R8 =39 R9 =0 R10=65 R11=63 R12=56 R13=71 R14=97 R15=59

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 2808.0 lm Eff. : 138.02 lm/W $F_e = 7.8668 W$

Electrical parameters

V = 220.5 V I = 0.09775 A P = 20.34 W PF = 0.9438 F=49.99 Hz