

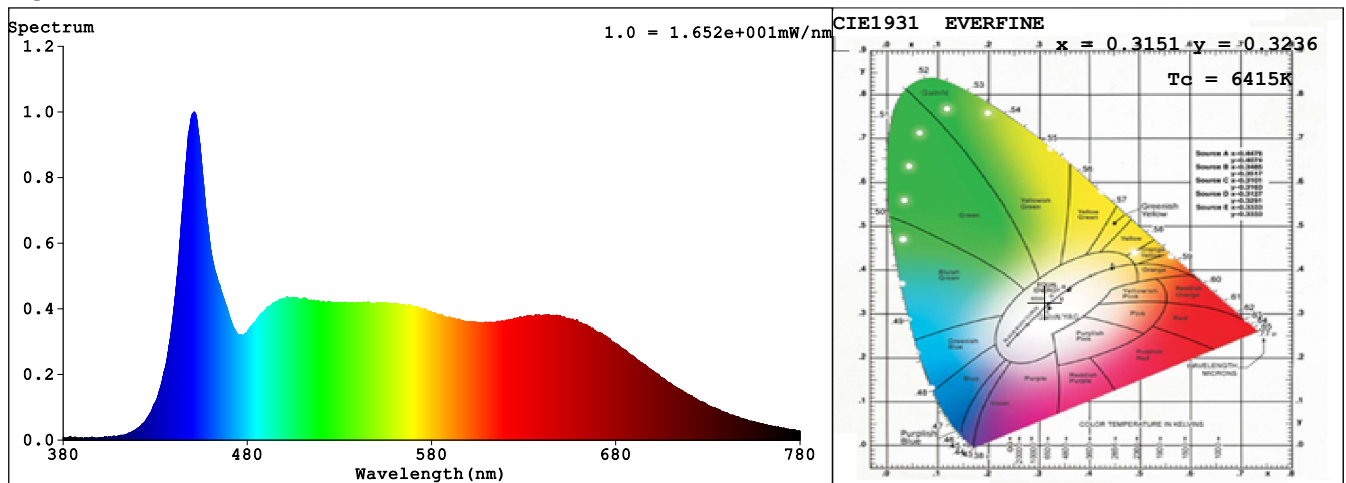
Spectrum Test Report

Sample	:	Date	: 2020-09-09 14:22:22
Specification	:	Sam. Status	:
Sample No.	: #2-CW	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: L

Test Condition

Temperature	: Deg	RH	: %
WL Range	: 380nm-780nm	IP	: 5968 (9%)
Test Mode	: Fast Test	T	: 62 ms
		Delicacy	: Low

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Quantities

Chromaticity Coordinate: $x = 0.3151$ $y = 0.3236$ / $u' = 0.2015$ $v' = 0.4658$ ($duv = -8.16e-04$)

$T_c = 6415K$ Prcp WL: $\lambda_d = 484.5nm$ Purity=7.0%

Peak WL: $\lambda_p = 451nm$ Half Width: $\Delta\lambda_p = 21.4nm$ Ratio: R=17.1% G=76.5% B=6.5%

Render Index: $R_a = 97.2$

R1 =97	R2 =98	R3 =97	R4 =99	R5 =97	R6 =95	R7 =99	
R8 =95	R9 =85	R10=98	R11=96	R12=77	R13=98	R14=98	R15=94

Photometric & Radiometric Quantities

Flux = 484.52 lm Eff. : 68.95 lm/W $F_e = 1.9331 W$

Flux of emitted photons($\mu mol/s$):0.90808 Fluo. and blue light ratio:3.497 Fluorescent eff.:21.40

Electrical parameters

$V = 12.00 V$ $I = 0.5857 A$ $P = 7.027 W$ PF = 1.000

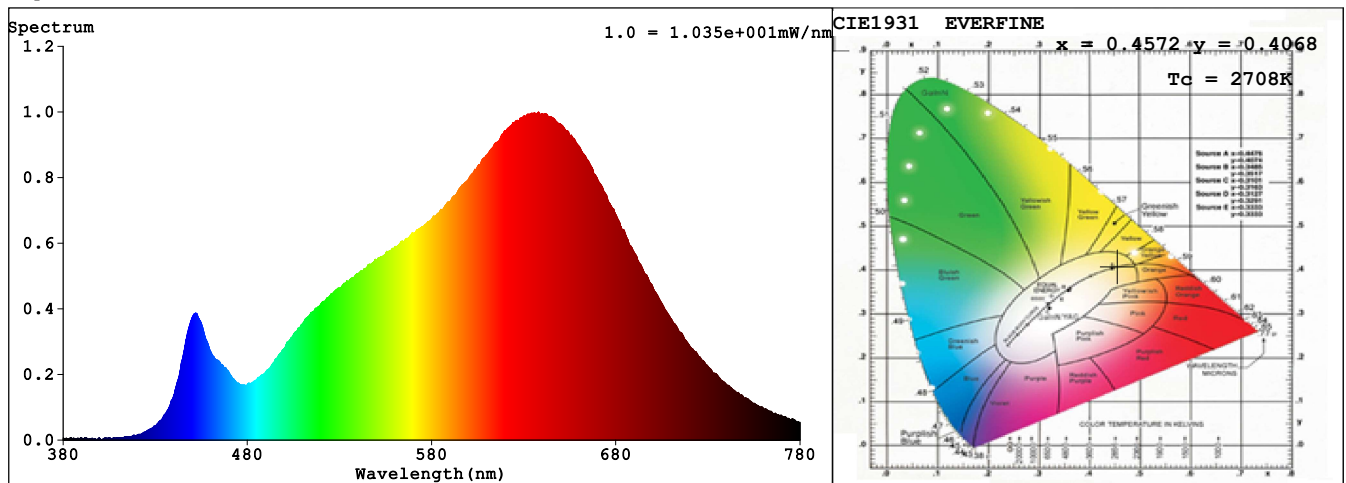
Spectrum Test Report

Sample	:	Date	:	2020-09-09 14:22:57
Specification	:	Sam. Status	:	
Sample No.	:	Instrument	:	HaasSuite(EVERFINE)
Manufacturer	:	Test by	:	L

Test Condition

Temperature	:	Deg	RH	:	%
WL Range	:	380nm-780nm	IP	:	5228 (8%)
Test Mode	:	Fast Test	T	:	62 ms
			Delicacy	:	Low

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Quantities

Chromaticity Coordinate: $x = 0.4572$ $y = 0.4068$ / $u' = 0.2625$ $v' = 0.5255$ ($duv = -1.17e-03$)

$T_c = 2708K$ Prcp WL: $\lambda_d = 584.5nm$ Purity=59.4%

Peak WL: $\lambda_p = 638nm$ Half Width: $\Delta\lambda_p = 158.6nm$ Ratio: R=28.3% G=69.5% B=2.2%

Render Index: $R_a = 96.6$

R1 =98	R2 =98	R3 =96	R4 =97	R5 =97	R6 =97	R7 =97	
R8 =93	R9 =84	R10=94	R11=97	R12=86	R13=98	R14=97	R15=96

Photometric & Radiometric Quantities

Flux = 450.47 lm Eff. : 64.04 lm/W $F_e = 1.7572 W$

Flux of emitted photons($\mu mol/s$):0.89214 Fluo. and blue light ratio:14.03 Fluorescent eff.:23.32

Electrical parameters

V = 12.00 V I = 0.5863 A P = 7.034 W PF = 1.000

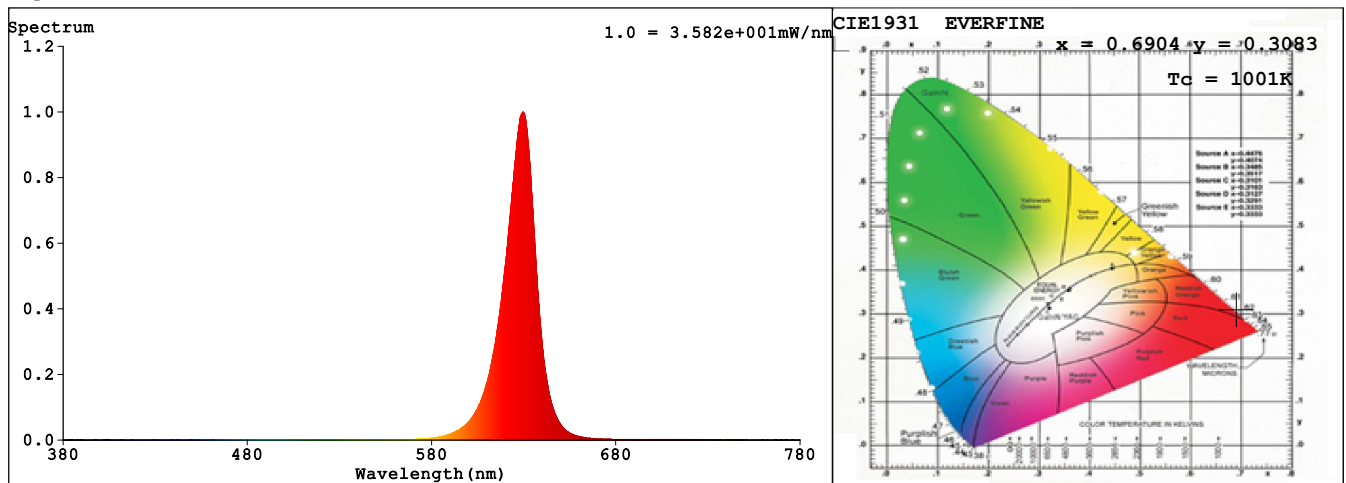
Spectrum Test Report

Sample	:	Date	: 2020-09-09 14:23:45
Specification	:	Sam. Status	:
Sample No.	: #2-R	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: L

Test Condition

Temperature	: Deg	RH	: %
WL Range	: 380nm-780nm	IP	: 18267 (28%)
Test Mode	: Fast Test	T	: 62 ms
		Delicacy	: Low

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Quantities

Chromaticity Coordinate: $x = 0.6904$ $y = 0.3083$ / $u' = 0.5193$ $v' = 0.5217$ ($duv = -7.17e-02$)

$T_c = 1001K$ Prcp WL: $\lambda_d = 620.0nm$ Purity=99.7%

Peak WL: $\lambda_p = 630nm$ Half Width: $\Delta\lambda_p = 17.8nm$ Ratio: R=95.4% G=4.5% B=0.0%

Render Index: $R_a = 28.9$

R1 =11	R2 =79	R3 =34	R4 =0	R5 =7	R6 =91	R7 =9	
R8 =0	R9 =0	R10=73	R11=0	R12=78	R13=33	R14=62	R15=0

Photometric & Radiometric Quantities

Flux = 163.39 lm Eff. : 35.85 lm/W $F_e = 771.39 mW$

Flux of emitted photons($\mu mol/s$):0.40349 Fluo. and blue light ratio:6318 Fluorescent eff.:16.92

Electrical parameters

V = 12.00 V I = 0.3799 A P = 4.558 W PF = 1.000

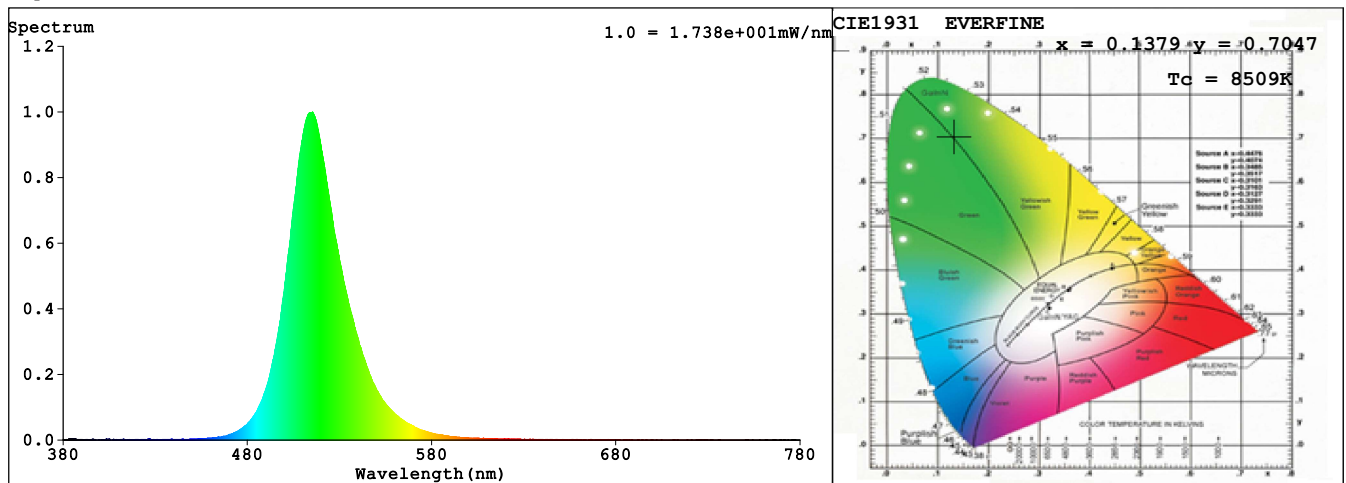
Spectrum Test Report

Sample :	Date :	2020-09-09 14:24:14
Specification :	Sam. Status :	
Sample No. : #2-G	Instrument :	HaasSuite(EVERFINE)
Manufacturer :	Test by :	L

Test Condition

Temperature : Deg	RH : %
WL Range : 380nm-780nm	IP : 8991 (14%)
Test Mode : Fast Test	T : 62 ms
	Delicacy : Low

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Quantities

Chromaticity Coordinate: $x = 0.1379$ $y = 0.7047$ / $u' = 0.0493$ $v' = 0.5673$ ($duv=1.64e-01$)

$T_c = 8509K$ Prcp WL: $\lambda_d = 519.5nm$ Purity=74.3%

Peak WL: $\lambda_p = 515nm$ Half Width: $\Delta\lambda_p = 30.9nm$ Ratio: R=0.3% G=96.9% B=2.8%

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=39 R15=0

Photometric & Radiometric Quantities

Flux = 281.57 lm Eff. : 62.05 lm/W $F_e = 645.81 mW$

Flux of emitted photons($\mu mol/s$):0.28013 Fluo. and blue light ratio:66.00 Fluorescent eff.:14.02

Electrical parameters

V = 12.00 V I = 0.3782 A P = 4.538 W PF = 1.000

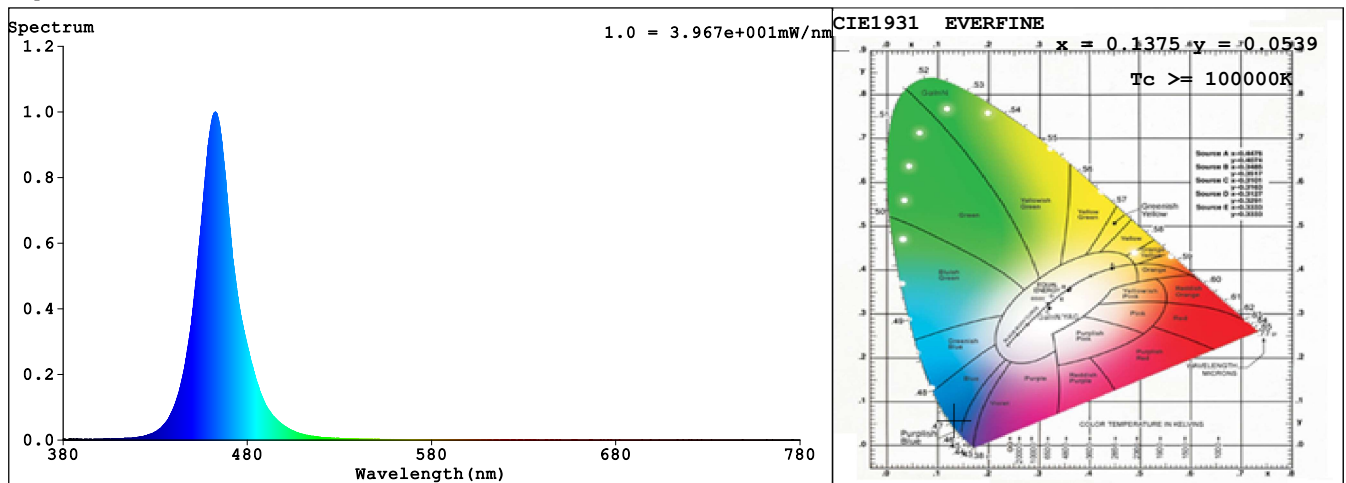
Spectrum Test Report

Sample :	Date :	2020-09-09 14:24:40
Specification :	Sam. Status :	
Sample No. : #2-B	Instrument :	HaasSuite(EVERFINE)
Manufacturer :	Test by :	L

Test Condition

Temperature : Deg	RH : %
WL Range : 380nm-780nm	IP : 16000 (24%)
Test Mode : Fast Test	T : 62 ms
	Delicacy : Low

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Quantities

Chromaticity Coordinate: $x = 0.1375$ $y = 0.0539$ / $u' = 0.1631$ $v' = 0.1438$ ($duv=1.71e-01$)

$T_c \geq 1000000K$ Prcp WL: $\lambda_d=466.9nm$ Purity=97.1%

Peak WL: $\lambda_p=463nm$ Half Width: $\Delta\lambda_p=20.9nm$ Ratio: R=0.5% G=16.2% B=83.4%

Render Index: $R_a = 0.3$

R1 =0	R2 =0	R3 =0	R4 =0	R5 =3	R6 =0	R7 =0	
R8 =0	R9 =0	R10=0	R11=0	R12=0	R13=0	R14=0	R15=1

Photometric & Radiometric Quantities

Flux = 65.242 lm Eff. : 14.17 lm/W $F_e = 1.0413 W$

Flux of emitted photons($\mu mol/s$):0.40427 Fluo. and blue light ratio:0.1395 Fluorescent eff.:2.771

Electrical parameters

V = 12.00 V I = 0.3838 A P = 4.605 W PF = 1.000