

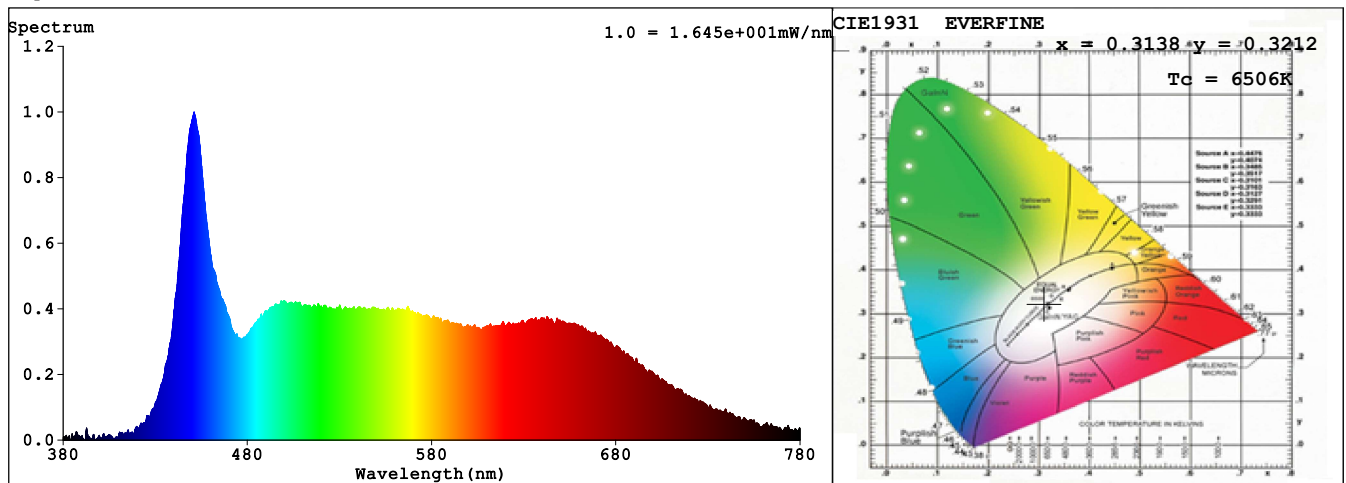
## Spectrum Test Report

Sample	:	Date	: 2020-09-14 10:46:46
Specification	:	Sam. Status	:
Sample No.	: #1-CW	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: L

### Test Condition

Temperature	: Deg	RH	: %
WL Range	: 380nm-780nm	IP	: 959 (1%)
Test Mode	: Fast Test	T	: 10 ms
		Delicacy	: Low

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.3138$   $y = 0.3212$  /  $u' = 0.2016$   $v' = 0.4642$  ( $duv = -1.44e-03$ )  
 $T_c = 6506K$  Prcp WL:  $\lambda_d = 483.2nm$  Purity=7.6%  
 Peak WL:  $\lambda_p = 451nm$  Half Width:  $\Delta\lambda_p = 20.6nm$  Ratio: R=17.1% G=76.3% B=6.6%

Render Index:  $R_a = 96.7$

R1 =96	R2 =98	R3 =97	R4 =98	R5 =97	R6 =95	R7 =99	
R8 =94	R9 =81	R10=97	R11=95	R12=77	R13=97	R14=98	R15=93

### Photometric & Radiometric Quantities

Flux = 463.63 lm Eff. : 65.67 lm/W  $F_e = 1.8640 W$   
 Flux of emitted photons( $\mu mol/s$ ):0.87505 Fluo. and blue light ratio:3.473 Fluorescent eff.:20.50

### Electrical parameters

$V = 24.00 V$   $I = 0.2942 A$   $P = 7.060 W$  PF = 1.000

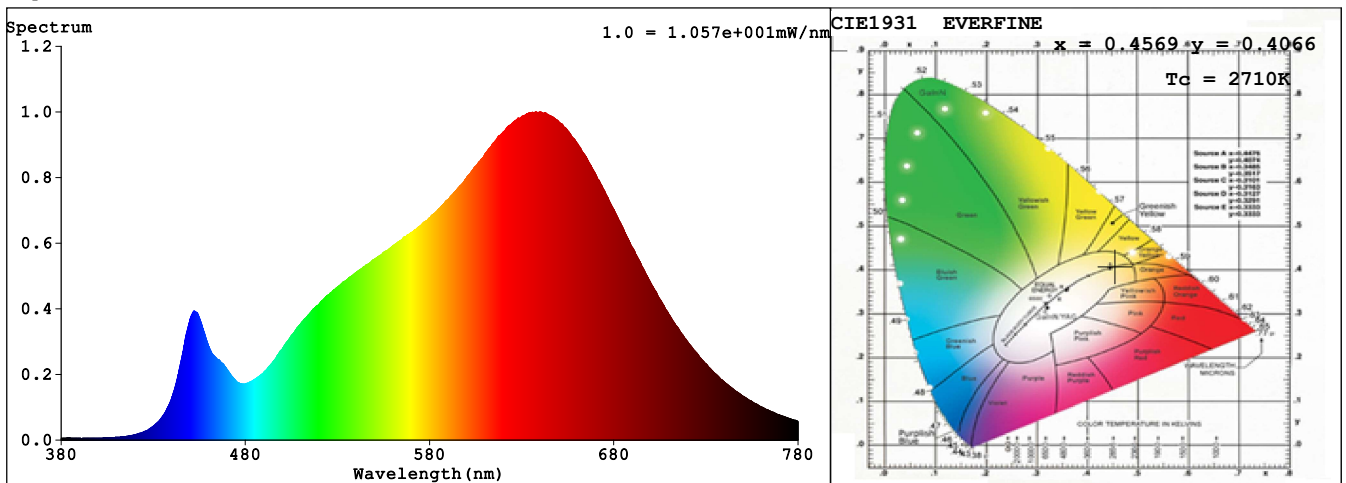
## Spectrum Test Report

Sample :	Date :	2020-09-14 10:47:52
Specification :	Sam. Status :	
Sample No. : #1-WW	Instrument :	HaasSuite(EVERFINE)
Manufacturer :	Test by :	L

### Test Condition

Temperature : Deg	RH : %
WL Range : 380nm-780nm	IP : 47632 (73%)
Test Mode : Fast Test	T : 96 ms
	Delicacy : High

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.4569$   $y = 0.4066$  /  $u' = 0.2624$   $v' = 0.5254$  ( $duv = -1.25e-03$ )

Tc= 2710K Prcp WL:  $\lambda_d = 584.6\text{nm}$  Purity=59.2%

Peak WL:  $\lambda_p = 640\text{nm}$  Half Width:  $\Delta\lambda_p = 160.3\text{nm}$  Ratio: R=28.3% G=69.5% B=2.2%

Render Index: Ra = 96.6

R1 =98	R2 =98	R3 =96	R4 =97	R5 =97	R6 =97	R7 =97	
R8 =93	R9 =85	R10=94	R11=97	R12=85	R13=98	R14=97	R15=96

### Photometric & Radiometric Quantities

Flux = 462.00 lm Eff. : 65.22 lm/W Fe = 1.8140 W

Flux of emitted photons( $\mu\text{mol/s}$ ):0.92176 Fluo. and blue light ratio:13.82 Fluorescent eff.:23.88

### Electrical parameters

V = 24.00 V I = 0.2952 A P = 7.084 W PF = 1.000

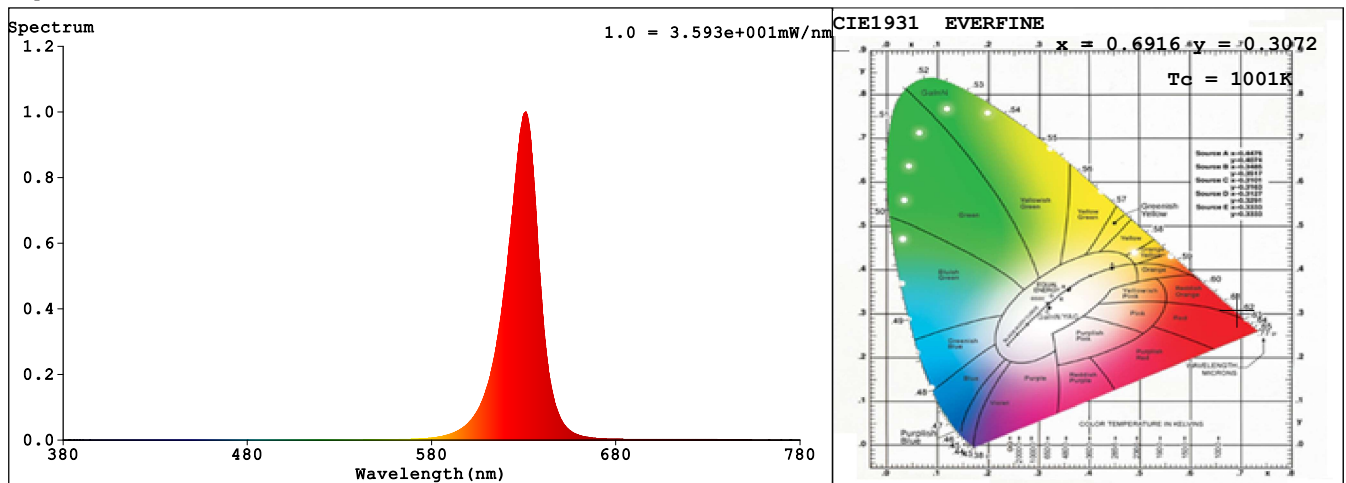
## Spectrum Test Report

Sample :	Date :	2020-09-14 10:48:45
Specification :	Sam. Status :	
Sample No. : #1-R	Instrument :	HaasSuite(EVERFINE)
Manufacturer :	Test by :	L

### Test Condition

Temperature : Deg	RH : %
WL Range : 380nm-780nm	IP : 52638 (80%)
Test Mode : Fast Test	T : 31 ms
	Delicacy : High

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.6916$   $y = 0.3072$  /  $u' = 0.5216$   $v' = 0.5214$  ( $duv = -7.41e-02$ )

$T_c = 1001K$  Prcp WL:  $\lambda_d = 620.6nm$  Purity=99.7%

Peak WL:  $\lambda_p = 631nm$  Half Width:  $\Delta\lambda_p = 18.4nm$  Ratio: R=95.2% G=4.8% B=0.0%

Render Index:  $R_a = 30.8$

R1 =14	R2 =80	R3 =37	R4 =0	R5 =11	R6 =92	R7 =13	
R8 =0	R9 =0	R10=74	R11=0	R12=78	R13=35	R14=64	R15=0

### Photometric & Radiometric Quantities

Flux = 162.29 lm Eff. : 34.65 lm/W  $F_e = 798.89$  mW

Flux of emitted photons( $\mu mol/s$ ):0.4188 Fluo. and blue light ratio:5441 Fluorescent eff.:17.05

### Electrical parameters

V = 24.00 V I = 0.1952 A P = 4.684 W PF = 1.000

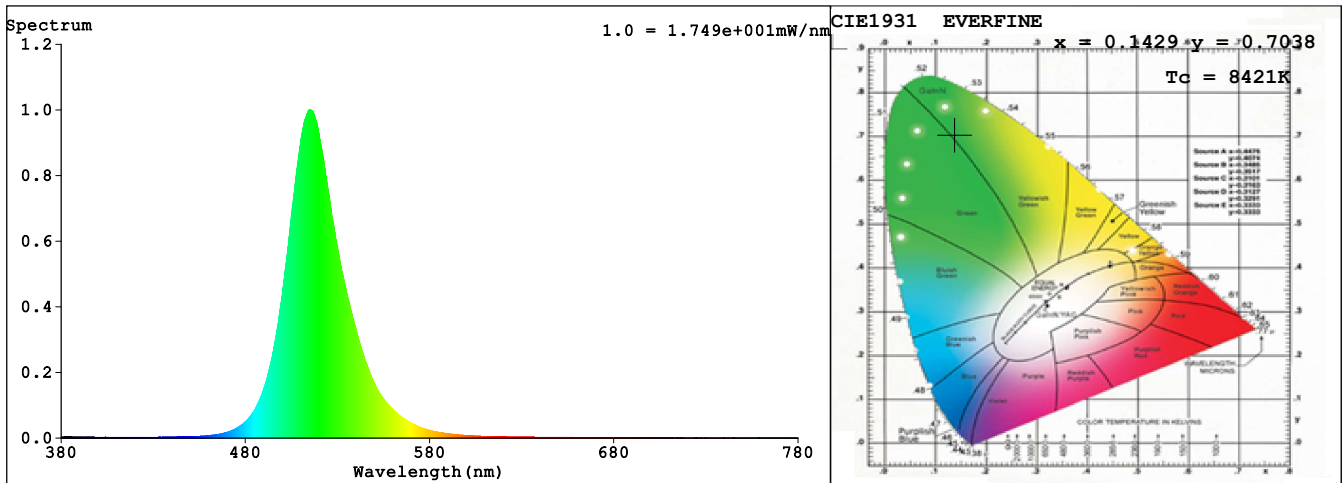
## Spectrum Test Report

Sample :	Date :	2020-09-14 10:49:22
Specification :	Sam. Status :	
Sample No. : #1-G	Instrument :	HaasSuite(EVERFINE)
Manufacturer :	Test by :	L

### Test Condition

Temperature : Deg	RH : %
WL Range : 380nm-780nm	IP : 52902 (81%)
Test Mode : Fast Test	T : 64 ms
	Delicacy : High

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.1429, y = 0.7038 / u' = 0.0512, v' = 0.5676$  (duv=1.63e-01)

$T_c = 8421K$  Prcp WL:  $\lambda_d = 520.2nm$  Purity=74.0%

Peak WL:  $\lambda_p = 515nm$  Half Width:  $\Delta\lambda_p = 31.4nm$  Ratio: R=0.4% G=97.0% B=2.7%

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

### Photometric & Radiometric Quantities

Flux = 291.65 lm Eff. : 63.46 lm/W Fe = 661.44 mW

Flux of emitted photons( $\mu mol/s$ ): 0.28723 Fluo. and blue light ratio: 57.02 Fluorescent eff.: 14.15

### Electrical parameters

V = 24.00 V I = 0.1915 A P = 4.596 W PF = 1.000

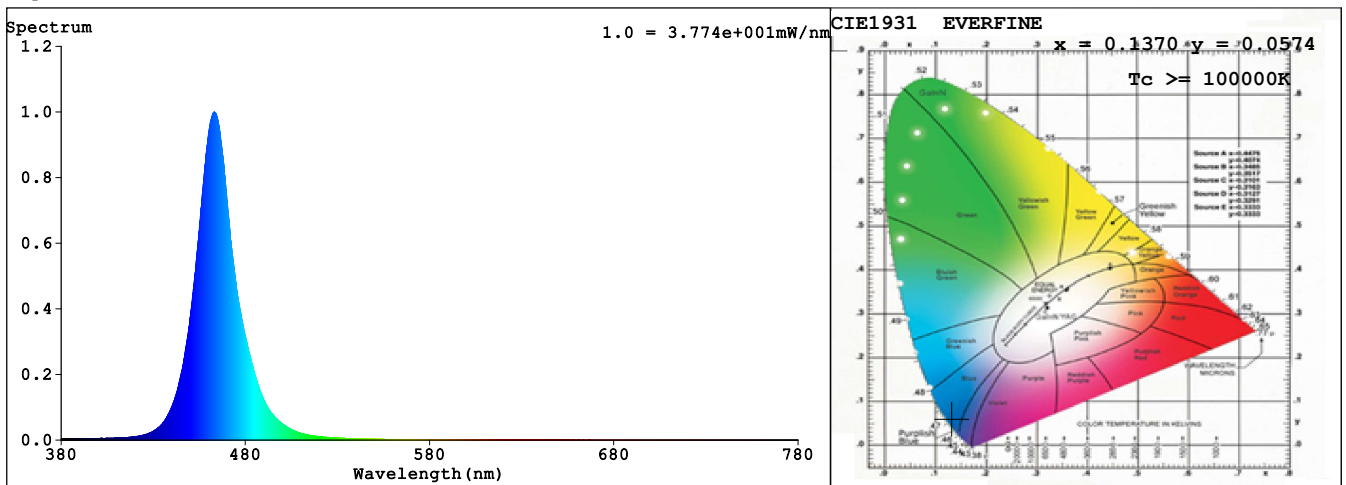
## Spectrum Test Report

Sample :	Date :	2020-09-14 10:49:56
Specification :	Sam. Status :	
Sample No. : #1-B	Instrument :	HaasSuite(EVERFINE)
Manufacturer :	Test by :	L

### Test Condition

Temperature : Deg	RH : %
WL Range : 380nm-780nm	IP : 55819 (85%)
Test Mode : Fast Test	T : 40 ms
	Delicacy : High

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.1370$   $y = 0.0574$  /  $u' = 0.1605$   $v' = 0.1512$  ( $duv=1.66e-01$ )

$T_c \geq 1000000K$  Prcp WL:  $\lambda_d=467.5nm$  Purity=96.7%

Peak WL:  $\lambda_p=463nm$  Half Width:  $\Delta\lambda_p=21.8nm$  Ratio: R=0.6% G=18.6% B=80.9%

Render Index:  $R_a = 0.7$

R1 =0	R2 =0	R3 =0	R4 =0	R5 =5	R6 =0	R7 =0	
R8 =0	R9 =0	R10=0	R11=0	R12=0	R13=0	R14=0	R15=2

### Photometric & Radiometric Quantities

Flux = 67.830 lm Eff. : 14.31 lm/W  $F_e = 1.0333 W$

Flux of emitted photons( $\mu mol/s$ ):0.40172 Flu. and blue light ratio:0.1566 Fluorescent eff.:2.955

### Electrical parameters

V = 24.00 V I = 0.1975 A P = 4.740 W PF = 1.000