

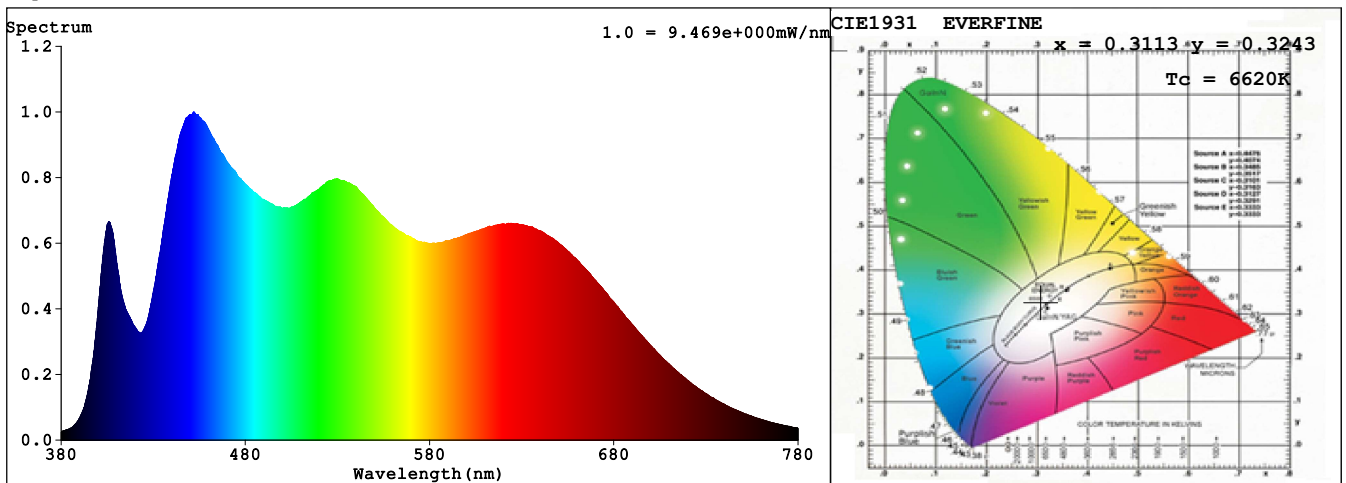
## Spectrum Test Report

Sample	:	Date	: 2020-01-15 13:07:20
Specification	:	Sam. Status	:
Sample No.	: #1-CW	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: L

### Test Condition

Temperature	: Deg	RH	: %
WL Range	: 380nm-780nm	IP	: 57431 (88%)
Test Mode	: Fast Test	T	: 848 ms
		Delicacy	: Low

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.3113$   $y = 0.3243$  /  $u' = 0.1986$   $v' = 0.4656$  ( $duv=1.49e-03$ )

$T_c = 6620K$  Prcp WL:  $\lambda_d = 486.3nm$  Purity=8.1%

Peak WL:  $\lambda_p = 452nm$  Half Width:  $\Delta\lambda_p = 236.3nm$  Ratio: R=17.5% G=75.6% B=7.0%

Render Index:  $R_a = 95.6$

R1 =94	R2 =97	R3 =97	R4 =95	R5 =95	R6 =97	R7 =97	
R8 =93	R9 =79	R10=96	R11=94	R12=92	R13=94	R14=98	R15=92

### Photometric & Radiometric Quantities

Flux = 473.13 lm Eff. : 53.18 lm/W  $F_e = 1.9574 W$

Flux of emitted photons( $\mu mol/s$ ):0.89617 Fluo. and blue light ratio:1.836 Fluorescent eff.:14.25

### Electrical parameters

$V = 24.00 V$   $I = 0.3707 A$   $P = 8.896 W$  PF = 1.000

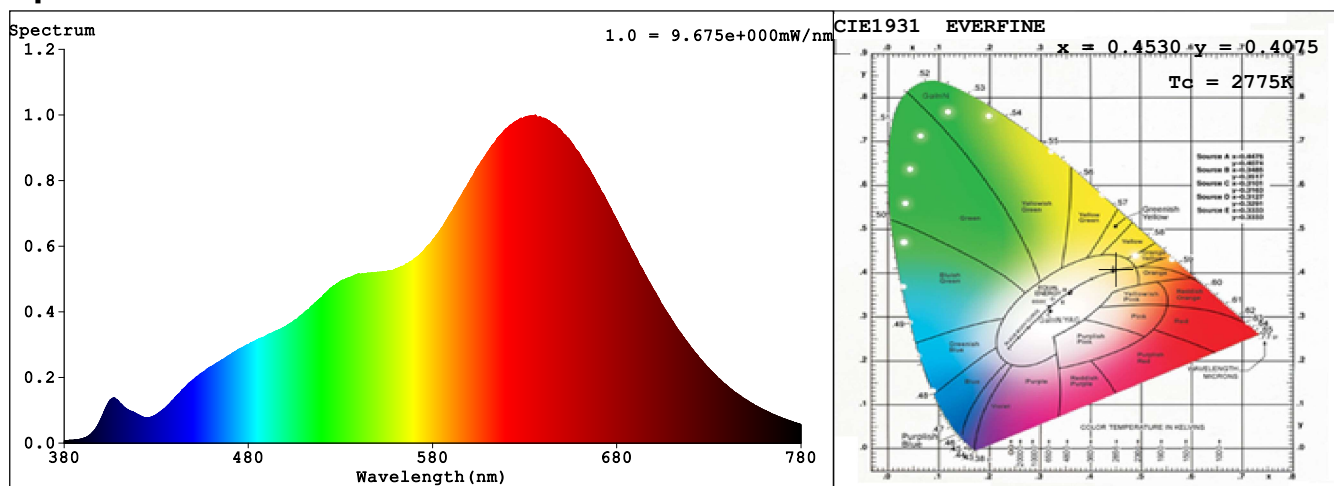
## Spectrum Test Report

Sample :	Date :	2020-01-15 13:08:07
Specification :	Sam. Status :	
Sample No. : #1-WW	Instrument :	HaasSuite(EVERFINE)
Manufacturer :	Test by :	L

### Test Condition

Temperature : Deg	RH : %
WL Range : 380nm-780nm	IP : 55887 (85%)
Test Mode : Fast Test	T : 682 ms
	Delicacy : Low

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.4530$   $y = 0.4075$  /  $u' = 0.2594$   $v' = 0.5251$  ( $duv = -5.42e-04$ )  
 $T_c = 2775K$  Prcp WL:  $\lambda_d = 584.0nm$  Purity=58.3%  
 Peak WL:  $\lambda_p = 636nm$  Half Width:  $\Delta\lambda_p = 164.1nm$  Ratio: R=28.9% G=68.2% B=2.9%

Render Index:  $R_a = 95.1$

R1 =94	R2 =96	R3 =99	R4 =94	R5 =93	R6 =91	R7 =97	
R8 =98	R9 =98	R10=91	R11=89	R12=87	R13=94	R14=99	R15=97

### Photometric & Radiometric Quantities

Flux = 416.38 lm Eff. : 46.23 lm/W  $F_e = 1.6778 W$   
 Flux of emitted photons( $\mu mol/s$ ):0.84582 Fluo. and blue light ratio:11.66 Fluorescent eff.:17.16

### Electrical parameters

V = 24.00 V I = 0.3753 A P = 9.006 W PF = 1.000

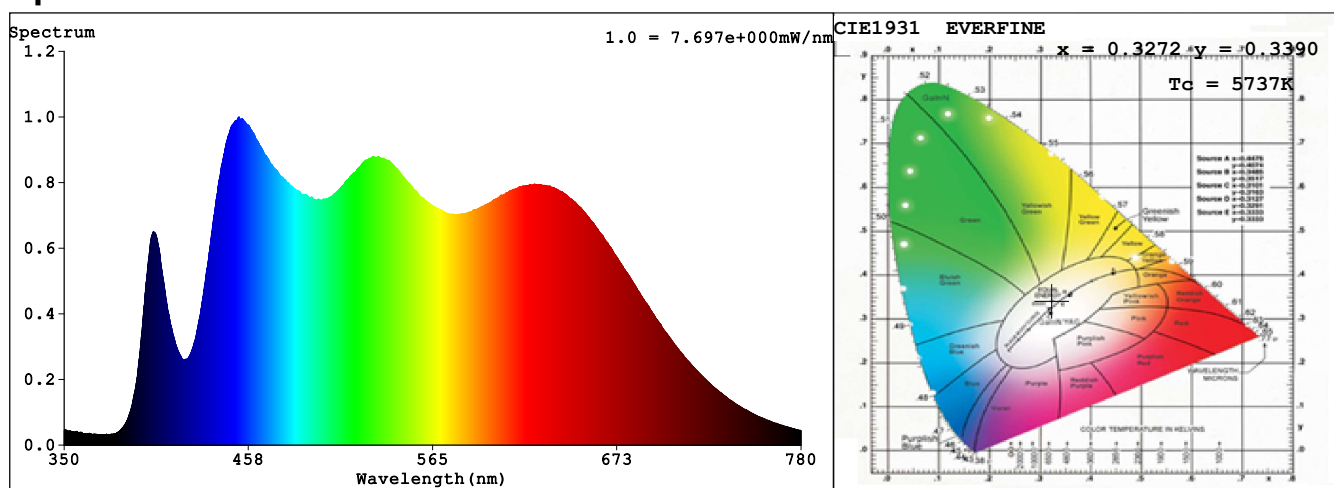
## Spectrum Test Report

Sample	:	Date	:	2020-08-05 10:37:41
Specification	:	Sam. Status	:	
Sample No.	:	Instrument	:	HaasSuite(EVERFINE)
Manufacturer	:	Test by	:	L

### Test Condition

Temperature	:	Deg	RH	:	%
WL Range	:	350nm-780nm	IP	:	58387 (89%)
Test Mode	:	Fast Test	T	:	993 ms
			Delicacy	:	Low

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.3272$   $y = 0.3390$  /  $u' = 0.2041$   $v' = 0.4757$  ( $duv=1.32e-03$ )  
 $T_c = 5737K$  Prcp WL:  $\lambda_d = 504.2nm$  Purity=1.9%  
 Peak WL:  $\lambda_p = 452nm$  Half Width:  $\Delta\lambda_p = 249.1nm$  Ratio: R=18.5% G=75.2% B=6.3%

Render Index:  $R_a = 96.2$

R1 =94	R2 =97	R3 =97	R4 =95	R5 =96	R6 =97	R7 =98	
R8 =94	R9 =84	R10=97	R11=94	R12=92	R13=95	R14=98	R15=94

### Photometric & Radiometric Quantities

Flux = 425.80 lm Eff. : 56.15 lm/W Fe = 1.7352 W

### Electrical parameters

V = 24.00 V I = 0.3160 A P = 7.583 W PF = 1.000

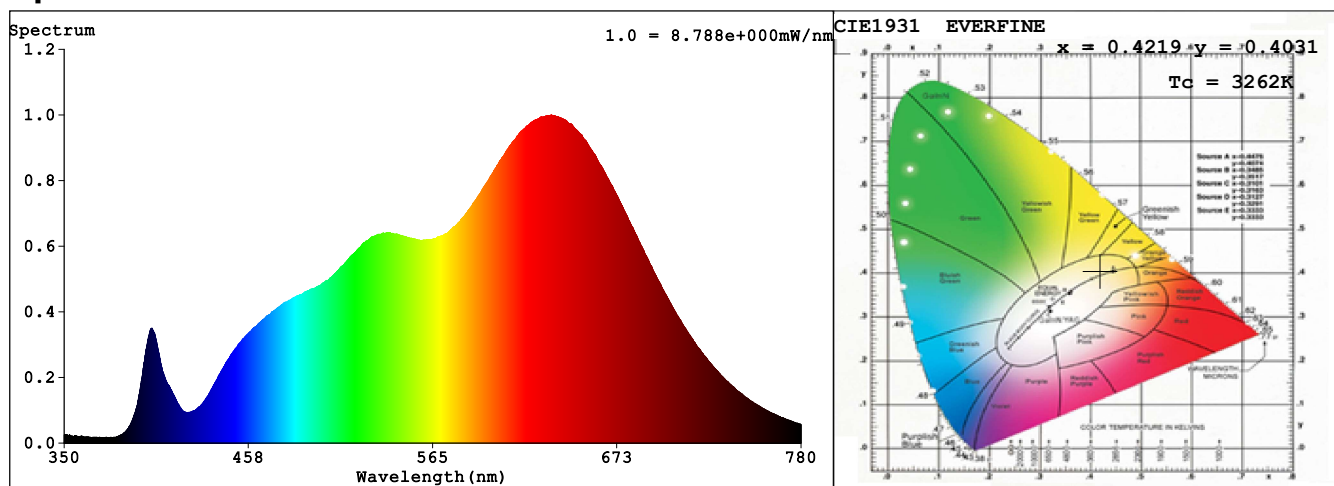
## Spectrum Test Report

Sample :	Date :	2020-08-05 10:39:13
Specification :	Sam. Status :	
Sample No. : 1-WW	Instrument :	HaasSuite(EVERFINE)
Manufacturer :	Test by :	L

### Test Condition

Temperature : Deg	RH : %
WL Range : 350nm-780nm	IP : 55918 (85%)
Test Mode : Fast Test	T : 779 ms
	Delicacy : Low

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.4219$   $y = 0.4031$  /  $u' = 0.2413$   $v' = 0.5188$  ( $duv=1.98e-03$ )  
 $T_c = 3262K$  Prcp WL:  $\lambda_d = 581.0nm$  Purity=47.6%  
 Peak WL:  $\lambda_p = 634nm$  Half Width:  $\Delta\lambda_p = 191.7nm$  Ratio: R=25.7% G=70.6% B=3.7%

Render Index:  $R_a = 94.4$

R1 =93	R2 =96	R3 =98	R4 =93	R5 =93	R6 =93	R7 =96	
R8 =95	R9 =92	R10=92	R11=90	R12=91	R13=93	R14=98	R15=95

### Photometric & Radiometric Quantities

Flux = 419.98 lm Eff. : 51.87 lm/W Fe = 1.6715 W

### Electrical parameters

V = 24.00 V I = 0.3374 A P = 8.097 W PF = 1.000