



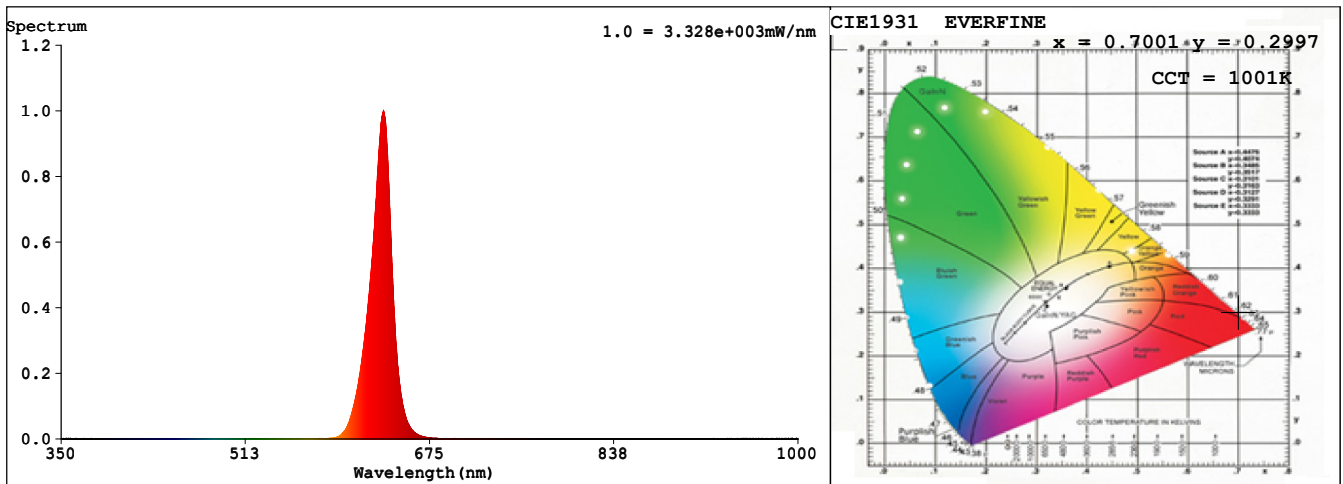
# Spectrum Test Report

Sample : Date : 2024-01-06 11:15:08  
 Specification : SERA RGBL-strobe 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 : 57677 (88%)  
 Test Mode : Fast Test T : 9 ms  
 Sensitivity : High

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.7001$   $y = 0.2997$  /  $u' = 0.5390$   $v' = 0.5191$  ( $duv = -9.15e-02$ )

CCT= 1001K Prcp WL:  $L_d = 624.8nm$  Purity=99.9%

Peak WL:  $L_p = 634nm$  FWHM: =19.1nm Ratio:R=98.6% G=1.4% B=0.0%

Render Index:  $R_a = 24.5$

$R_1 = 2$     $R_2 = 78$     $R_3 = 27$     $R_4 = 0$     $R_5 = 0$     $R_6 = 89$     $R_7 = 0$   
 $R_8 = 0$     $R_9 = 0$     $R_{10} = 72$     $R_{11} = 0$     $R_{12} = 80$     $R_{13} = 28$     $R_{14} = 57$     $R_{15} = 0$

LEVEL:OUT WHITE:OUT

## Photometric & Radiometric Parameters

Flux = 13496 lm Eff. : 47.91 lm/W Fe = 75.418 W

## Electrical parameters

V = 239.5 V I = 1.667 A P = 281.7 W PF = 0.7053

Freq=50.01 Hz



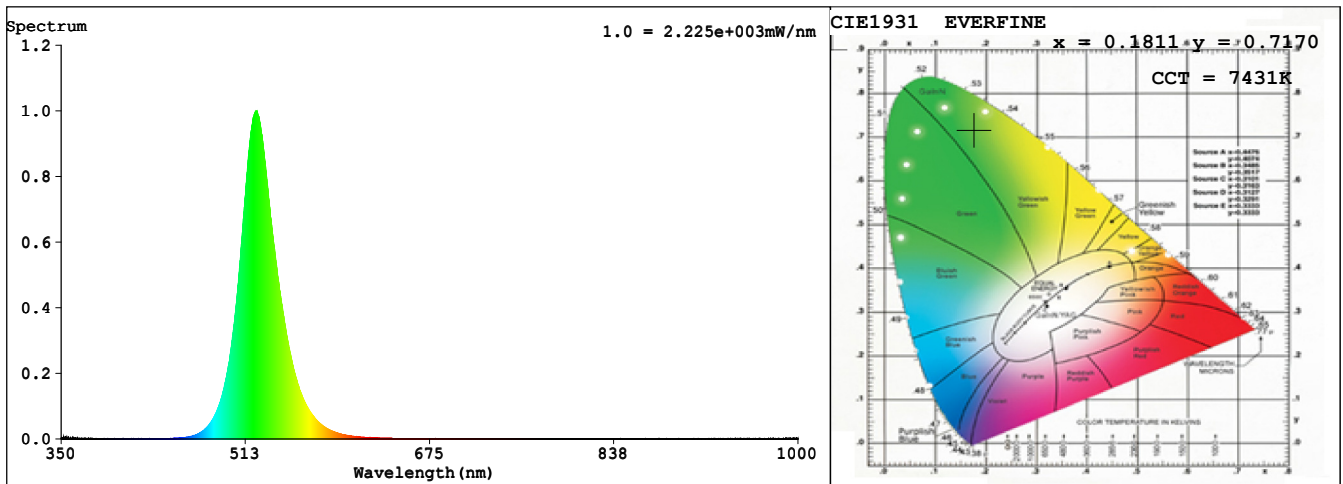
# Spectrum Test Report

Sample : Date : 2024-01-06 11:15:20  
 Specification : SERA RGBL-strobe Sam. Status :  
 Sample No. : G Instrument : HAAS-2000(EVERFINE)  
 Manufacturer : CLF Test by : DANNY  
 Assessor : damin

## Test Condition

Temperature : 28Deg RH : 65.0%  
 WL Range : 350nm-1000nm IP : 48162 (73%)  
 Test Mode : Fast Test T : 9 ms  
 Sensitivity : High

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.1811$   $y = 0.7170$  /  $u' = 0.0644$   $v' = 0.5740$  ( $duv=1.53e-01$ )

CCT= 7431K Prcp WL:  $L_d=528.6nm$  Purity=80.1%

Peak WL:  $L_p=523nm$  FWHM: =34.1nm Ratio:R=0.3% G=97.6% B=2.1%

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=45 R15=0

LEVEL:OUT WHITE:OUT

## Photometric & Radiometric Parameters

Flux = 44925 lm Eff. : 153.61 lm/W Fe = 90.788 W

## Electrical parameters

V = 239.6 V I = 1.852 A P = 292.5 W PF = 0.6593

Freq=50.01 Hz



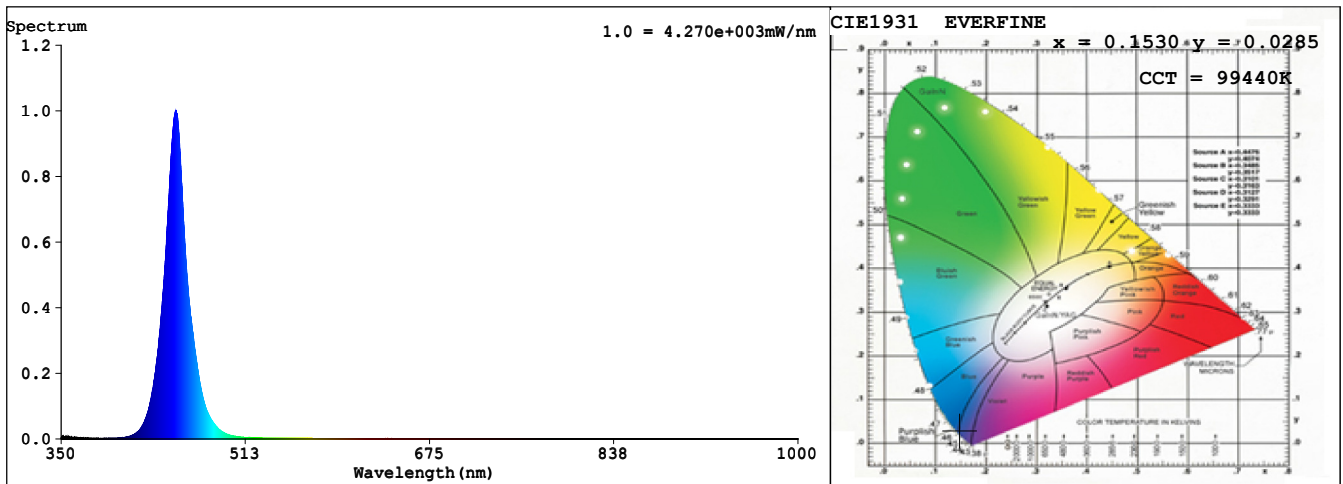
# Spectrum Test Report

Sample	:	Date	: 2024-01-06 11:17:55
Specification	: SERA RGBL-strobe	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	: 59621 (91%)
Test Mode	: Fast Test	T	: 9 ms
		Sensitivity	: High

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.1530$   $y = 0.0285$  /  $u' = 0.2016$   $v' = 0.0844$  ( $duv = -2.11e-01$ )

CCT= 99440K Prcp WL: Ld=455.7nm Purity=98.4%

Peak WL: Lp=451nm FWHM: =19.9nm Ratio:R=1.0% G=12.4% B=86.6%

Render Index: Ra = 1.2

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

LEVEL:OUT WHITE:OUT

## Photometric & Radiometric Parameters

Flux = 4053.0 lm Eff. : 16.97 lm/W Fe = 107.99 W

## Electrical parameters

V = 239.7 V I = 1.400 A P = 238.8 W PF = 0.7116

Freq=50.01 Hz



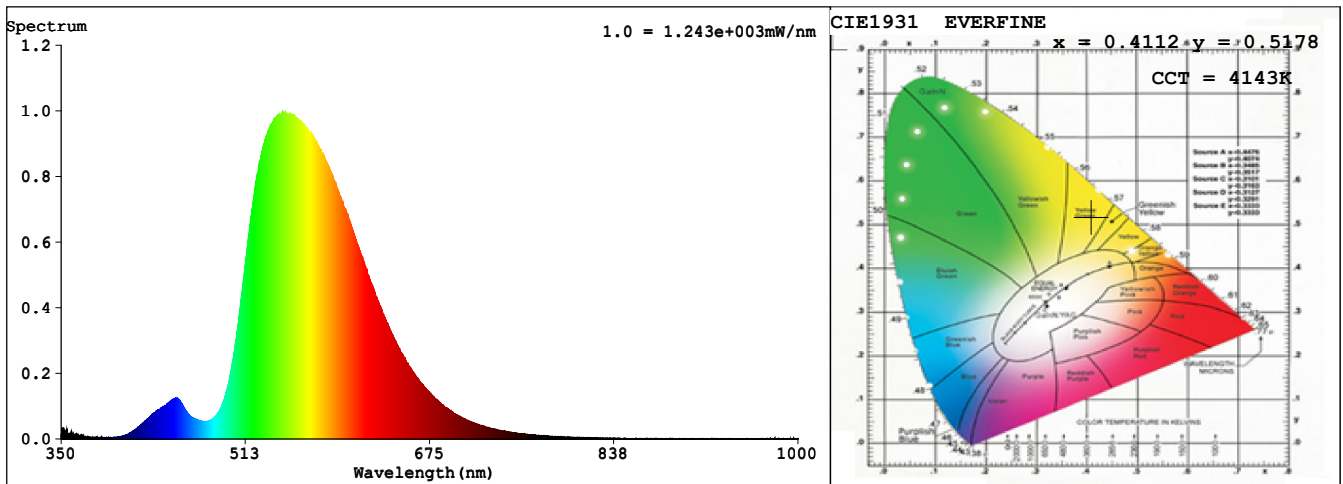
# Spectrum Test Report

Sample : Date : 2024-01-06 11:18:18  
 Specification : SERA RGBL-strobe 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 : 52444 (80%)  
 Test Mode : Fast Test T : 17 ms  
 Sensitivity : High

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4112$   $y = 0.5178$  /  $u' = 0.1960$   $v' = 0.5554$  ( $duv=4.61e-02$ )

CCT= 4143K Prcp WL:  $L_d=568.3nm$  Purity=79.0%

Peak WL:  $L_p=545nm$  FWHM: =109.9nm Ratio:R=12.0% G=87.2% B=0.8%

Render Index:  $R_a = 57.1$

R1 =45 R2 =61 R3 =82 R4 =51 R5 =45 R6 =50 R7 =87

R8 =35 R9 =0 R10=15 R11=38 R12=11 R13=46 R14=91 R15=32

LEVEL:OUT WHITE:OUT

## Photometric & Radiometric Parameters

Flux = 67491 lm Eff. : 98.17 lm/W Fe = 152.43 W

## Electrical parameters

V = 239.5 V I = 2.957 A P = 687.5 W PF = 0.9709

Freq=50.01 Hz



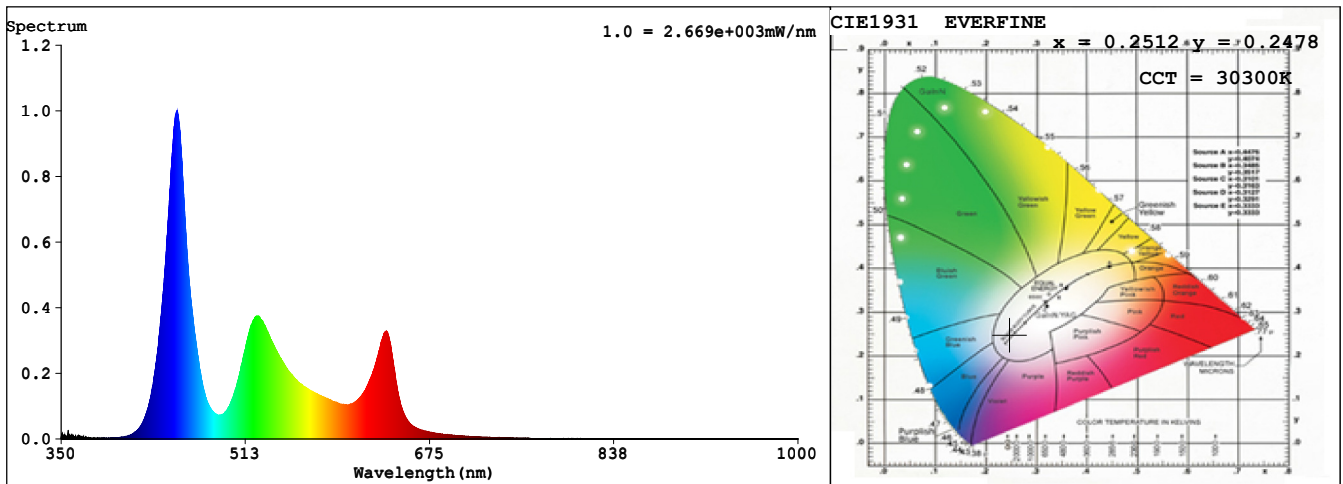
# Spectrum Test Report

Sample	:	Date	: 2024-01-06 11:18:41
Specification	: SERA RGBL-strobe	Sam. Status	:
Sample No.	: RGBL (RAW)	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	: CLF	Test by	: DANNY
		Assessor	: damin

## Test Condition

Temperature	: 28Deg	RH	: 65.0%
WL Range	: 350nm-1000nm	IP	: 54218 (83%)
Test Mode	: Fast Test	T	: 13 ms
		Sensitivity	: High

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.2512$   $y = 0.2478$  /  $u' = 0.1837$   $v' = 0.4076$  ( $duv = -1.40e-03$ )

CCT= 30300K Prcp WL:  $L_d = 476.2nm$  Purity=36.1%

Peak WL:  $L_p = 452nm$  FWHM: =21.4nm Ratio:R=13.5% G=79.4% B=7.1%

Render Index:  $R_a = 82.9$

R1 =91 R2 =90 R3 =64 R4 =81 R5 =98 R6 =84 R7 =85

R8 =71 R9 =13 R10=68 R11=72 R12=48 R13=95 R14=79 R15=80

LEVEL:OUT WHITE:OUT

## Photometric & Radiometric Parameters

Flux = 39031 lm Eff. : 54.11 lm/W Fe = 158.77 W

## Electrical parameters

V = 239.5 V I = 3.092 A P = 721.4 W PF = 0.9740

Freq=50.01 Hz



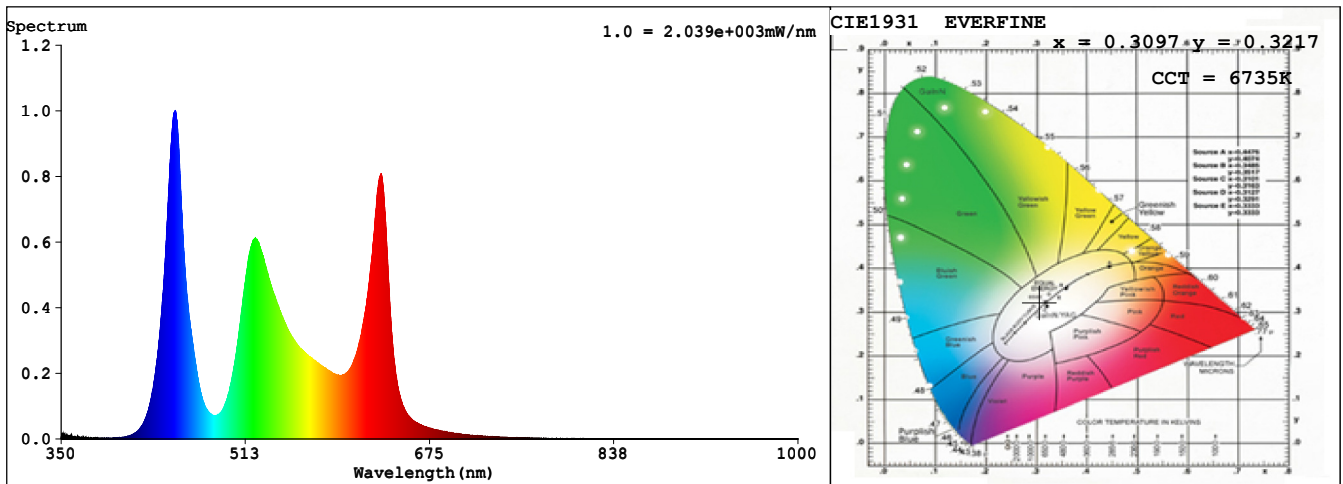
# Spectrum Test Report

Sample	:	Date	: 2024-01-06 11:26:13
Specification	: SERA RGBL-strobe	Sam. Status	:
Sample No.	: RGBL (Calibration)	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	: CLF	Test by	: DANNY
		Assessor	: damin

## Test Condition

Temperature	: 28Deg	RH	: 65.0%
WL Range	: 350nm-1000nm	IP	: 57256 (87%)
Test Mode	: Fast Test	T	: 18 ms
		Sensitivity	: High

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3097$   $y = 0.3217$  /  $u' = 0.1985$   $v' = 0.4639$  ( $duv=9.59e-04$ )

CCT= 6735K Prcp WL:  $L_d=485.1nm$  Purity=8.9%

Peak WL:  $L_p=451nm$  FWHM: =18.6nm Ratio:R=18.3% G=77.7% B=4.0%

Render Index:  $R_a = 78.4$

R1 =81 R2 =94 R3 =68 R4 =67 R5 =87 R6 =93 R7 =78

R8 =59 R9 =7 R10=83 R11=58 R12=67 R13=89 R14=80 R15=74

LEVEL:OUT WHITE:ANSI\_6500K

## Photometric & Radiometric Parameters

Flux = 49822 lm Eff. : 66.89 lm/W  $F_e = 169.04 W$

## Electrical parameters

V = 239.5 V I = 3.191 A P = 744.8 W PF = 0.9747

Freq=50.01 Hz



# Spectrum Test Report

Sample :  
 Specification : SERA RGBL-strobe  
 Sample No. : 2500K  
 Manufacturer : CLF

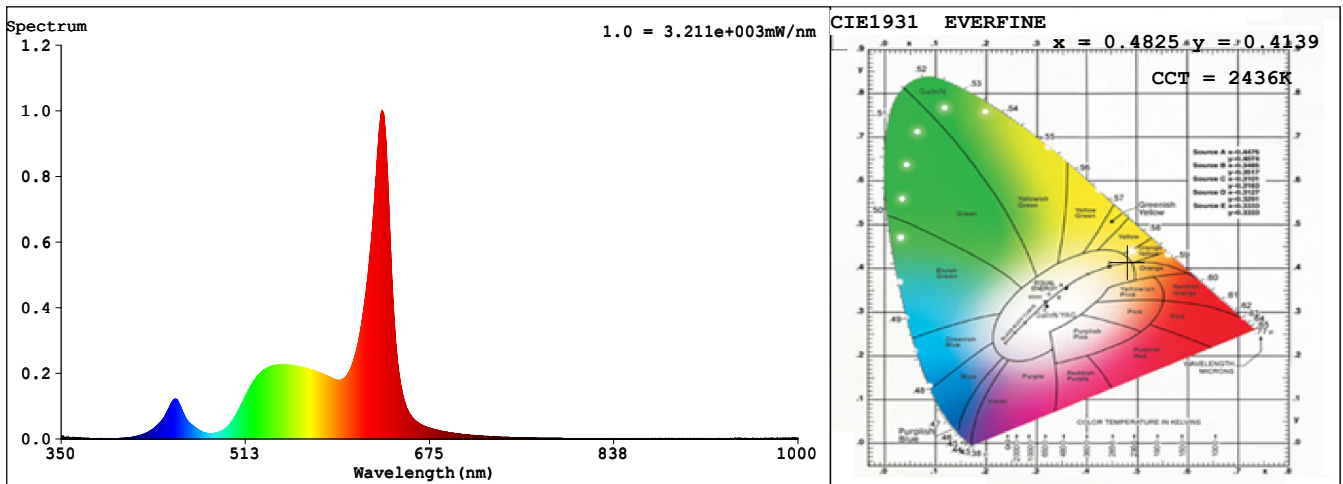
Date : 2024-01-06 11:27:33  
 Sam. Status :  
 Instrument : HAAS-2000(EVERFINE)  
 Test by : DANNY  
 Assessor : damin

## Test Condition

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

RH : 65.0%  
 IP : 55859 (85%)  
 T : 9 ms  
 Sensitivity : High

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4825$   $y = 0.4139$  /  $u' = 0.2757$   $v' = 0.5320$  ( $duv = -1.35e-04$ )

CCT= 2436K Prcp WL:  $L_d = 585.7nm$  Purity=69.1%

Peak WL:  $L_p = 633nm$  FWHM: =20.9nm Ratio:R=31.7% G=67.2% B=1.1%

Render Index:  $R_a = 83.2$

R1 =82 R2 =99 R3 =72 R4 =75 R5 =86 R6 =97 R7 =84

R8 =70 R9 =53 R10=90 R11=71 R12=86 R13=86 R14=80 R15=81

LEVEL:OUT WHITE:OUT

## Photometric & Radiometric Parameters

Flux = 52052 lm Eff. : 137.00 lm/W Fe = 161.59 W

## Electrical parameters

V = 239.5 V I = 2.048 A P = 379.9 W PF = 0.7746

Freq=50.01 Hz



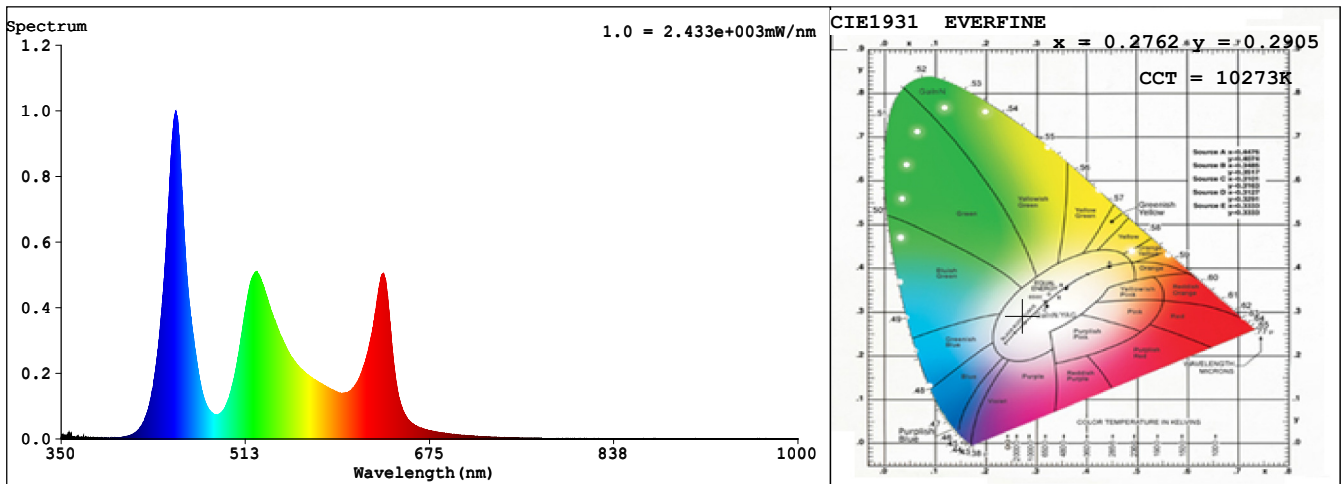
# Spectrum Test Report

Sample : Date : 2024-01-06 11:27:50  
 Specification : SERA RGBL-strobe Sam. Status :  
 Sample No. : 10000K Instrument : HAAS-2000(EVERFINE)  
 Manufacturer : CLF Test by : DANNY  
 Assessor : damin

## Test Condition

Temperature : 28Deg RH : 65.0%  
 WL Range : 350nm-1000nm IP : 52667 (80%)  
 Test Mode : Fast Test T : 14 ms  
 Sensitivity : High

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.2762$   $y = 0.2905$  /  $u' = 0.1862$   $v' = 0.4406$  ( $duv=3.96e-03$ )

CCT= 10273K Prcp WL:  $L_d=481.3nm$  Purity=23.1%

Peak WL:  $L_p=451nm$  FWHM: =19.7nm Ratio:R=15.1% G=79.6% B=5.2%

Render Index:  $R_a = 81.5$

R1 =89 R2 =90 R3 =68 R4 =74 R5 =94 R6 =87 R7 =81

R8 =68 R9 =19 R10=73 R11=65 R12=56 R13=94 R14=81 R15=82

LEVEL:OUT WHITE:OUT

## Photometric & Radiometric Parameters

Flux = 46579 lm Eff. : 61.21 lm/W Fe = 168.98 W

## Electrical parameters

V = 239.5 V I = 3.256 A P = 761.0 W PF = 0.9757

Freq=50.00 Hz