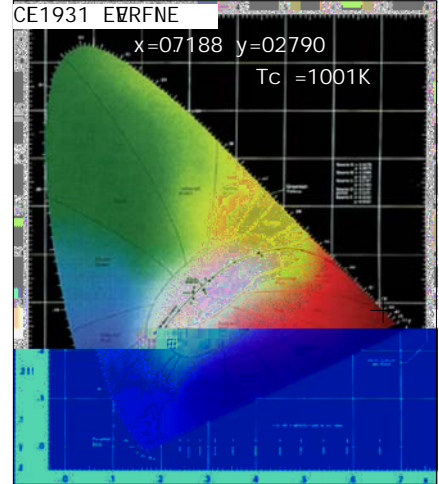
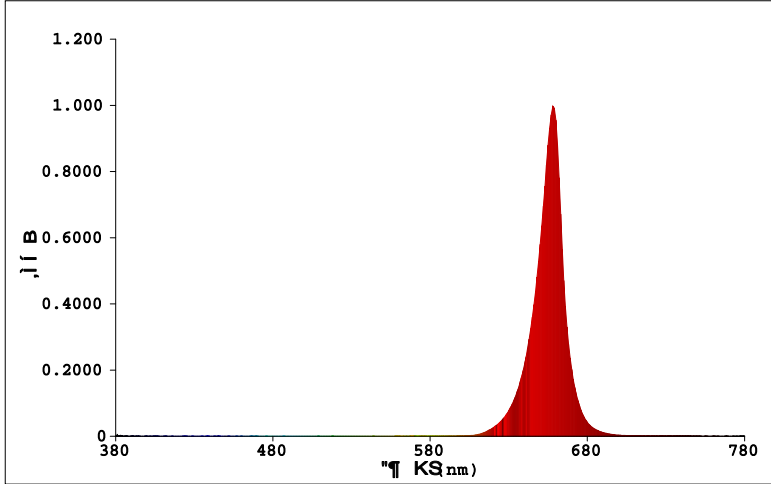


-

**z - D :**  
*EtG£* - = 4.221 lm

: 48.63 lm/W

\$d B # A© y



Np8F – D

8F • \$ Ū (2 z ): x=0.7188 y=0.2790/u'=0.5856 v'=0.5114 duv=-1.384e-001

, ì G8F#ý : Tc=1001K "¶KS : d=642.7nm 8F4f z: Purity=99.3%

8F!": R=98.8% G=1.1% B=0.0% Ä "¶KS : p=658.4nm 'z : d=16.3nm

8F Ū D : Ra=17.4 [4 Ū õ š2ĭ D ]

R1 =12.40	R2 =81.28	R3 =32.35	R4 =-16.52	R5 =9.62
R6 =86.44	R7 =8.40	R8 =-74.69	R9 =-240.25	R10=80.01
R11=-2.10	R12=82.06	R13=37.15	R14=59.38	R15=-29.32

z – D :

EiG£ - = 8.640 lm : 48.36 lm/W -e = 135.0 mW

G£ \$(umol/s): 3.679e-004[400~500nm] 8.392e-004[500~600nm] 7.333e-001[600~700nm]

G£ \$=7.378e-001umol/s g; :± !" =657 g; 6Ñ =7.546e-001

ÜEd Ø – D Ä 400700nm Ä: Ü G£ \$EiG£ PPF: 0.7348 mol/s

Ü Ý Ed ØEiG£ PRF:134.51mW

Ü \$EiG£ ) [ Eff(PPF): 4.11 mol/s/W

+ – D :

!7 å+ \_ VF = 1.785 V !7 å+ # IF = 100.0 mA s)[ P = 178.6 mW Ch1

Ú4{ : \*\* [OUT] , Q Ú2O : OUT

¼ < (š Ō. /Ä Ú ÈKÈT=80.00ms Ip=40491 (62%) [ HAAS2000\_V1\_USB ] V2.00.289

{ • \_ È : LIGHT

# A© Ž , : DAMIN

)f W#ý z : 25.3

Eô V : EVERFINE

u Ž , : damin

# A© ¼ < LTS-300\_100V + HAAS2000\_V1\_USB

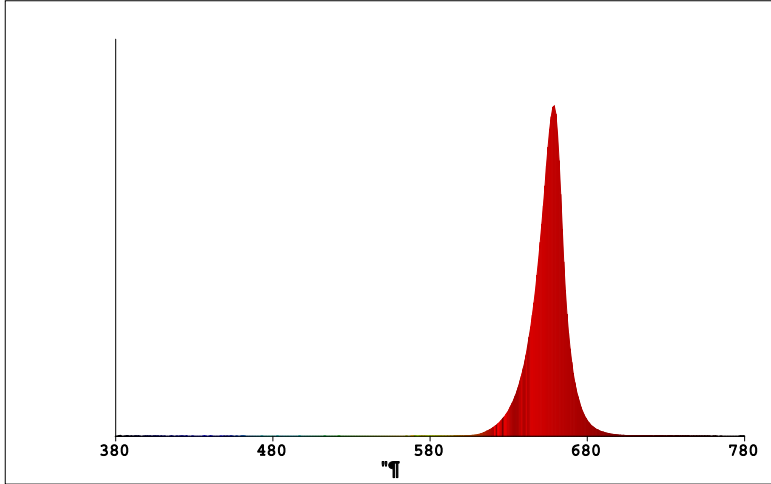
{ • 4ê È : 24

# A© ¹ ó : 2021-04-30 14-46

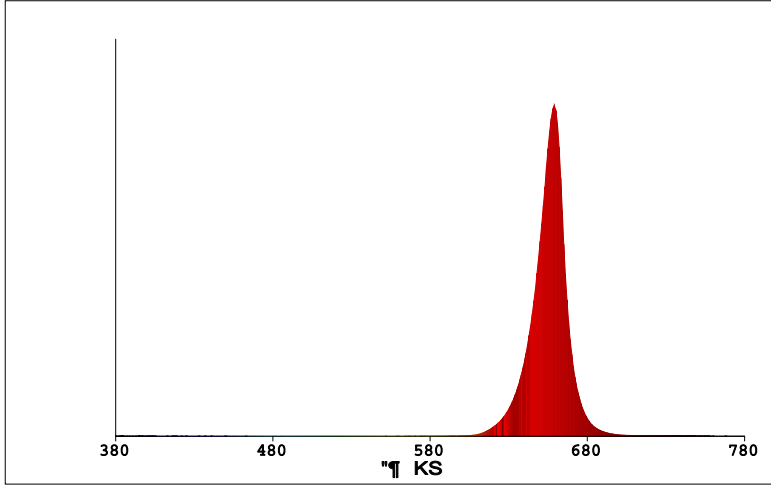
)f W\$S z : 65.0%

Ü "¼ : 3#

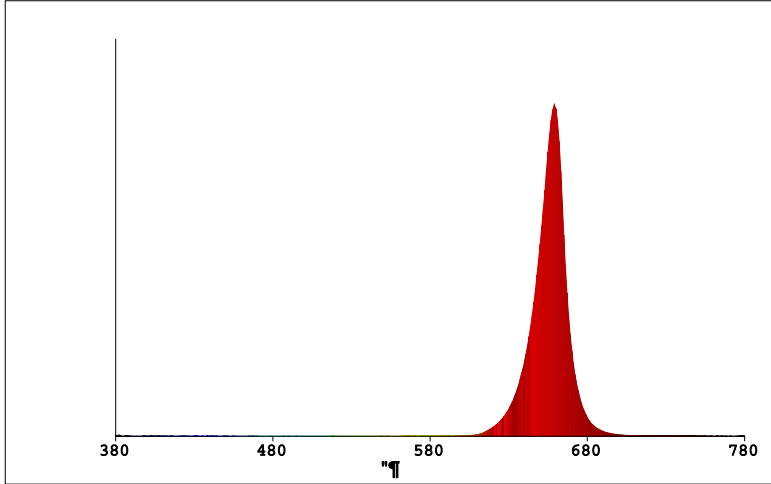
\$d B # A© y



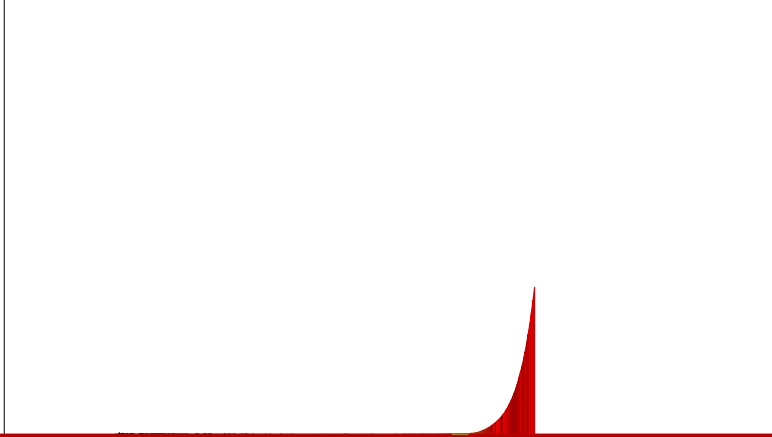
\$d B # A© y



\$d B # A© y



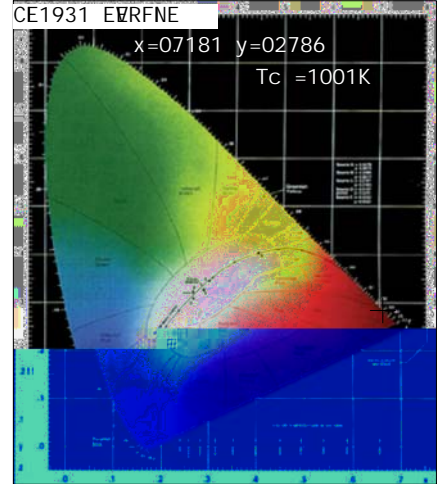
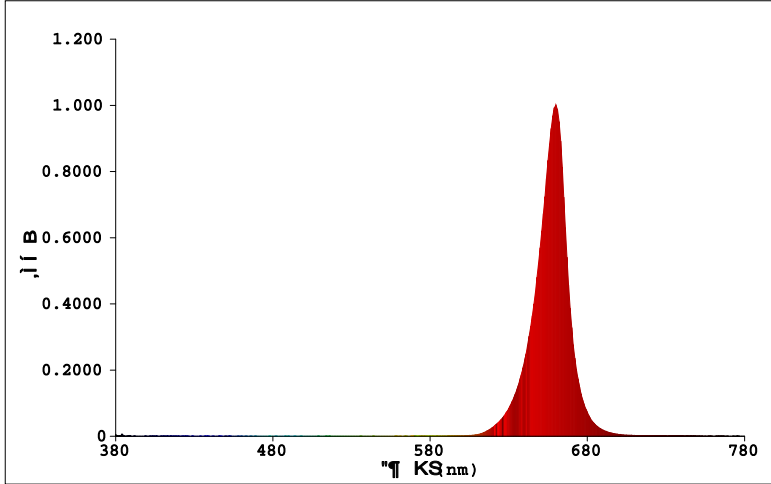
\$d B # A© y 380



Test report  
E° • (EVERFINE)LEDspec 8F+ # A© y

1 7 NI E 17 NI

\$d B # A© y



Np8F – D

8F • \$ Ū (2 z) : x=0.7181 y=0.2786/u'=0.5854 v'=0.5110 duv=-1.382e-001

, Ì G8F#ý : Tc=1001K "¶KS : d=643.5nm 8F4f z: Purity=99.0%

8F! : R=98.8% G=1.2% B=0.1% Ä "¶KS : p=660.0nm 'z : d=19.0nm

8F Ū D : Ra=18.5 [4 Ū õ š2Ī D ]

R1 =13.59	R2 =81.90	R3 =31.78	R4 =-15.02	R5 =11.33
R6 =86.78	R7 =9.68	R8 =-72.08	R9 =-235.65	R10=81.92
R11=-0.34	R12=80.60	R13=38.25	R14=58.92	R15=-27.25

z – D :

EiG£ - = 49.55 lm : 39.47 lm/W -e = 822.0 mW

G£ \$(umol/s): 3.207e-003[400~500nm] 5.183e-003[500~600nm] 4.467e+000[600~700nm]

G£ \$=4.500e+000umol/s g; ± !" =475 g; 6Ñ =6.533e-001

ÜEd Ø – D Ä 400700nm Ä : Ü G£ \$EiG£ PPF: 4.4769 mol/s

Ü Ý Ed ØEiG£ PRF: 817.83mW

Ü \$EiG£ ) [ Eff(PPF): 3.57 mol/s/W

+ – D :

!7 å+ \_ VF = 2.093 V !7 å+ # IF = 599.8 mA s)[ P = 1256 mW Ch1

Ú4{ : \*\* [OUT] , Q Ú2O : OUT

¼ < (š Ō. /Ä Ú ÈKÈT=10.00ms Ip=27480 (42%) [ HAAS2000\_V1\_USB ] V2.00.289

{ • \_ È : LIGHT

# A© Ž , : DAMIN

)f W#ý z : 25.3

Eô V : EVERFINE

u Ž , : damin

# A© ¼ < LTS-300\_100V + HAAS2000\_V1\_USB

{ • 4ê È : 30

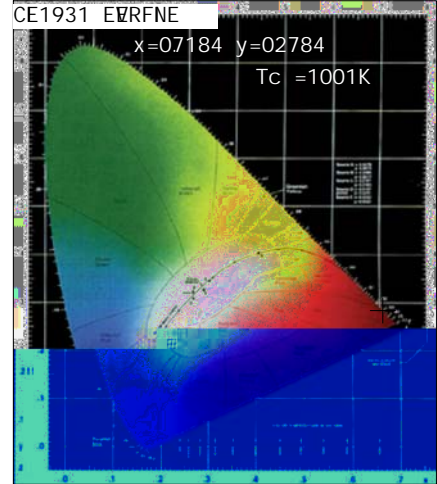
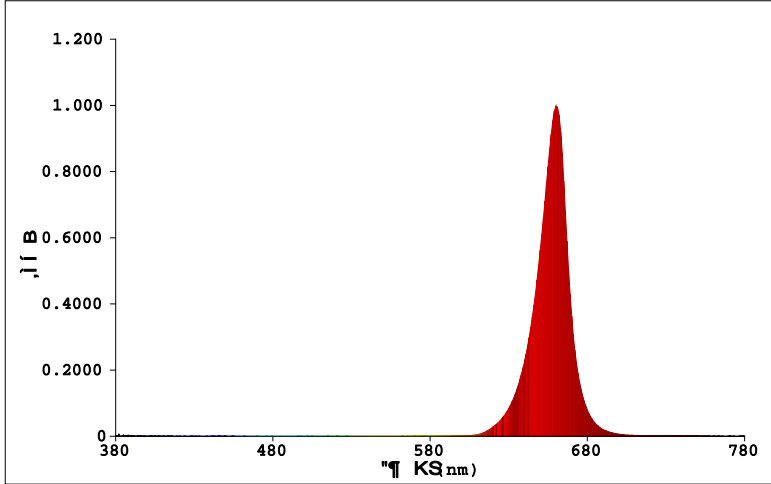
# A© ¹ ó : 2021-04-30 14-47

)f W\$S z : 65.0%

Ü "¼ : 3#



\$d B # A© y



Np8F – D

8F • \$ Ū (2 z) : x=0.7184 y=0.2784/u'=0.5860 v'=0.5109 duv=-1.388e-001

, Ì G8F#ý : Tc=1001K "¶KS : d=643.7nm 8F4f z: Purity=99.0%

8F! : R=98.9% G=1.1% B=0.0% Ä "¶KS : p=660.5nm 'z : d=19.4nm

8F Ū D : Ra=16.6 [4 Ū õ š2Ī D ]

R1 =11.67	R2 =81.17	R3 =29.96	R4 =-18.27	R5 =8.67
R6 =85.84	R7 =8.39	R8 =-74.68	R9 =-240.13	R10=80.99
R11=-4.08	R12=82.31	R13=36.59	R14=57.73	R15=-29.42

z – D :

EiG£ - = 56.53 lm : 37.69 lm/W -e = 953.7 mW

G£ \$(umol/s): 3.725e-003[400~500nm] 5.828e-003[500~600nm] 5.185e+000[600~700nm]

G£ \$=5.225e+000umol/s g; :± !" =491 g; 6Ñ =6.346e-001

ÜEd Ø – D Ä 400700nm Ä : Ü G£ \$EiG£ PPF: 5.1964 mol/s

Ü Ý Ed ØEiG£ PRF:948.72mW

Ü \$EiG£ ) [ Eff(PPF): 3.46 mol/s/W

+ – D :

!7 å+ \_ VF = 2.142 V !7 å+ # IF = 699.9 mA s)[ P = 1500 mW Ch1

Ú4{ : \*\* [OUT] , Q Ú2O : OUT

¼ < (š Ō. /Ä Ú ÈKÈT=10.00ms Ip=31239 (48%) [ HAAS2000\_V1\_USB ] V2.00.289

{ • \_ È : LIGHT

# A© Ž , : DAMIN

)f W#ý z : 25.3

Eô V : EVERFINE

u Ž , : damin

# A© ¼ < LTS-300\_100V + HAAS2000\_V1\_USB

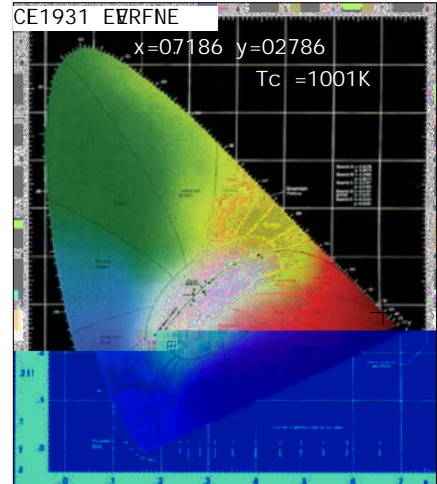
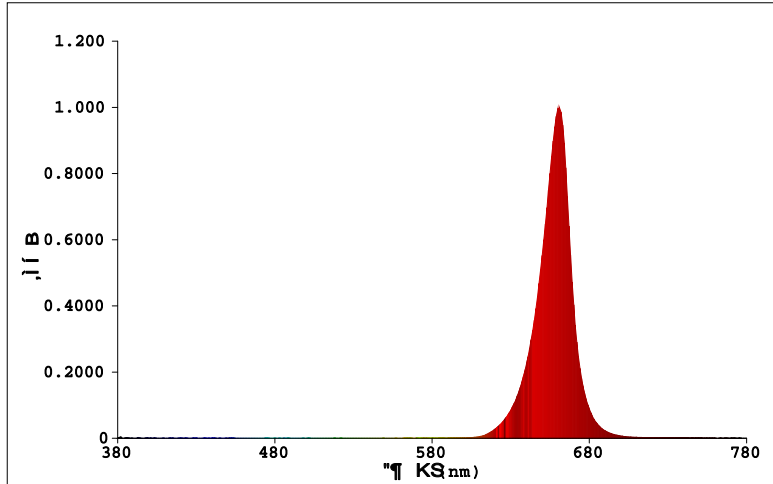
{ • 4ê È : 31

# A© ¹ ó : 2021-04-30 14-48

)f W\$S z : 65.0%

Ü "¼ : 3#

\$d B # A© y



Np8F – D

8F • \$ Ū (2 z) : x=0.7186 y=0.2786/u'=0.5859 v'=0.5111 duv=-1.387e-001

, ì G8F#ý : Tc=1001K "¶KS : d=643.2nm 8F4f z: Purity=99.2%

8F! : R=98.8% G=1.2% B=0.1% Ä "¶KS : p=660.5nm 'z : d=19.8nm

8F Ū D : Ra=17.9 [4 Ū õ š2ĭ D ]

R1 =12.90	R2 =81.36	R3 =31.53	R4 =-16.06	R5 =10.22
R6 =85.55	R7 =10.02	R8 =-72.10	R9 =-236.04	R10=81.13
R11=-2.34	R12=82.61	R13=37.45	R14=58.67	R15=-27.50

z – D :

EİGŁ - = 63.25 lm : 36.07 lm/W -e = 1082 mW

GŁ \$(umol/s): 3.451e-003[400~500nm] 6.738e-003[500~600nm] 5.889e+000[600~700nm]

GŁ \$=5.934e+000umol/s g; :± !" =643 g; 6Ñ =6.163e-001

ÜEd Ø – D Ä 400700nm Ä : Ü GŁ \$EİGŁ PPF: 5.9008 mol/s

Ü Ý Ed ØEİGŁ PRF:1076.7mW

Ü \$EİGŁ ) [ Eff(PPF): 3.36 mol/s/W

+ – D :

!7 å+ \_ VF = 2.191 V !7 å+ # IF = 800.0 mA s)[ P = 1754 mW Ch1

Ú4{ : \*\* [OUT] , Q Ú20 : OUT

¼ < (Š Ō. /Ä Ú ÉKÈT=10.00ms Ip=34704 (53%) [ HAAS2000\_V1\_USB ] V2.00.289

{ • \_ È : LIGHT

# A© Ž , : DAMIN

)f W#ý z : 25.3

Eô V : EVERFINE

u Ž , : damin

# A© ¼ < LTS-300\_100V + HAAS2000\_V1\_USB

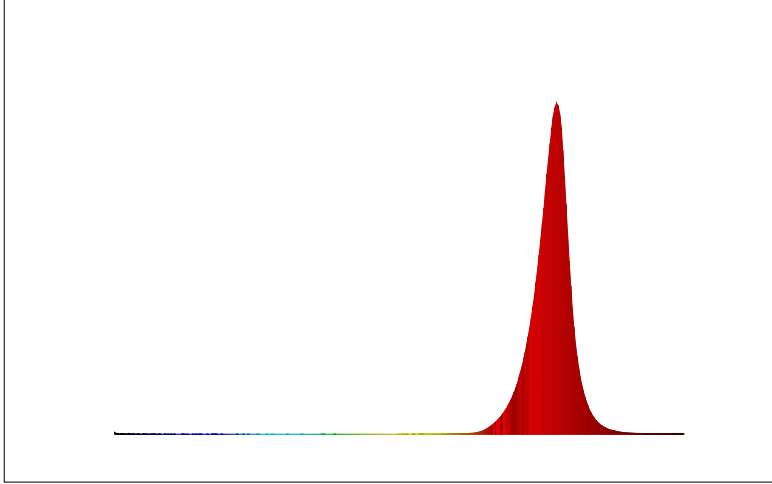
{ • 4ê È : 32

# A© ¹ ó : 2021-04-30 14-48

)f W\$S z : 65.0%

Ü "¼ : 3#

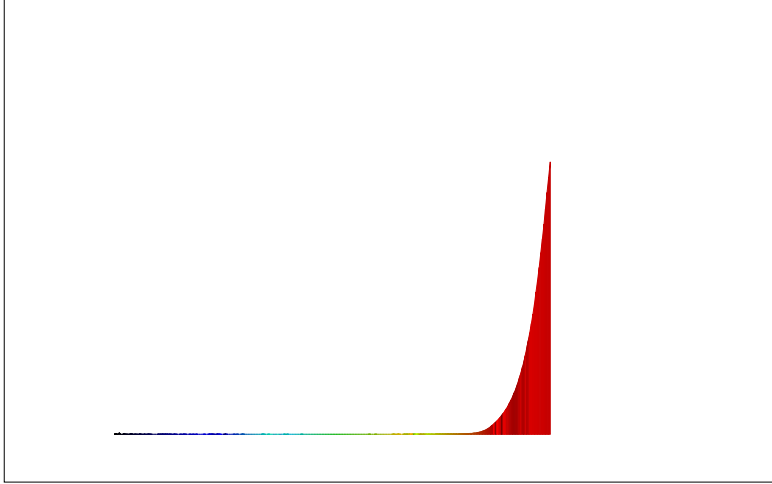
\$d B # A© y



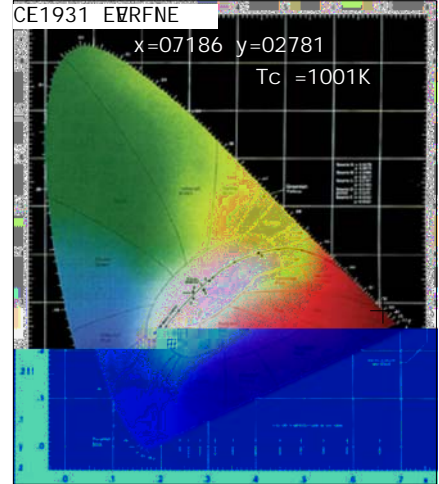
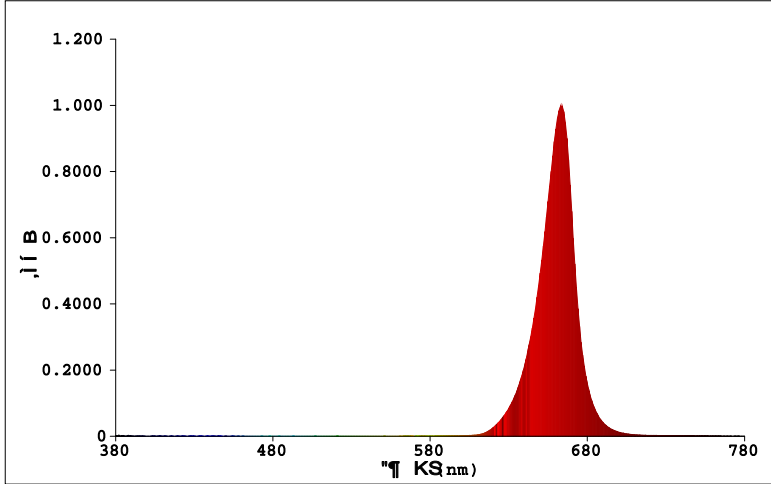
)qDQñFq@ FqB C v R X"%`iv "•

)qDQñFq@ FqB C v R X"%`iv "•

\$d B # A© y



\$d B # A© y



Np8F – D

8F • \$ Ū (2 z) : x=0.7186 y=0.2781/u'=0.5867 v'=0.5108 duv=-1.395e-001

, ì G8F#ý : Tc=1001K "¶KS : d=644.2nm 8F4f z: Purity=99.0%

8F! : R=98.7% G=1.3% B=0.1% Ä "¶KS : p=663.6nm 'z : d=22.1nm

8F Ū D : Ra=19.0 [4 Ū õ š2ĭ D ]

R1 =14.32	R2 =81.77	R3 =31.05	R4 =-14.22	R5 =11.85
R6 =85.29	R7 =11.69	R8 =-69.39	R9 =-231.65	R10=82.64
R11=-0.62	R12=82.40	R13=38.60	R14=58.23	R15=-25.16

z – D :

EİGŁ - = 87.93 lm : 28.00 lm/W -e = 1673 mW

GŁ \$(umol/s): 5.483e-003[400~500nm] 1.013e-002[500~600nm] 9.118e+000[600~700nm]

GŁ \$=9.205e+000umol/s g; :± !" =609 g; 6Ñ =5.318e-001

ÜEd Ø – D Ä 400700nm Ä : Ü GŁ \$EİGŁ PPF: 9.1343 mol/s

Ü Ý Ed ØEİGŁ PRF:1660.6mW

Ü \$EİGŁ ) [ Eff(PPF): 2.91 mol/s/W

+ – D :

!7 å+ \_ VF = 2.415 V !7 å+ # IF = 1300 mA s)[ P = 3141 mW Ch1

Ú4{ : \*\* [OUT] , Q Ú20 : OUT

¼ < (š Ō. /Ä Ú ÈKÈT=10.00ms Ip=48563 (74%) [ HAAS2000\_V1\_USB ] V2.00.289

{ • \_ È : LIGHT

# A© Ž , : DAMIN

)f W#ý z : 25.3

Eô V : EVERFINE

u Ž , : damin

# A© ¼ < LTS-300\_100V + HAAS2000\_V1\_USB

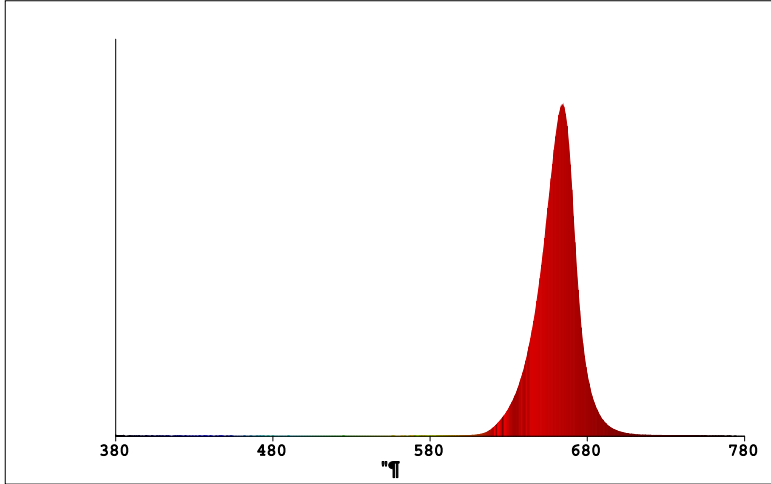
{ • 4ê È : 37

# A© ¹ ó : 2021-04-30 14-49

)f W\$S z : 65.0%

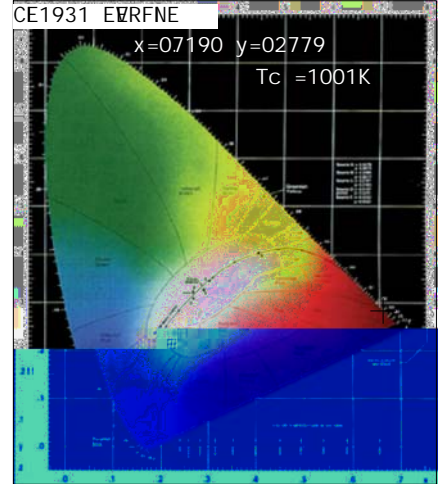
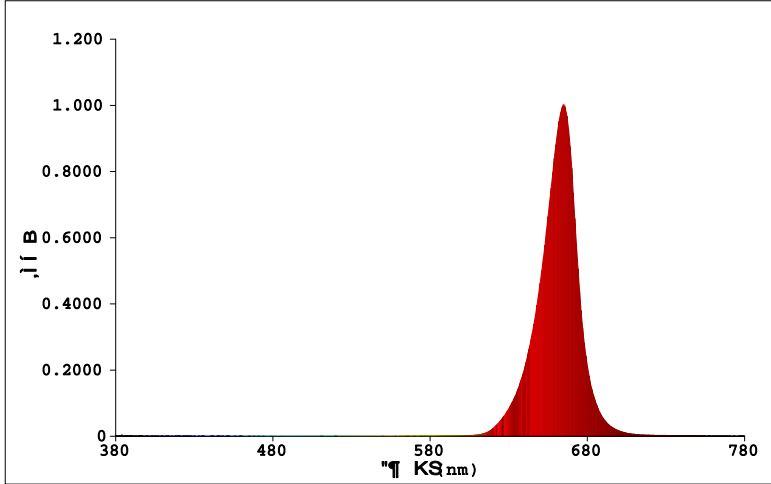
Ü "¼ : 3#

\$d B # A© y





\$d B # A© y



Np8F – D

8F • \$ Ū (2 z) : x=0.7190 y=0.2779/u'=0.5873 v'=0.5107 duv=-1.401e-001

λ G8F#ý : Tc=1001K "¶KS : d=644.5nm 8F4f z: Purity=99.0%

8F! : R=98.7% G=1.3% B=0.0% Å "¶KS : p=665.1nm 'z : d=23.1nm

8F Ū D : Ra=19.3 [4 Ū õ š2Ī D ]

R1 =14.67	R2 =81.68	R3 =31.34	R4 =-13.97	R5 =11.88
R6 =84.44	R7 =12.47	R8 =-68.46	R9 =-230.38	R10=82.45
R11=-1.30	R12=83.86	R13=38.81	R14=58.32	R15=-24.36

z – D :

EiG£ - = 93.01 lm : 24.80 lm/W -e = 1872 mW

G£ \$(umol/s): 5.784e-003[400~500nm] 1.084e-002[500~600nm] 1.021e+001[600~700nm]

G£ \$=1.032e+001umol/s g; ± !" =679 g; 6Ñ =4.985e-001

ÜEd Ø – D Å 400700nm Å: Ü G£ \$EiG£ PPF: 10.232 mol/s

Ü Ý Ed ØEiG£ PRF:1856.6mW

Ü \$EiG£ ) [ Eff(PPF): 2.73 mol/s/W

+ – D :

!7 å+ \_ VF = 2.501 V !7 å+ # IF = 1499 mA s)[ P = 3751 mW Ch1

Ú4{ : \*\* [OUT] , Q Ú20 : OUT

¼ < (š Ō. /Å Ú ÉKÈT=10.00ms Ip=52255 (80%) [ HAAS2000\_V1\_USB ] V2.00.289

{ • \_ È : LIGHT

# A© Ž , : DAMIN

)f W#ý z : 25.3

Eô V : EVERFINE

u Ž , : damin

# A© ¼ < LTS-300\_100V + HAAS2000\_V1\_USB

{ • 4ê È : 39

# A© ¹ ó : 2021-04-30 14-49

)f W\$S z : 65.0%

Ü "¼ : 3#