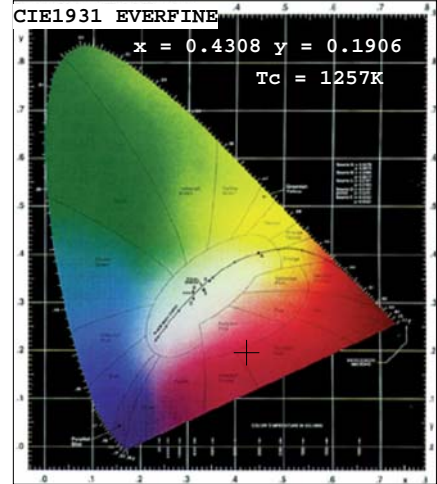
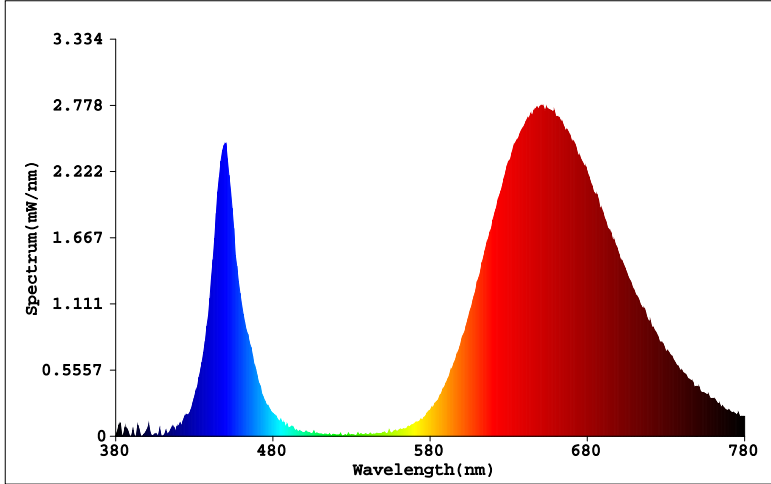


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate(2Deg): $x=0.4308$   $y=0.1906$ / $u'=0.3894$   $v'=0.3876$   $duv=1.040e-001$   
 $T_c=1257K$  Dominant WL: $L_d=-512.5nm$  Purity=31.6%  
 Ratio:R=72.6% G=21.1% B=6.2% Peak WL: $L_p=651.0nm$  HWL:92.5nm  
 Render Index:Ra=9.1 [6200K- RA70] Lav=649.2nm  
 R1 =81.4 R2 =17.0 R3 =-54.9 R4 =16.7 R5 =51.5  
 R6 =-63.6 R7 =-11.9 R8 =37.0 R9 =62.5 R10=-82.0  
 R11=31.1 R12=-367.3 R13=48.6 R14=18.5 R15=77.4  
 TM30 Parameters: Rf = 0.0, Rg:219.7

**Photo Parameters:**

Flux = 32.94 lm Eff. : 24.45 lm/W Fe = 337.3 mW Eff.=25.034%  
 $e=1.762e+000umol/s$  blue ratio=4.69 fluo. eff.=2.064e-001  
 EQE(%): 0.05

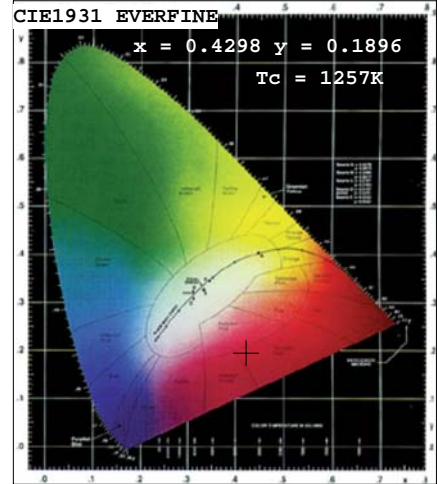
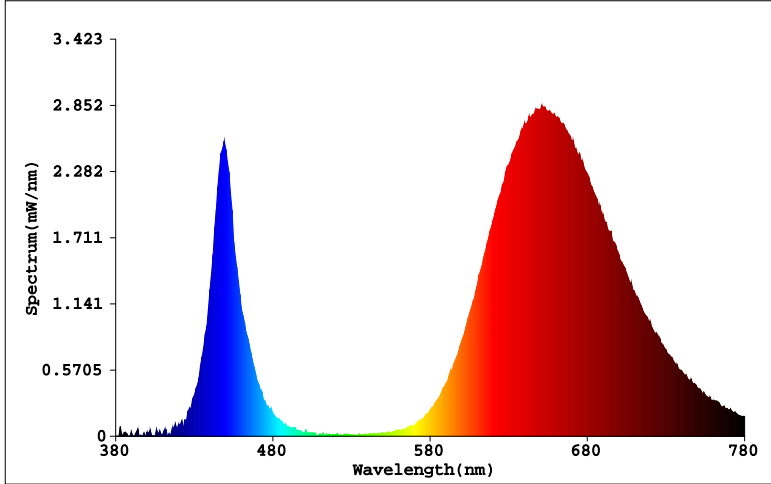
**Electrical parameters:**

VF = 3.850 V IF = 350.0 mA P = 1348 mW  
 LEVEL:\*\*[OUT] WHITE:OUT White Factor:0.13334 v\_white: 0.3895

Status: T=10.00ms Ip=2303 (4%) [ HAAS2000\_V1\_USB ] V2.00.289

Model:1W 35mil	Number:1
Tester:11	Date:2020-07-14 20-27
Temperature:25Deg	Humidity:60%
Manufactory:M-LED	Remarks:1
Assessor:damin	
System:LED300 + HAAS2000_V1_USB	

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate(2Deg): $x=0.4298$   $y=0.1896$ / $u'=0.3894$   $v'=0.3864$   $duv=1.048e-001$   
 $Tc=1257K$  Dominant WL: $Ld=-512.9nm$  Purity=31.4%  
 Ratio:R=72.7% G=21.0% B=6.2% Peak WL:Lp=651.1nm HWL:91.8nm  
 Render Index:Ra=8.9 [6200K- RA70] Lav=649.2nm  
 R1 =81.8 R2 =17.0 R3 =-55.6 R4 =15.5 R5 =52.0  
 R6 =-63.6 R7 =-12.5 R8 =36.5 R9 =61.9 R10=-82.2  
 R11=29.9 R12=-366.5 R13=48.9 R14=18.1 R15=77.5  
 TM30 Parameters: Rf = 0.0, Rg:222.3

**Photo Parameters:**

Flux = 33.63 lm Eff. : 26.25 lm/W Fe = 344.7 mW Eff.=26.901%  
 $e=1.800e+000umol/s$  blue ratio=4.68 fluo. eff.=2.217e-001  
 EQE(%): 0.05

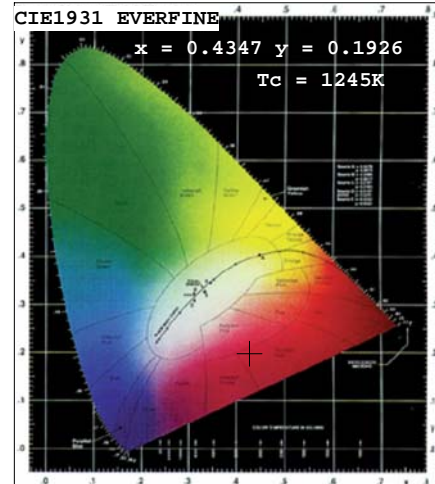
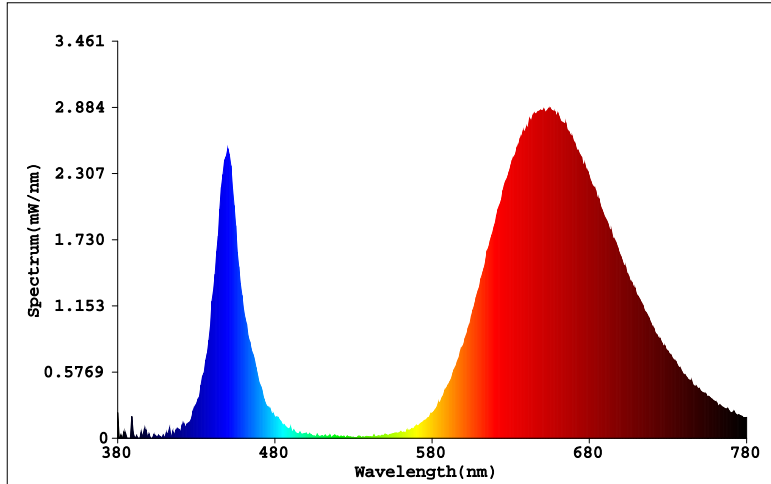
**Electrical parameters:**

VF = 3.662 V IF = 349.9 mA P = 1282 mW  
 LEVEL:\*\*[OUT] WHITE:OUT White Factor:0.099223 v\_white: 0.3886

Status: T=10.00ms Ip=2341 (4%) [ HAAS2000\_V1\_USB ] V2.00.289

Model:1W 35mil	Number:2
Tester:11	Date:2020-07-14 20-27
Temperature:25Deg	Humidity:60%
Manufactory:M-LED	Remarks:1
Assessor:damin	
System:LED300 + HAAS2000_V1_USB	

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate(2Deg): $x=0.4347$   $y=0.1926$ / $u'=0.3915$   $v'=0.3902$   $duv=1.021e-001$   
 $Tc=1245K$  Dominant WL: $Ld=-511.3nm$  Purity=32.3%  
 Ratio: $R=72.9\%$   $G=21.0\%$   $B=6.1\%$  Peak WL: $Lp=655.2nm$   $HWL=91.7nm$   
 Render Index: $Ra=10.4$  [6200K- RA70]  $Lav=649.6nm$   
 $R1 =82.9$   $R2 =19.0$   $R3 =-53.1$   $R4 =16.4$   $R5 =53.7$   
 $R6 =-60.7$   $R7 =-11.0$   $R8 =36.1$   $R9 =60.7$   $R10=-77.9$   
 $R11=31.2$   $R12=-362.2$   $R13=50.6$   $R14=19.5$   $R15=79.5$   
 TM30 Parameters:  $Rf = 0.0$ ,  $Rg:229.2$

**Photo Parameters:**

Flux = 33.98 lm Eff. : 28.37 lm/W  $Fe = 347.5 mW$   $Eff.=29.018\%$   
 $e=1.817e+000umol/s$  blue ratio=4.83 fluo. eff.=2.404e-001  
 EQE(%): 0.05

**Electrical parameters:**

$VF = 3.422 V$   $IF = 350.0 mA$   $P = 1198 mW$   
 LEVEL:\*\*[OUT] WHITE:OUT White Factor:0.15641  $v\_white: 0.3920$

Status:  $T=10.00ms$   $Ip=2362 (4\%)$  [ HAAS2000\_V1\_USB ] V2.00.289

Model:1W	Number:3
Tester:11	Date:2020-07-14 20-27
Temperature:25Deg	Humidity:60%
Manufactory:M-LED	Remarks:1
Assessor:damin	
System:LED300 + HAAS2000_V1_USB	