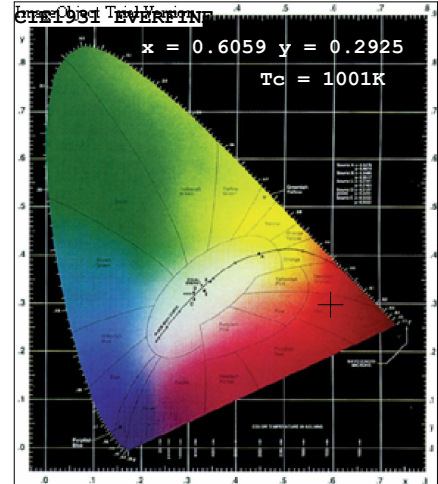
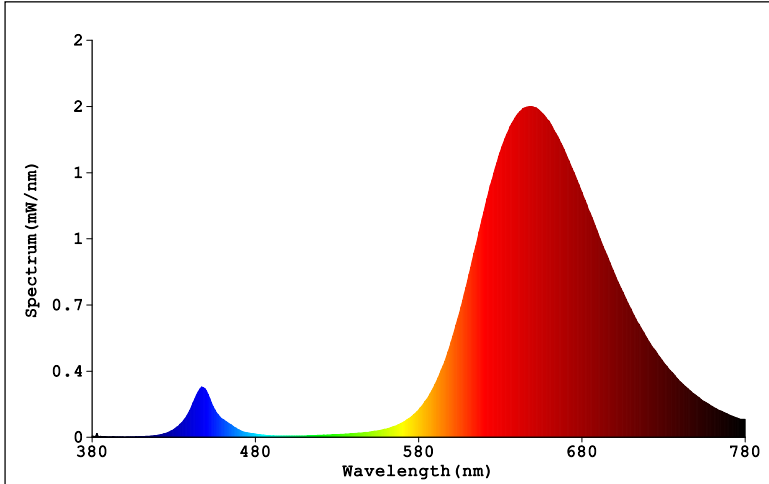


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.6059$ $y=0.2925$ $u'=0.4574$ $v'=0.4969$ $duv=-2.521e-002$
 Tc=1001K Dominant WL:Ld=648.6nm Purity=69.5%
 Ratio:R=75.7% G=23.4% B=1.0% Peak WL:Lp=647.7nm HWL:88.1nm
 Render Index:Ra=65.5 AvgR=60.2 Kred=62.70%
 R1 =72.42 R2 =94.64 R3 =62.52 R4 =50.23 R5 =78.21 R6 =72.67 R7 =53.19
 R8 =40.35 R9 =4.58 R10=83.49 R11=63.00 R12=-1.86 R13=84.02 R14=83.03 R15=62.17

Photo Parameters: $\dot{\phi}=9.764e-001 \mu\text{mol/s}$ blue ratio=28.2 fluo. eff.=3.999e-001

Flux = 19.60 lm Eff. : 45.33 lm/W Fe = 179.0 mW
 Photosynthetic (400-700nm): PPF:0.8 $\mu\text{mol/s}$
 PAR WATT:149.96mW
 Eff (PPF):1.85 $\mu\text{mol/s/W}$

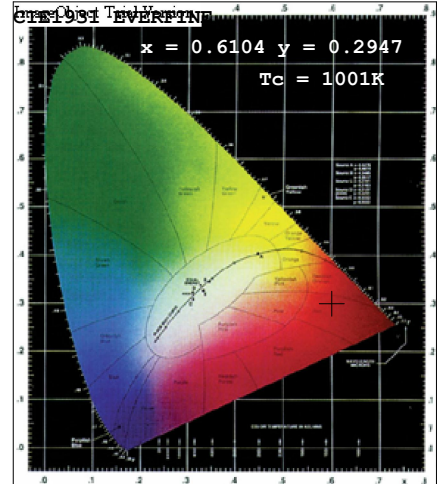
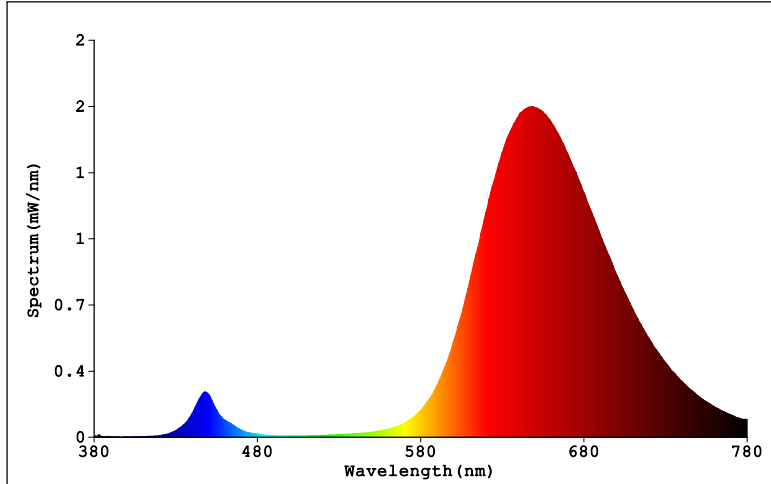
Electrical parameters:

VF = 2.884 V IF = 149.9 mA P = 432.5 mW
 LEVEL:OUT WHITE:OUT

Status: T=164.00ms Ip=52497 (80%) [HAAS2000_V1_USB] V2.00.275

Model:	Number:4
Tester:OQC	Date:2021-05-15
Temperature:25Deg	Humidity:%
Manufactory:	Remarks:
Assessor:damin	
System:LED300 + HAAS2000_V1_USB	

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.6104$ $y=0.2947$ $u'=0.4594$ $v'=0.4990$ $duv=-2.480e-002$
 Tc=1001K Dominant WL:Ld=641.8nm Purity=71.5%
 Ratio:R=76.0% G=23.1% B=0.9% Peak WL:Lp=648.5nm HWL:87.7nm
 Render Index:Ra=65.6 AvgR=60.2 Kred=63.04%
 R1 =71.47 R2 =95.41 R3 =62.90 R4 =49.93 R5 =77.31 R6 =74.12 R7 =53.73
 R8 =40.22 R9 =3.02 R10=84.83 R11=62.36 R12=0.86 R13=82.96 R14=83.09 R15=61.21

Photo Parameters: $\dot{\phi}=9.771e-001 \mu\text{mol/s}$ blue ratio=30.4 fluo. eff.=4.010e-001

Flux = 19.55 lm Eff. : 45.23 lm/W Fe = 179.0 mW
 Photosynthetic (400-700nm): PPF:0.80033 $\mu\text{mol/s}$
 PAR WATT:149.85mW
 Eff (PPF):1.85 $\mu\text{mol/s/W}$

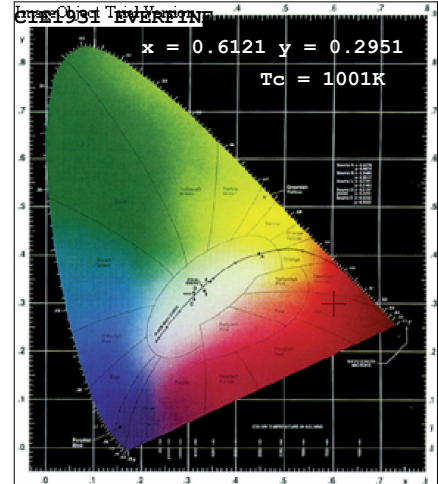
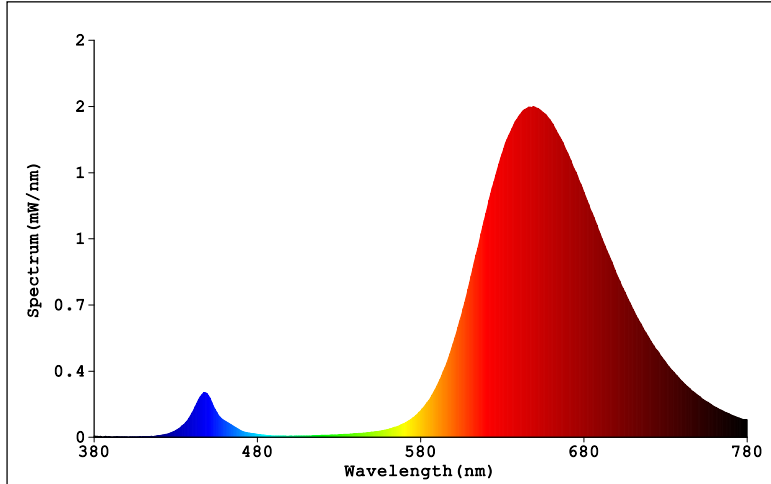
Electrical parameters:

VF = 2.883 V IF = 149.9 mA P = 432.2 mW
 LEVEL:OUT WHITE:OUT

Status: T=164.00ms Ip=52723 (80%) [HAAS2000_V1_USB] V2.00.275

Model: Number:5
 Tester:OQC Date:2021-05-15
 Temperature:25Deg Humidity:%
 Manufactory: Remarks:
 Assessor:damin
 System:LED300 + HAAS2000_V1_USB

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.6121$ $y=0.2951$ $u'=0.4605$ $v'=0.4995$ $duv=-2.503e-002$
 Tc=1001K Dominant WL:Ld=640.7nm Purity=72.2%
 Ratio:R=76.2% G=22.9% B=0.9% Peak WL:Lp=649.2nm HWL:87.9nm
 Render Index:Ra=65.7 AvgR=60.3 Kred=63.27%
 R1 =70.62 R2 =96.09 R3 =63.33 R4 =49.33 R5 =76.27 R6 =75.53 R7 =54.07
 R8 =40.04 R9 =1.83 R10=86.12 R11=61.39 R12=4.68 R13=82.02 R14=83.21 R15=60.53

Photo Parameters: $\dot{\phi}=9.756e-001 \mu\text{mol/s}$ blue ratio=31.5 fluo. eff.= $3.997e-001$

Flux = 19.42 lm Eff. : 44.84 lm/W Fe = 178.6 mW
 Photosynthetic (400-700nm): PPF:0.79827 $\mu\text{mol/s}$
 PAR WATT:149.39mW
 Eff (PPF):1.84 $\mu\text{mol/s/W}$

Electrical parameters:

VF = 2.889 V IF = 149.9 mA P = 433.2 mW
 LEVEL:OUT WHITE:OUT

Status: T=164.00ms Ip=52695 (80%) [HAAS2000_V1_USB] V2.00.275

Model:	Number:6
Tester:OQC	Date:2021-05-15
Temperature:25Deg	Humidity:%
Manufactory:	Remarks:
Assessor:damin	
System:LED300 + HAAS2000_V1_USB	