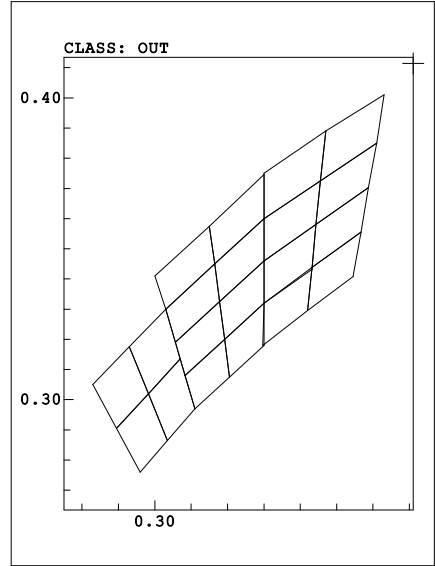
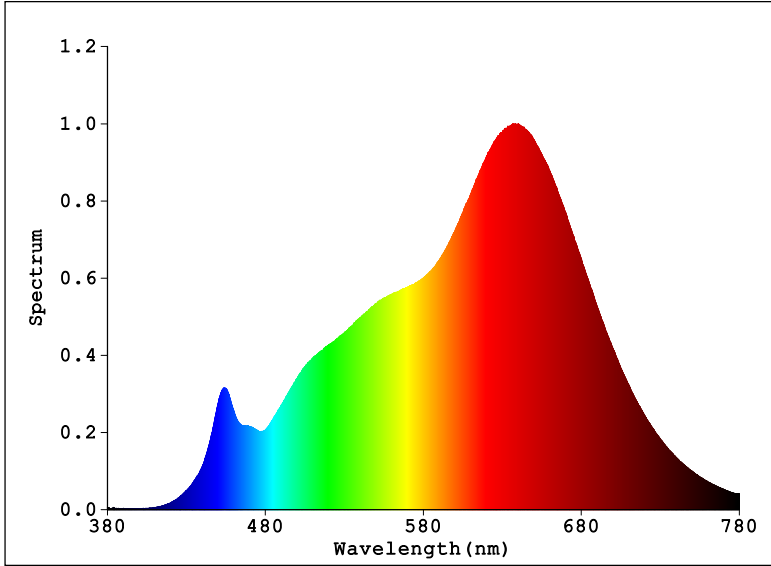


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4542$ $y=0.4115$ $u'=0.2585$ $v'=0.5268$ $duv=8.342e-004$
 Tc=2788K Dominant WL:Ld=583.5nm Purity=59.8%
 Ratio:R=28.4% G=69.1% B=2.6% Peak WL:Lp=640.1nm HWL:151.5nm
 Render Index:Ra=96.8
 R1 =96 R2 =98 R3 =97 R4 =95 R5 =96 R6 =96 R7 =99
 R8 =97 R9 =96 R10=98 R11=92 R12=91 R13=96 R14=97 R15=97

Photo Parameters:

Flux = 18.25 lm Eff. : 105.18 lm/W Fe = 70.88 mW

Electrical parameters:

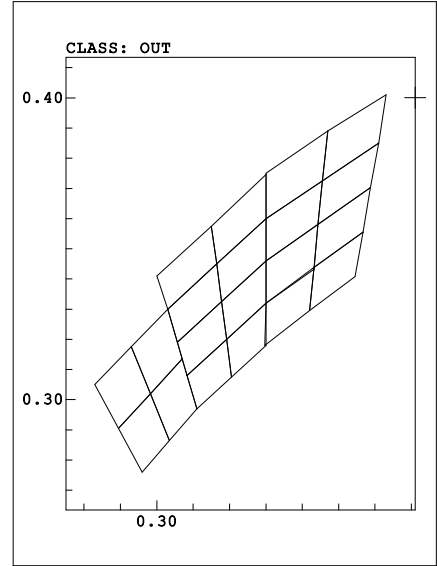
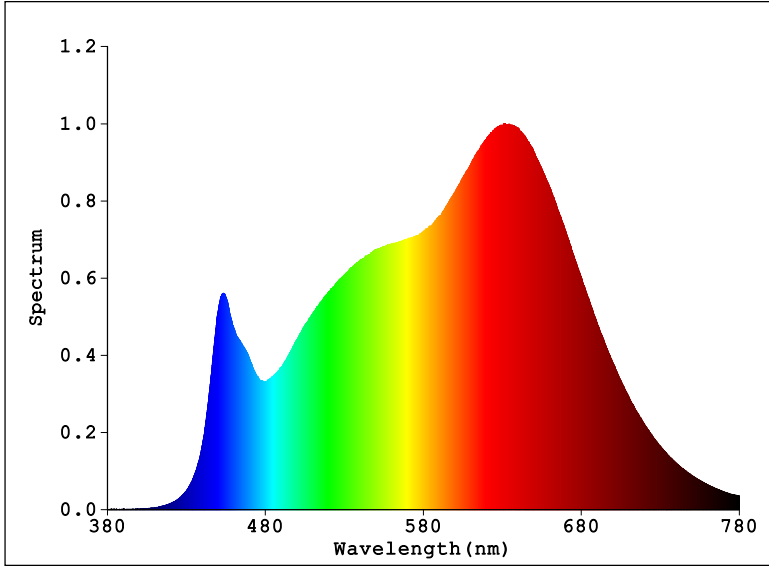
VF = 2.892 V IF = 60.00 mA P = 173.5 mW Ch1
 LEVEL:428 WHITE:OUT

Status: T=143.00ms Ip=54122 (83%) [HAAS2000_V1_USB] V2.00.227

Model:
 Tester:
 Temperature:Deg
 Manufactory:
 Assessor:damin
 System:WY + HAAS2000_V1_USB

Number:45
 Date:2016-04-11 10-02
 Humidity:%
 Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4197$ $y=0.4001$ $u'=0.2412$ $v'=0.5172$ $duv=1.105e-003$
 Tc=3279K Dominant WL:Ld=581.3nm Purity=46.0%
 Ratio:R=24.9% G=71.8% B=3.3% Peak WL:Lp=631.0nm HWL:179.9nm
 Render Index:Ra=98.0
 R1 =98 R2 =99 R3 =97 R4 =98 R5 =98 R6 =98 R7 =97
 R8 =97 R9 =96 R10=99 R11=98 R12=82 R13=99 R14=98 R15=98

Photo Parameters:

Flux = 18.57 lm Eff. : 101.26 lm/W Fe = 67.65 mW

Electrical parameters:

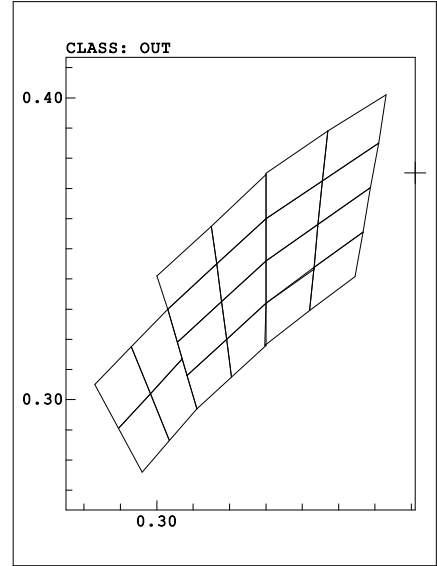
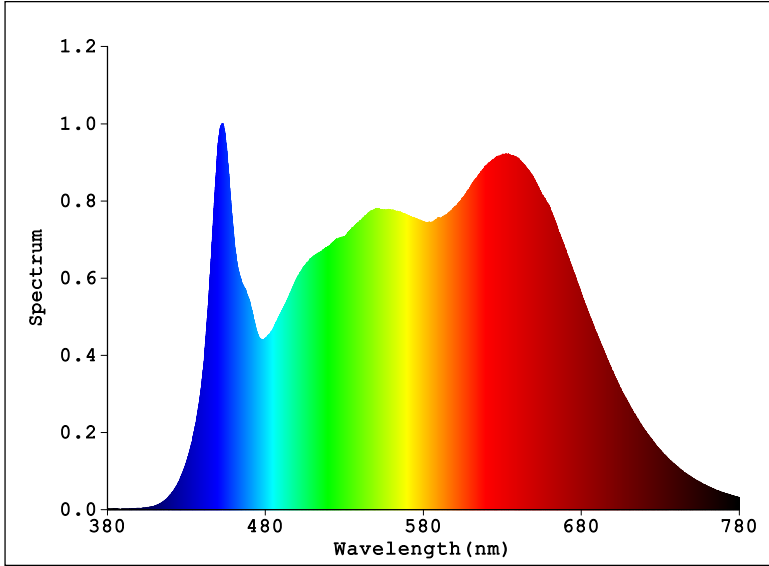
VF = 3.057 V IF = 60.00 mA P = 183.4 mW Ch1
 LEVEL:528 WHITE:OUT

Status: T=145.00ms Ip=50124 (76%) [PHAD=95] [HAAS2000_V1_USB] V2.00.167

Model:
 Tester:DAMIN
 Temperature:25.3Deg
 Manufactory:BIT
 Assessor:damin
 System:WY + HAAS2000_V1_USB

Number:5576
 Date:2016-07-29
 Humidity:65.0%
 Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3755$ $y=0.3752$ $u'=0.2225$ $v'=0.5002$ $duv=7.375e-004$
 Tc=4125K Dominant WL:Ld=578.2nm Purity=25.3%
 Ratio:R=21.4% G=74.2% B=4.3% Peak WL:Lp=452.7nm HWL:28.8nm
 Render Index:Ra=98.0
 R1 =99 R2 =100 R3 =97 R4 =99 R5 =98 R6 =97 R7 =98
 R8 =97 R9 =96 R10=98 R11=99 R12=77 R13=99 R14=97 R15=97

Photo Parameters:

Flux = 20.59 lm Eff. : 116.59 lm/W Fe = 75.04 mW

Electrical parameters:

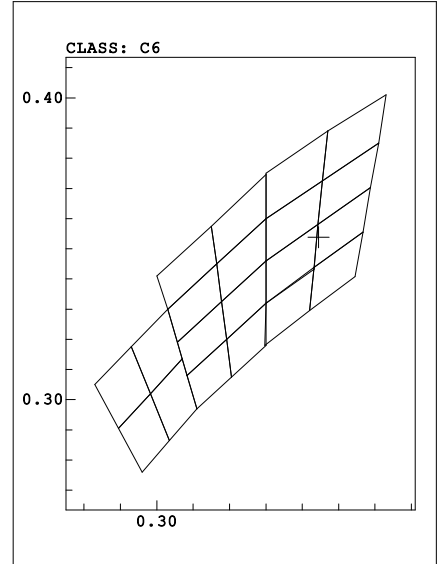
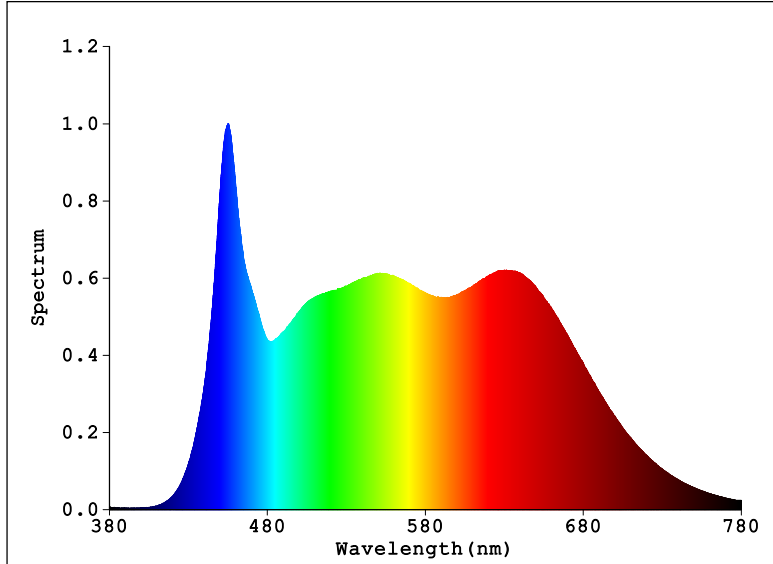
VF = 2.949 V IF = 59.90 mA P = 176.6 mW Ch1
 LEVEL:418 WHITE:OUT

Status: T=185.00ms Ip=58083 (89%) [PHAD=98] [HAAS2000_V1_USB] V2.00.167

Model:2
 Tester:DAMIN
 Temperature:25.3Deg
 Manufactory:EVERFINE
 Assessor:damin
 System:WY + HAAS2000_V1_USB

Number:800
 Date:2018-12-25
 Humidity:65.0%
 Remarks:---

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3444$ $y=0.3539$ $u'=0.2101$ $v'=0.4857$ $duv=1.403e-003$
 Tc=5033K Dominant WL:Ld=570.8nm Purity=9.5%
 Ratio:R=19.1% G=75.5% B=5.5% Peak WL:Lp=455.2nm HWL:30.3nm
 Render Index:Ra=97.5
 R1 =98 R2 =99 R3 =98 R4 =97 R5 =97 R6 =96 R7 =97
 R8 =97 R9 =96 R10=99 R11=98 R12=77 R13=99 R14=99 R15=96

Photo Parameters:

Flux = 21.79 lm Eff. : 121.36 lm/W Fe = 80.14 mW

Electrical parameters:

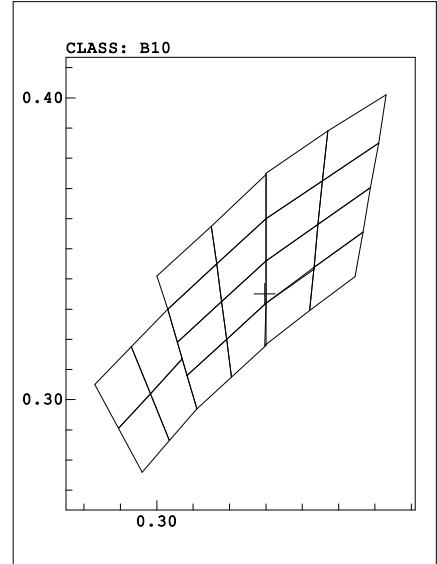
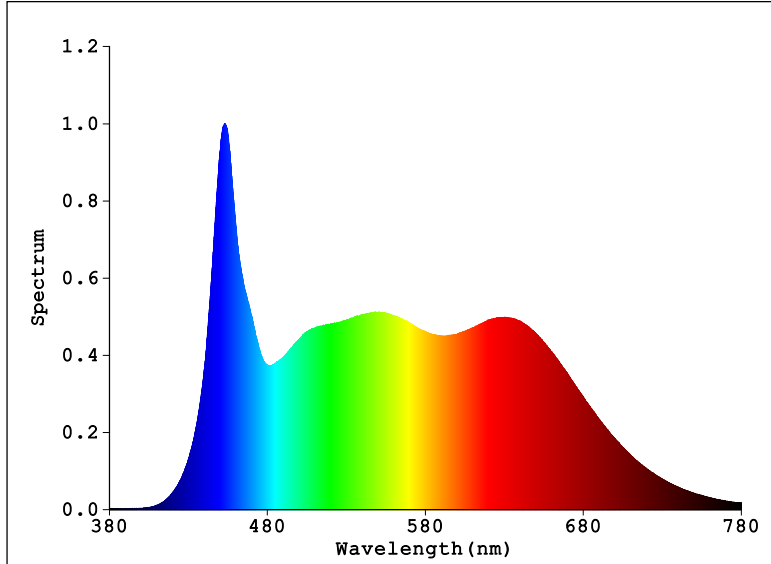
VF = 2.993 V IF = 60.00 mA P = 179.5 mW Ch1
 LEVEL:418 WHITE:C6

Status: T=179.00ms Ip=50599 (77%) [HAAS2000_V1_USB] V2.00.227

Model:
 Tester:
 Temperature:Deg
 Manufactory:
 Assessor:damin
 System:WY + HAAS2000_V1_USB

Number:70
 Date:2016-04-29 11-09
 Humidity:%
 Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3296$ $y=0.3350$ $u'=0.2073$ $v'=0.4740$ $duv=-1.852e-003$
 Tc=5626K Dominant WL:Ld=497.8nm Purity=1.2%
 Ratio:R=18.5% G=75.7% B=5.9% Peak WL:Lp=453.0nm HWL:27.1nm
 Render Index:Ra=96.9
 R1 =96 R2 =98 R3 =96 R4 =99 R5 =97 R6 =95 R7 =99
 R8 =96 R9 =88 R10=98 R11=97 R12=77 R13=97 R14=97 R15=94

Photo Parameters:

Flux = 20.31 lm Eff. : 110.97 lm/W Fe = 76.00 mW

Electrical parameters:

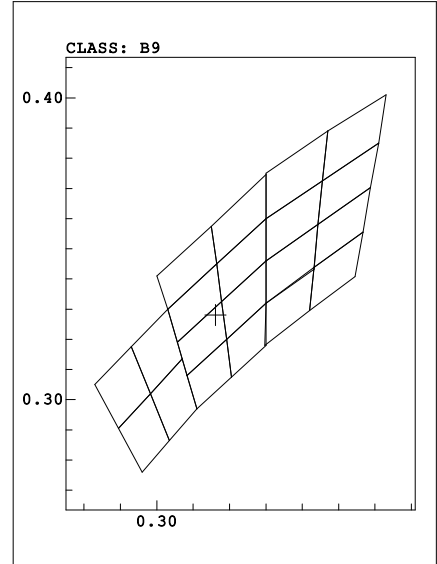
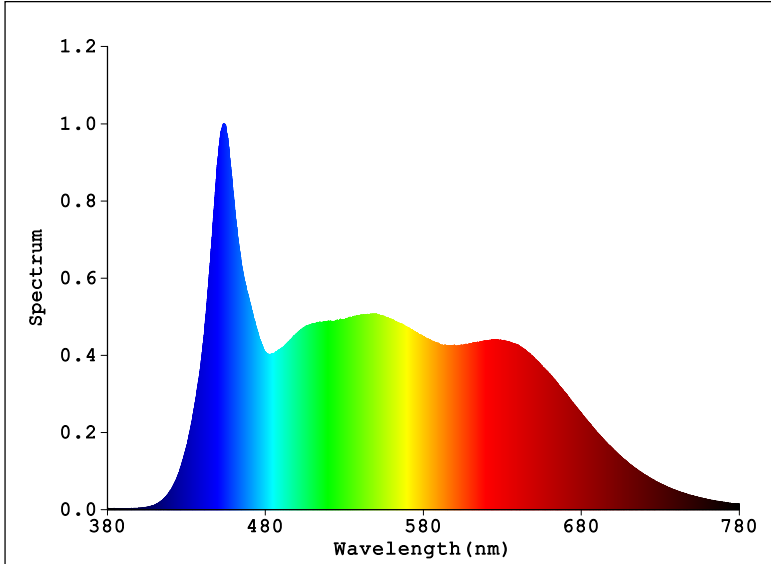
VF = 3.051 V IF = 60.00 mA P = 183.0 mW Ch1
 LEVEL:518 WHITE:B10

Status: T=156.00ms Ip=41994 (64%) [PHAD=94] [HAAS2000_V1_USB] V2.00.167

Model:
 Tester:
 Temperature:Deg
 Manufactory:
 Assessor:damin
 System:WY + HAAS2000_V1_USB

Number:2631
 Date:2016-10-19
 Humidity:%
 Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3161$ $y=0.3281$ / $u'=0.2006$ $v'=0.4683$ $duv=9.958e-004$
 Tc=6329K Dominant WL:Ld=487.7nm Purity=6.2%
 Ratio:R=17.0% G=76.6% B=6.4% Peak WL:Lp=453.5nm HWL:30.0nm
 Render Index:Ra=97.0
 R1 =98 R2 =99 R3 =97 R4 =97 R5 =96 R6 =95 R7 =97
 R8 =97 R9 =98 R10=97 R11=98 R12=74 R13=99 R14=98 R15=96

Photo Parameters:

Flux = 20.17 lm Eff. : 107.59 lm/W Fe = 74.97 mW

Electrical parameters:

VF = 3.124 V IF = 60.00 mA P = 187.4 mW Ch1
 LEVEL:518 WHITE:B9

Status: T=179.00ms Ip=47280 (72%) [PHAD=95] [HAAS2000_V1_USB] V2.00.167

Model:
 Tester:DAMIN
 Temperature:25.3Deg
 Manufactory:BIT
 Assessor:damin
 System:WY + HAAS2000_V1_USB

Number:5693
 Date:2016-07-29
 Humidity:65.0%
 Remarks: