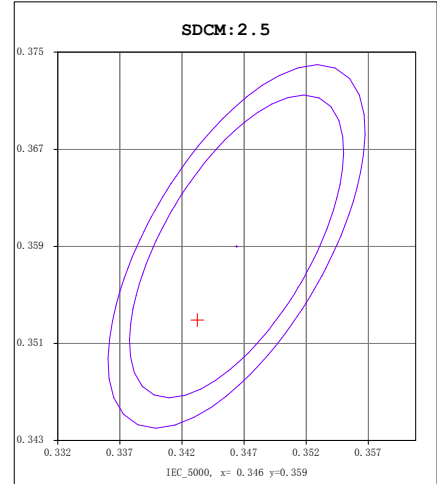
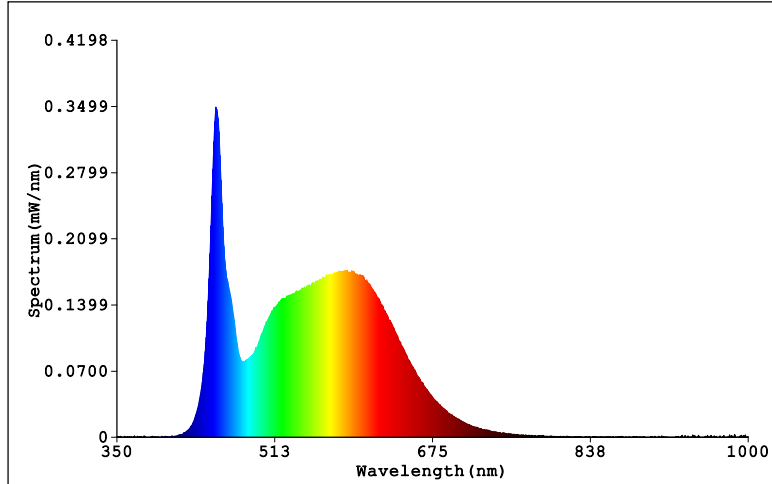


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3429$ $y=0.3531$ $u'=0.2093$ $v'=0.4851$ $duv=1.649e$
 Tc=5091K Dominant WL:Ld=569.6nm Purity=8.8%
 Ratio:R=15.9% G=79.1% B=5.0% Peak WL:Lp=452.1nm HWL:16.9nm
 Render Index:Ra=85.2
 R1 =83.98 R2 =91.41 R3 =94.76 R4 =83.91 R5 =84.39
 R6 =86.93 R7 =87.01 R8 =68.82 R9 =15.51 R10=78.83
 R11=83.59 R12=61.76 R13=86.37 R14=97.61 R15=79.03
 TM30 Parameters: Rf = 82.5, Rg:94.8

Photo Parameters:

Flux = 11.21 lm Eff. : 209.71 lm/W Fe = 35.16 mW Eff.=65.744%

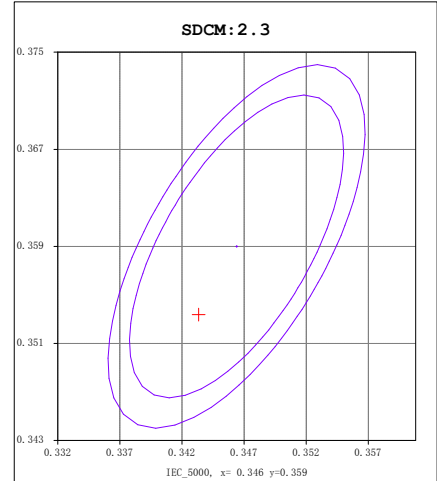
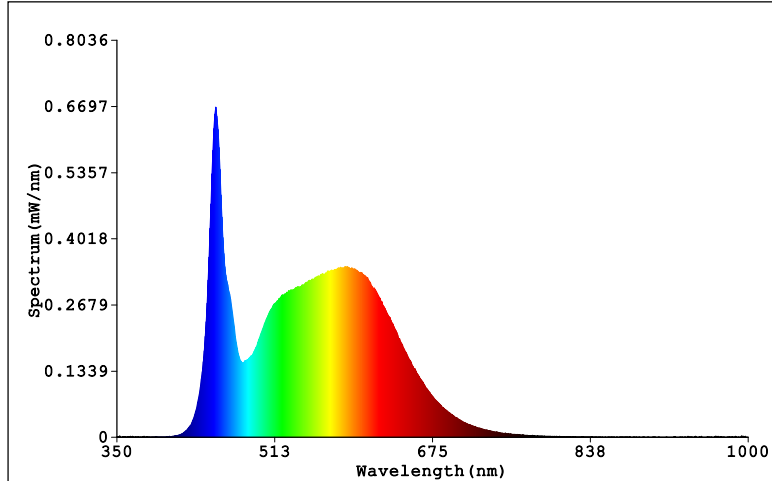
Electrical parameters:

VF = 2.676 V IF = 19.98 mA P = 53.48 mW Ch1
 IR = 0 uA (VR = 8.000 V)
 LEVEL:New Class WHITE:ANSI_5000K

Status: T=900.00ms Ip=21715 (33%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:5
Tester:1	Date:2022-04-08 15-52
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3430$ $y=0.3535$ $u'=0.2092$ $v'=0.4853$ $duv=1.824e$

Tc=5089K Dominant WL:Ld=569.5nm Purity=9.0%

Ratio:R=15.9% G=79.3% B=4.9% Peak WL:Lp=452.1nm HWL:17.3nm

Render Index:Ra=84.9

R1 =83.53 R2 =90.62 R3 =94.32 R4 =84.14 R5 =84.15

R6 =86.22 R7 =87.23 R8 =68.76 R9 =14.23 R10=77.16

R11=83.81 R12=62.07 R13=85.70 R14=97.25 R15=78.50

TM30 Parameters: Rf = 82.6, Rg:95.0

Photo Parameters:

Flux = 21.95 lm Eff. : 198.61 lm/W Fe = 68.72 mW Eff.=62.160%

Electrical parameters:

VF = 2.764 V IF = 39.99 mA P = 110.5 mW Ch1

IR = 0 uA (VR = 8.000 V)

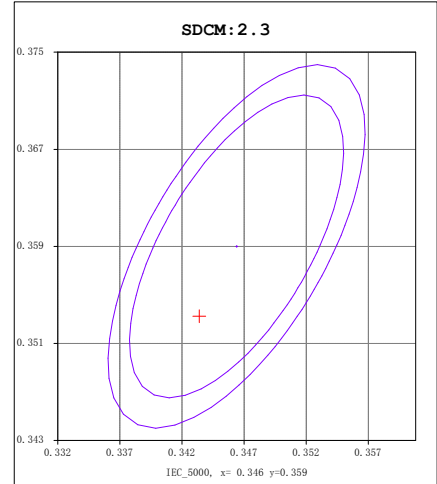
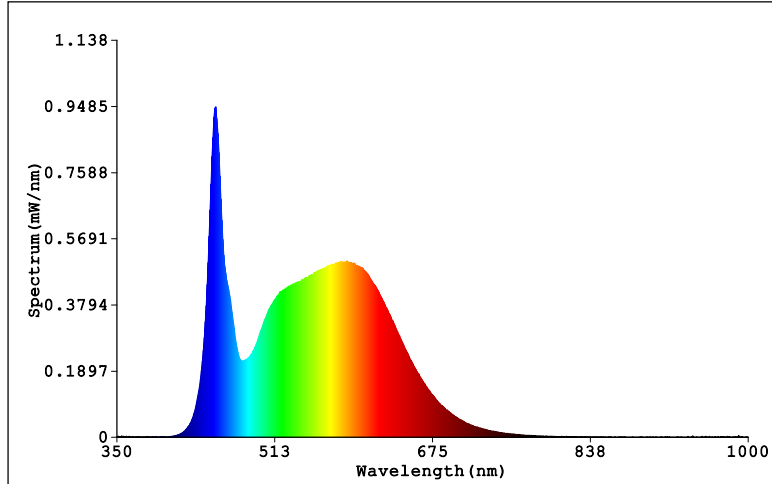
LEVEL:New Class

WHITE:ANSI_5000K

Status: T=900.00ms Ip=40109 (61%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:6
Tester:1	Date:2022-04-08 15-52
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3430$ $y=0.3534$ $u'=0.2093$ $v'=0.4852$ $duv=1.738e$
 Tc=5087K Dominant WL:Ld=569.6nm Purity=8.9%
 Ratio:R=15.8% G=79.4% B=4.8% Peak WL:Lp=452.1nm HWL:18.1nm
 Render Index:Ra=84.7
 R1 =83.27 R2 =90.13 R3 =93.97 R4 =84.25 R5 =84.03
 R6 =85.79 R7 =87.26 R8 =68.70 R9 =13.47 R10=76.15
 R11=83.91 R12=62.56 R13=85.29 R14=97.00 R15=78.22
 TM30 Parameters: Rf = 82.6, Rg:95.2

Photo Parameters:

Flux = 32.10 lm Eff. : 188.52 lm/W Fe = 100.4 mW Eff.=58.998%

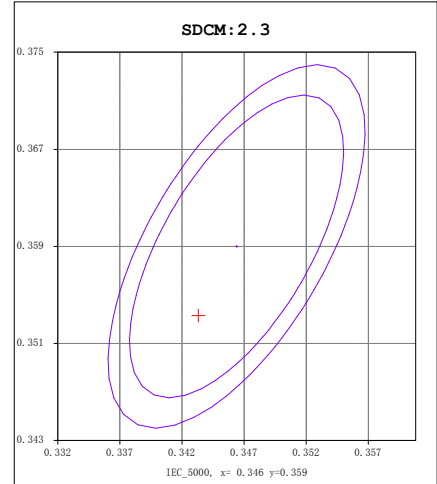
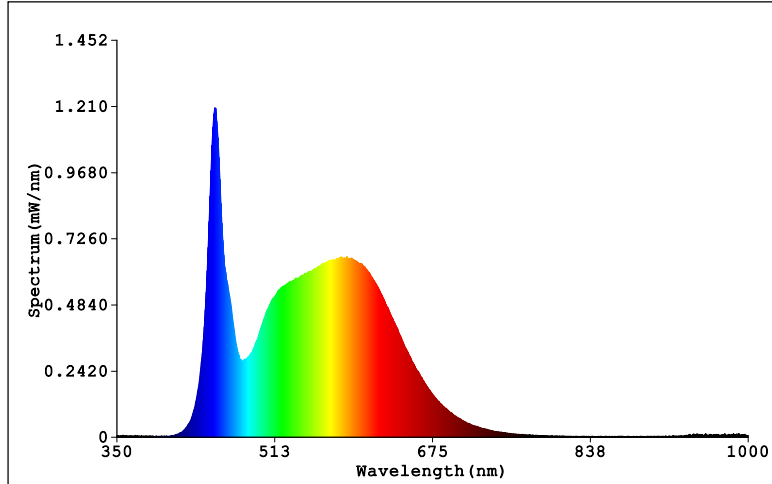
Electrical parameters:

VF = 2.837 V IF = 60.00 mA P = 170.2 mW Ch1
 IR = 0 uA (VR = 8.000 V)
 LEVEL:New Class WHITE:ANSI_5000K

Status: T=900.00ms Ip=56387 (86%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:7
Tester:1	Date:2022-04-08 15-52
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3429$ $y=0.3534$ $u'=0.2092$ $v'=0.4852$ $duv=1.800e$
 $T_c=5089K$ Dominant WL:Ld=569.5nm Purity=8.9%
 Ratio:R=15.8% G=79.5% B=4.8% Peak WL:Lp=450.7nm HWL:18.8nm
 Render Index:Ra=84.4
 R1 =82.97 R2 =89.67 R3 =93.63 R4 =84.23 R5 =83.82
 R6 =85.36 R7 =87.27 R8 =68.60 R9 =12.63 R10=75.17
 R11=83.87 R12=62.84 R13=84.86 R14=96.77 R15=77.88
 TM30 Parameters: Rf = 82.6, Rg:95.3

Photo Parameters:

Flux = 41.93 lm Eff. : 180.18 lm/W Fe = 132.3 mW Eff.=56.859%

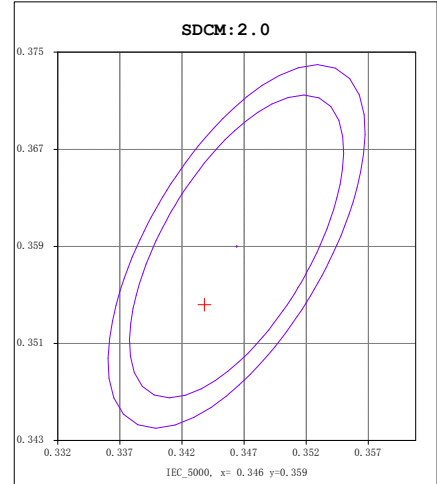
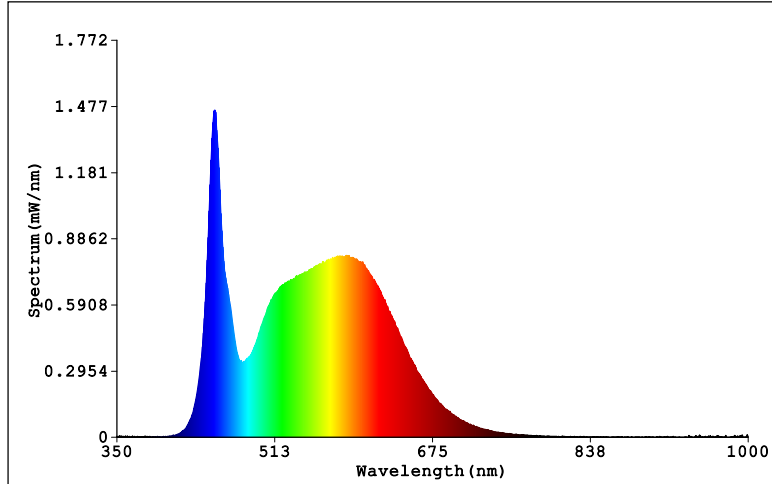
Electrical parameters:

VF = 2.909 V IF = 80.00 mA P = 232.7 mW Ch1
 IR = 0 uA (VR = 8.000 V)
 LEVEL:New Class WHITE:ANSI_5000K

Status: T=600.00ms Ip=48026 (73%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:8
Tester:1	Date:2022-04-08 15-52
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3434$ $y=0.3543$ $u'=0.2092$ $v'=0.4857$ $duv=2.035e$
 $T_c=5073K$ Dominant WL:Ld=569.6nm Purity=9.4%
 Ratio:R=15.7% G=79.6% B=4.7% Peak WL:Lp=450.7nm HWL:18.6nm
 Render Index:Ra=84.1
 R1 =82.49 R2 =89.12 R3 =93.30 R4 =84.09 R5 =83.47
 R6 =84.85 R7 =87.16 R8 =68.16 R9 =10.90 R10=74.02
 R11=83.76 R12=62.82 R13=84.28 R14=96.55 R15=77.24
 TM30 Parameters: Rf = 82.5, Rg:95.4

Photo Parameters:

Flux = 51.63 lm Eff. : 173.90 lm/W Fe = 161.2 mW Eff.=54.314%

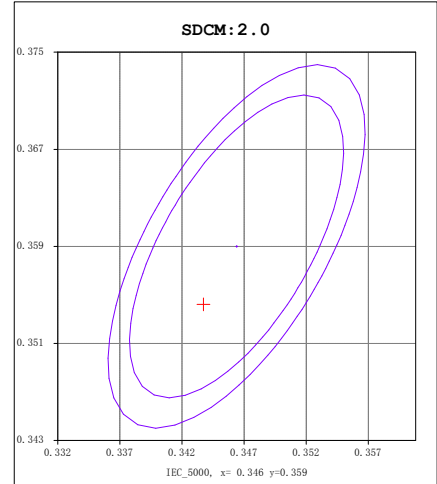
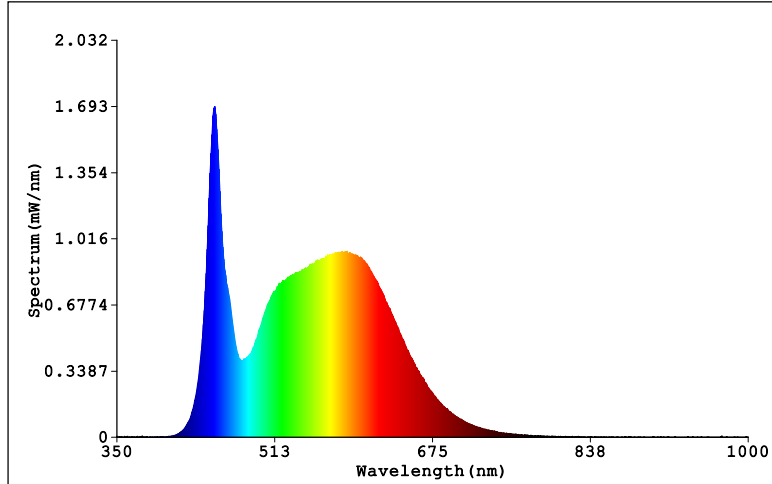
Electrical parameters:

VF = 2.968 V IF = 100.0 mA P = 296.9 mW Ch1
 IR = 0 uA (VR = 8.000 V)
 LEVEL:New Class WHITE:ANSI_5000K

Status: T=200.00ms Ip=19028 (29%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:9
Tester:1	Date:2022-04-08 15-52
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3433$ $y=0.3543$ $u'=0.2092$ $v'=0.4857$ $duv=2.070e$
 Tc=5077K Dominant WL:Ld=569.5nm Purity=9.3%
 Ratio:R=15.7% G=79.6% B=4.6% Peak WL:Lp=450.9nm HWL:19.2nm
 Render Index:Ra=84.0
 R1 =82.37 R2 =88.88 R3 =93.12 R4 =84.13 R5 =83.40
 R6 =84.65 R7 =87.16 R8 =68.11 R9 =10.42 R10=73.54
 R11=83.82 R12=63.14 R13=84.09 R14=96.43 R15=77.08
 TM30 Parameters: Rf = 82.5, Rg:95.4

Photo Parameters:

Flux = 60.61 lm Eff. : 166.55 lm/W Fe = 188.7 mW Eff.=51.873%

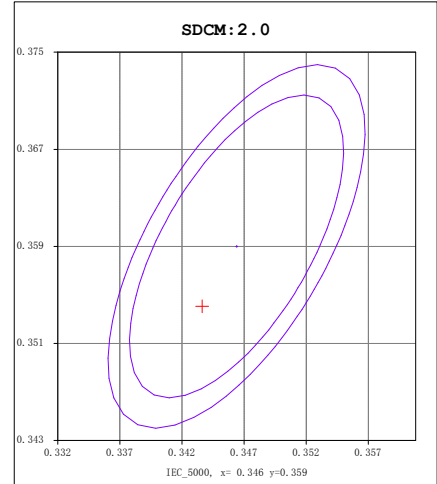
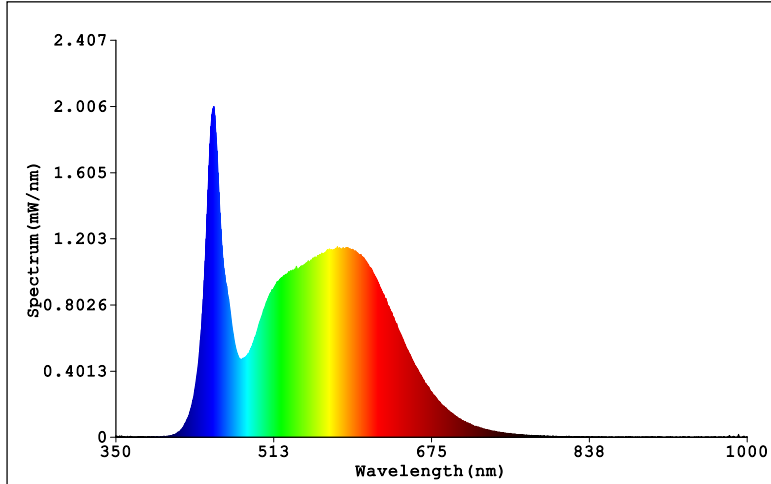
Electrical parameters:

VF = 3.038 V IF = 119.7 mA P = 363.9 mW Ch1
 IR = 0 uA (VR = 8.000 V)
 LEVEL:New Class WHITE:ANSI_5000K

Status: T=200.00ms Ip=21907 (33%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:11
Tester:1	Date:2022-04-08 15-53
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3432$ $y=0.3542$ $u'=0.2092$ $v'=0.4856$ $duv=2.034e$
 Tc=5080K Dominant WL:Ld=569.5nm Purity=9.3%
 Ratio:R=15.7% G=79.7% B=4.6% Peak WL:Lp=451.0nm HWL:20.1nm
 Render Index:Ra=83.9
 R1 =82.23 R2 =88.61 R3 =92.88 R4 =84.13 R5 =83.33
 R6 =84.42 R7 =87.12 R8 =68.10 R9 =10.09 R10=72.97
 R11=83.82 R12=63.61 R13=83.85 R14=96.27 R15=76.93
 TM30 Parameters: Rf = 82.4, Rg:95.4

Photo Parameters:

Flux = 73.42 lm Eff. : 156.73 lm/W Fe = 229.1 mW Eff.=48.90%

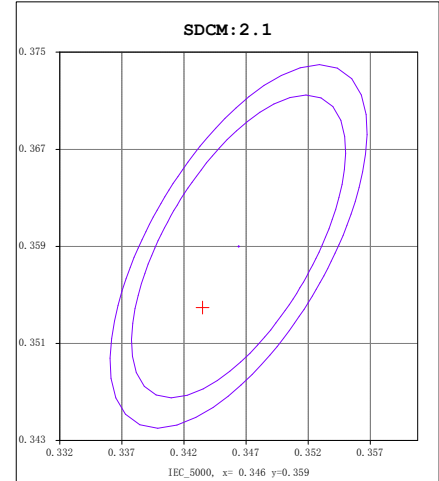
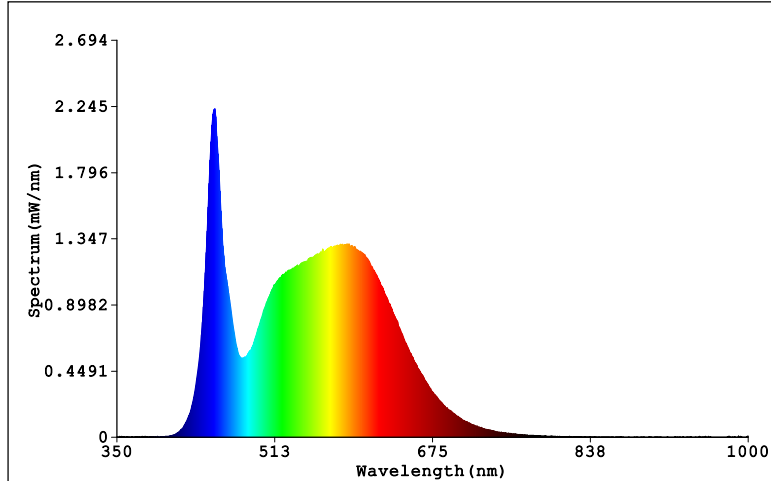
Electrical parameters:

VF = 3.126 V IF = 149.8 mA P = 468.4 mW Ch1
 IR = 0 uA (VR = 8.000 V)
 LEVEL:New Class WHITE:ANSI_5000K

Status: T=200.00ms Ip=25962 (40%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:12
Tester:1	Date:2022-04-08 15-53
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3431$ $y=0.3541$ / $u'=0.2091$ $v'=0.4856$ $duv=2.040e$
 Tc=5084K Dominant WL:Ld=569.4nm Purity=9.2%
 Ratio:R=15.7% G=79.7% B=4.6% Peak WL:Lp=450.7nm HWL:20.7nm
 Render Index:Ra=83.8
 R1 =82.15 R2 =88.49 R3 =92.79 R4 =84.15 R5 =83.31
 R6 =84.35 R7 =87.08 R8 =68.05 R9 =9.79 R10=72.73
 R11=83.88 R12=64.03 R13=83.74 R14=96.21 R15=76.81
 TM30 Parameters: Rf = 82.4, Rg:95.5

Photo Parameters:

Flux = 83.44 lm Eff. : 149.03 lm/W Fe = 260.6 mW Eff.=46.540%

Electrical parameters:

VF = 3.198 V IF = 175.0 mA P = 559.9 mW Ch1
 IR = 0 uA (VR = 8.000 V)
 LEVEL:New Class WHITE:ANSI_5000K

Status: T=200.00ms Ip=28927 (44%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:13
Tester:1	Date:2022-04-08 15-53
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	