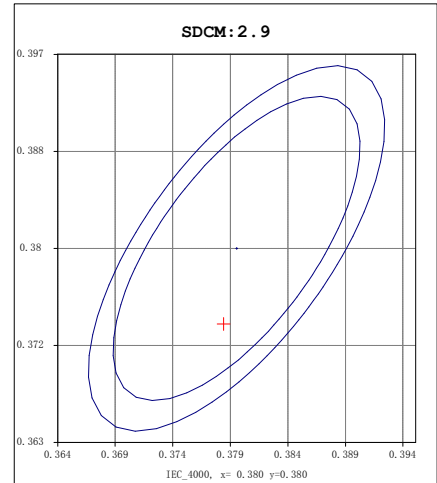
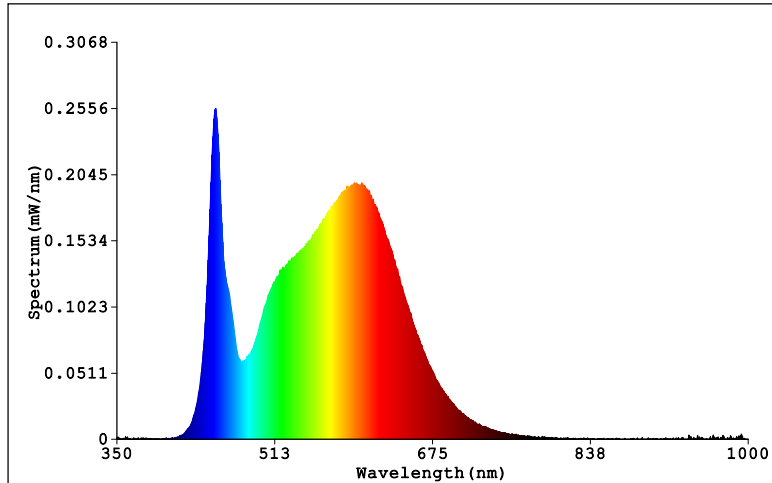


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3789$ $y=0.3734$ $u'=0.2254$ $v'=0.4999$ $duv=-1.109$

Tc=4019K Dominant WL:Ld=579.6nm Purity=25.8%

Ratio:R=18.6% G=77.6% B=3.8% Peak WL:Lp=452.0nm HWL:18.4nm

Render Index:Ra=84.6

R1 =83.57 R2 =91.20 R3 =95.60 R4 =83.30 R5 =83.51

R6 =87.08 R7 =86.21 R8 =66.49 R9 =15.03 R10=78.58

R11=82.71 R12=62.96 R13=85.70 R14=97.95 R15=77.91

TM30 Parameters: Rf = 82.8, Rg:95.9

Photo Parameters:

Flux = 11.37 lm Eff. : 211.28 lm/W Fe = 34.86 mW Eff.=64.73%

Electrical parameters:

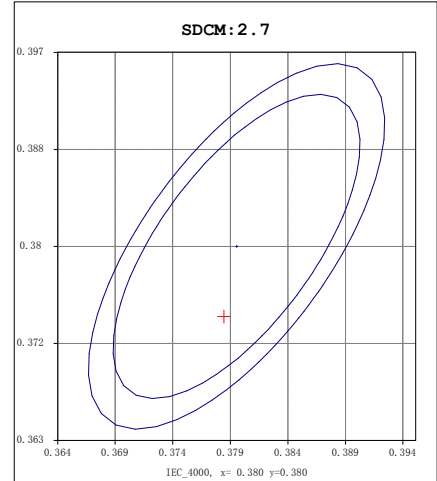
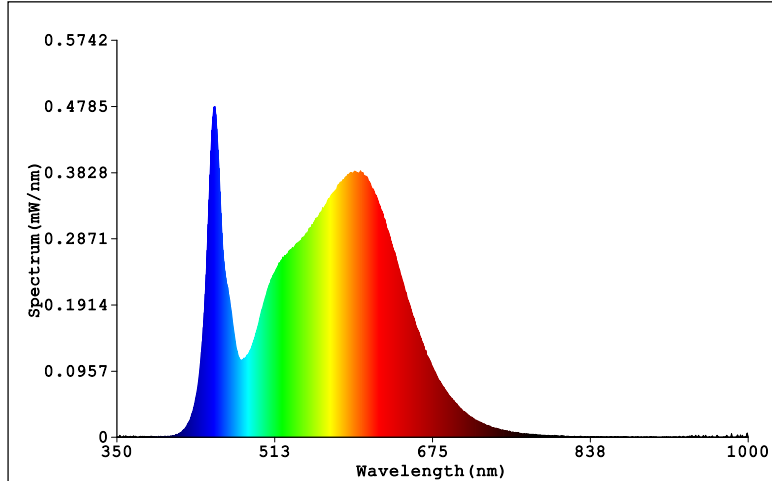
VF = 2.695 V IF = 19.98 mA P = 53.85 mW Ch1

LEVEL:New Class WHITE:ANSI_4000K

Status: T=900.00ms Ip=16521 (25%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:66
Tester:1	Date:2022-04-08 16-15
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): $x=0.3789$ $y=0.3739$ $u'=0.2252$ $v'=0.5001$ $duv=-8.970$

Tc=4021K Dominant WL:Ld=579.5nm Purity=25.9%

Ratio:R=18.5% G=77.8% B=3.7% Peak WL:Lp=451.0nm HWL:19.1nm

Render Index:Ra=84.2

R1 =82.96 R2 =90.32 R3 =95.14 R4 =83.32 R5 =83.05

R6 =86.20 R7 =86.30 R8 =66.19 R9 =13.28 R10=76.73

R11=82.71 R12=63.33 R13=84.89 R14=97.55 R15=77.22

TM30 Parameters: Rf = 82.5, Rg:96.0

Photo Parameters:

Flux = 22.16 lm Eff. : 198.94 lm/W Fe = 67.77 mW Eff.=60.821%

Electrical parameters:

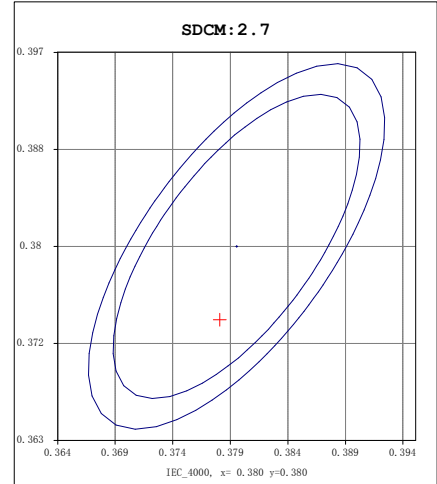
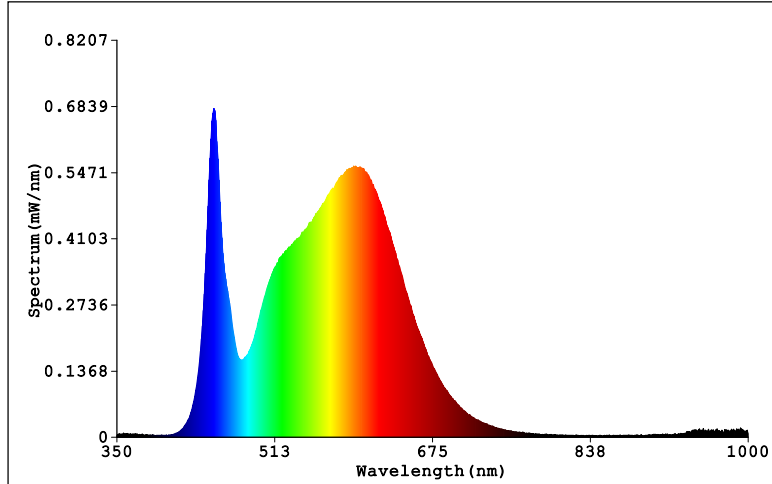
VF = 2.786 V IF = 39.99 mA P = 111.4 mW Ch1

LEVEL:New Class WHITE:ANSI_4000K

Status: T=900.00ms Ip=31131 (48%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:67
Tester:1	Date:2022-04-08 16-15
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): $x=0.3785$ $y=0.3736$ $u'=0.2251$ $v'=0.4999$ $duv=-9.170$

Tc=4028K Dominant WL:Ld=579.5nm Purity=25.7%

Ratio:R=18.5% G=77.9% B=3.7% Peak WL:Lp=449.4nm HWL:19.7nm

Render Index:Ra=84.0

R1 =82.72 R2 =89.88 R3 =94.81 R4 =83.39 R5 =82.90

R6 =85.78 R7 =86.33 R8 =66.17 R9 =12.70 R10=75.83

R11=82.80 R12=64.01 R13=84.52 R14=97.31 R15=76.96

TM30 Parameters: Rf = 82.5, Rg:96.3

Photo Parameters:

Flux = 32.31 lm Eff. : 188.07 lm/W Fe = 100.6 mW Eff.=58.561%

Electrical parameters:

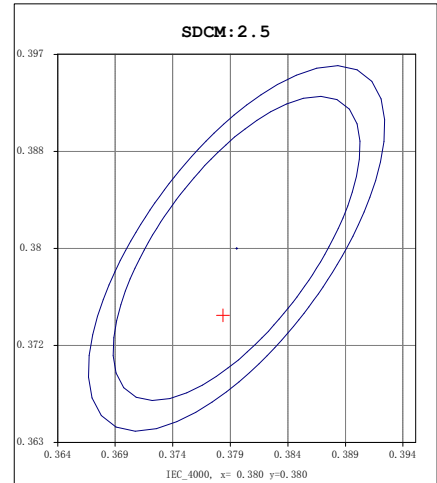
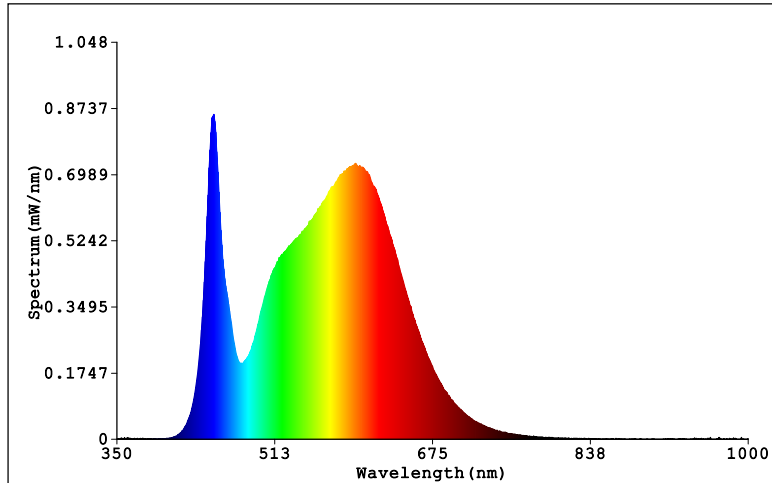
VF = 2.864 V IF = 60.00 mA P = 171.8 mW Ch1

LEVEL:New Class WHITE:ANSI_4000K

Status: T=900.00ms Ip=44747 (68%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:68
Tester:1	Date:2022-04-08 16-15
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): $x=0.3788$ $y=0.3742$ $u'=0.2251$ $v'=0.5002$ $duv=-7.319$

Tc=4026K Dominant WL:Ld=579.4nm Purity=26.0%

Ratio:R=18.4% G=78.0% B=3.6% Peak WL:Lp=449.4nm HWL:20.0nm

Render Index:Ra=83.7

R1 =82.35 R2 =89.37 R3 =94.46 R4 =83.32 R5 =82.58

R6 =85.24 R7 =86.31 R8 =65.94 R9 =11.59 R10=74.74

R11=82.75 R12=64.04 R13=84.04 R14=97.05 R15=76.53

TM30 Parameters: Rf = 82.3, Rg:96.4

Photo Parameters:

Flux = 41.88 lm Eff. : 178.61 lm/W Fe = 127.8 mW Eff.=54.526%

Electrical parameters:

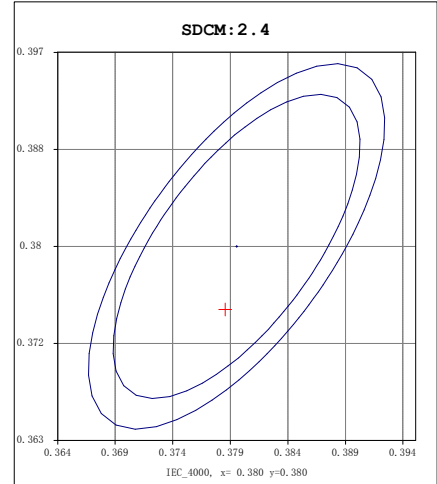
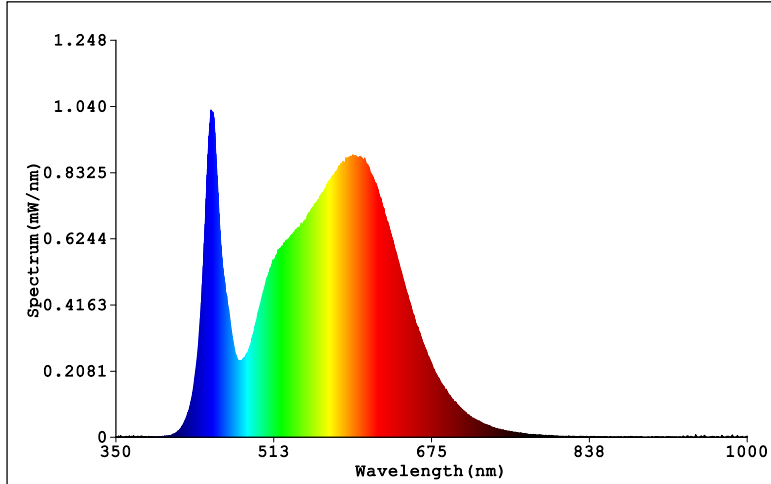
VF = 2.931 V IF = 80.00 mA P = 234.4 mW Ch1

LEVEL:New Class WHITE:ANSI_4000K

Status: T=500.00ms Ip=36431 (56%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:69
Tester:1	Date:2022-04-08 16-15
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): $x=0.3790$ $y=0.3745$ $u'=0.2251$ $v'=0.5004$ $duv=-6.361$

Tc=4021K Dominant WL:Ld=579.3nm Purity=26.1%

Ratio:R=18.4% G=78.0% B=3.6% Peak WL:Lp=449.4nm HWL:20.8nm

Render Index:Ra=83.5

R1 =82.10 R2 =89.06 R3 =94.28 R4 =83.25 R5 =82.39

R6 =84.97 R7 =86.21 R8 =65.65 R9 =10.62 R10=74.13

R11=82.72 R12=64.43 R13=83.72 R14=96.93 R15=76.17

TM30 Parameters: Rf = 82.2, Rg:96.4

Photo Parameters:

Flux = 51.26 lm Eff. : 170.92 lm/W Fe = 156.3 mW Eff.=52.128%

Electrical parameters:

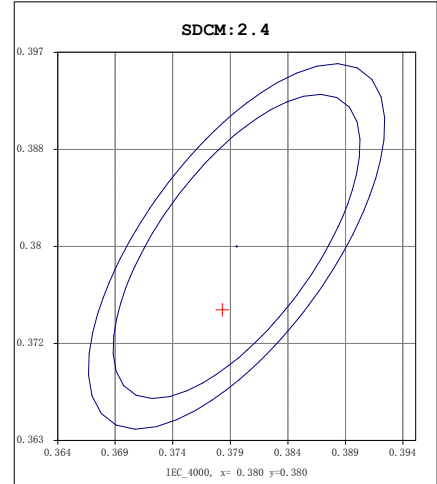
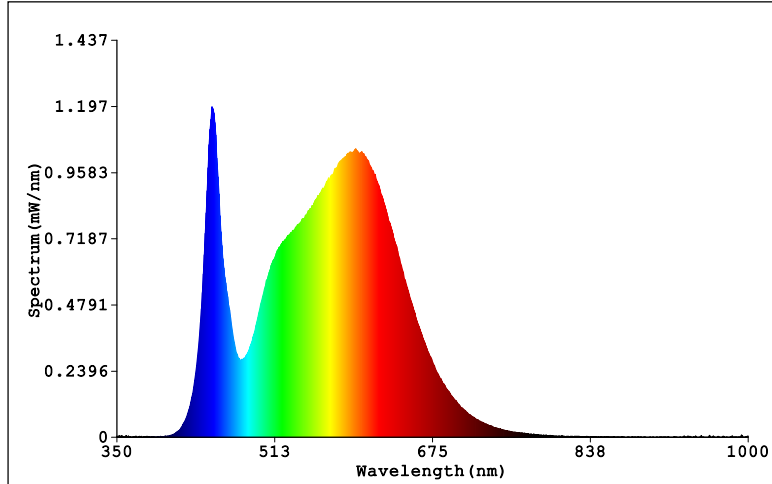
VF = 2.999 V IF = 100.0 mA P = 299.9 mW Ch1

LEVEL:New Class WHITE:ANSI_4000K

Status: T=300.00ms Ip=26971 (41%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:70
Tester:1	Date:2022-04-08 16-15
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): $x=0.3788$ $y=0.3745$ $u'=0.2249$ $v'=0.5003$ $duv=-5.7176$

Tc=4028K Dominant WL:Ld=579.3nm Purity=26.1%

Ratio:R=18.4% G=78.1% B=3.5% Peak WL:Lp=448.2nm HWL:21.5nm

Render Index:Ra=83.4

R1 =81.94 R2 =88.79 R3 =94.03 R4 =83.23 R5 =82.26

R6 =84.68 R7 =86.22 R8 =65.68 R9 =10.36 R10=73.54

R11=82.70 R12=64.60 R13=83.51 R14=96.76 R15=76.01

TM30 Parameters: Rf = 82.1, Rg:96.5

Photo Parameters:

Flux = 60.04 lm Eff. : 163.36 lm/W Fe = 183.1 mW Eff.=49.822%

Electrical parameters:

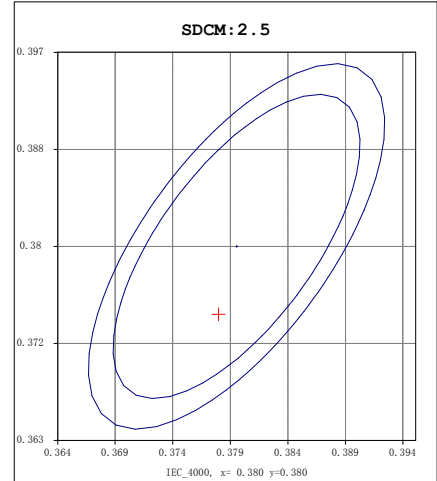
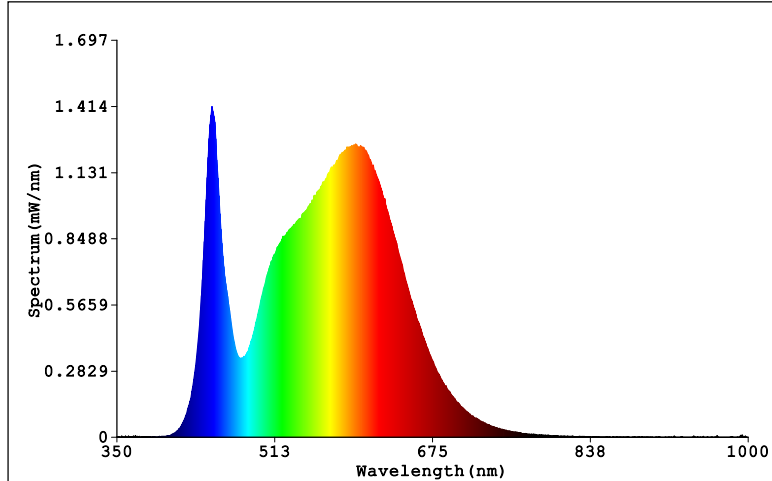
VF = 3.068 V IF = 119.7 mA P = 367.5 mW Ch1

LEVEL:New Class WHITE:ANSI_4000K

Status: T=300.00ms Ip=31413 (48%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:71
Tester:1	Date:2022-04-08 16-16
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): $x=0.3784$ $y=0.3741$ $u'=0.2248$ $v'=0.5001$ $duv=-6.550$

Tc=4035K Dominant WL:Ld=579.3nm Purity=25.8%

Ratio:R=18.3% G=78.2% B=3.5% Peak WL:Lp=448.0nm HWL:22.0nm

Render Index:Ra=83.2

R1 =81.80 R2 =88.59 R3 =93.86 R4 =83.20 R5 =82.18

R6 =84.49 R7 =86.16 R8 =65.62 R9 =9.99 R10=73.12

R11=82.68 R12=65.09 R13=83.31 R14=96.65 R15=75.89

TM30 Parameters: Rf = 82.0, Rg:96.5

Photo Parameters:

Flux = 72.42 lm Eff. : 152.96 lm/W Fe = 221.1 mW Eff.=46.697%

Electrical parameters:

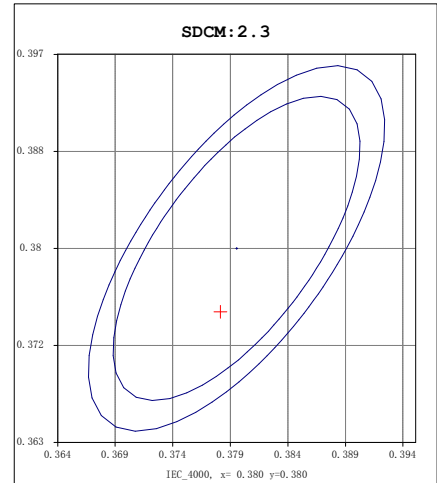
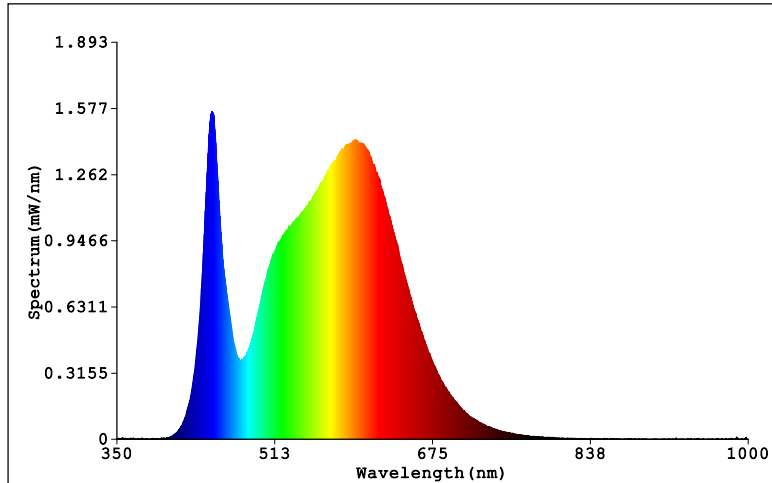
VF = 3.159 V IF = 149.8 mA P = 473.4 mW Ch1

LEVEL:New Class WHITE:ANSI_4000K

Status: T=300.00ms Ip=37699 (58%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:72
Tester:1	Date:2022-04-08 16-16
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): $x=0.3786$ $y=0.3745$ $u'=0.2248$ $v'=0.5003$ $duv=-5.175$

$T_c=4035K$ Dominant WL:Ld=579.2nm Purity=26.0%

Ratio:R=18.3% G=78.2% B=3.5% Peak WL:Lp=447.6nm HWL:22.6nm

Render Index:Ra=83.2

R1 =81.73 R2 =88.42 R3 =93.73 R4 =83.27 R5 =82.13

R6 =84.36 R7 =86.17 R8 =65.59 R9 =9.65 R10=72.76

R11=82.80 R12=65.39 R13=83.18 R14=96.55 R15=75.74

TM30 Parameters: Rf = 82.0, Rg:96.6

Photo Parameters:

Flux = 82.48 lm Eff. : 145.66 lm/W Fe = 251.6 mW Eff.=44.435%

Electrical parameters:

VF = 3.235 V IF = 175.0 mA P = 566.2 mW Ch1

LEVEL:New Class WHITE:ANSI_4000K

Status: T=200.00ms Ip=27974 (43%) [HAAS2000_V3_USB] V2.00.292

Model:	Number:73
Tester:1	Date:2022-04-08 16-16
Temperature:25.3Deg	Humidity:65%
Manufactory:	Remarks:4
Assessor:damin	
System:LTS-300_100V + HAAS2000_V3_USB	