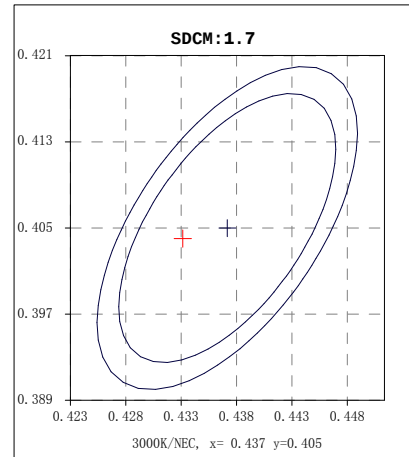
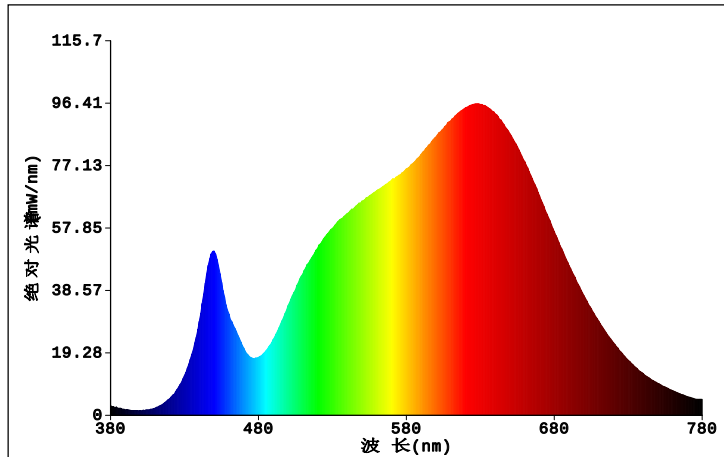


光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.4330$ $y=0.4040$ / $u'=0.2480$ $v'=0.5208$ $duv=5.465e-004$ 相关色温: $T_c=3067K$ 主波长: $\lambda_d=582.3nm$ 色纯度: Purity=51.2%色比: R=23.7% G=73.7% B=2.5% 峰值波长: $\lambda_p=627.4nm$ 半宽度: $\Delta\lambda_d=172.8nm$ 显色指数: $R_a=92.2$ $AvgR=89.3$ $K_{red}=16.74\%$ 平均波长 $\lambda_{av}=602.6nm$

R1 =93.19 R2 =93.64 R3 =92.27 R4 =93.37 R5 =91.85

R6 =91.00 R7 =94.63 R8 =87.80 R9 =69.07 R10=83.63

R11=93.35 R12=77.18 R13=93.01 R14=94.83 R15=91.05

TM30 参数: $R_f = 91.5$, $R_g:101.4$

光度参数:

光通量 $\Phi = 4915 lm$ 光效: $113.87 lm/W$ $\phi_e = 17526 mW$ 光量子 $= 8.704e+001 \mu mol/s$ 荧光蓝光比=8.5 荧光效能 $= 3.634e-001$

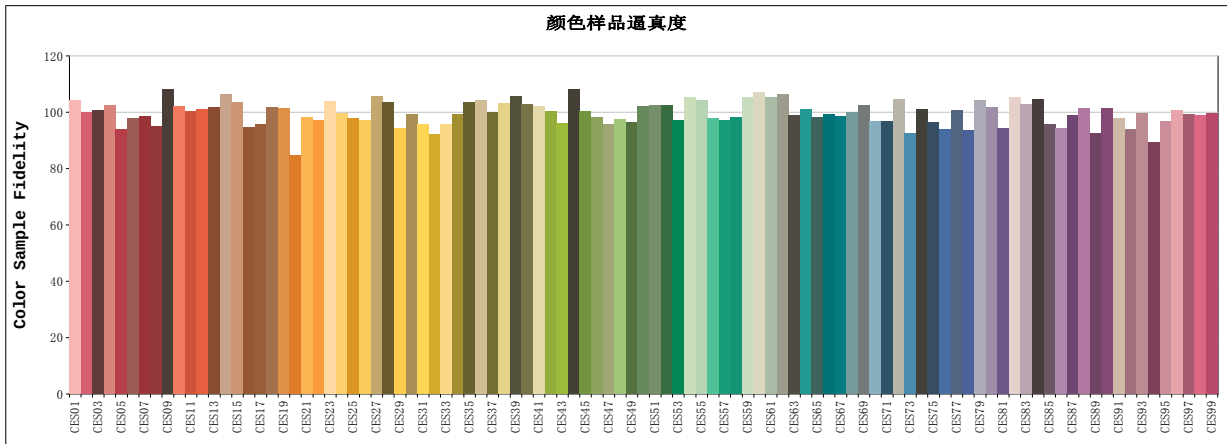
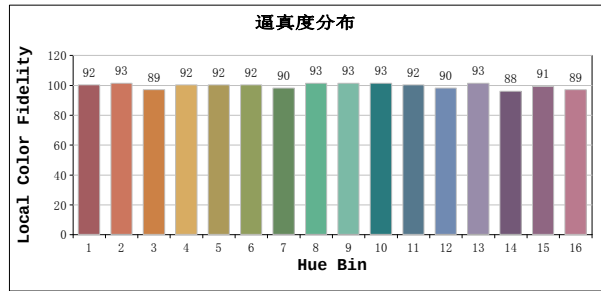
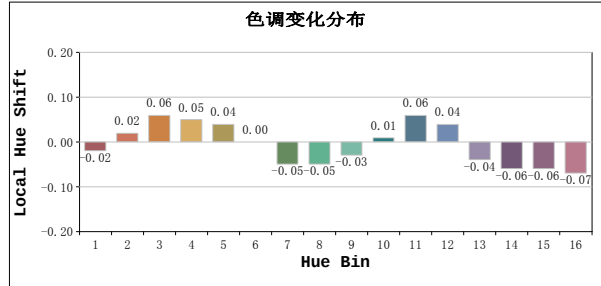
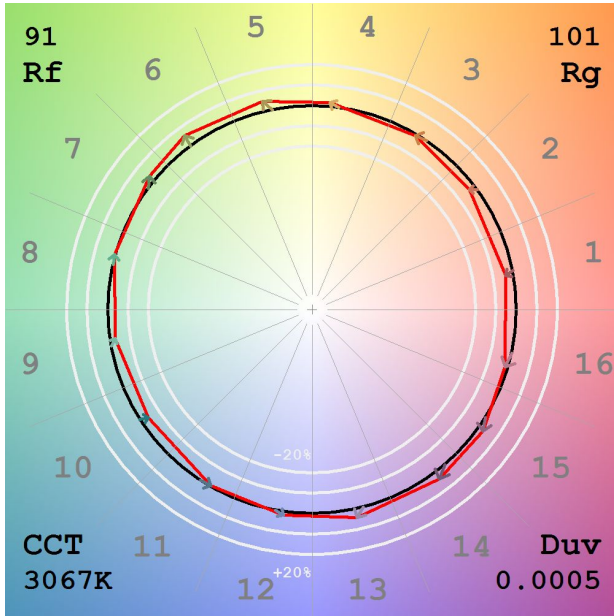
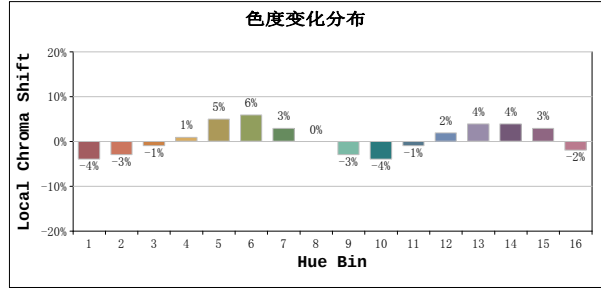
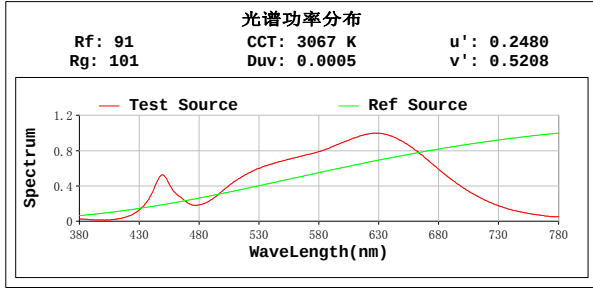
电参数:

正向电压 $V_F = 35.98 V$ 正向电流 $I_F = 1200 mA$ 功率 $P = 43160 mW$ Ch1

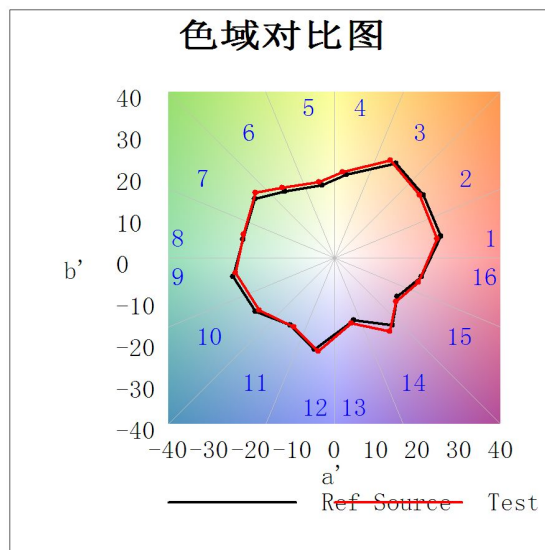
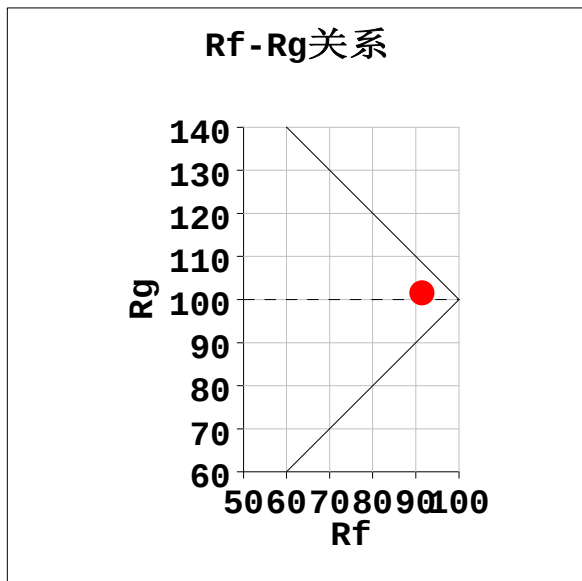
分级: *0[OUT] 白光分类: 3000K

仪器状态: 积分时间 $T=59.00ms$ $I_p=52839 (81\%)$ [HAAS2000_V1_USB] V2.00.302产品型号: 3000K
测试人员: DAMIN
环境温度: 25.3°C
制造厂商: EVERFINE
审核人员: damin
测试仪器: WY + HAAS2000_V1_USB产品编号: 1
测试日期: 2023-11-18 15-02
环境湿度: 65.0%
备 注: ---

IES TM-30-18 Color Rendition Report



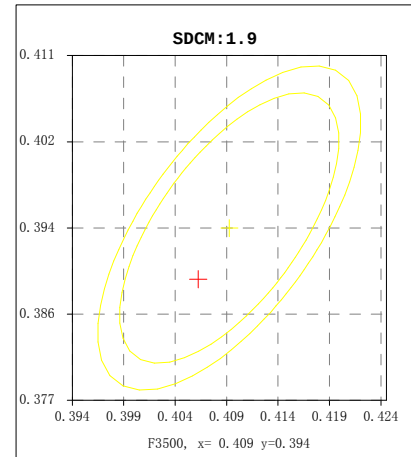
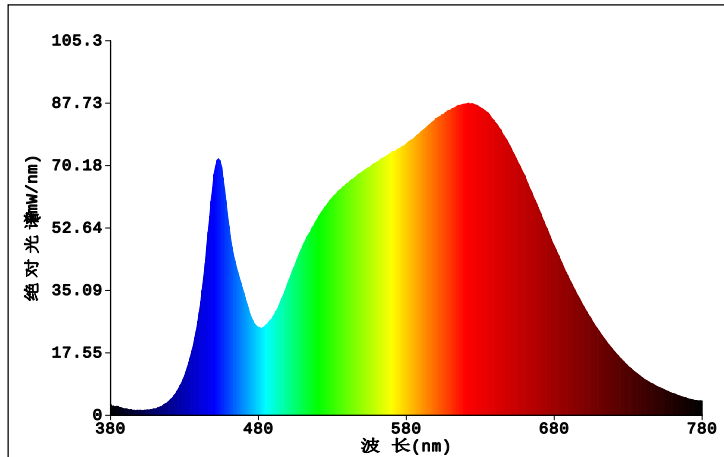
TM30 Report



数据分析表

			Graphic shift(%)	
Hue Bin	Hue Angle	Rf	Chroma	Hue
1	0.0° - 22.5°	92	-4	-2
2	22.5° - 45.0°	93	-3	2
3	45.0° - 67.5°	89	-1	6
4	67.5° - 90.0°	92	1	5
5	90.0° - 112.5°	92	5	4
6	112.5° - 135.0°	92	6	0
7	135.0° - 157.5°	90	3	-5
8	157.5° - 180.0°	93	0	-5
9	180.0° - 202.5°	93	-3	-3
10	202.5° - 225.0°	93	-4	1
11	225.0° - 247.5°	92	-1	6
12	247.5° - 270.0°	90	2	4
13	270.0° - 292.5°	93	4	-4
14	292.5° - 315.0°	88	4	-6
15	315.0° - 337.5°	91	3	-6
16	337.5° - 360.0°	89	-2	-7

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.4060$ $y=0.3890$ / $u'=0.2369$ $v'=0.5106$ $duv=-8.995e-004$ 相关色温: $T_c=3471K$ 主波长: $\lambda_d=581.4nm$ 色纯度: Purity=38.6%色比: R=21.7% G=75.1% B=3.2% 峰值波长: $\lambda_p=622.3nm$ 半宽度: $\Delta\lambda_d=177.9nm$ 显色指数: $R_a=92.2$ $AvgR=88.9$ $K_{red}=15.04\%$ 平均波长 $\lambda_{av}=591.0nm$

R1 =92.80 R2 =94.51 R3 =93.92 R4 =92.34 R5 =91.50

R6 =91.32 R7 =94.45 R8 =86.58 R9 =66.45 R10=85.15

R11=91.50 R12=72.86 R13=93.21 R14=95.93 R15=91.03

TM30 参数: $R_f = 91.1$, $R_g:100.6$

光度参数:

光通量 $\Phi = 4961 lm$ 光效: $116.20 lm/W$ $\phi_e = 17243 mW$ 光量子= $8.416e+001 \mu mol/s$ 荧光蓝光比=6.06 荧光效能= $3.467e-001$

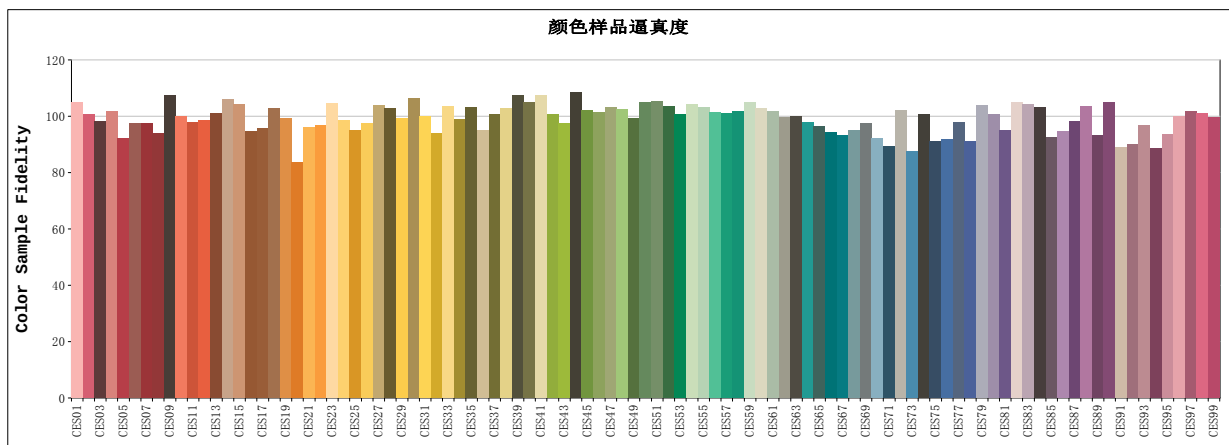
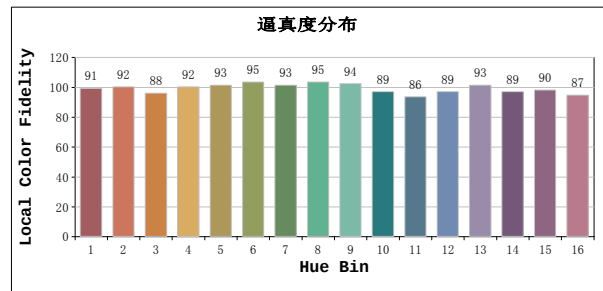
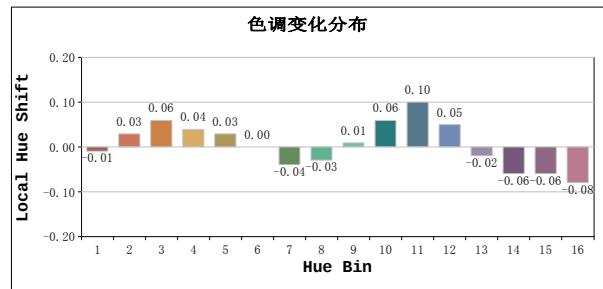
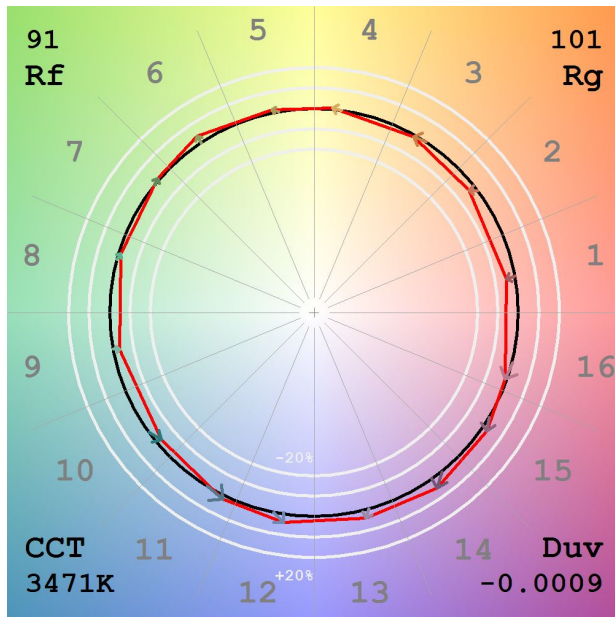
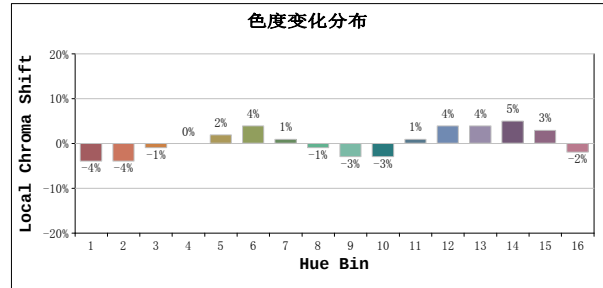
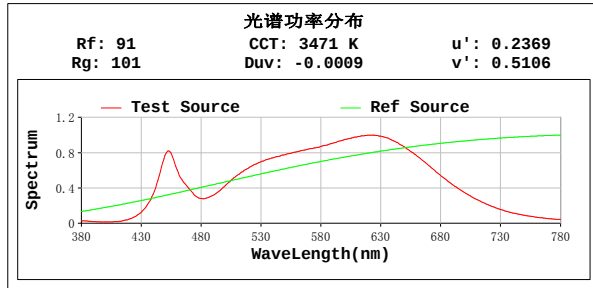
电参数:

正向电压 $V_F = 35.59 V$ 正向电流 $I_F = 1200 mA$ 功率 $P = 42696 mW$ Ch1

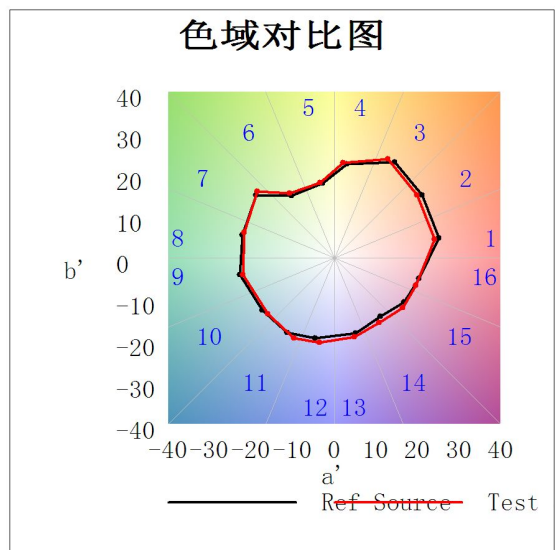
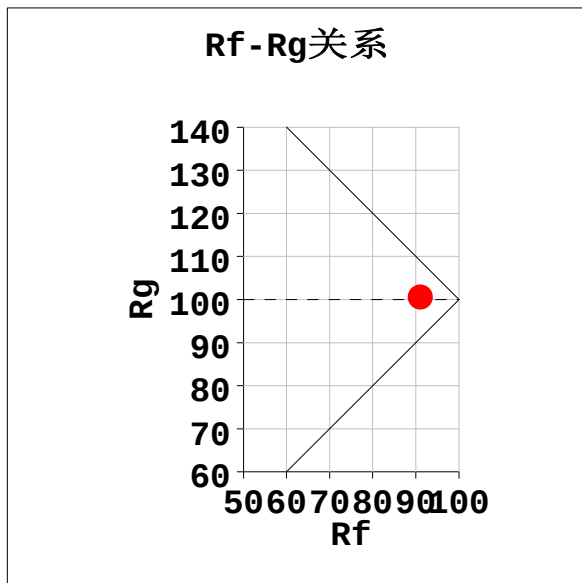
分级:*0[OUT] 白光分类:3500K

仪器状态: 积分时间 $T=63.00ms$ $I_p=51289 (78\%)$ [HAAS2000_V1_USB] V2.00.302产品型号:3500K
测试人员:DAMIN
环境温度:25.3℃
制造厂商:EVERFINE
审核人员:damin
测试仪器:WY + HAAS2000_V1_USB产品编号:2
测试日期:2023-11-18 15-09
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



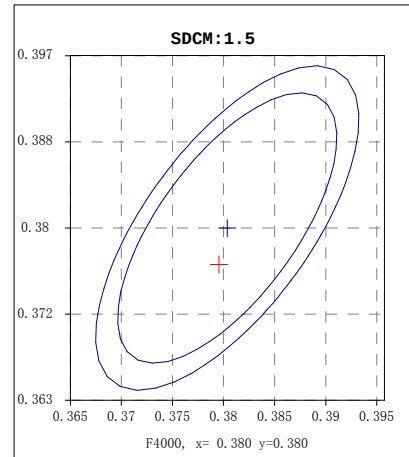
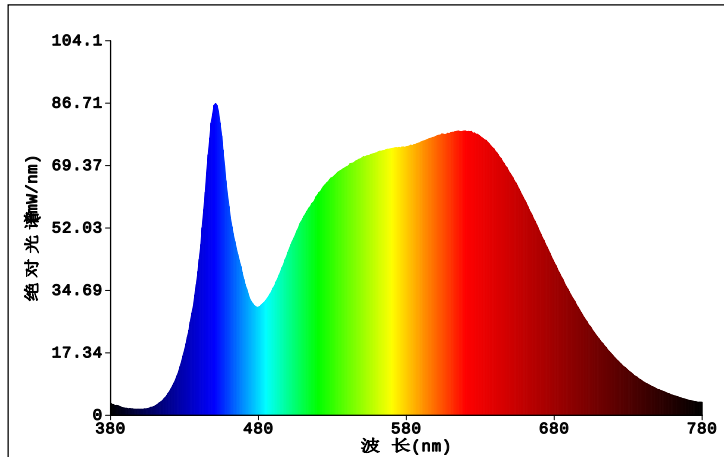
TM30 Report



数据分析表

			Graphic shift(%)	
Hue Bin	Hue Angle	Rf	Chroma	Hue
1	0.0° - 22.5°	91	-4	-1
2	22.5° - 45.0°	92	-4	3
3	45.0° - 67.5°	88	-1	6
4	67.5° - 90.0°	92	0	4
5	90.0° - 112.5°	93	2	3
6	112.5° - 135.0°	95	4	0
7	135.0° - 157.5°	93	1	-4
8	157.5° - 180.0°	95	-1	-3
9	180.0° - 202.5°	94	-3	1
10	202.5° - 225.0°	89	-3	6
11	225.0° - 247.5°	86	1	10
12	247.5° - 270.0°	89	4	5
13	270.0° - 292.5°	93	4	-2
14	292.5° - 315.0°	89	5	-6
15	315.0° - 337.5°	90	3	-6
16	337.5° - 360.0°	87	-2	-8

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.3792$ $y=0.3764$ / $u'=0.2244$ $v'=0.5013$ $duv=2.202e-004$ 相关色温: $T_c=4031K$ 主波长: $\lambda_d=578.8nm$ 色纯度: Purity=26.8%色比: R=19.5% G=76.6% B=3.9% 峰值波长: $\lambda_p=450.4nm$ 半宽度: $\Delta\lambda_d=26.8nm$ 显色指数: $R_a=92.6$ $AvgR=88.6$ $K_{red}=13.39\%$ 平均波长 $\lambda_{av}=579.0nm$

R1 =92.34 R2 =93.62 R3 =92.98 R4 =92.56 R5 =92.27

R6 =91.02 R7 =95.06 R8 =87.94 R9 =67.35 R10=83.47

R11=91.73 R12=71.74 R13=92.54 R14=95.66 R15=90.90

TM30 参数: $R_f = 91.5$, $R_g=99.9$

光度参数:

光通量 $\Phi = 5011 lm$ 光效: $116.75 lm/W$ $\phi_e = 17362 mW$ 光量子= $8.337e+001 \mu mol/s$ 荧光蓝光比=4.69 荧光效能= $3.335e-001$

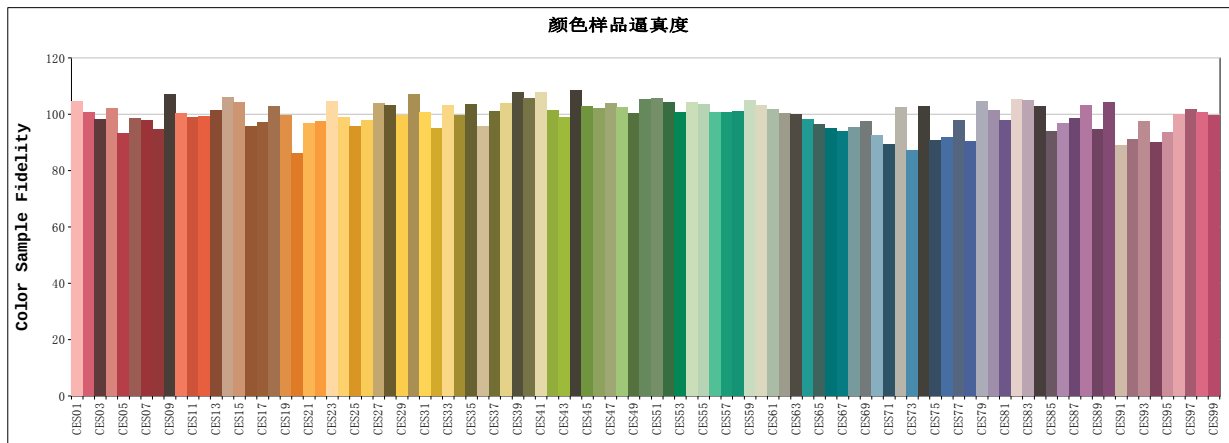
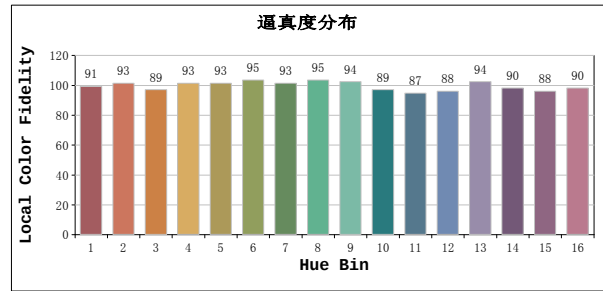
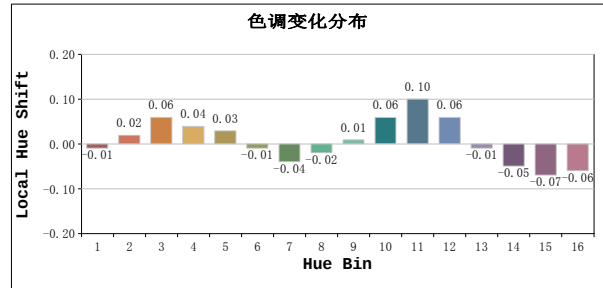
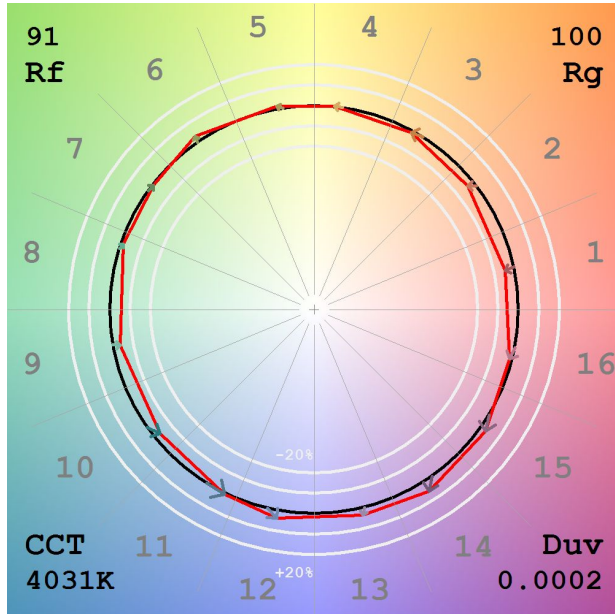
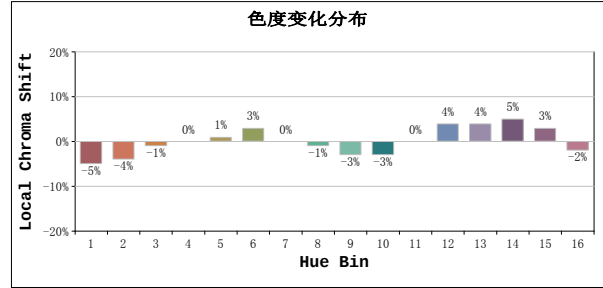
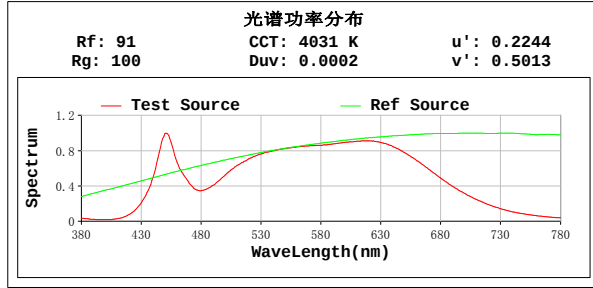
电参数:

正向电压 $V_F = 35.78 V$ 正向电流 $I_F = 1200 mA$ 功率 $P = 42922 mW$ Ch1

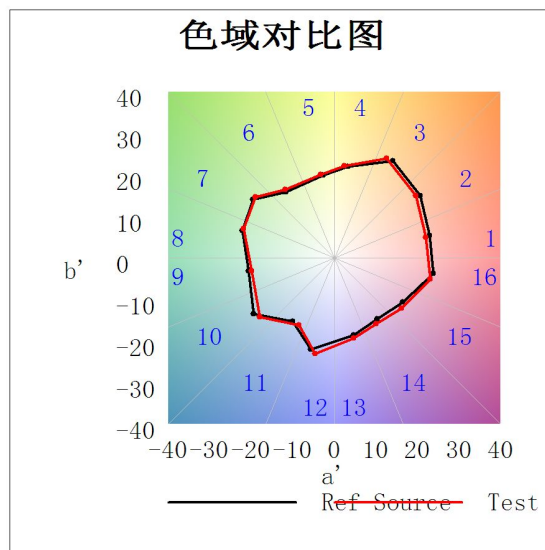
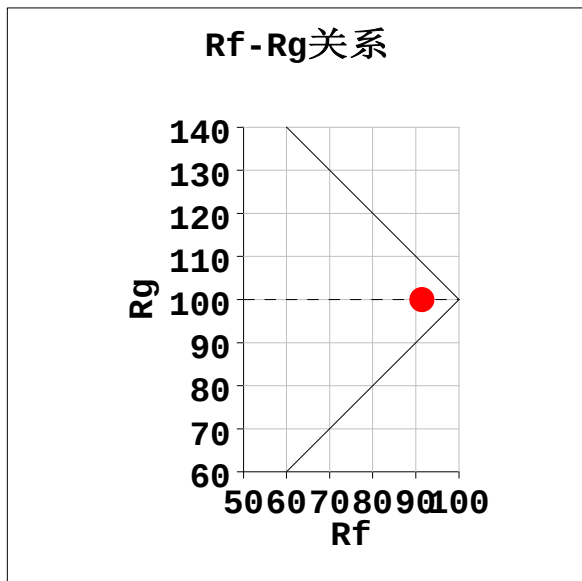
分级:*0[OUT] 白光分类:4000K

仪器状态: 积分时间 $T=63.00ms$ $I_p=46305 (71\%)$ [HAAS2000_V1_USB] V2.00.302产品型号:4000K
测试人员:DAMIN
环境温度:25.3℃
制造厂商:EVERFINE
审核人员:damin
测试仪器:WY + HAAS2000_V1_USB产品编号:3
测试日期:2023-11-18 15-10
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



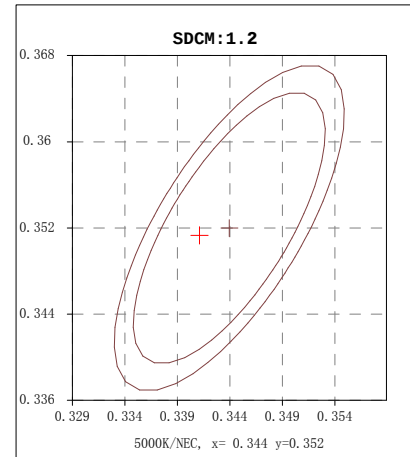
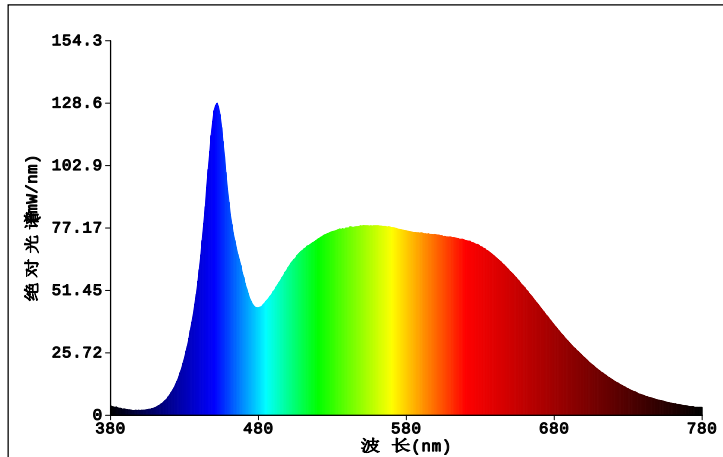
TM30 Report



数据分析表

Hue Bin	Hue Angle	Rf	Graphic shift(%)	
			Chroma	Hue
1	0.0° - 22.5°	91	-5	-1
2	22.5° - 45.0°	93	-4	2
3	45.0° - 67.5°	89	-1	6
4	67.5° - 90.0°	93	0	4
5	90.0° - 112.5°	93	1	3
6	112.5° - 135.0°	95	3	-1
7	135.0° - 157.5°	93	0	-4
8	157.5° - 180.0°	95	-1	-2
9	180.0° - 202.5°	94	-3	1
10	202.5° - 225.0°	89	-3	6
11	225.0° - 247.5°	87	0	10
12	247.5° - 270.0°	88	4	6
13	270.0° - 292.5°	94	4	-1
14	292.5° - 315.0°	90	5	-5
15	315.0° - 337.5°	88	3	-7
16	337.5° - 360.0°	90	-2	-6

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.3412$ $y=0.3513$ / $u'=0.2089$ $v'=0.4839$ $duv=1.443e-003$ 相关色温: $T_c=5152K$ 主波长: $\lambda_d=568.6nm$ 色纯度: Purity=7.8%色比: R=16.8% G=77.9% B=5.3% 峰值波长: $\lambda_p=451.9nm$ 半宽度: $\Delta\lambda_d=26.2nm$ 显色指数: $R_a=92.7$ $AvgR=89.6$ $K_{red}=11.38\%$ 平均波长 $\lambda_{av}=560.1nm$

R1 =92.75 R2 =94.39 R3 =94.09 R4 =93.31 R5 =92.72

R6 =91.17 R7 =94.76 R8 =88.34 R9 =67.53 R10=85.86

R11=93.12 R12=74.46 R13=93.28 R14=96.65 R15=91.67

TM30 参数: $R_f = 91.6$, $R_g=99.8$

光度参数:

光通量 $\Phi = 5347 lm$ 光效: $122.55 lm/W$ $\phi_e = 18777 mW$ 光量子= $8.795e+001 umol/s$ 荧光蓝光比=3.26 荧光效能= $3.294e-001$

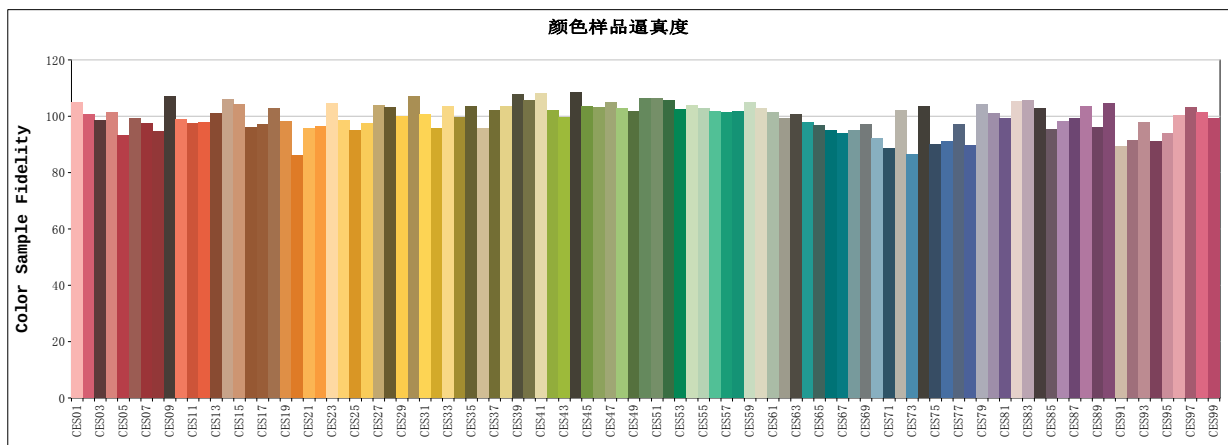
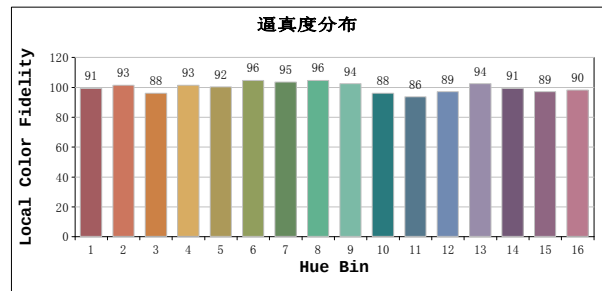
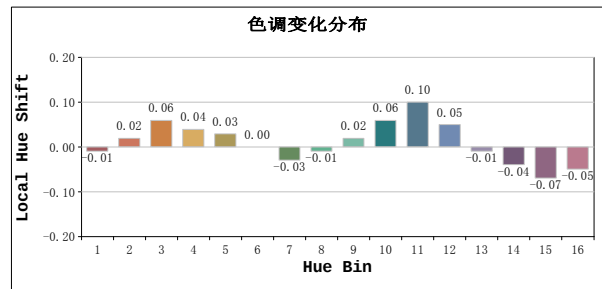
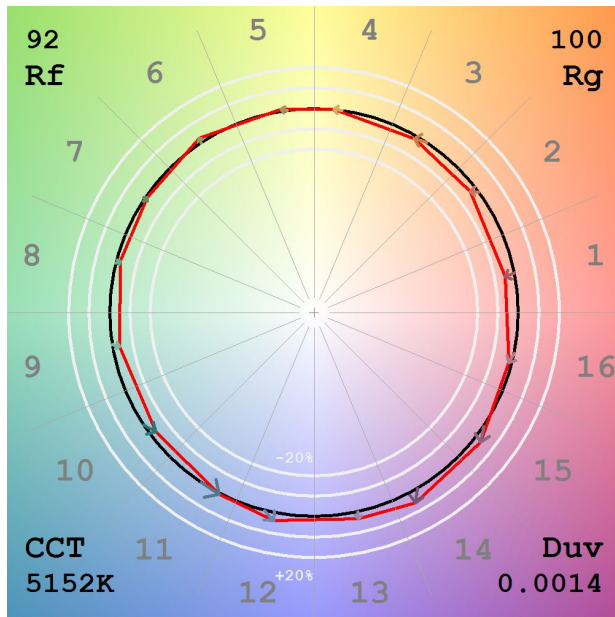
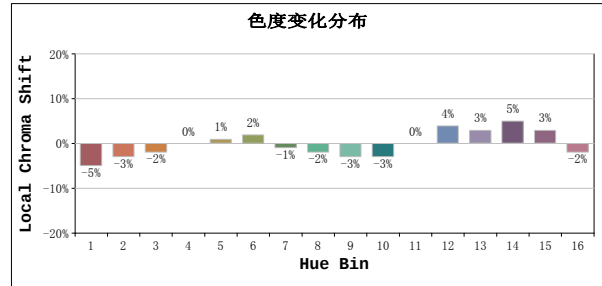
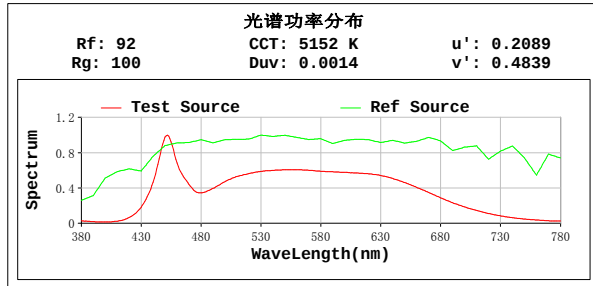
电参数:

正向电压 $V_F = 36.37 V$ 正向电流 $I_F = 1200 mA$ 功率 $P = 43629 mW$ Ch1

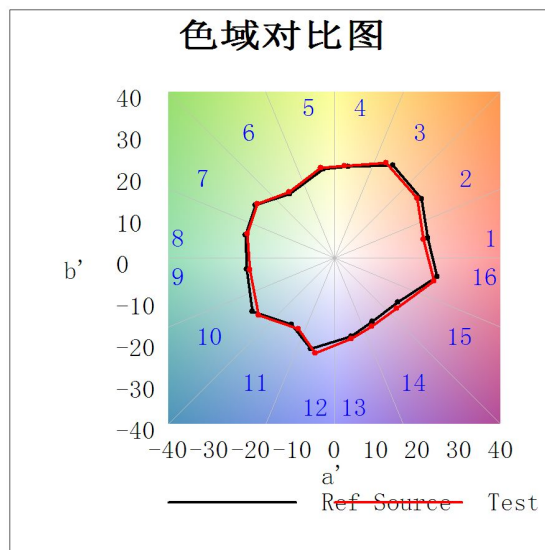
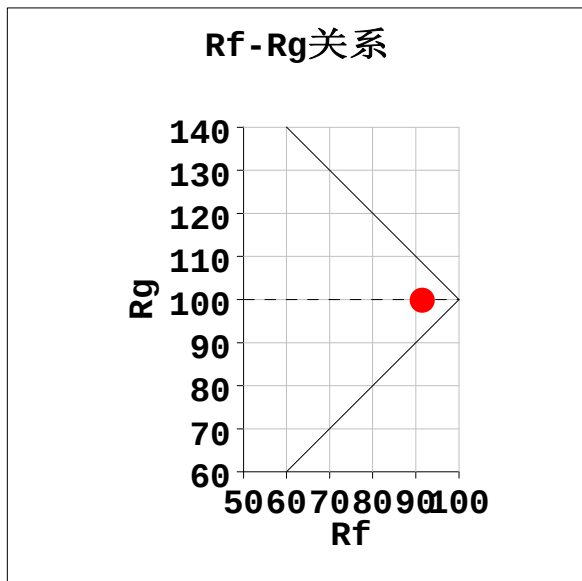
分级:*0[OUT] 白光分类:5000K

仪器状态: 积分时间 $T=69.00ms$ $I_p=47258 (72\%)$ [HAAS2000_V1_USB] V2.00.302产品型号:5000K
测试人员:DAMIN
环境温度:25.3℃
制造厂商:EVERFINE
审核人员:damin
测试仪器:WY + HAAS2000_V1_USB产品编号:4
测试日期:2023-11-18 15-11
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



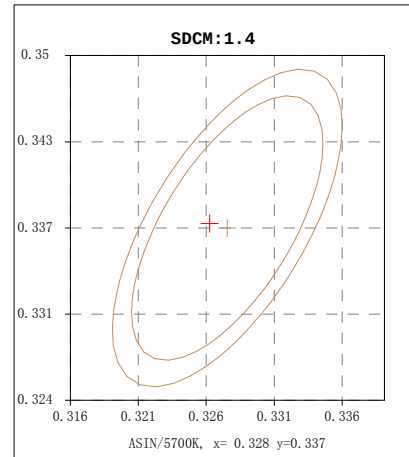
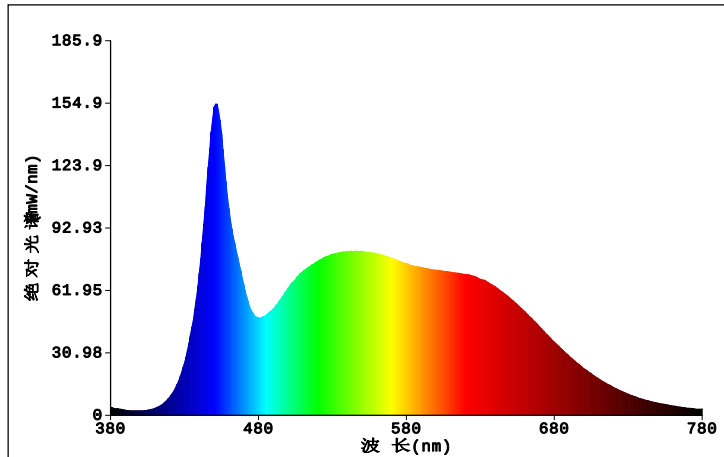
TM30 Report



数据分析表

Hue Bin	Hue Angle	Rf	Graphic shift(%)	
			Chroma	Hue
1	0.0° - 22.5°	91	-5	-1
2	22.5° - 45.0°	93	-3	2
3	45.0° - 67.5°	88	-2	6
4	67.5° - 90.0°	93	0	4
5	90.0° - 112.5°	92	1	3
6	112.5° - 135.0°	96	2	0
7	135.0° - 157.5°	95	-1	-3
8	157.5° - 180.0°	96	-2	-1
9	180.0° - 202.5°	94	-3	2
10	202.5° - 225.0°	88	-3	6
11	225.0° - 247.5°	86	0	10
12	247.5° - 270.0°	89	4	5
13	270.0° - 292.5°	94	3	-1
14	292.5° - 315.0°	91	5	-4
15	315.0° - 337.5°	89	3	-7
16	337.5° - 360.0°	90	-2	-5

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.3267$ $y=0.3373$ / $u'=0.2044$ $v'=0.4748$ $duv=6.913e-004$ 相关色温: $T_c=5762K$ 主波长: $\lambda_d=499.6nm$ 色纯度: Purity=2.0%色比: R=16.0% G=78.3% B=5.7% 峰值波长: $\lambda_p=451.7nm$ 半宽度: $\Delta\lambda_d=25.4nm$ 显色指数: $R_a=93.1$ $AvgR=90.2$ $K_{red}=10.84\%$ 平均波长 $\lambda_{av}=553.2nm$

R1 =93.81 R2 =94.37 R3 =92.29 R4 =93.99 R5 =93.24

R6 =90.24 R7 =95.67 R8 =91.49 R9 =74.95 R10=85.07

R11=93.32 R12=71.32 R13=94.21 R14=95.58 R15=93.92

TM30 参数: $R_f = 91.3$, $R_g=100.4$

光度参数:

光通量 $\Phi = 5452 lm$ 光效: $121.97 lm/W$ $\phi_e = 19491 mW$ 光量子= $9.046e+001 umol/s$ 荧光蓝光比=2.82 荧光效能= $3.221e-001$

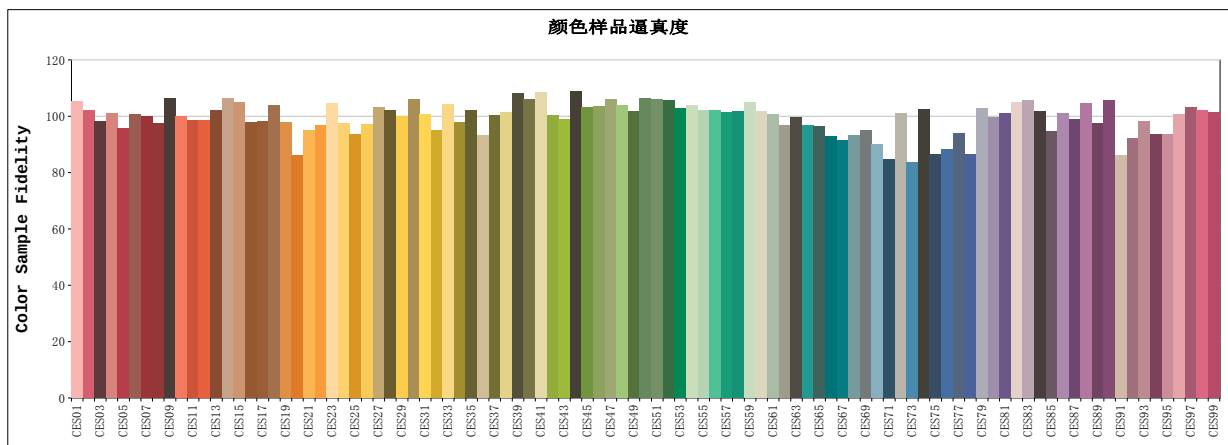
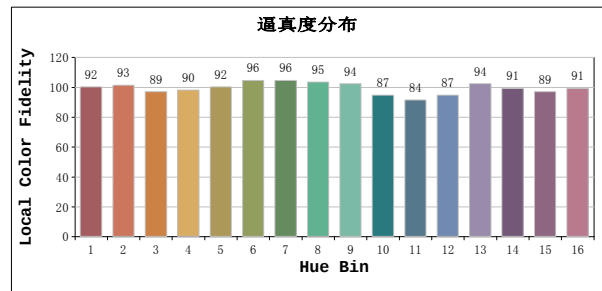
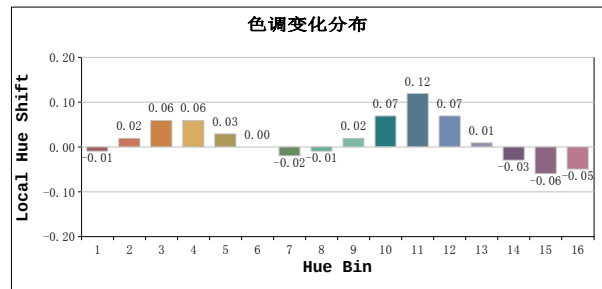
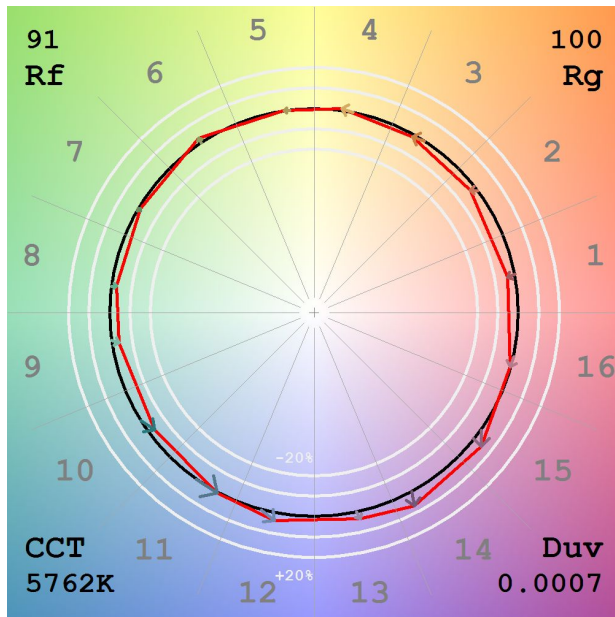
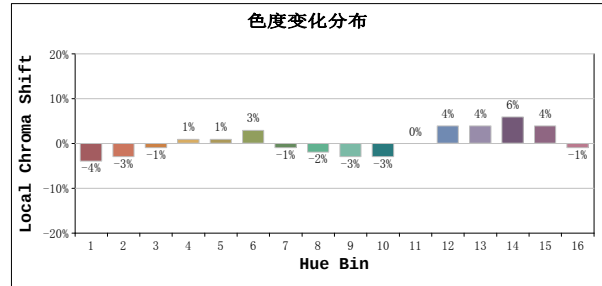
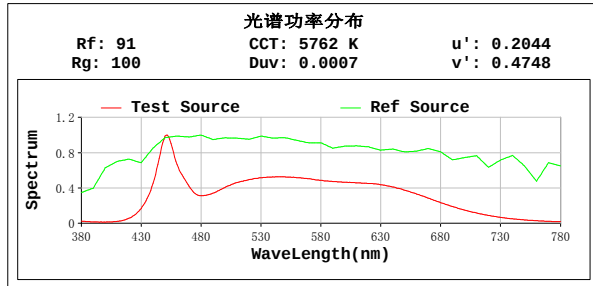
电参数:

正向电压 $V_F = 37.26 V$ 正向电流 $I_F = 1200 mA$ 功率 $P = 44702 mW$ Ch1

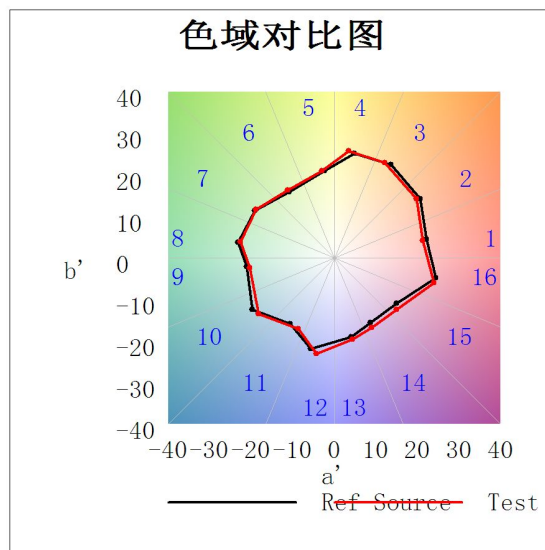
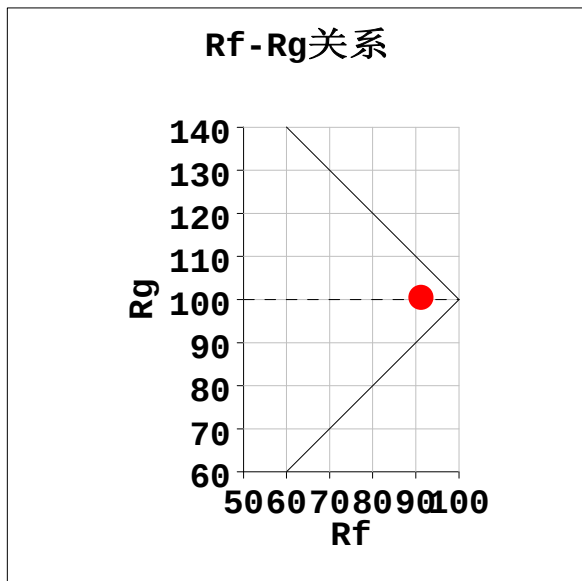
分级:*0[OUT] 白光分类:5700K

仪器状态: 积分时间 $T=74.00ms$ $I_p=48992 (75\%)$ [HAAS2000_V1_USB] V2.00.302产品型号:5700K
测试人员:DAMIN
环境温度:25.3℃
制造厂商:EVERFINE
审核人员:damin
测试仪器:WY + HAAS2000_V1_USB产品编号:5
测试日期:2023-11-18 15-12
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



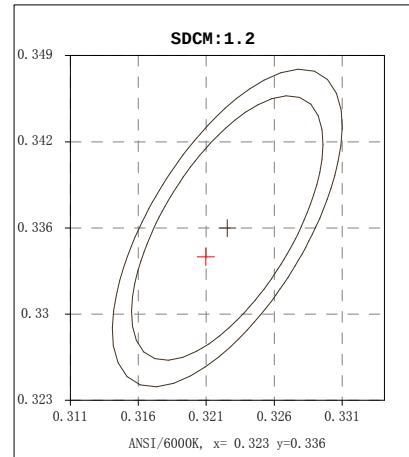
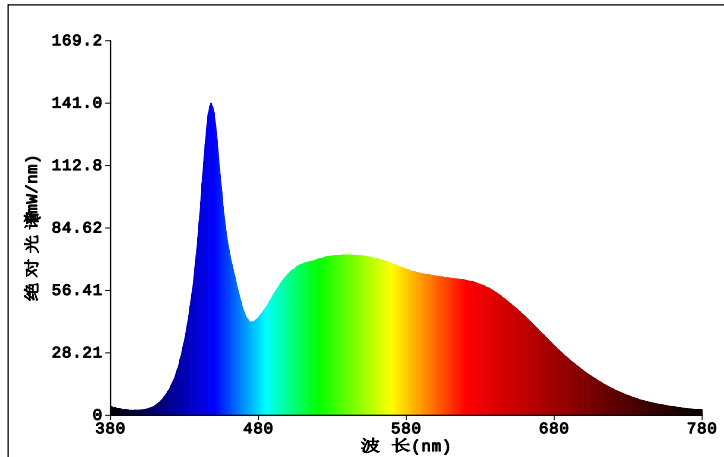
TM30 Report



数据分析表

			Graphic shift(%)	
Hue Bin	Hue Angle	Rf	Chroma	Hue
1	0.0° - 22.5°	92	-4	-1
2	22.5° - 45.0°	93	-3	2
3	45.0° - 67.5°	89	-1	6
4	67.5° - 90.0°	90	1	6
5	90.0° - 112.5°	92	1	3
6	112.5° - 135.0°	96	3	0
7	135.0° - 157.5°	96	-1	-2
8	157.5° - 180.0°	95	-2	-1
9	180.0° - 202.5°	94	-3	2
10	202.5° - 225.0°	87	-3	7
11	225.0° - 247.5°	84	0	12
12	247.5° - 270.0°	87	4	7
13	270.0° - 292.5°	94	4	1
14	292.5° - 315.0°	91	6	-3
15	315.0° - 337.5°	89	4	-6
16	337.5° - 360.0°	91	-1	-5

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.3214$ $y=0.3339$ / $u'=0.2020$ $v'=0.4722$ $duv=1.413e-003$ 相关色温: $T_c=6026K$ 主波长: $\lambda_d=492.3nm$ 色纯度: Purity=4.0%色比: R=15.6% G=78.5% B=5.9% 峰值波长: $\lambda_p=447.8nm$ 半宽度: $\Delta\lambda_d=23.5nm$ 显色指数: $R_a=93.1$ $AvgR=90.6$ $K_{red}=10.59\%$ 平均波长 $\lambda_{av}=549.2nm$

R1 =94.24 R2 =93.56 R3 =91.64 R4 =93.68 R5 =94.40

R6 =90.55 R7 =94.40 R8 =92.11 R9 =76.13 R10=84.40

R11=93.71 R12=77.20 R13=93.93 R14=95.35 R15=93.88

TM30 参数: $R_f = 92.1$, $R_g:101.0$

光度参数:

光通量 $\Phi = 4869 lm$ 光效: $112.64 lm/W$ $\phi_e = 17566 mW$ 光量子= $8.106e+001 umol/s$ 荧光蓝光比=2.71 荧光效能= $2.971e-001$

电参数:

正向电压 $V_F = 36.03 V$ 正向电流 $I_F = 1200 mA$ 功率 $P = 43224 mW$ Ch1

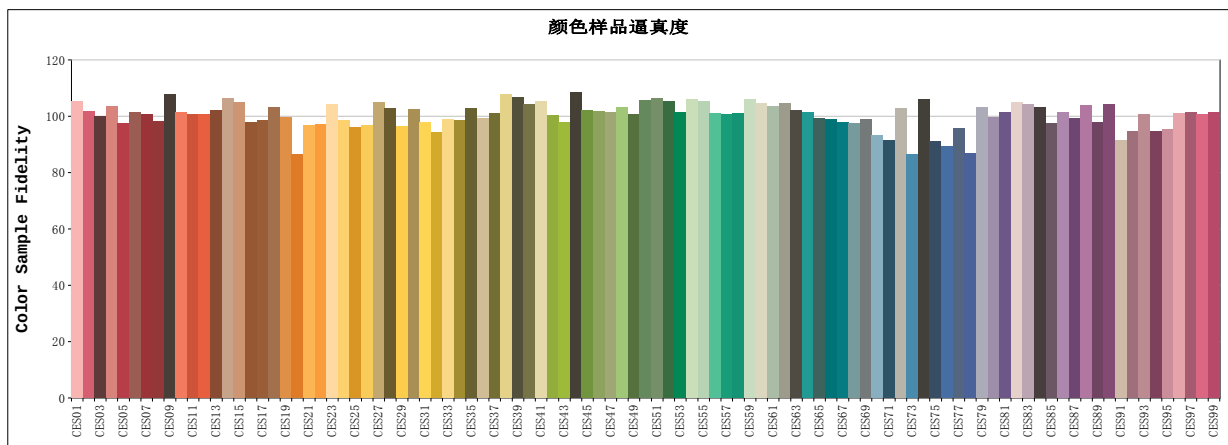
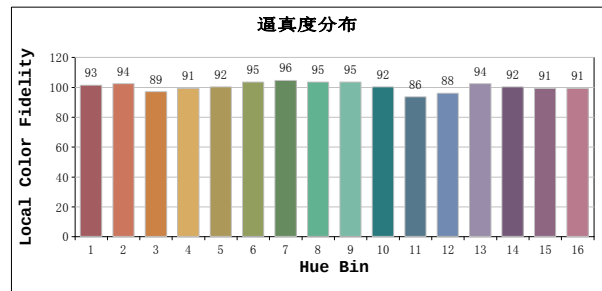
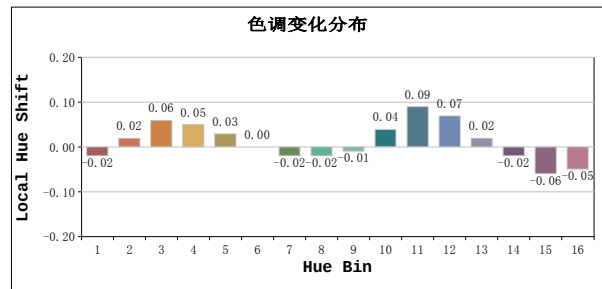
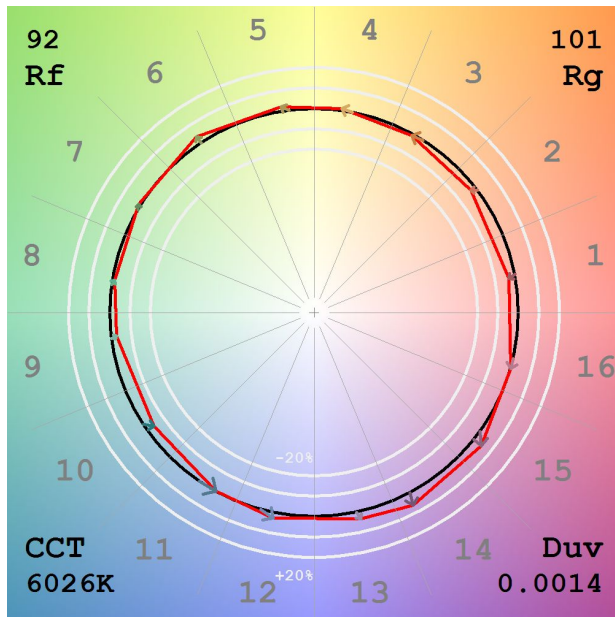
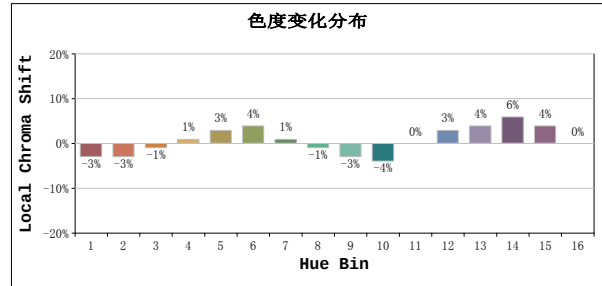
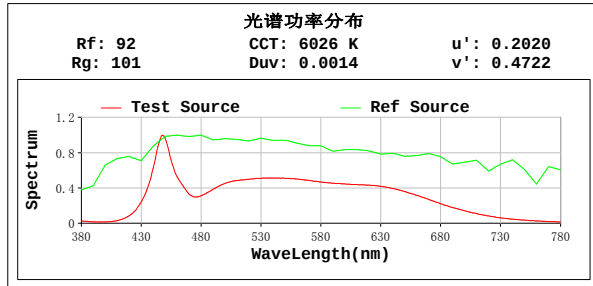
分级:*0[OUT] 白光分类:6500K

仪器状态: 积分时间 $T=74.00ms$ $I_p=42819 (65\%)$ [HAAS2000_V1_USB] V2.00.302

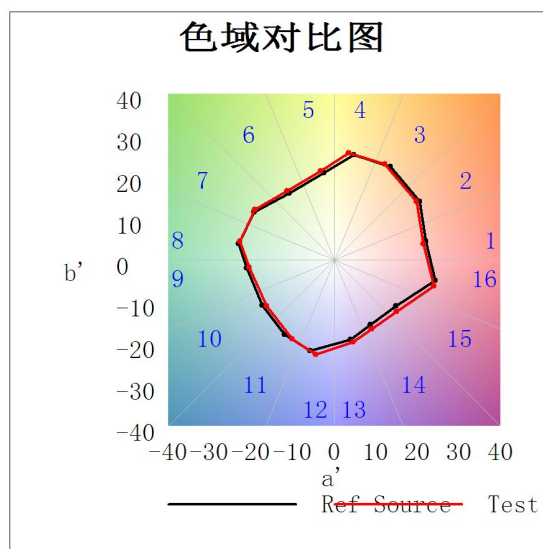
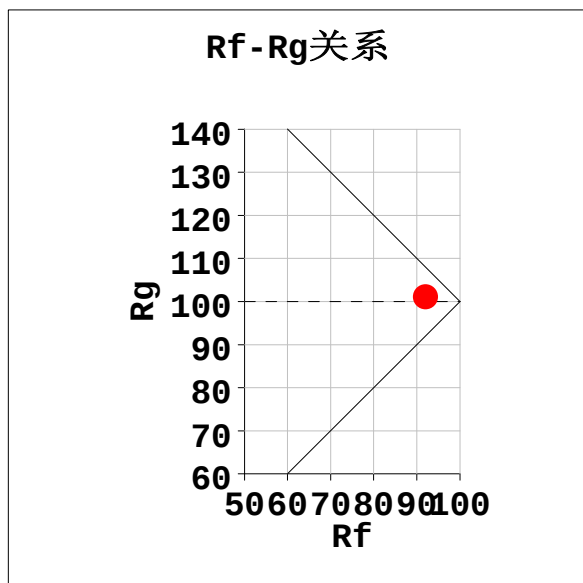
产品型号:6000K
测试人员:DAMIN
环境温度:25.3℃
制造厂商:EVERFINE
审核人员:damin
测试仪器:WY + HAAS2000_V1_USB

产品编号:6
测试日期:2023-11-18 15-13
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



TM30 Report



数据分析表

			Graphic shift(%)	
Hue Bin	Hue Angle	Rf	Chroma	Hue
1	0.0° - 22.5°	93	-3	-2
2	22.5° - 45.0°	94	-3	2
3	45.0° - 67.5°	89	-1	6
4	67.5° - 90.0°	91	1	5
5	90.0° - 112.5°	92	3	3
6	112.5° - 135.0°	95	4	0
7	135.0° - 157.5°	96	1	-2
8	157.5° - 180.0°	95	-1	-2
9	180.0° - 202.5°	95	-3	-1
10	202.5° - 225.0°	92	-4	4
11	225.0° - 247.5°	86	0	9
12	247.5° - 270.0°	88	3	7
13	270.0° - 292.5°	94	4	2
14	292.5° - 315.0°	92	6	-2
15	315.0° - 337.5°	91	4	-6
16	337.5° - 360.0°	91	0	-5