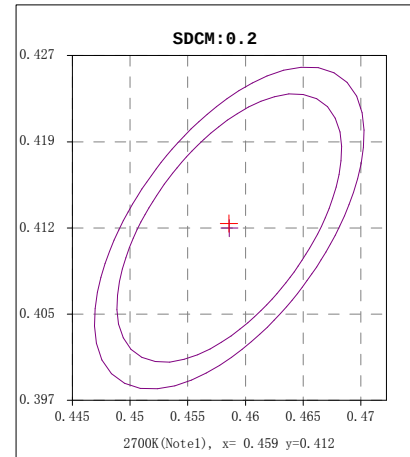
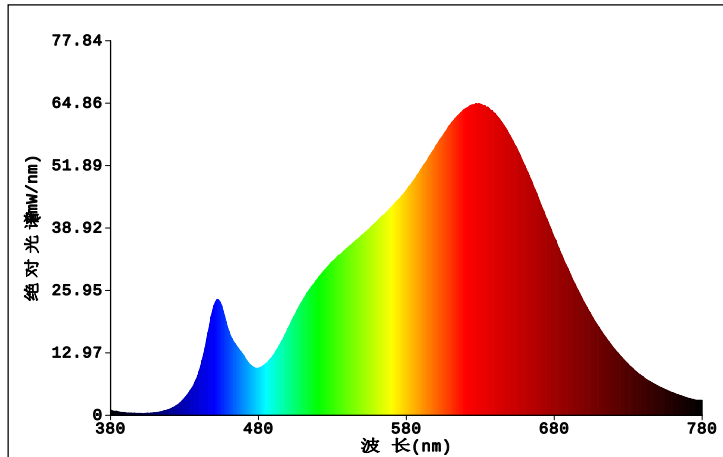


光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.4590$ $y=0.4124$ / $u'=0.2611$ $v'=0.5279$ $duv=7.311e-004$ 相关色温: $T_c=2726K$ 主波长: $\lambda_d=583.8nm$ 色纯度: Purity=61.6%色比: R=26.2% G=71.6% B=2.2% 峰值波长: $\lambda_p=628.9nm$ 半宽度: $\Delta\lambda_d=154.4nm$ 显色指数: $R_a=93.2$ $AvgR=90.4$ $K_{red}=18.59\%$ 平均波长 $\lambda_{av}=610.1nm$

R1 =93.77 R2 =95.47 R3 =95.46 R4 =94.20 R5 =92.79

R6 =94.35 R7 =94.26 R8 =85.40 R9 =66.00 R10=87.97

R11=94.76 R12=80.53 R13=94.14 R14=96.43 R15=90.39

TM30 参数: $R_f = 92.5$, $R_g=100.4$

光度参数:

光通量 $\Phi = 2963 lm$ 光效: $107.22 lm/W$ $\phi_e = 10668 mW$ 光量子= $5.365e+001 \mu mol/s$ 荧光蓝光比=11.6 荧光效能= $3.556e-001$

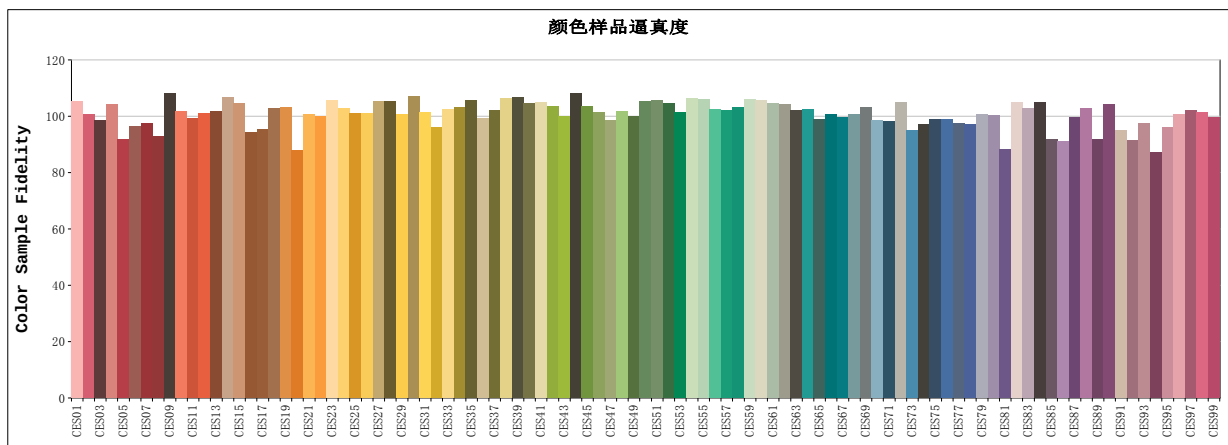
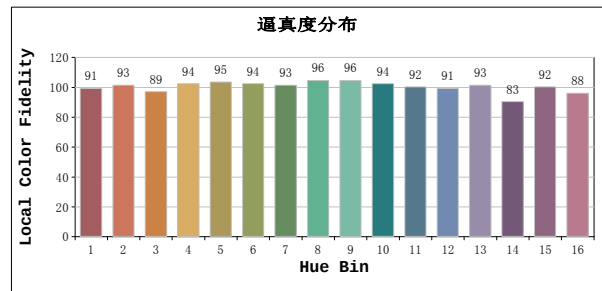
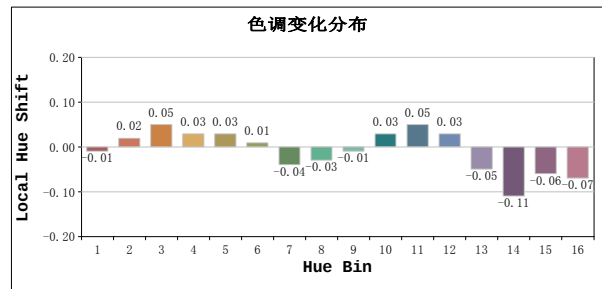
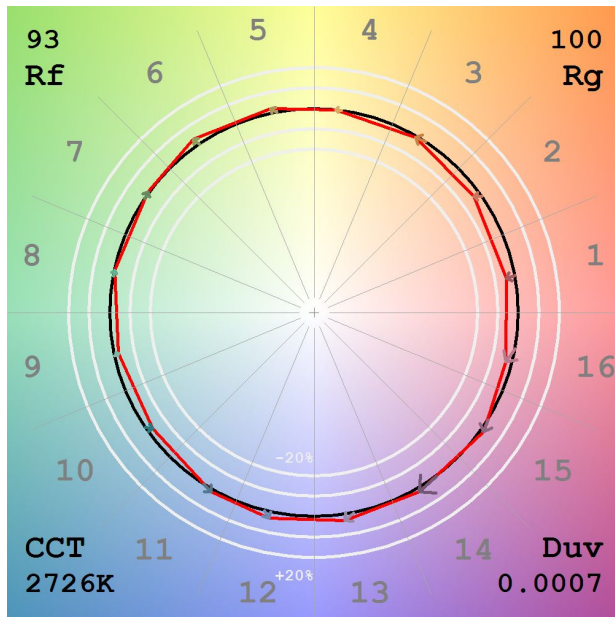
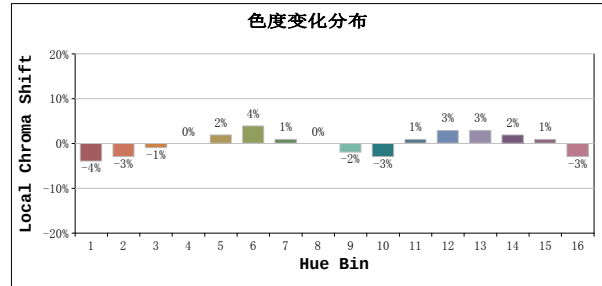
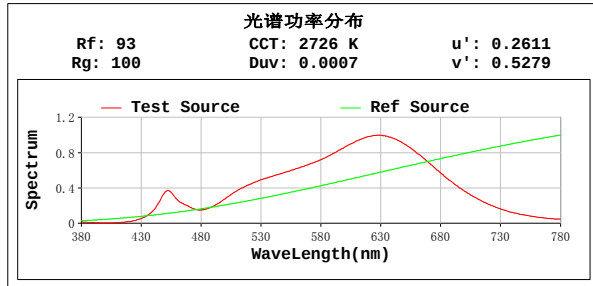
电参数:

正向电压 $V_F = 36.86 V$ 正向电流 $I_F = 749.7 mA$ 功率 $P = 27632 mW$ Ch1

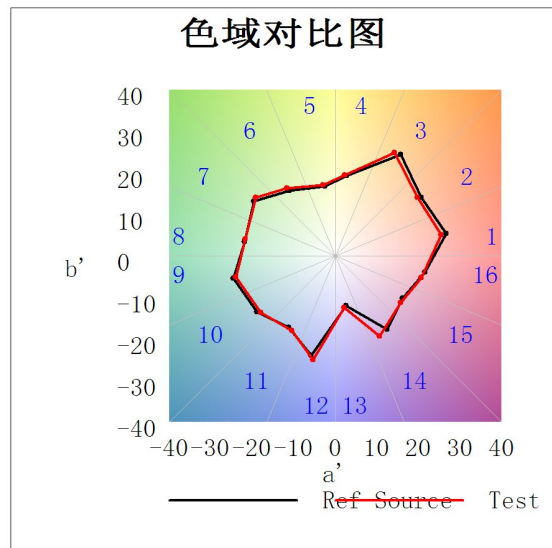
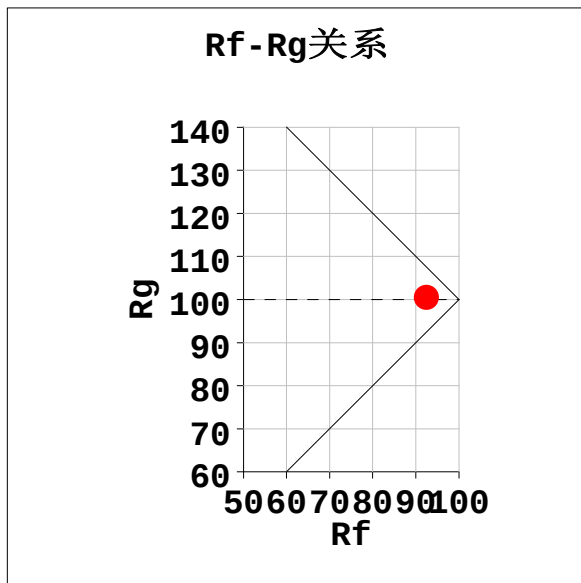
分级:*0[OUT] 白光分类:2700K

仪器状态: 积分时间 $T=10.00ms$ $I_p=59765 (91\%)$ [HAAS2000_V1_USB] V2.00.302产品型号:2700K
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:1
测试日期:2023-11-18 10-12
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



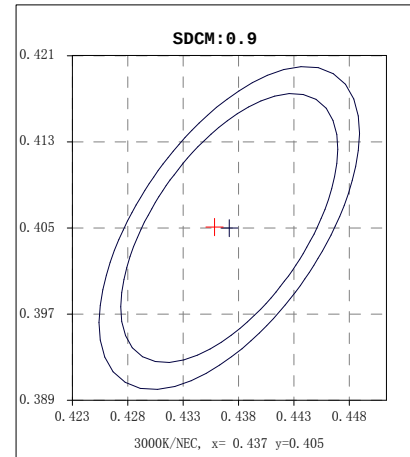
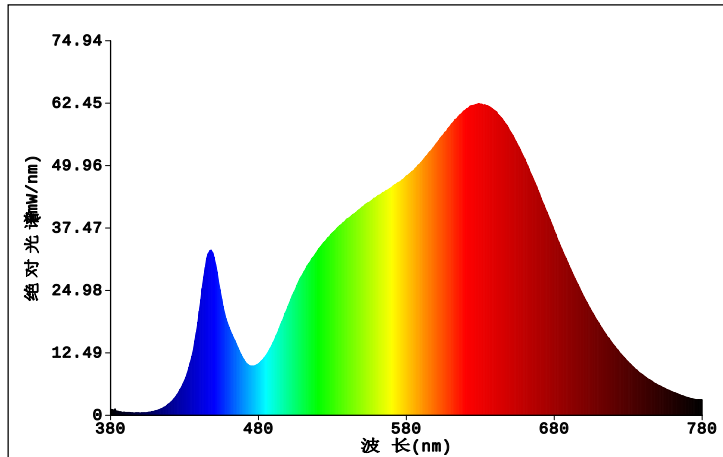
TM30 Report



数据分析表

			Graphic shift(%)	
Hue Bin	Hue Angle	Rf	Chroma	Hue
1	0.0° - 22.5°	91	-4	-1
2	22.5° - 45.0°	93	-3	2
3	45.0° - 67.5°	89	-1	5
4	67.5° - 90.0°	94	0	3
5	90.0° - 112.5°	95	2	3
6	112.5° - 135.0°	94	4	1
7	135.0° - 157.5°	93	1	-4
8	157.5° - 180.0°	96	0	-3
9	180.0° - 202.5°	96	-2	-1
10	202.5° - 225.0°	94	-3	3
11	225.0° - 247.5°	92	1	5
12	247.5° - 270.0°	91	3	3
13	270.0° - 292.5°	93	3	-5
14	292.5° - 315.0°	83	2	-11
15	315.0° - 337.5°	92	1	-6
16	337.5° - 360.0°	88	-3	-7

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.4357$ $y=0.4051$ / $u'=0.2493$ $v'=0.5216$ $duv=5.698e-004$ 相关色温: $T_c=3029K$ 主波长: $\lambda_d=582.5nm$ 色纯度: Purity=52.4%色比: R=24.1% G=73.5% B=2.4% 峰值波长: $\lambda_p=628.7nm$ 半宽度: $\Delta\lambda_d=172.3nm$ 显色指数: $R_a=92.8$ $AvgR=90.2$ $K_{red}=17.09\%$ 平均波长 $\lambda_{av}=604.3nm$

R1 =94.15 R2 =93.85 R3 =91.83 R4 =93.93 R5 =92.80

R6 =91.43 R7 =94.70 R8 =89.48 R9 =72.94 R10=84.35

R11=94.28 R12=78.39 R13=93.76 R14=94.58 R15=92.14

TM30 参数: $R_f = 91.5$, $R_g:102.0$

光度参数:

光通量 $\Phi = 3112 lm$ 光效: $114.93 lm/W$ $\phi_e = 11137 mW$ 光量子= $5.544e+001 \mu mol/s$ 荧光蓝光比=9.09 荧光效能= $3.706e-001$

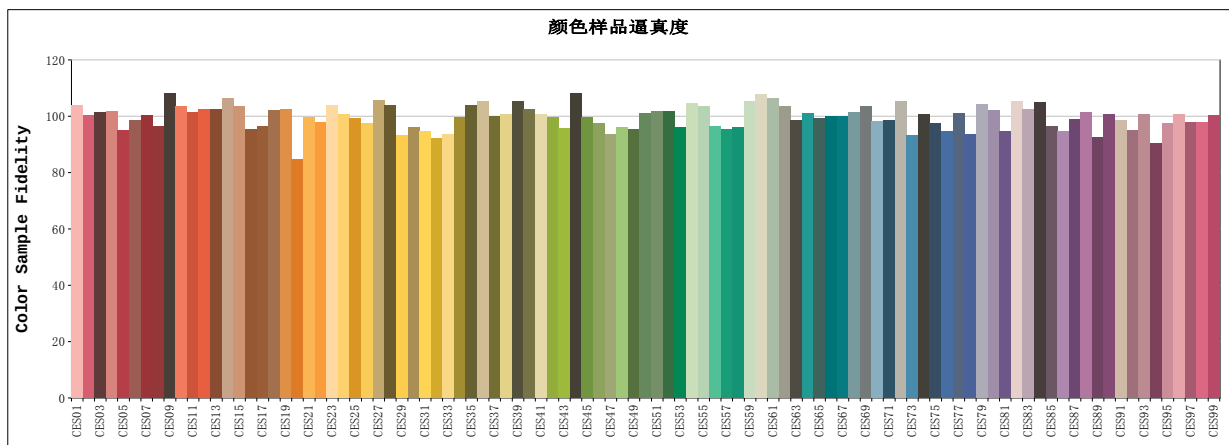
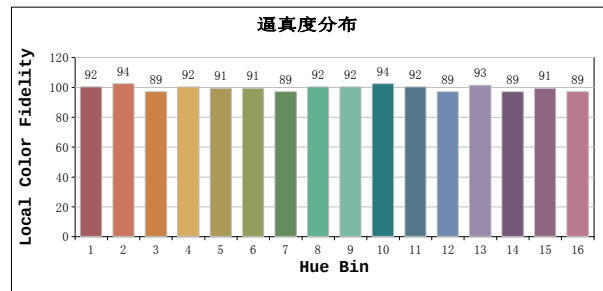
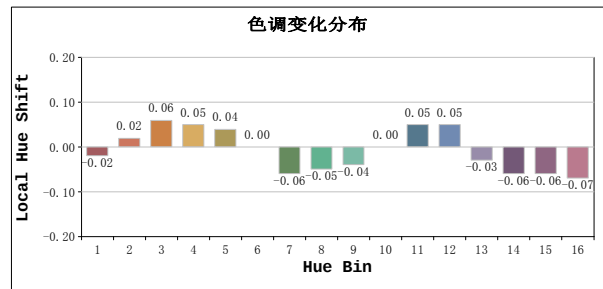
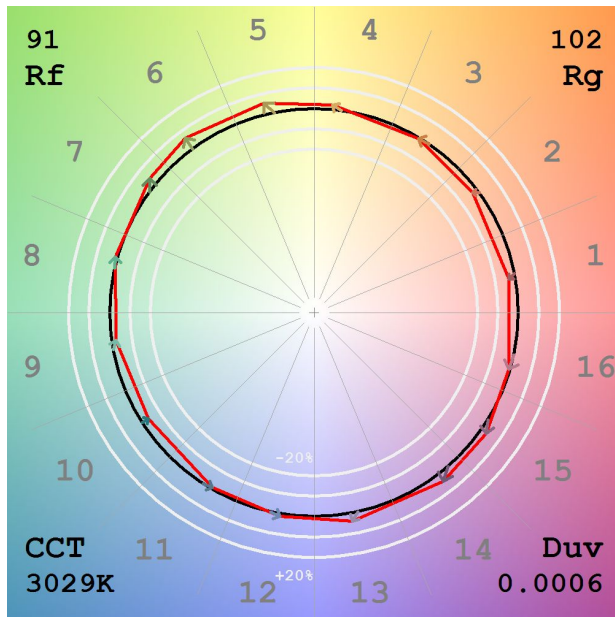
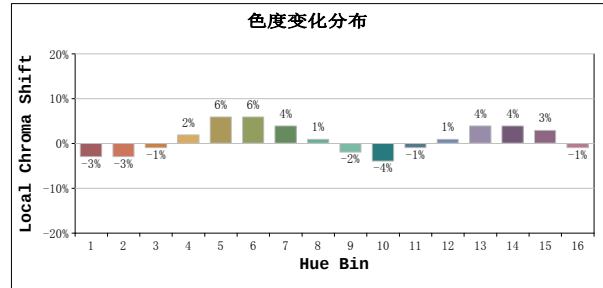
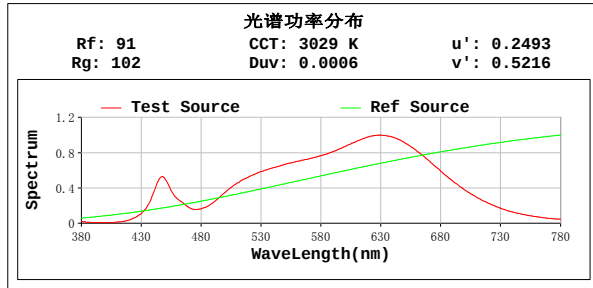
电参数:

正向电压 $V_F = 36.12 V$ 正向电流 $I_F = 749.7 mA$ 功率 $P = 27080 mW$ Ch1

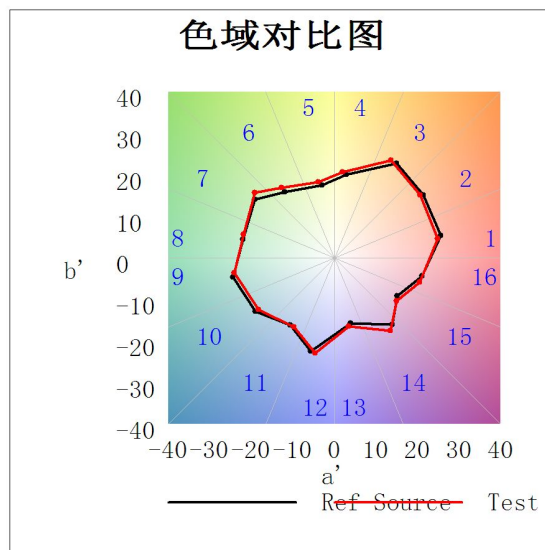
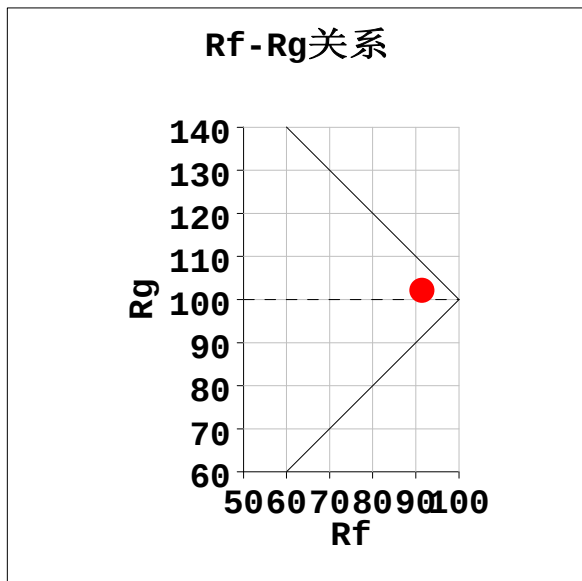
分级:*0[OUT] 白光分类:3000K

仪器状态: 积分时间 $T=10.00ms$ $I_p=57522 (88\%)$ [HAAS2000_V1_USB] V2.00.302产品型号:3000K
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 10-14
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



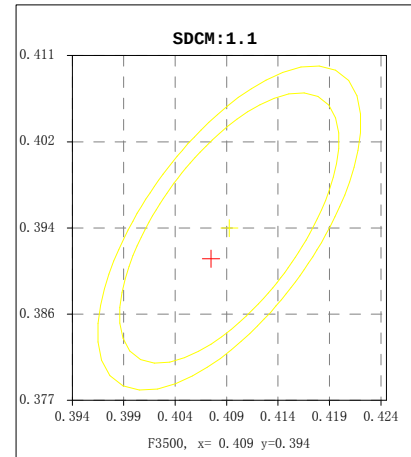
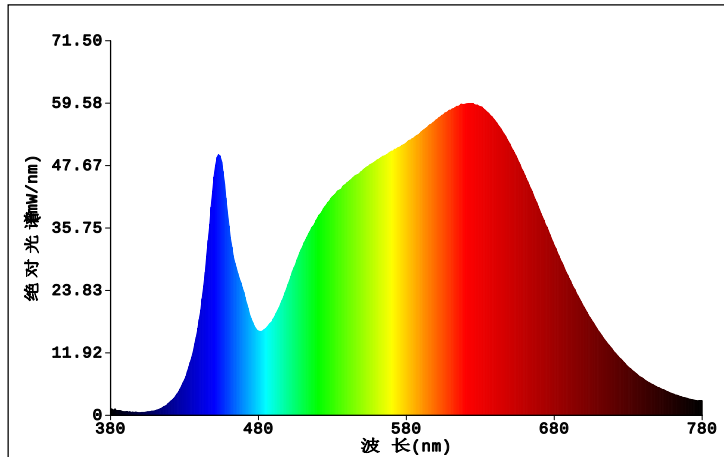
TM30 Report



数据分析表

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

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.4072$ $y=0.3910$ / $u'=0.2368$ $v'=0.5117$ $duv=-2.867e-004$ 相关色温: $T_c=3461K$ 主波长: $\lambda_d=581.1nm$ 色纯度: Purity=39.6%色比: R=21.6% G=75.2% B=3.2% 峰值波长: $\lambda_p=621.5nm$ 半宽度: $\Delta\lambda_d=178.0nm$ 显色指数: $R_a=92.9$ $AvgR=88.4$ $K_{red}=15.04\%$ 平均波长 $\lambda_{av}=591.5nm$

R1 =92.32 R2 =94.08 R3 =93.60 R4 =92.14 R5 =91.04

R6 =90.80 R7 =94.55 R8 =91.39 R9 =65.87 R10=84.22

R11=91.17 R12=71.20 R13=92.67 R14=95.74 R15=90.51

TM30 参数: $R_f = 91.0$, $R_g=100.3$

光度参数:

光通量 $\Phi = 3376 lm$ 光效: $124.55 lm/W$ $\phi_e = 11672 mW$ 光量子= $5.705e+001 \mu mol/s$ 荧光蓝光比=6.27 荧光效能= $3.714e-001$

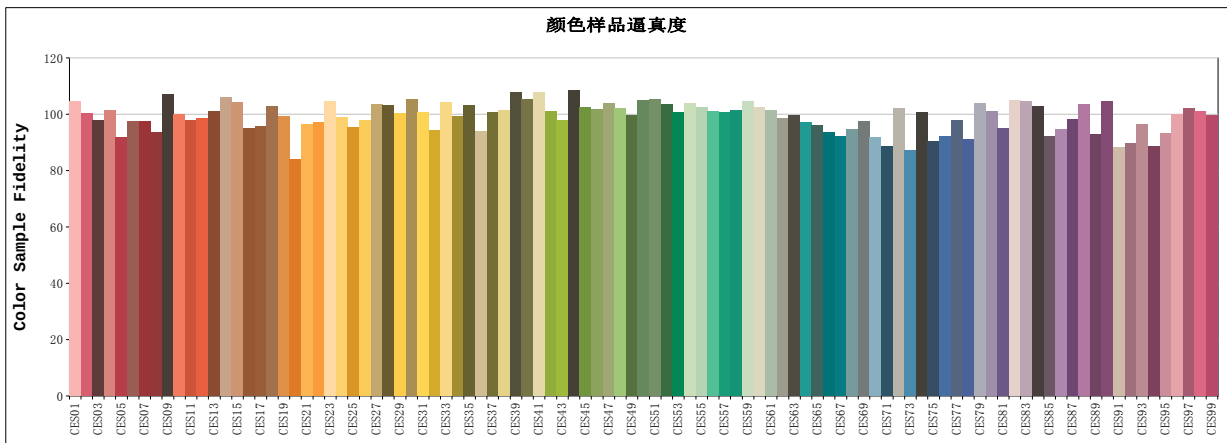
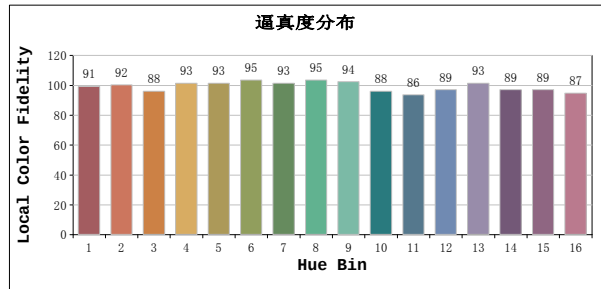
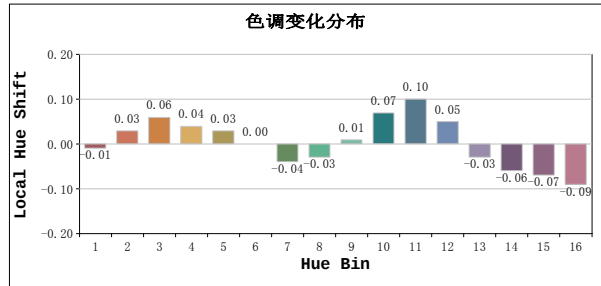
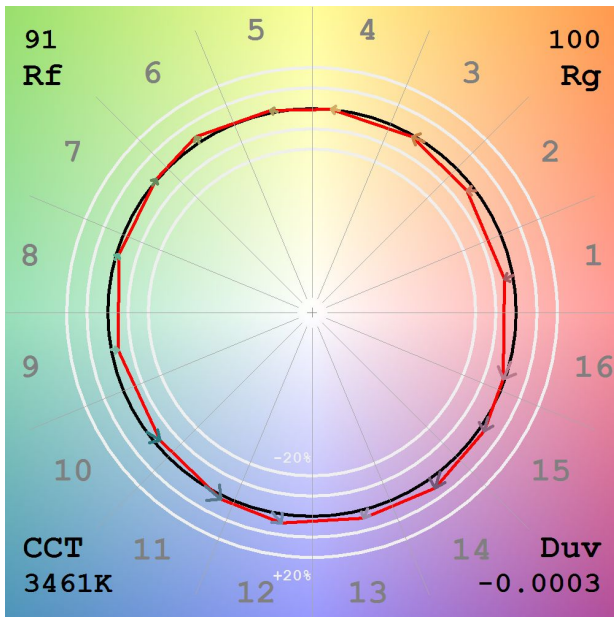
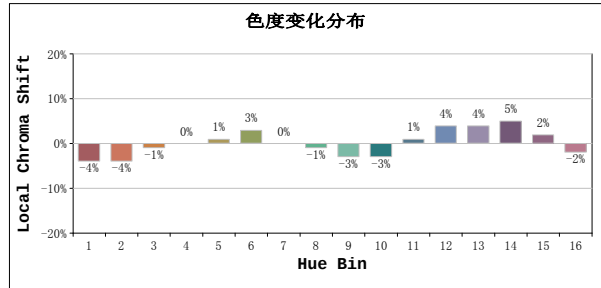
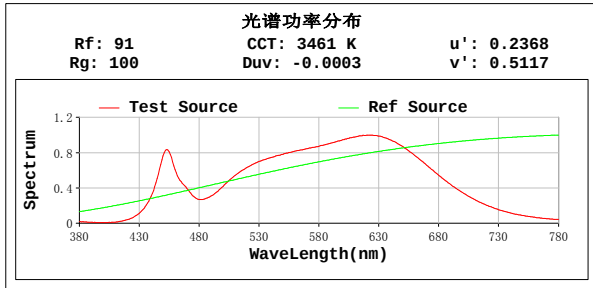
电参数:

正向电压 $V_F = 36.16 V$ 正向电流 $I_F = 749.7 mA$ 功率 $P = 27106 mW$ Ch1

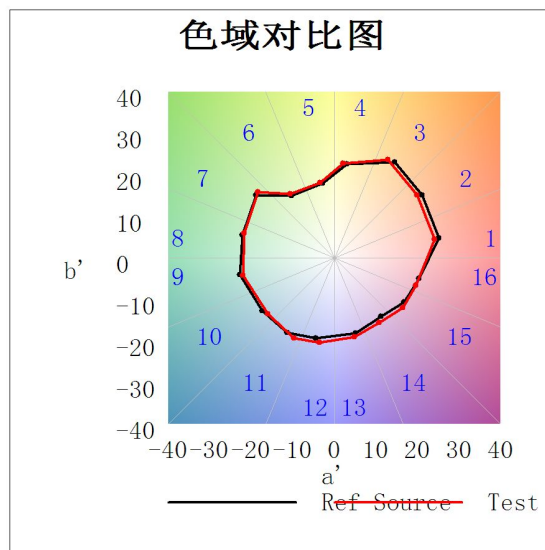
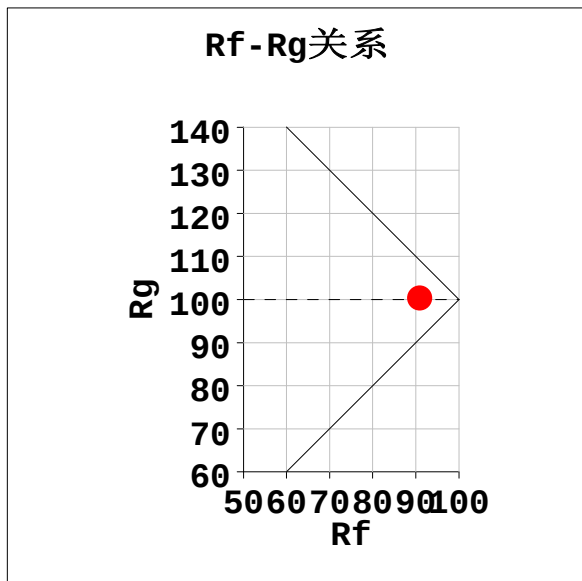
分级:*0[OUT] 白光分类:3500K

仪器状态: 积分时间 $T=10.00ms$ $I_p=55575 (85\%)$ [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:3
测试日期:2023-11-18 10-17
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



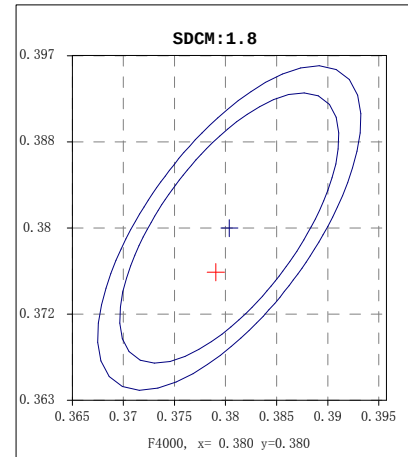
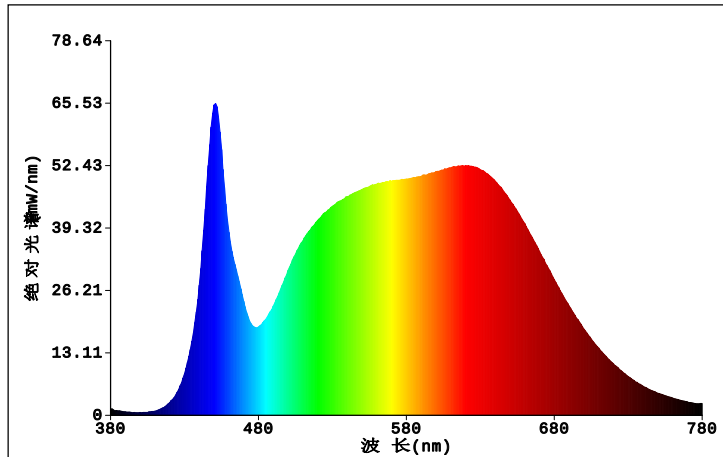
TM30 Report



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°	93	0	4
5	90.0° - 112.5°	93	1	3
6	112.5° - 135.0°	95	3	0
7	135.0° - 157.5°	93	0	-4
8	157.5° - 180.0°	95	-1	-3
9	180.0° - 202.5°	94	-3	1
10	202.5° - 225.0°	88	-3	7
11	225.0° - 247.5°	86	1	10
12	247.5° - 270.0°	89	4	5
13	270.0° - 292.5°	93	4	-3
14	292.5° - 315.0°	89	5	-6
15	315.0° - 337.5°	89	2	-7
16	337.5° - 360.0°	87	-2	-9

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.3787$ $y=0.3757$ $u'=0.2244$ $v'=0.5009$ $duv=-5.172e-005$ 相关色温: $T_c=4038K$ 主波长: $\lambda_d=578.9nm$ 色纯度: Purity=26.4%色比: R=19.5% G=76.7% B=3.9% 峰值波长: $\lambda_p=451.2nm$ 半宽度: $\Delta\lambda_d=21.7nm$ 显色指数: $R_a=92.1$ $AvgR=88.7$ $K_{red}=13.43\%$ 平均波长 $\lambda_{av}=579.4nm$

R1 =92.54 R2 =93.63 R3 =92.74 R4 =92.67 R5 =91.39

R6 =89.76 R7 =95.18 R8 =88.59 R9 =69.04 R10=83.56

R11=91.90 R12=69.48 R13=92.71 R14=95.56 R15=91.31

TM30 参数: $R_f = 91.2$, $R_g:100.2$

光度参数:

光通量 $\Phi = 3327 lm$ 光效: $124.16 lm/W$ $\phi_e = 11505 mW$ 光量子= $5.531e+001 \mu mol/s$ 荧光蓝光比=4.8 荧光效能= $3.554e-001$

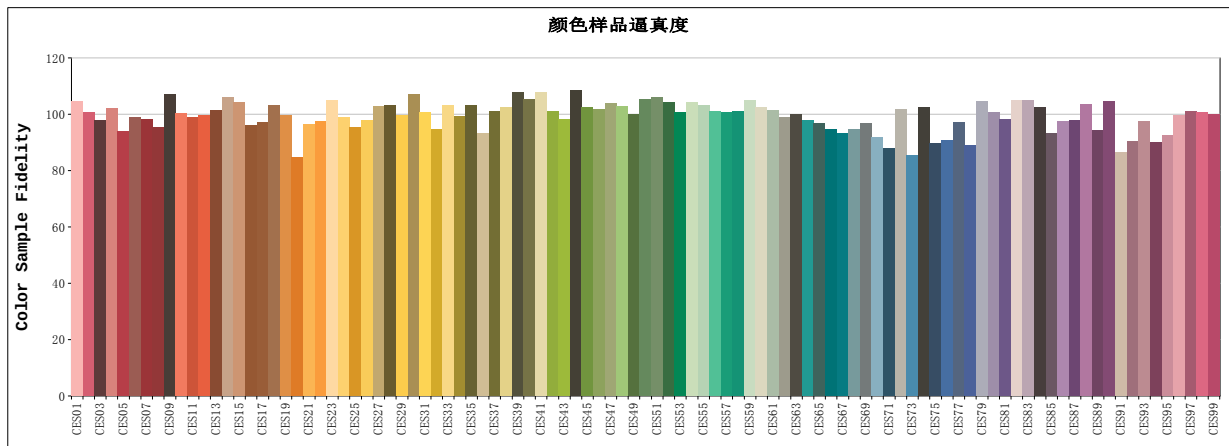
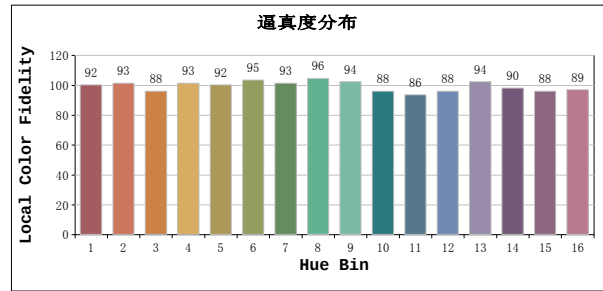
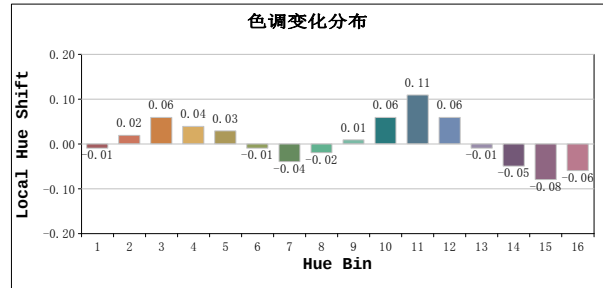
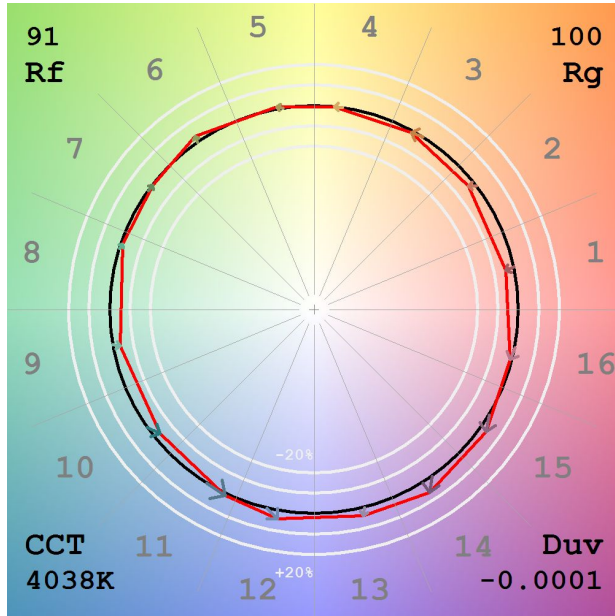
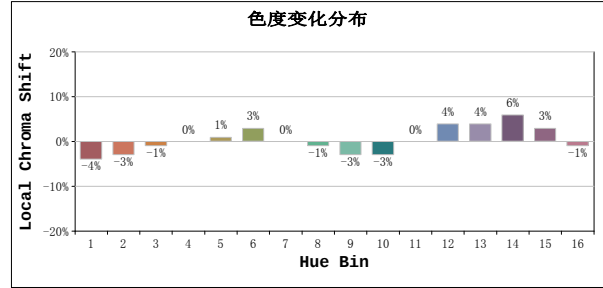
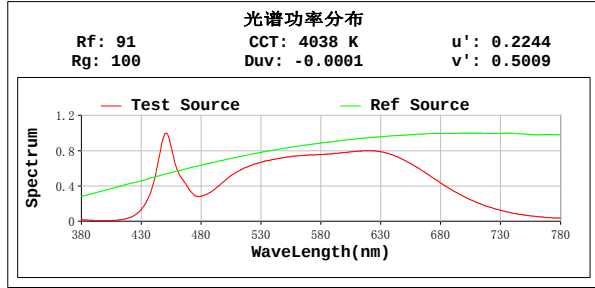
电参数:

正向电压 $V_F = 35.75 V$ 正向电流 $I_F = 749.7 mA$ 功率 $P = 26800 mW$ Ch1

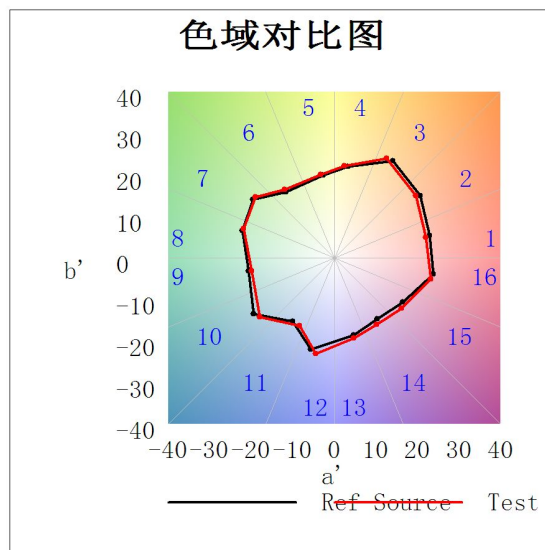
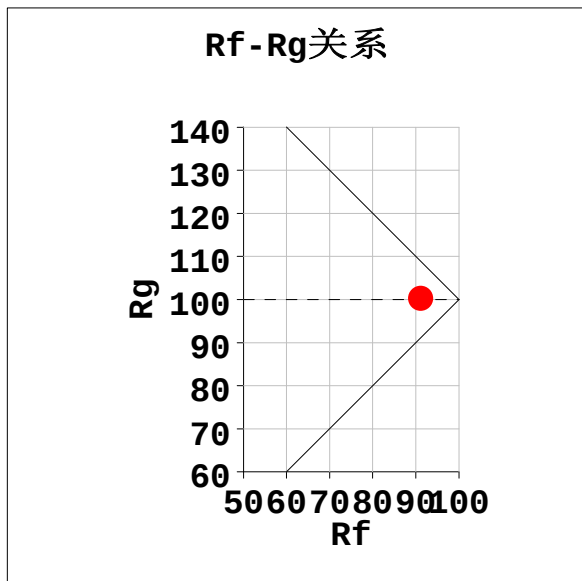
分级:*0[OUT] 白光分类:4000K

仪器状态: 积分时间 $T=10.00ms$ $I_p=49431 (75\%)$ [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:4
测试日期:2023-11-18 10-21
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



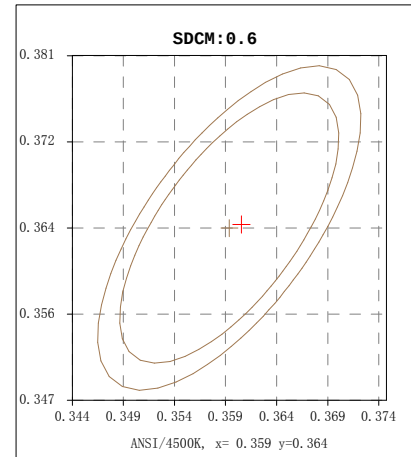
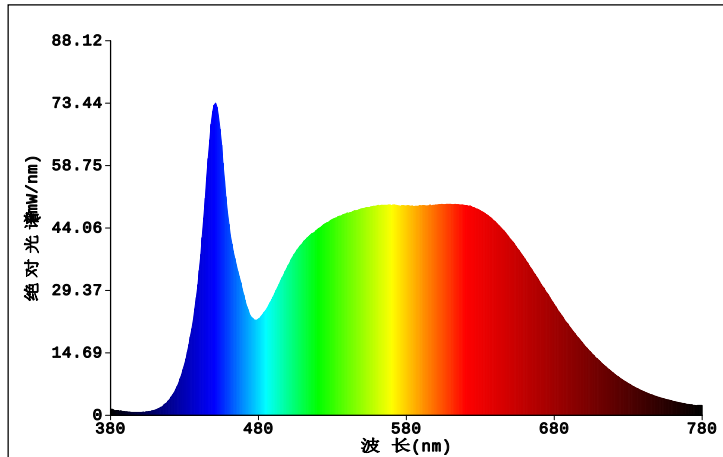
TM30 Report



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°	88	-1	6
4	67.5° - 90.0°	93	0	4
5	90.0° - 112.5°	92	1	3
6	112.5° - 135.0°	95	3	-1
7	135.0° - 157.5°	93	0	-4
8	157.5° - 180.0°	96	-1	-2
9	180.0° - 202.5°	94	-3	1
10	202.5° - 225.0°	88	-3	6
11	225.0° - 247.5°	86	0	11
12	247.5° - 270.0°	88	4	6
13	270.0° - 292.5°	94	4	-1
14	292.5° - 315.0°	90	6	-5
15	315.0° - 337.5°	88	3	-8
16	337.5° - 360.0°	89	-1	-6

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.3602$ $y=0.3644$ / $u'=0.2166$ $v'=0.4930$ $duv=6.059e-004$ 相关色温: $T_c=4523K$ 主波长: $\lambda_d=576.3nm$ 色纯度: Purity=17.4%色比: R=18.1% G=77.3% B=4.5% 峰值波长: $\lambda_p=450.9nm$ 半宽度: $\Delta\lambda_d=23.5nm$ 显色指数: $R_a=92.4$ $AvgR=89.0$ $K_{red}=12.40\%$ 平均波长 $\lambda_{av}=570.1nm$

R1 =92.59 R2 =94.03 R3 =93.67 R4 =92.93 R5 =91.65

R6 =90.22 R7 =95.56 R8 =88.80 R9 =68.81 R10=84.77

R11=92.34 R12=69.83 R13=92.96 R14=96.30 R15=91.23

TM30 参数: $R_f = 91.3$, $R_g=100.1$

光度参数:

光通量 $\Phi = 3377 lm$ 光效: $123.22 lm/W$ $\phi_e = 11720 mW$ 光量子= $5.564e+001 \mu mol/s$ 荧光蓝光比=3.98 荧光效能= $3.419e-001$

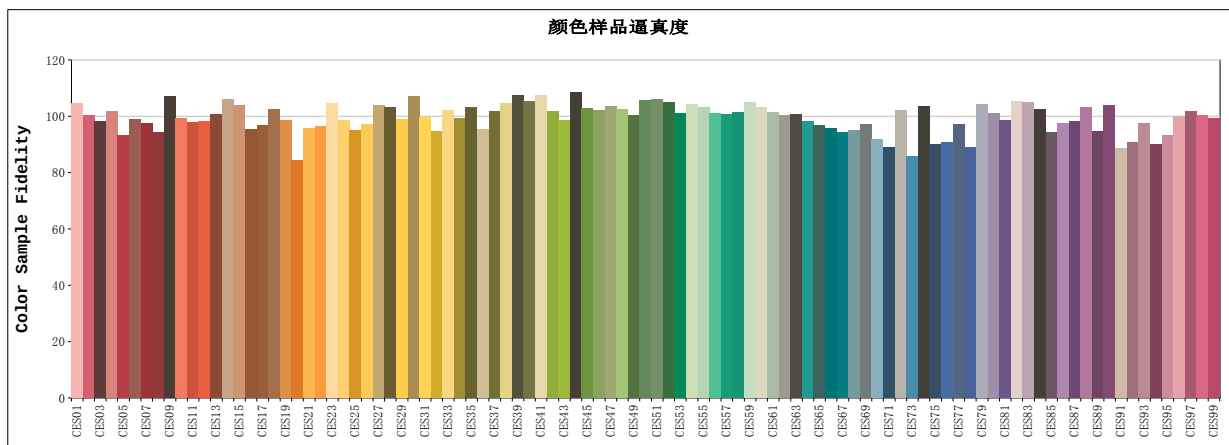
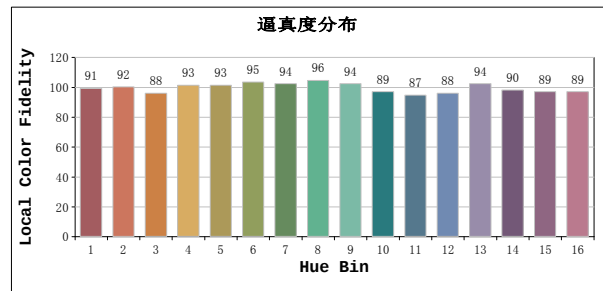
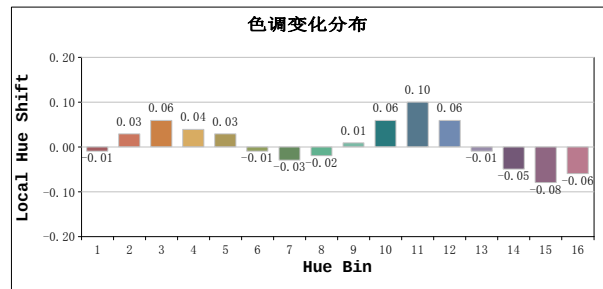
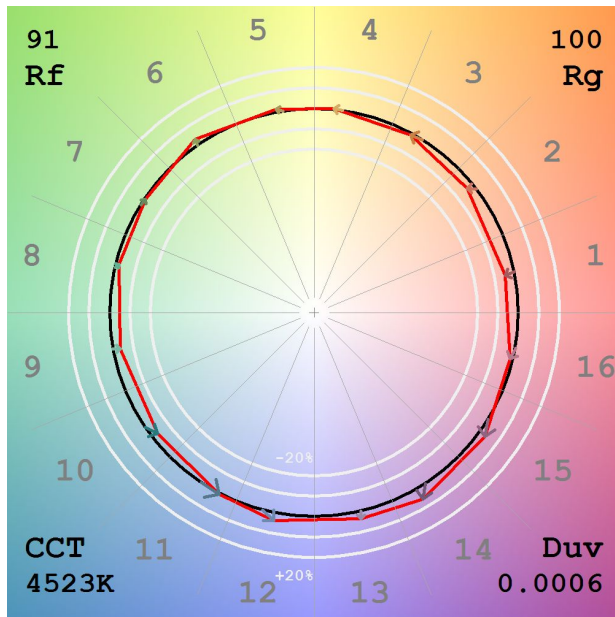
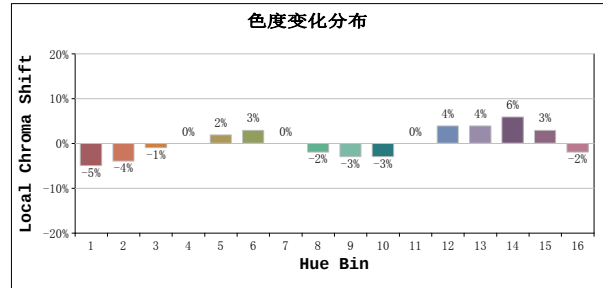
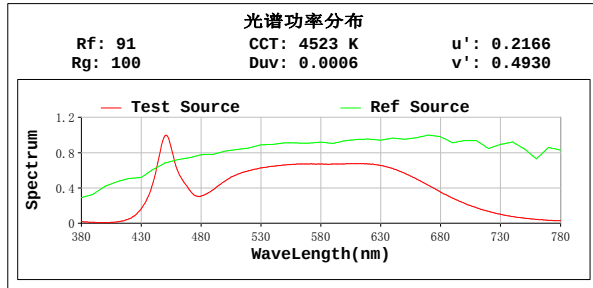
电参数:

正向电压 $V_F = 36.55 V$ 正向电流 $I_F = 749.7 mA$ 功率 $P = 27403 mW$ Ch1

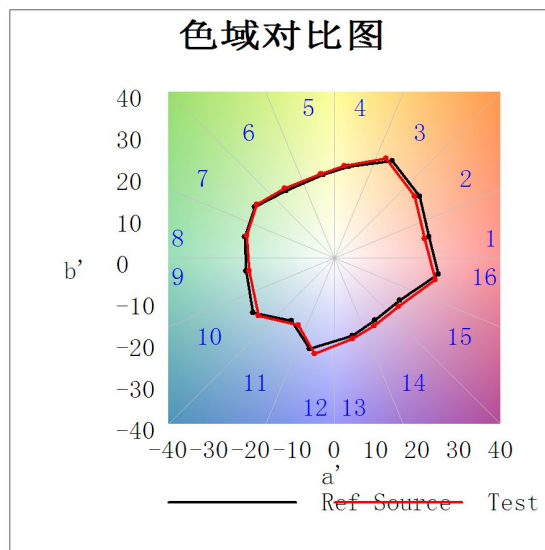
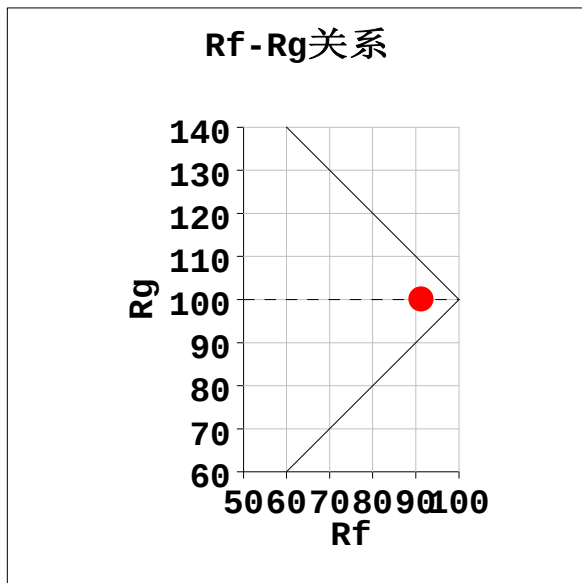
分级: *0[OUT] 白光分类: 4500K

仪器状态: 积分时间 $T=10.00ms$ $I_p=47312 (72\%)$ [HAAS2000_V1_USB] V2.00.302产品型号: 4500K
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: 5
测试日期: 2023-11-18 10-22
环境湿度: 65.0%
备 注: ---

IES TM-30-18 Color Rendition Report



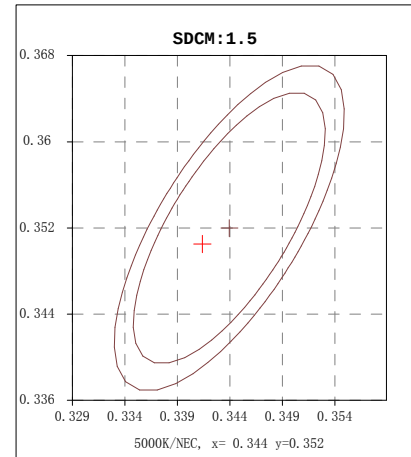
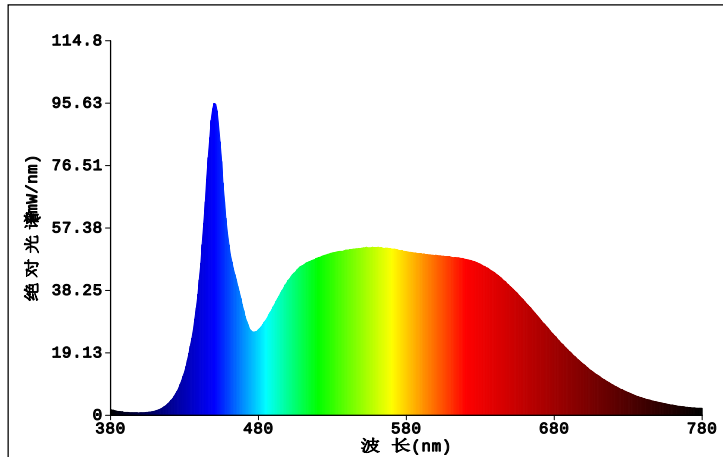
TM30 Report



数据分析表

			Graphic shift(%)	
Hue Bin	Hue Angle	Rf	Chroma	Hue
1	0.0° - 22.5°	91	-5	-1
2	22.5° - 45.0°	92	-4	3
3	45.0° - 67.5°	88	-1	6
4	67.5° - 90.0°	93	0	4
5	90.0° - 112.5°	93	2	3
6	112.5° - 135.0°	95	3	-1
7	135.0° - 157.5°	94	0	-3
8	157.5° - 180.0°	96	-2	-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	6	-5
15	315.0° - 337.5°	89	3	-8
16	337.5° - 360.0°	89	-2	-6

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.3414$ $y=0.3505$ / $u'=0.2094$ $v'=0.4836$ $duv=9.301e-004$ 相关色温: $T_c=5139K$ 主波长: $\lambda_d=569.4nm$ 色纯度: Purity=7.6%色比: R=16.8% G=78.0% B=5.2% 峰值波长: $\lambda_p=450.1nm$ 半宽度: $\Delta\lambda_d=20.4nm$ 显色指数: $R_a=92.6$ $AvgR=89.5$ $K_{red}=11.45\%$ 平均波长 $\lambda_{av}=560.5nm$

R1 =92.95 R2 =93.87 R3 =93.21 R4 =93.42 R5 =93.10

R6 =90.59 R7 =94.38 R8 =88.90 R9 =68.67 R10=85.08

R11=93.48 R12=73.70 R13=93.19 R14=96.20 R15=91.99

TM30 参数: $R_f = 91.3$, $R_g=100.6$

光度参数:

光通量 $\Phi = 3524 lm$ 光效: $131.91 lm/W$ $\phi_e = 12329 mW$ 光量子 $=5.777e+001 umol/s$ 荧光蓝光比=3.34 荧光效能=3.553e-001

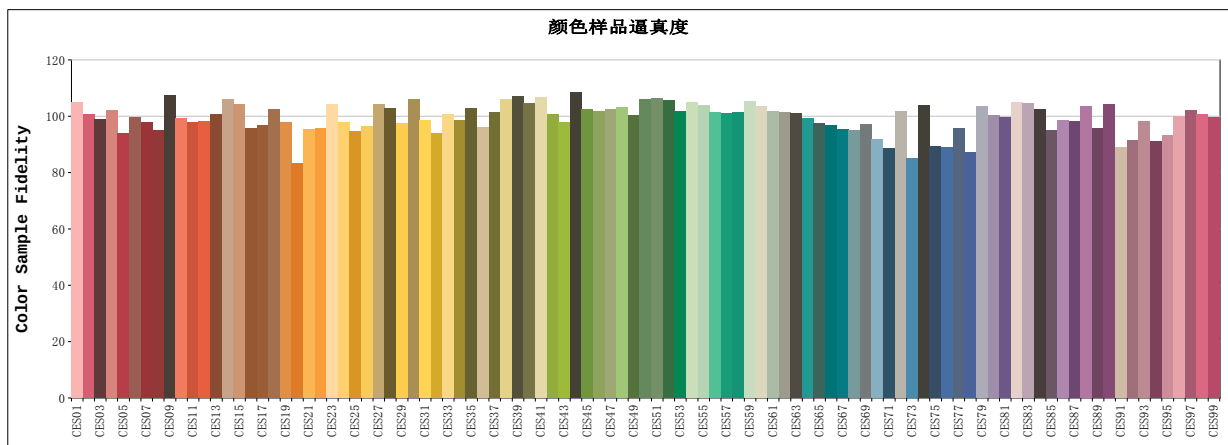
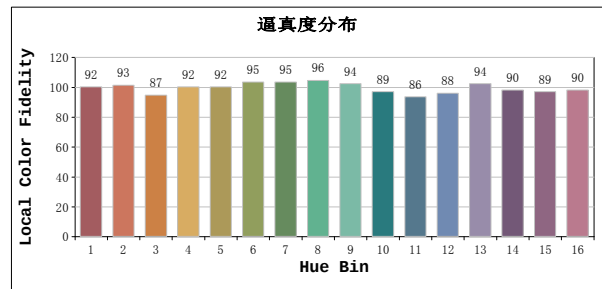
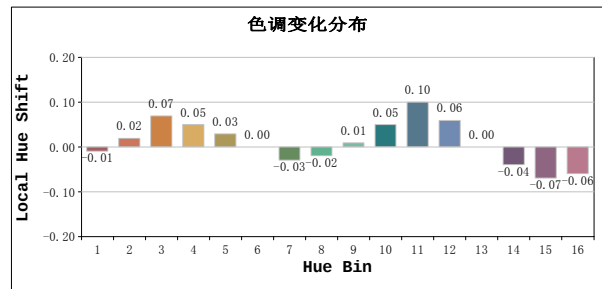
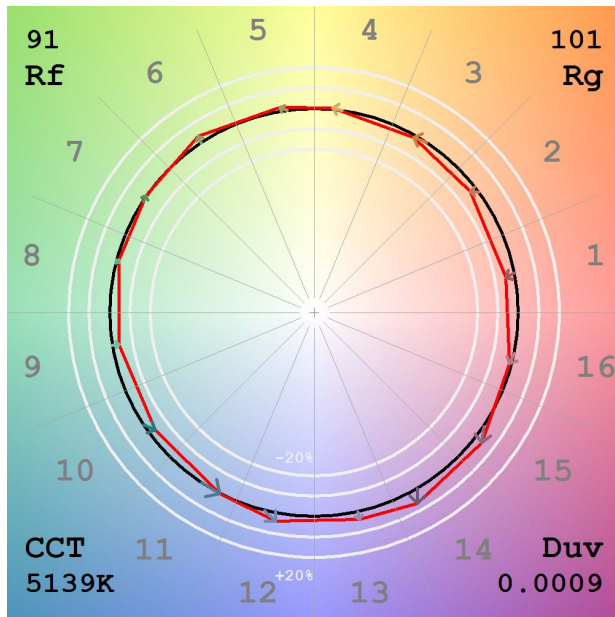
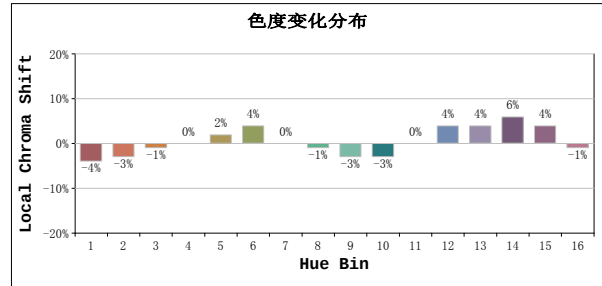
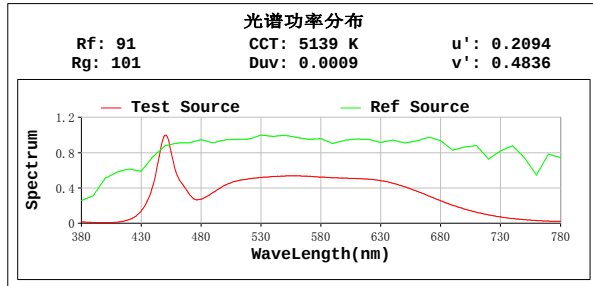
电参数:

正向电压 $V_F = 35.64 V$ 正向电流 $I_F = 749.7 mA$ 功率 $P = 26717 mW$ Ch1

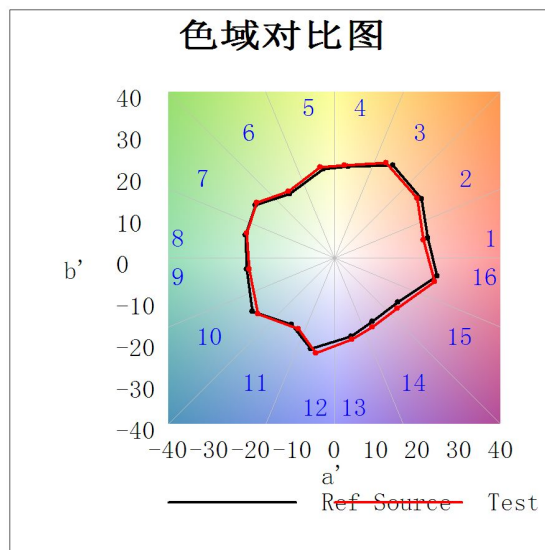
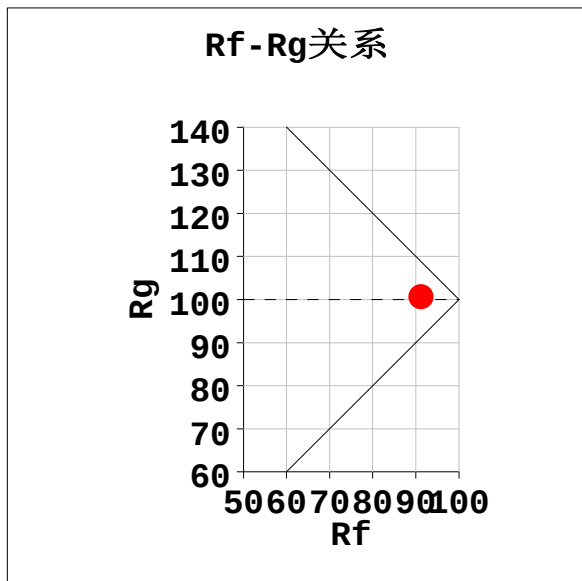
分级: *0[OUT] 白光分类: 5000K

仪器状态: 积分时间 $T=10.00ms$ $I_p=47222 (72\%)$ [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: 6
测试日期: 2023-11-18 10-23
环境湿度: 65.0%
备 注: ---

IES TM-30-18 Color Rendition Report



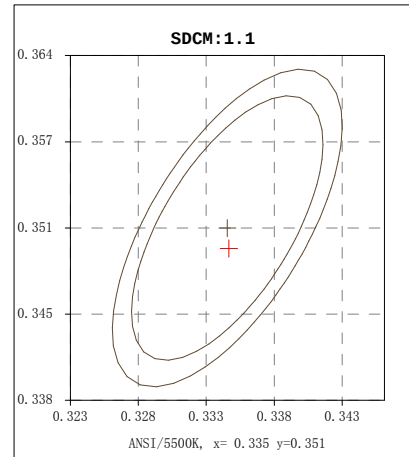
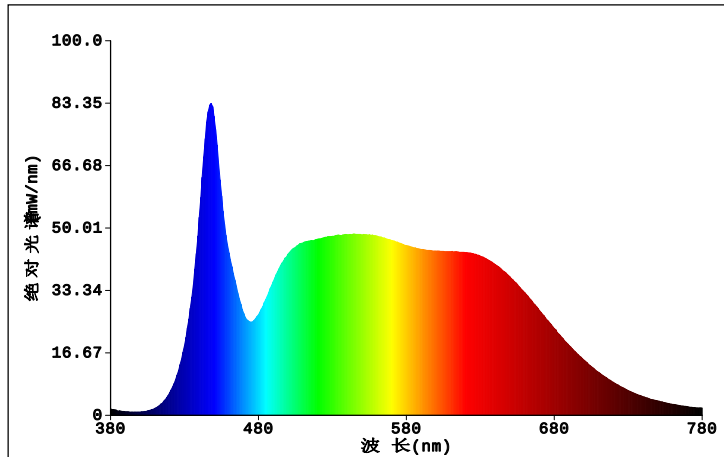
TM30 Report



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°	87	-1	7
4	67.5° - 90.0°	92	0	5
5	90.0° - 112.5°	92	2	3
6	112.5° - 135.0°	95	4	0
7	135.0° - 157.5°	95	0	-3
8	157.5° - 180.0°	96	-1	-2
9	180.0° - 202.5°	94	-3	1
10	202.5° - 225.0°	89	-3	5
11	225.0° - 247.5°	86	0	10
12	247.5° - 270.0°	88	4	6
13	270.0° - 292.5°	94	4	0
14	292.5° - 315.0°	90	6	-4
15	315.0° - 337.5°	89	4	-7
16	337.5° - 360.0°	90	-1	-6

光源光谱测试报告



颜色参数:

色品坐标(2度): $x=0.3351$ $y=0.3495$ $u'=0.2055$ $v'=0.4822$ $duv=3.112e-003$ 相关色温: $T_c=5593K$ 主波长: $\lambda_d=559.0nm$ 色纯度: Purity=5.4%色比: R=16.4% G=78.2% B=5.4% 峰值波长: $\lambda_p=447.5nm$ 半宽度: $\Delta\lambda_d=23.2nm$ 显色指数: $R_a=93.0$ $AvgR=90.5$ $K_{red}=11.19\%$ 平均波长 $\lambda_{av}=556.9nm$

R1 =93.59 R2 =93.52 R3 =92.92 R4 =93.66 R5 =93.92

R6 =91.24 R7 =94.52 R8 =91.03 R9 =73.47 R10=85.12

R11=93.91 R12=78.94 R13=93.31 R14=96.12 R15=92.41

TM30 参数: $R_f = 92.8$, $R_g=100.8$

光度参数:

光通量 $\Phi = 3302 lm$ 光效: $121.22 lm/W$ $\phi_e = 11696 mW$ 光量子= $5.461e+001 \mu mol/s$ 荧光蓝光比=3.23 荧光效能= $3.280e-001$

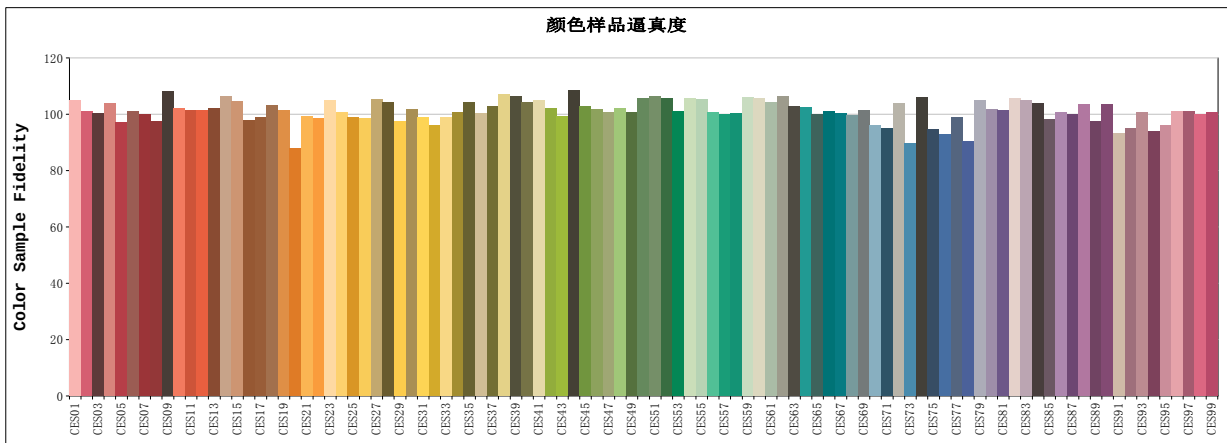
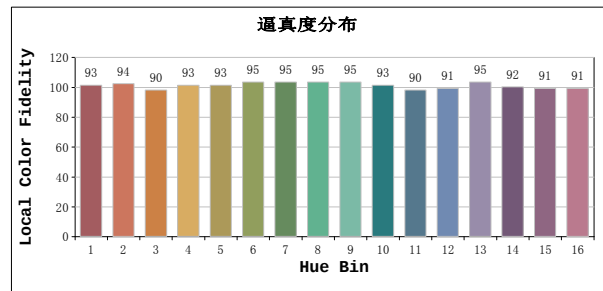
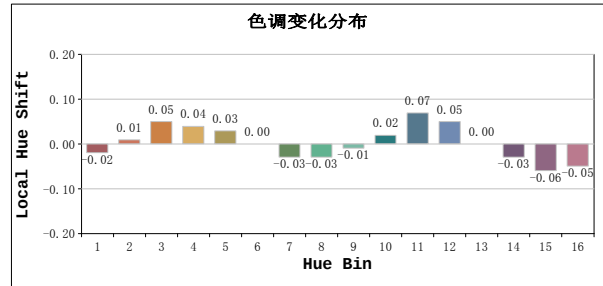
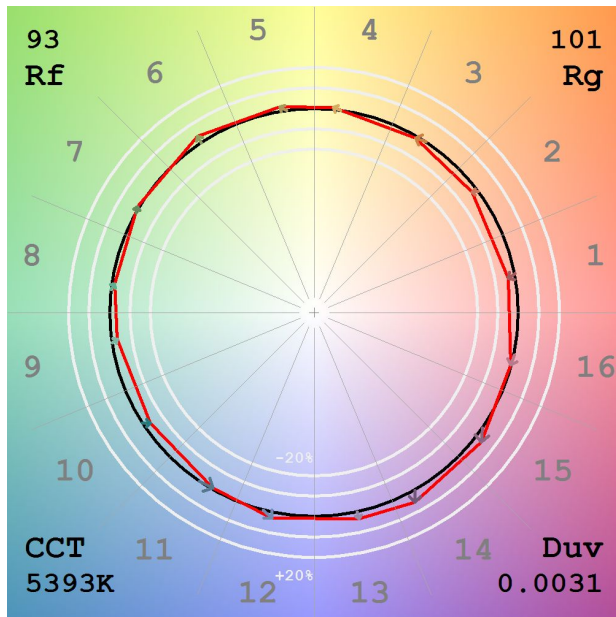
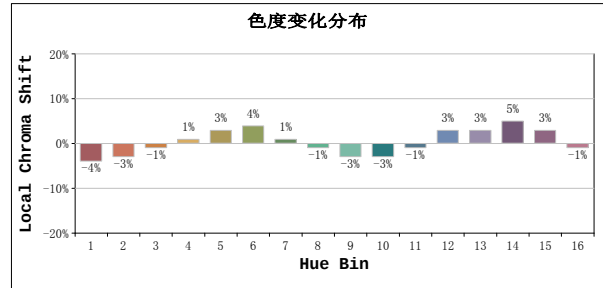
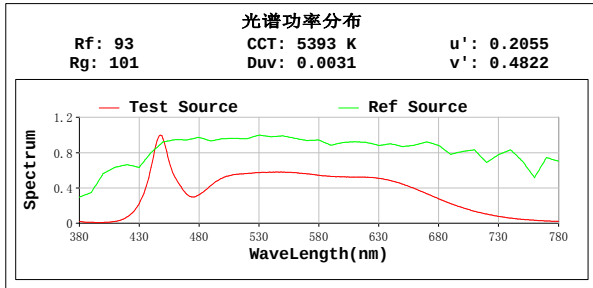
电参数:

正向电压 $V_F = 36.33 V$ 正向电流 $I_F = 749.7 mA$ 功率 $P = 27237 mW$ Ch1

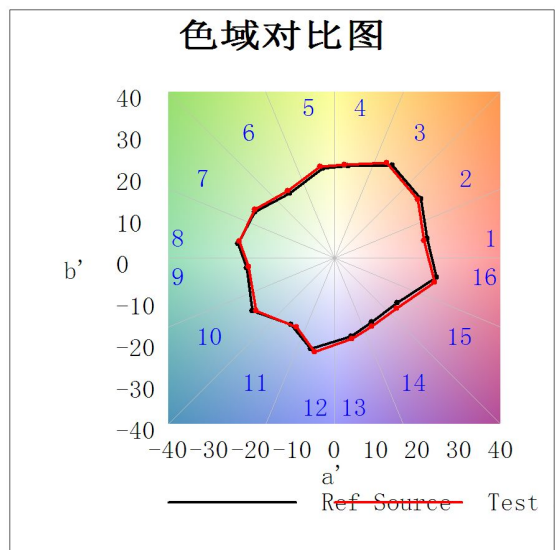
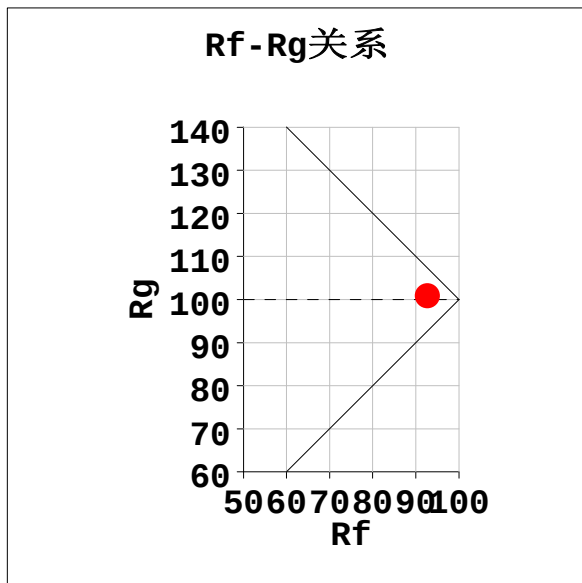
分级:*0[OUT] 白光分类:5700K

仪器状态: 积分时间 $T=10.00ms$ $I_p=43135 (66\%)$ [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:7
测试日期:2023-11-18 10-24
环境湿度:65.0%
备 注:---

IES TM-30-18 Color Rendition Report



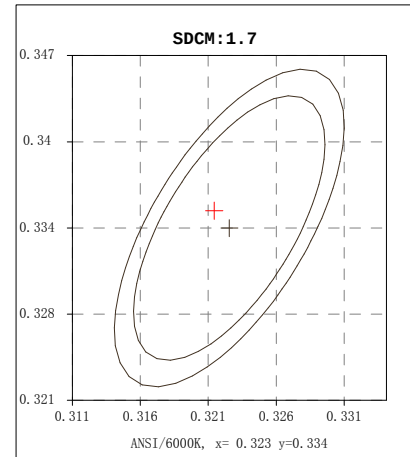
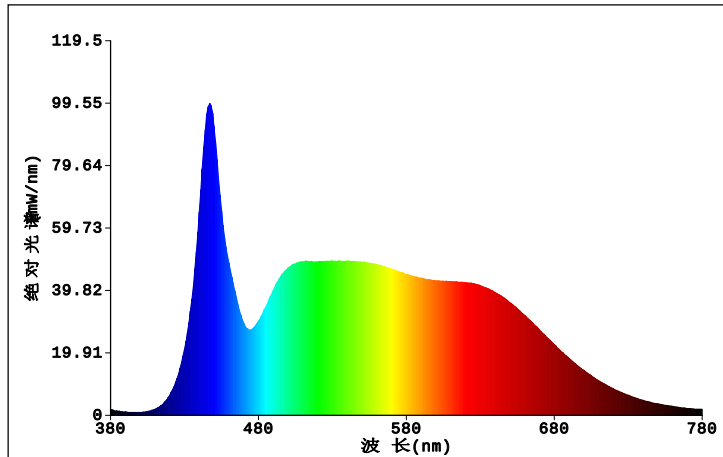
TM30 Report



数据分析表

			Graphic shift(%)	
Hue Bin	Hue Angle	Rf	Chroma	Hue
1	0.0° - 22.5°	93	-4	-2
2	22.5° - 45.0°	94	-3	1
3	45.0° - 67.5°	90	-1	5
4	67.5° - 90.0°	93	1	4
5	90.0° - 112.5°	93	3	3
6	112.5° - 135.0°	95	4	0
7	135.0° - 157.5°	95	1	-3
8	157.5° - 180.0°	95	-1	-3
9	180.0° - 202.5°	95	-3	-1
10	202.5° - 225.0°	93	-3	2
11	225.0° - 247.5°	90	-1	7
12	247.5° - 270.0°	91	3	5
13	270.0° - 292.5°	95	3	0
14	292.5° - 315.0°	92	5	-3
15	315.0° - 337.5°	91	3	-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): $x=0.3219$ $y=0.3353$ / $u'=0.2018$ $v'=0.4730$ $duv=1.898e-003$ 相关色温: $T_c=5997K$ 主波长: $\lambda_d=493.9nm$ 色纯度: Purity=3.7%色比: R=15.7% G=78.2% B=6.0% 峰值波长: $\lambda_p=447.2nm$ 半宽度: $\Delta\lambda_d=21.9nm$ 显色指数: $R_a=94.0$ $AvgR=92.0$ $K_{red}=10.75\%$ 平均波长 $\lambda_{av}=550.2nm$

R1 =95.38 R2 =94.35 R3 =92.64 R4 =93.94 R5 =95.64

R6 =91.90 R7 =94.69 R8 =93.55 R9 =80.95 R10=86.98

R11=93.68 R12=79.66 R13=94.97 R14=96.02 R15=94.95

TM30 参数: $R_f = 93.1$, $R_g:101.5$

光度参数:

光通量 $\Phi = 3345 lm$ 光效: $123.81 lm/W$ $\phi_e = 12115 mW$ 光量子= $5.605e+001 \mu mol/s$ 荧光蓝光比=2.83 荧光效能= $3.314e-001$

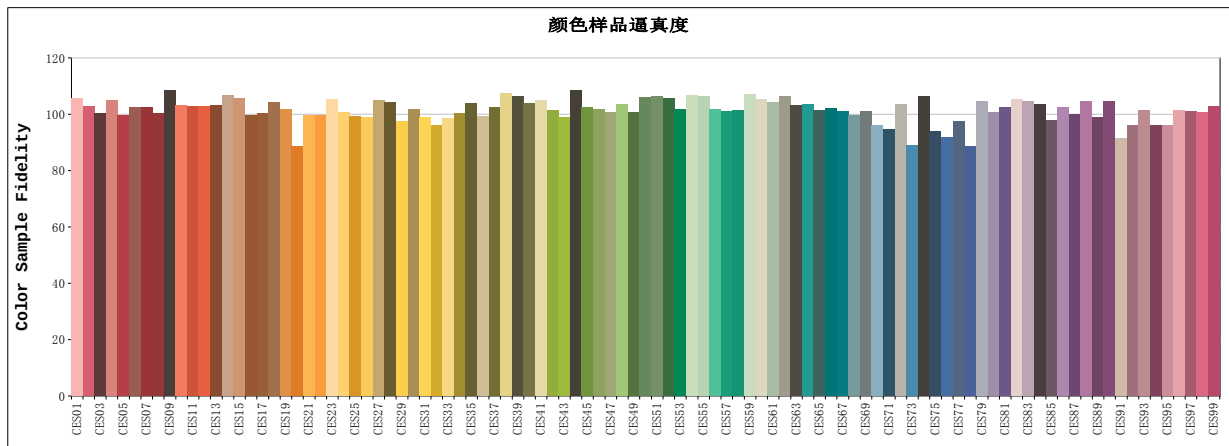
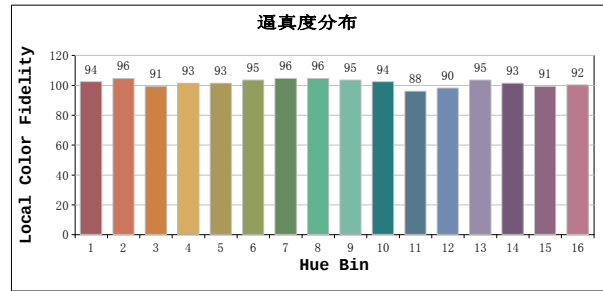
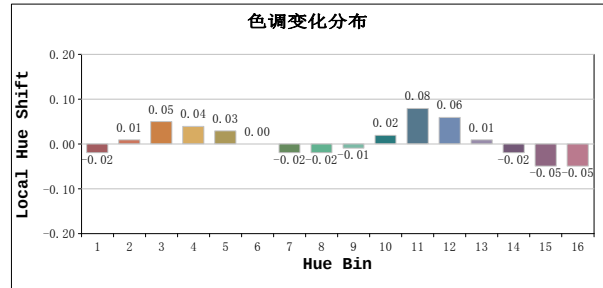
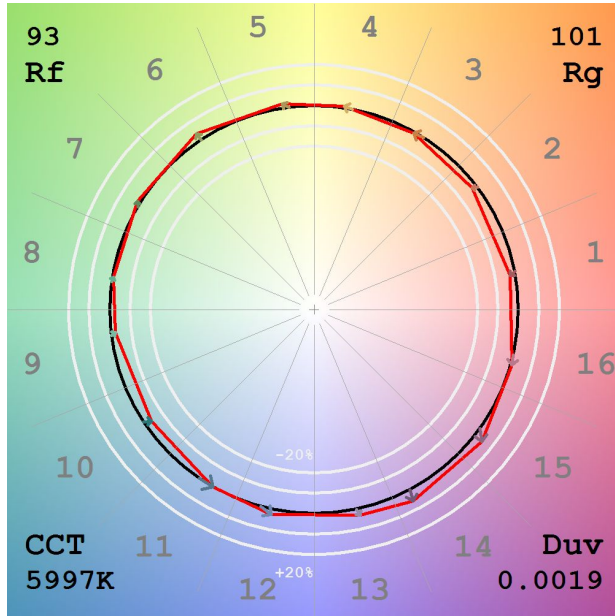
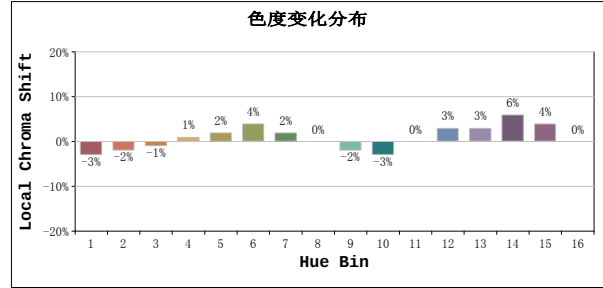
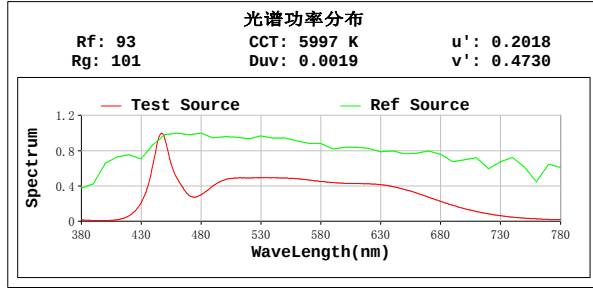
电参数:

正向电压 $V_F = 36.04 V$ 正向电流 $I_F = 749.7 mA$ 功率 $P = 27019 mW$ Ch1

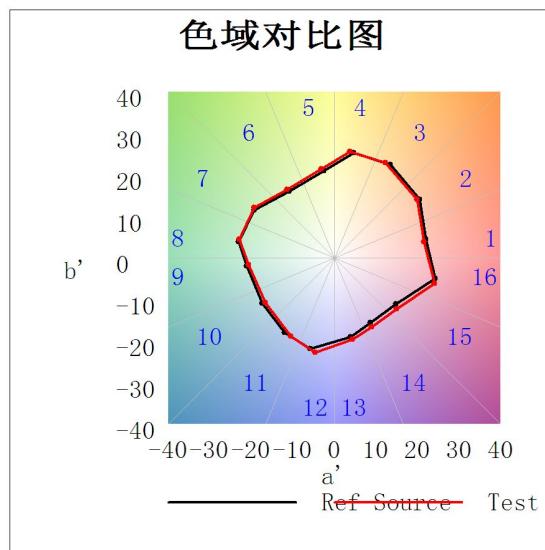
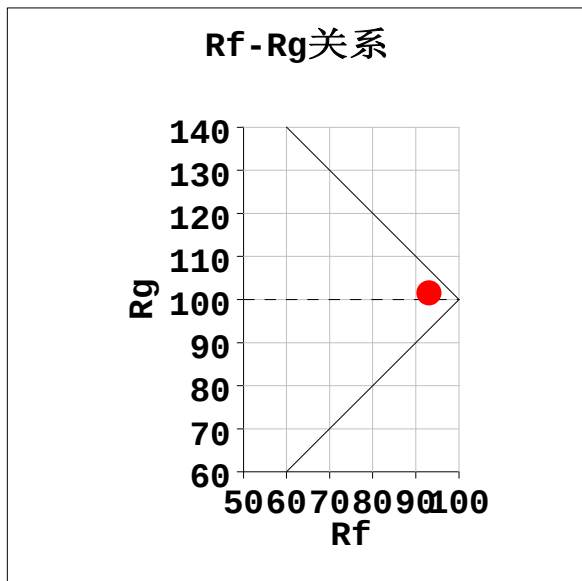
分级:*0[OUT] 白光分类:5700K

仪器状态: 积分时间 $T=11.00ms$ $I_p=50993 (78\%)$ [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:8
测试日期:2023-11-18 10-25
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°	94	-3	-2
2	22.5° - 45.0°	96	-2	1
3	45.0° - 67.5°	91	-1	5
4	67.5° - 90.0°	93	1	4
5	90.0° - 112.5°	93	2	3
6	112.5° - 135.0°	95	4	0
7	135.0° - 157.5°	96	2	-2
8	157.5° - 180.0°	96	0	-2
9	180.0° - 202.5°	95	-2	-1
10	202.5° - 225.0°	94	-3	2
11	225.0° - 247.5°	88	0	8
12	247.5° - 270.0°	90	3	6
13	270.0° - 292.5°	95	3	1
14	292.5° - 315.0°	93	6	-2
15	315.0° - 337.5°	91	4	-5
16	337.5° - 360.0°	92	0	-5