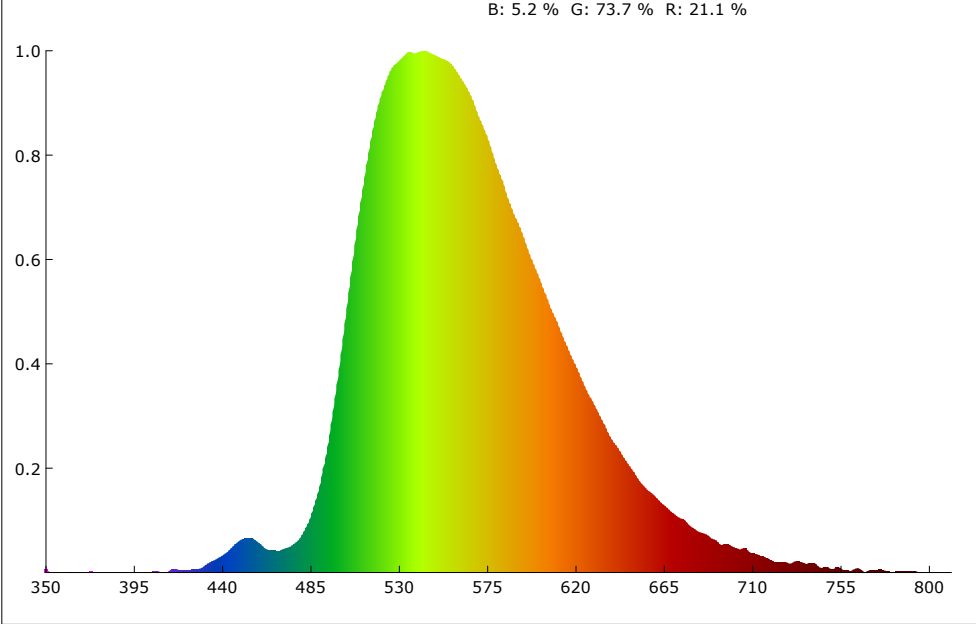
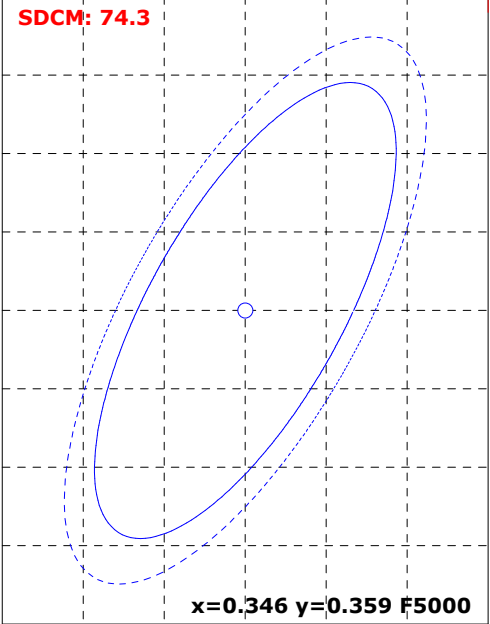


Spectrogram



SDCM



Color Parameter:

x: 0.3891 y: 0.5530 u: 0.1757 v: 0.3746 u': 0.1757 v': 0.5619
R_ratio: 21.1 % G_ratio: 73.7 % B_ratio: 5.2 % RedRatio: 9.1 % GreenRatio: 90.5 % BlueRatio: 0.4 %

Ra: 43.7 AvgR: 28.2
R1: 36.9 R2: 53.6 R3: 63.1 R4: 22.9 R5: 38.1 R6: 49.2 R7: 62.7 R8: 23.4
R9: -99.0 R10: 7.6 R11: 7.0 R12: 15.9 R13: 38.6 R14: 82.4 R15: 20.6

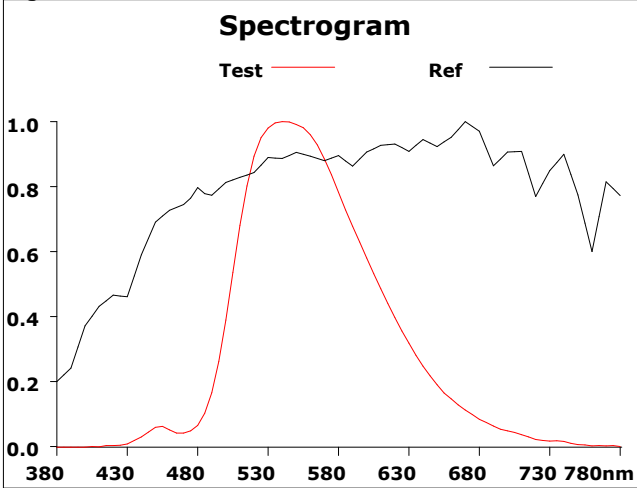
CCT: 4586 K Flux: 240.975 lm PeakWave: 543.4 nm SDCM: 74.3
S/P: 1.5 CentralWave: 555.7 nm DominantWave: 563.8 nm CentroidWave: 565.0 nm
HalfWidth: 104.3 nm duv: 0.06209 purity: 83.1 % CQS: 41.5
LER(TM-30): 466.8 Ep: 516.3 mw Rg: 54.2 Rf: 48.7
Red Ep: 107.5 mw Near red Ep: 6.5 mw Near infrared Ep: 0.2 mw

Electrical parameters:

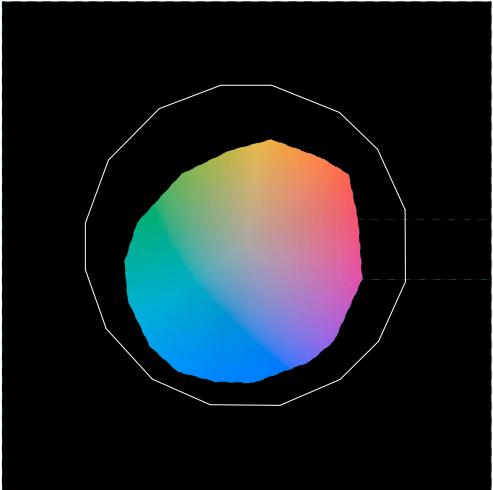
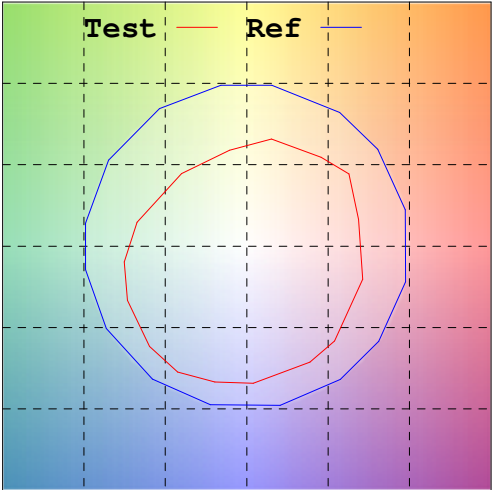
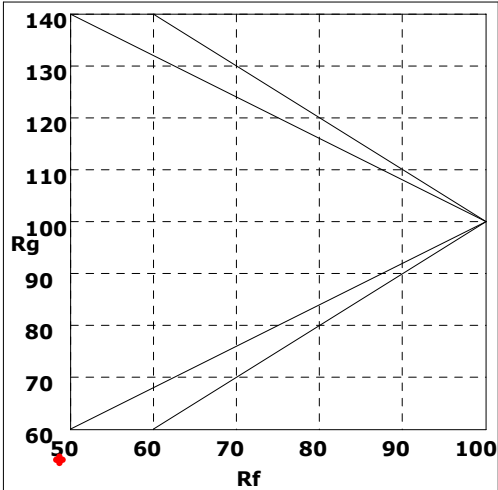
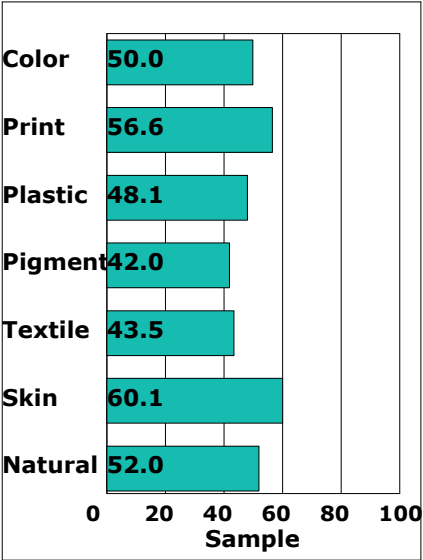
Effic: 11.4 Lm/W Energy: 12.4 Effi: G
U: 220.6 V I: 0.176 A P: 21.230 W Pf: 0.545

Product model: Manufacturer: Guangzhou Hotion Technology Co.,
Product number: Test unit:
Tester: Date of observation: 03/31/13
Remarks:

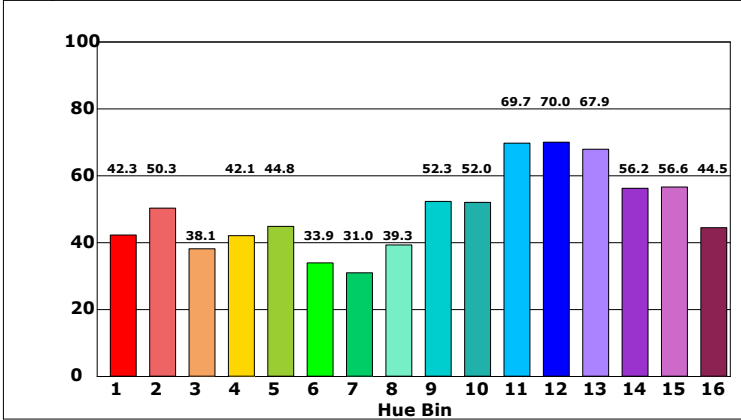
Rf: 48.7 CCT: 4586K u': 0.1757
Rg: 54.2 LER: 466.8 Duv: 0.06209 v': 0.5619



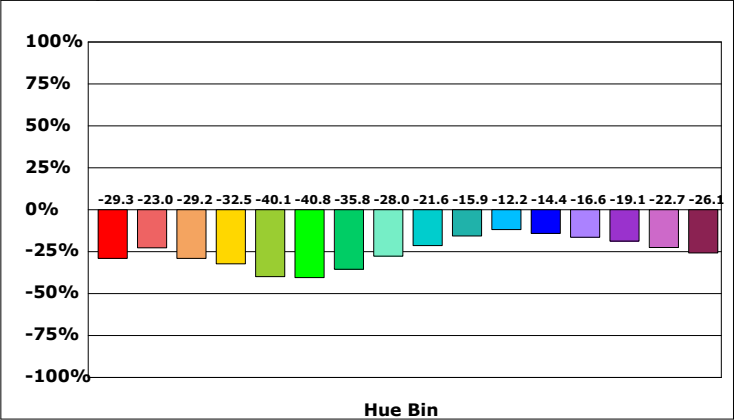
500			
Hue Bin	Rf	Chroma	Hue
1	42.3	-29.3%	-0.2%
2	50.3	-23.0%	-2.8%
3	38.1	-29.2%	-5.7%
4	42.1	-32.5%	-6.2%
5	44.8	-40.1%	2.7%
6	33.9	-40.8%	10.9%
7	31.0	-35.8%	22.0%
8	39.3	-28.0%	18.6%
9	52.3	-21.6%	23.5%
10	52.0	-15.9%	24.0%
11	69.7	-12.2%	10.5%
12	70.0	-14.4%	-0.0%
13	67.9	-16.6%	-13.5%
14	56.2	-19.1%	-9.7%
15	56.6	-22.7%	-14.9%
16	44.5	-26.1%	-3.6%



Rf by Bue

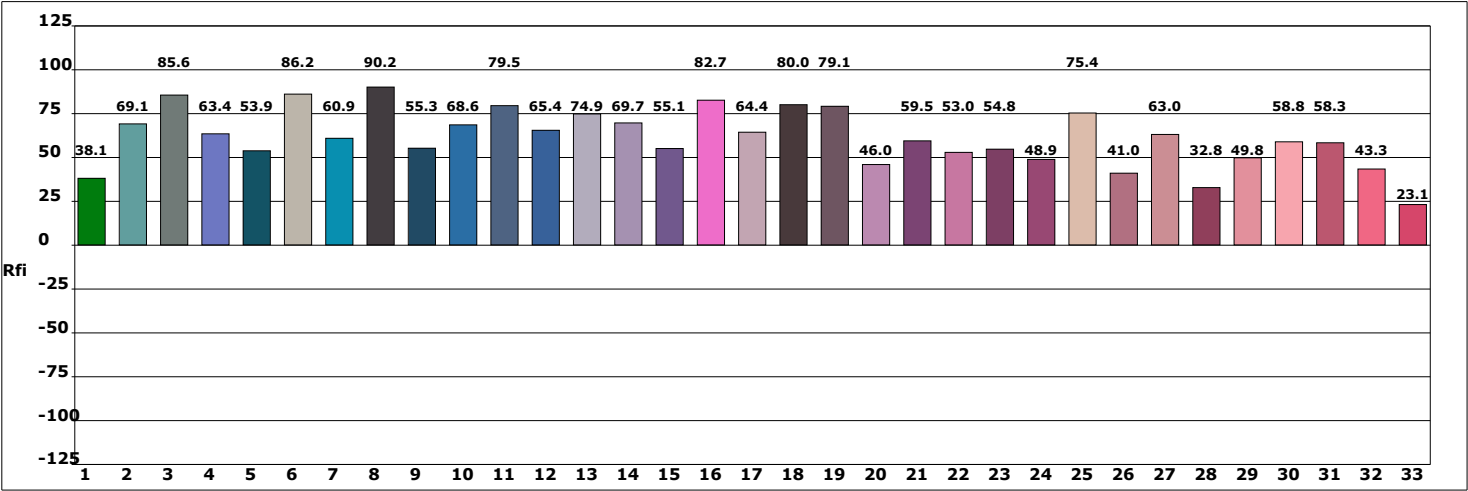
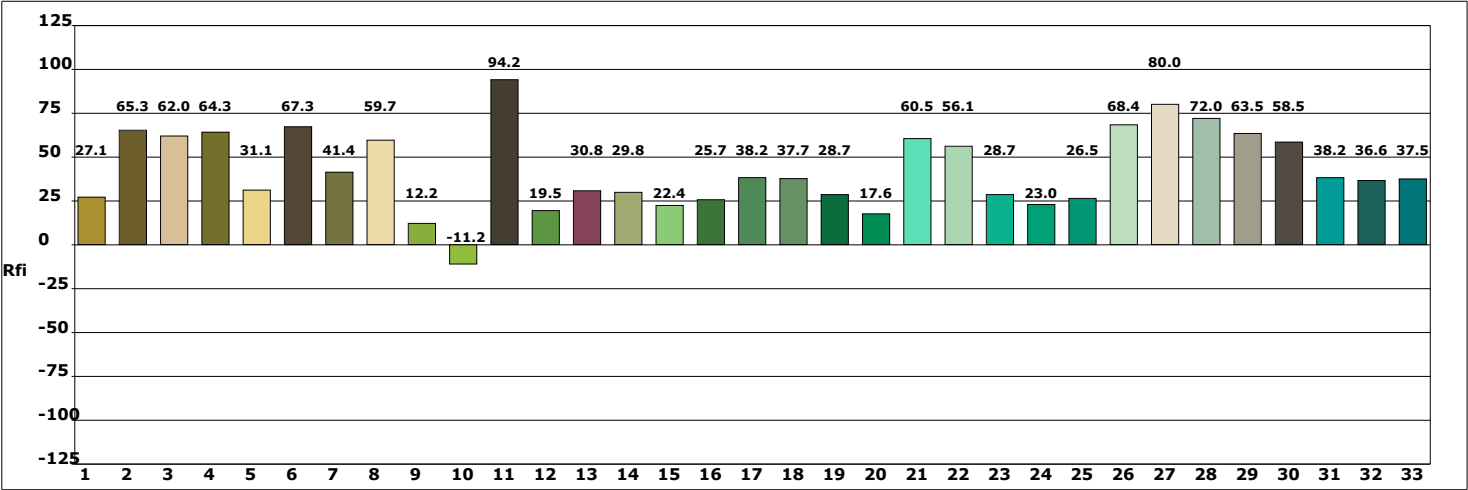
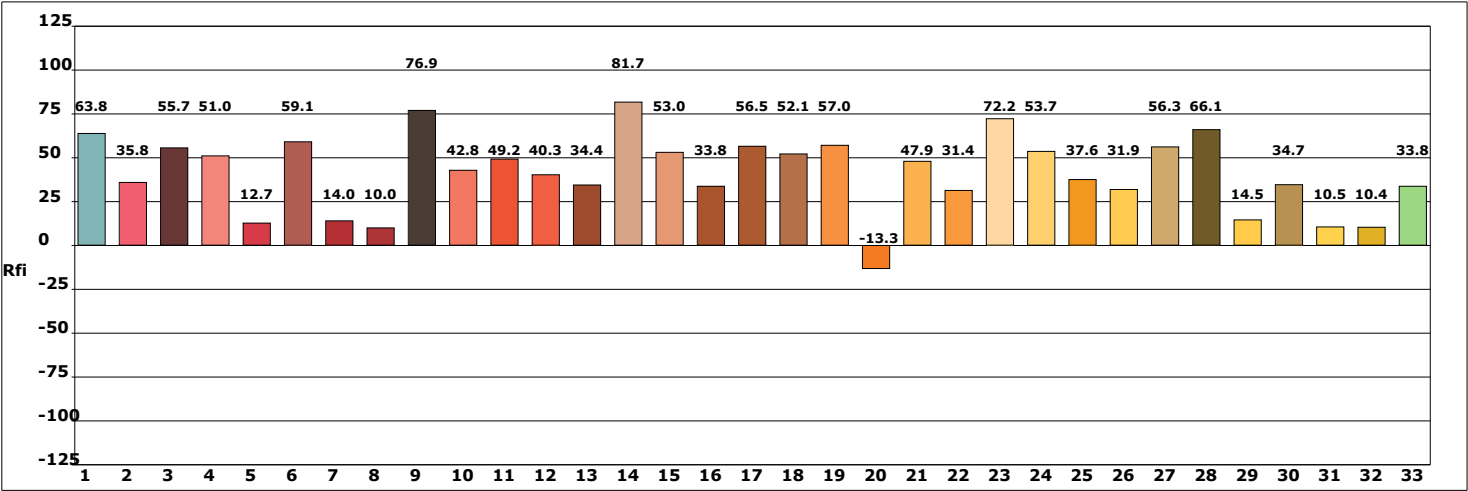


Chroma by Bue



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 03/31/13



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 03/31/13