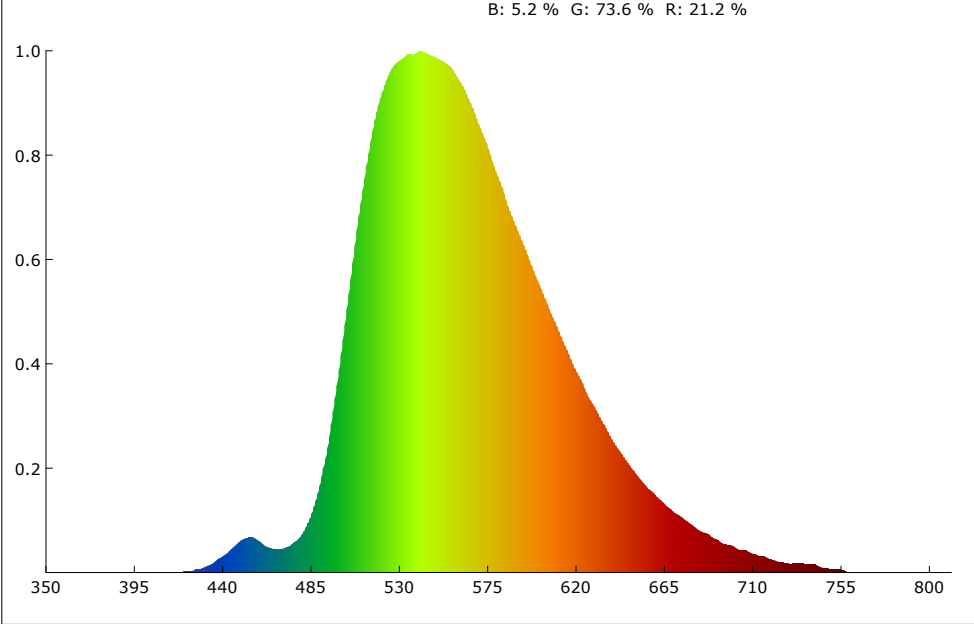
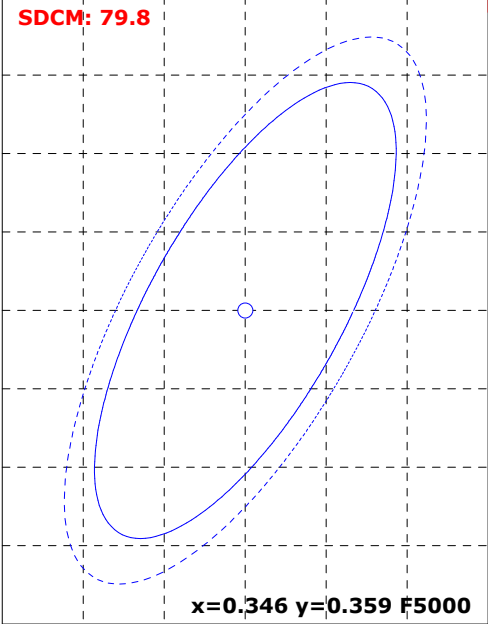


Spectrogram



SDCM



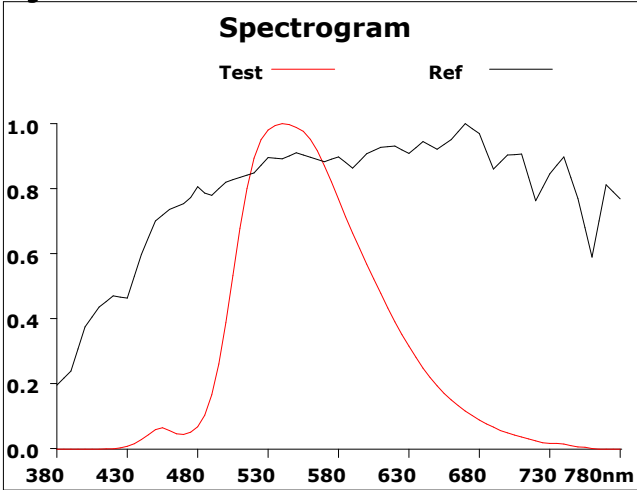
Color Parameter:

x: 0.3885	y: 0.5646	u: 0.1727	v: 0.3765	u': 0.1727	v': 0.5648
R_ratio: 21.2 %	G_ratio: 73.6 %	B_ratio: 5.2 %	RedRatio: 9.0 %	GreenRatio: 90.5 %	BlueRatio: 0.5 %
Ra: 27.5	AvgR: 11.9				
R1: 32.6	R2: 37.0	R3: 35.5	R4: -18.0	R5: 1.6	R6: 22.5
R7: 79.0	R8: 30.3	R9: -99.0	R10: -0.8	R11: -31.9	R12: -5.7
R13: 21.6	R14: 62.4	R15: 10.9			
CCT: 4615 K	Flux: 455.617 lm	PeakWave: 541.4 nm	SDCM: 79.8		
S/P: 1.5	CentralWave: 555.3 nm	DominantWave: 563.4 nm	CentroidWave: 564.9 nm		
HalfWidth: 103.1 nm	duv: 0.06550	purity: 86.4 %	CQS: 40.8		
LER(TM-30): 473.1	Ep: 963.0 mw	Rg: 54.0	Rf: 48.2		
Red Ep: 201.8 mw	Near red Ep: 11.0 mw	Near infrared Ep: 0.0 mw			

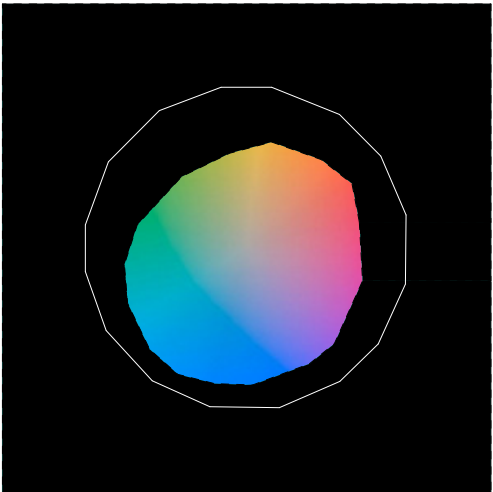
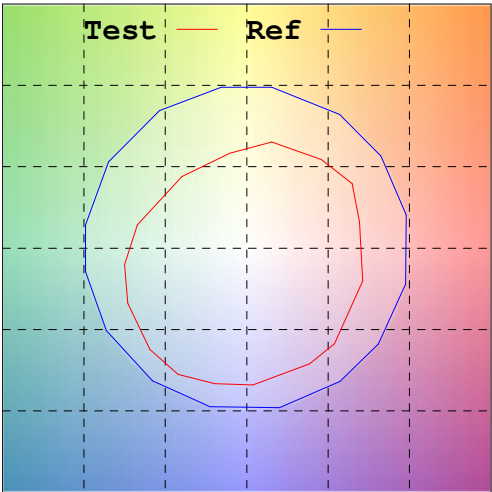
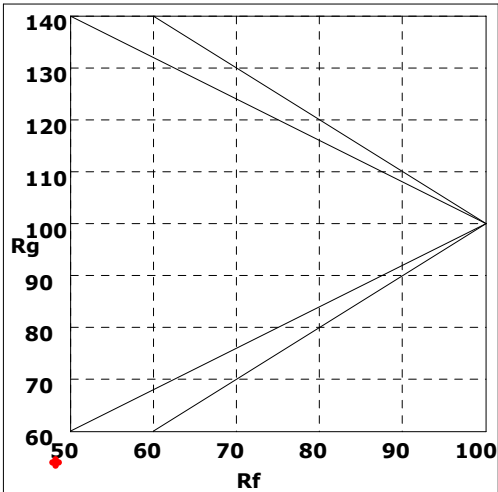
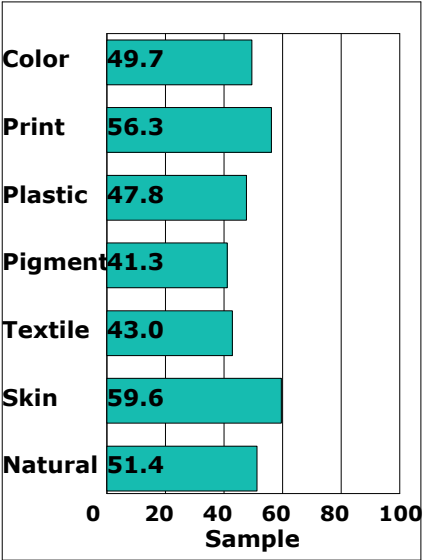
Electrical parameters:

Effic: 21.5 Lm/W	Energy: 23.4	Effi: G	
U: 221.0 V	I: 0.175 A	P: 21.210 W	Pf: 0.546

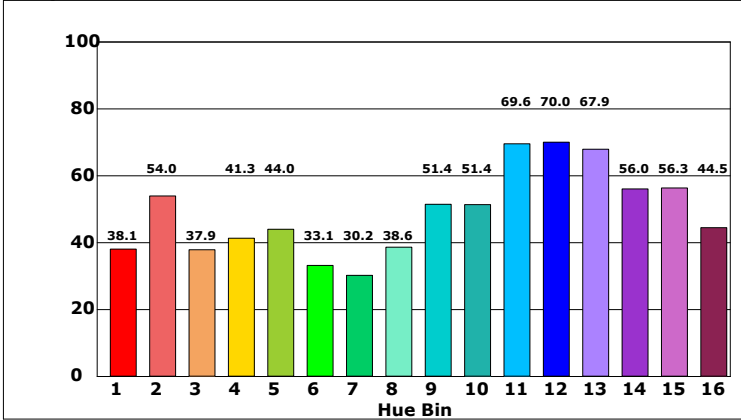
Rf: 48.2 CCT: 4615K u': 0.1727
Rg: 54.0 LER: 473.1 Duv: 0.06550 v': 0.5648



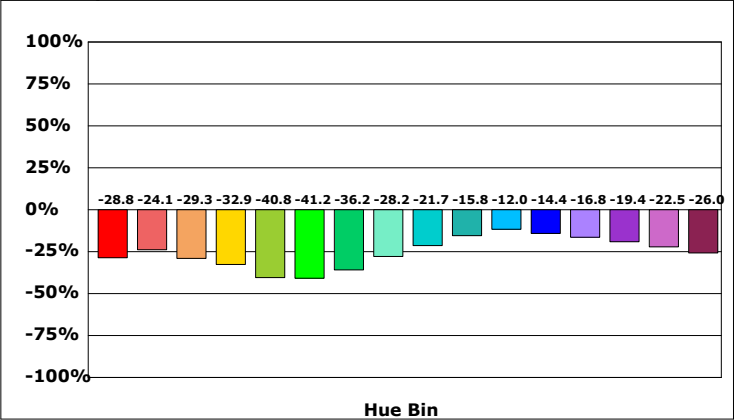
500			
Hue Bin	Rf	Chroma	Hue
1	38.1	-28.8%	1.4%
2	54.0	-24.1%	-4.2%
3	37.9	-29.3%	-5.9%
4	41.3	-32.9%	-6.5%
5	44.0	-40.8%	2.7%
6	33.1	-41.2%	11.2%
7	30.2	-36.2%	22.5%
8	38.6	-28.2%	19.2%
9	51.4	-21.7%	24.3%
10	51.4	-15.8%	24.6%
11	69.6	-12.0%	10.9%
12	70.0	-14.4%	0.1%
13	67.9	-16.8%	-13.3%
14	56.0	-19.4%	-9.5%
15	56.3	-22.5%	-14.8%
16	44.5	-26.0%	-3.3%



Rf by Bue

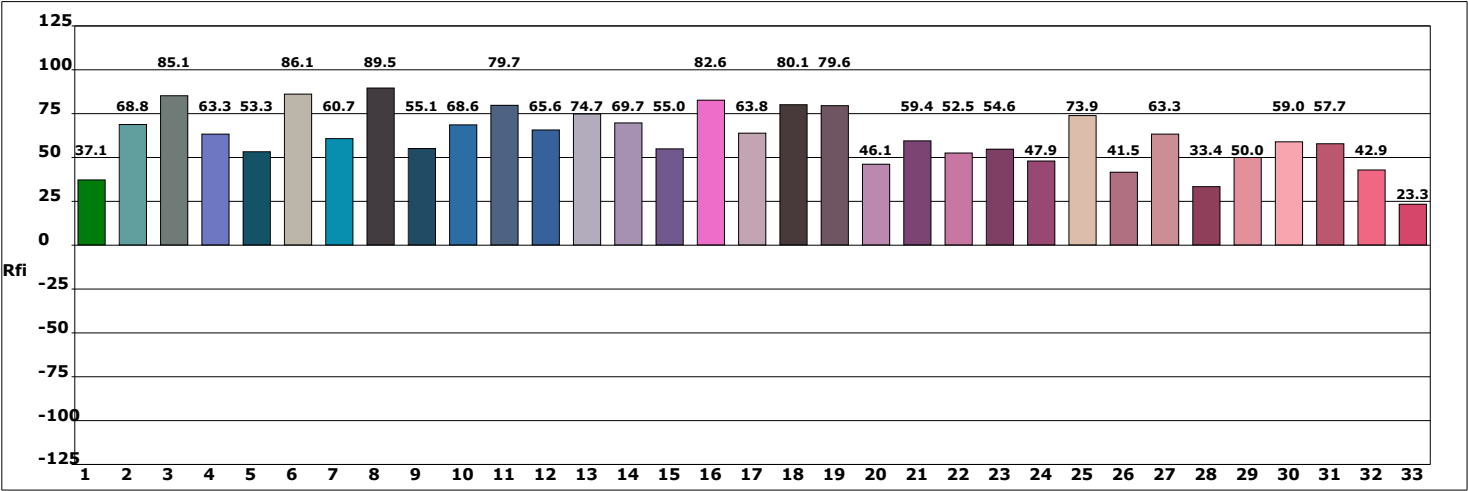
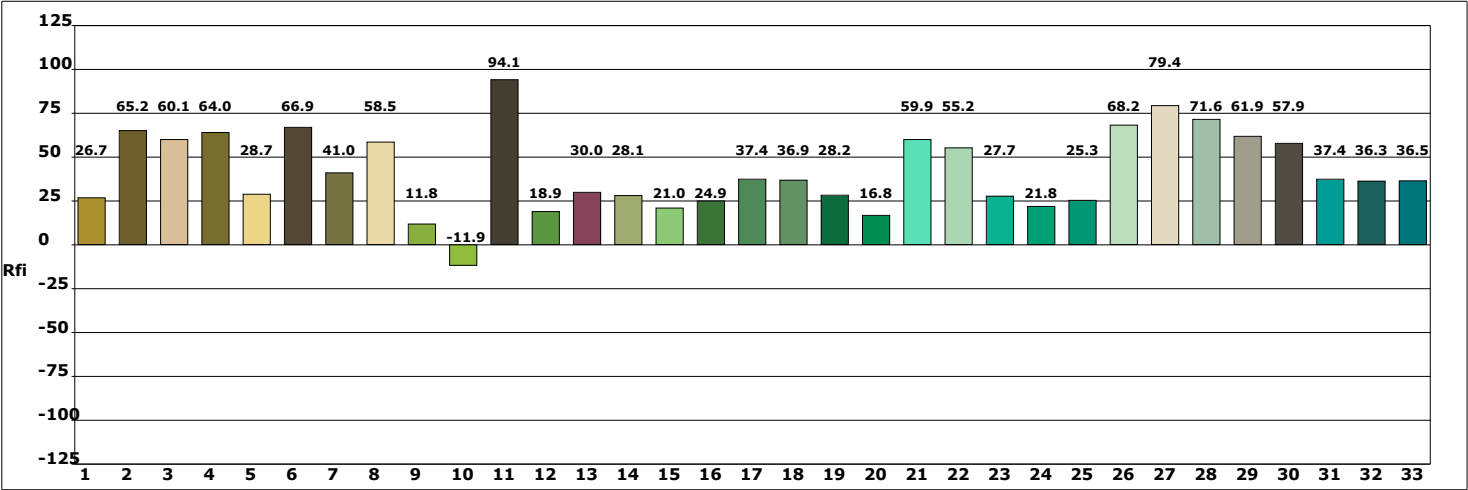
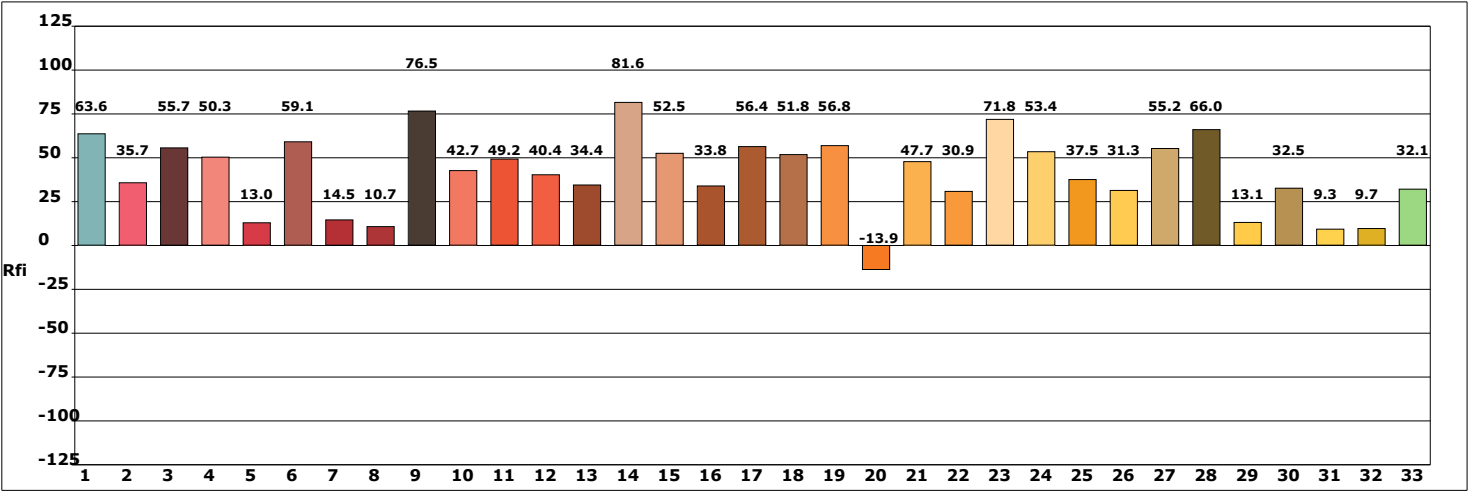


Chroma by Bue



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