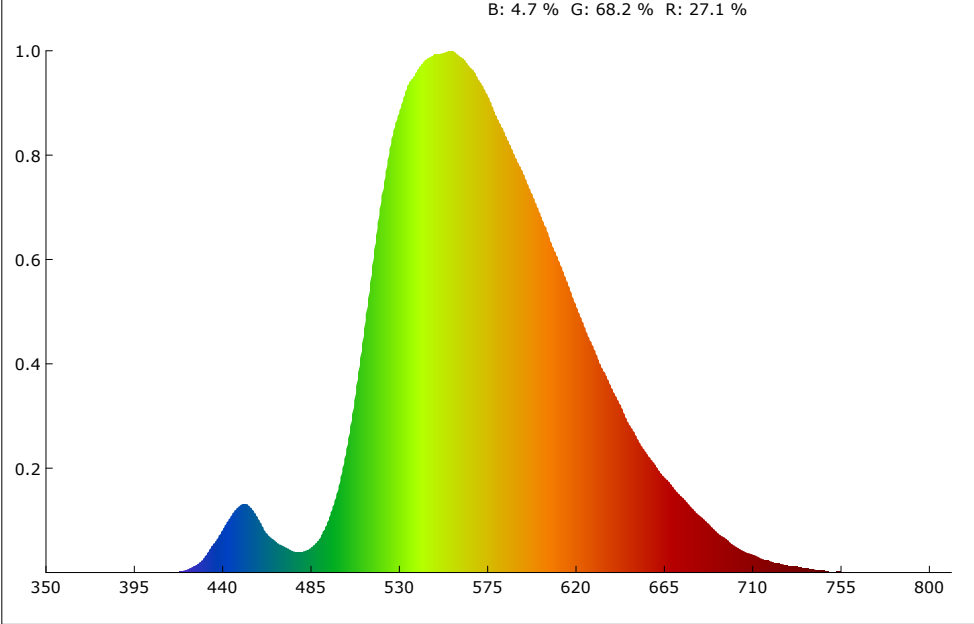
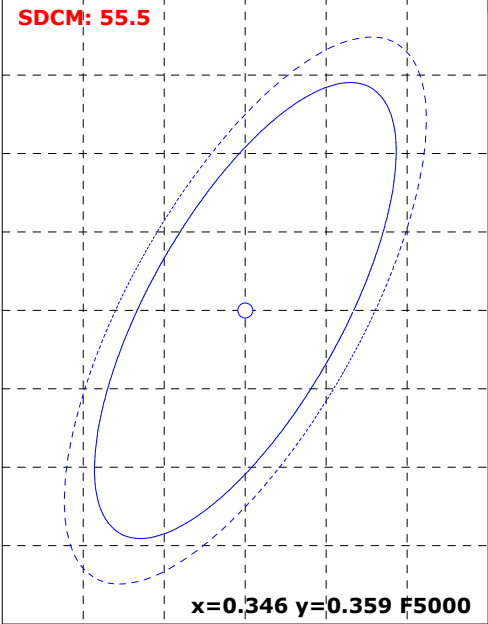


Spectrogram



SDCM



Color Parameter:

x: 0.4188	y: 0.5202	u: 0.1993	v: 0.3714	u': 0.1993	v': 0.5571
R_ratio: 27.1 %	G_ratio: 68.2 %	B_ratio: 4.7 %	RedRatio: 11.7 %	GreenRatio: 88.0 %	BlueRatio: 0.4 %

Ra: 55.2	AvgR: 37.2						
R1: 43.4	R2: 60.3	R3: 81.1	R4: 47.8	R5: 42.5	R6: 47.6	R7: 85.7	R8: 33.5
R9: -99.0	R10: 12.4	R11: 33.5	R12: 3.0	R13: 45.2	R14: 90.1	R15: 31.1	

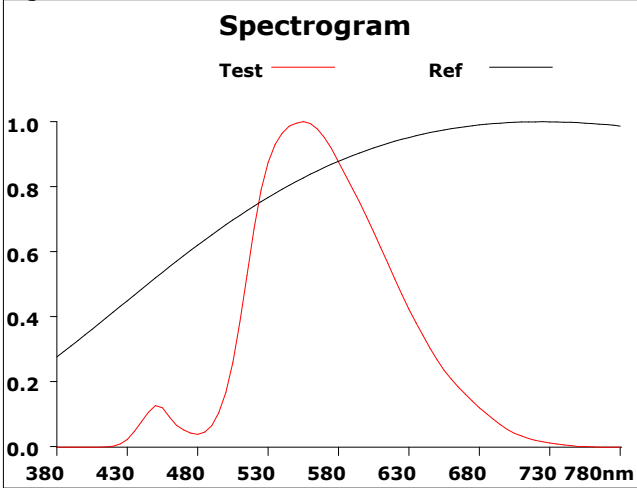
CCT: 4001 K	Flux: 1364.098 lm	PeakWave: 556.5 nm	SDCM: 55.5
S/P: 1.2	CentralWave: 567.3 nm	DominantWave: 569.1 nm	CentroidWave: 572.5 nm
HalfWidth: 107.0 nm	duv: 0.04511	purity: 82.0 %	CQS: 70.6
LER(TM-30): 456.9	Ep: 2985.7 mw	Rg: 68.4	Rf: 61.5
Red Ep: 802.5 mw	Near red Ep: 26.1 mw	Near infrared Ep: 0.0 mw	

Electrical parameters:

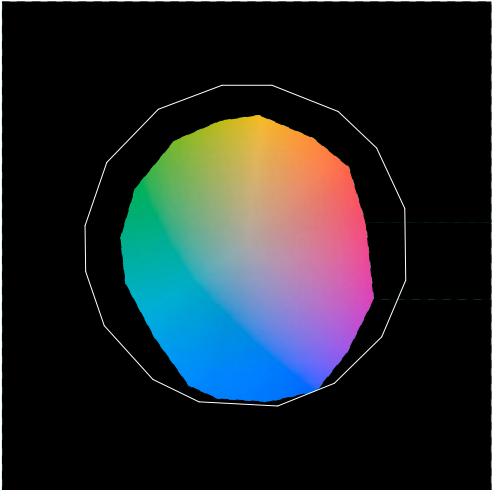
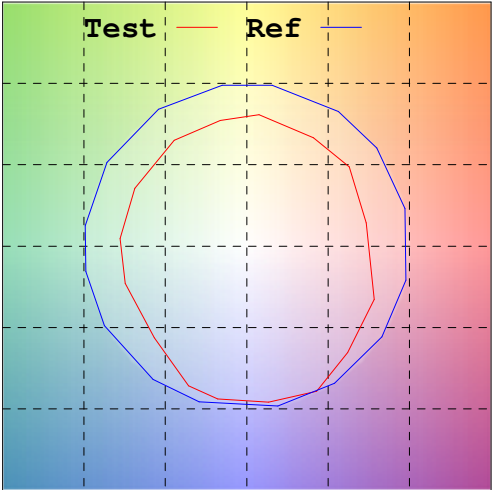
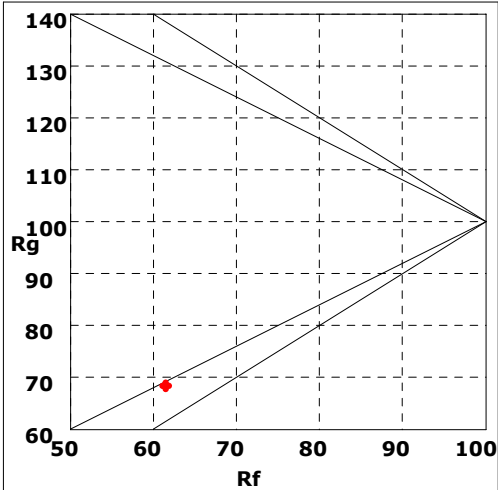
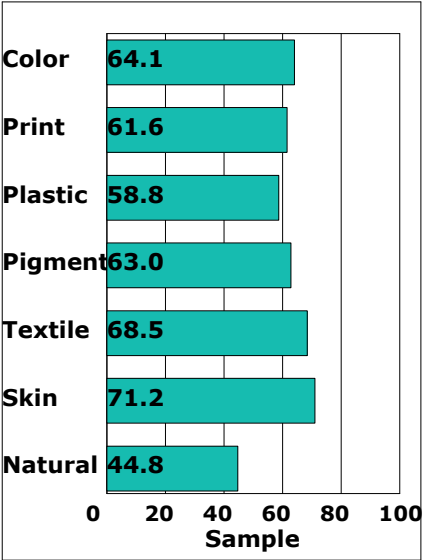
Effic: 17.8 Lm/W	Energy: 19.4	Effi: G	
U: 219.8 V	I: 0.560 A	P: 76.570 W	Pf: 0.621

Product model:	Manufacturer: Guangzhou Hotion Technology Co.,
Product number:	Test unit:
Tester:	Date of observation: 02/03/13
Remarks:	

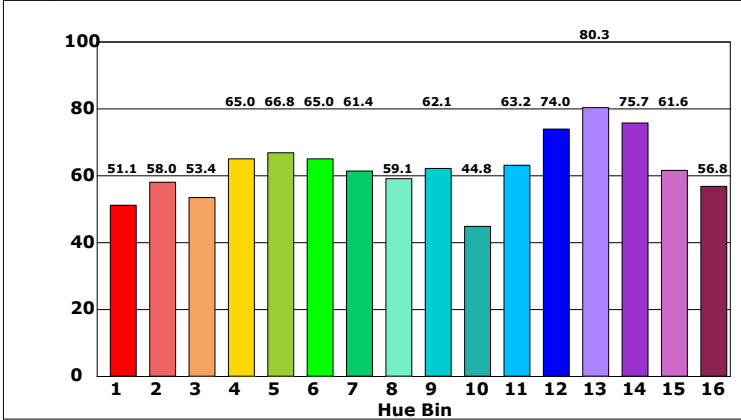
Rf: 61.5 CCT: 4001K u': 0.1993
Rg: 68.4 LER: 456.9 Duv: 0.04511 v': 0.5571



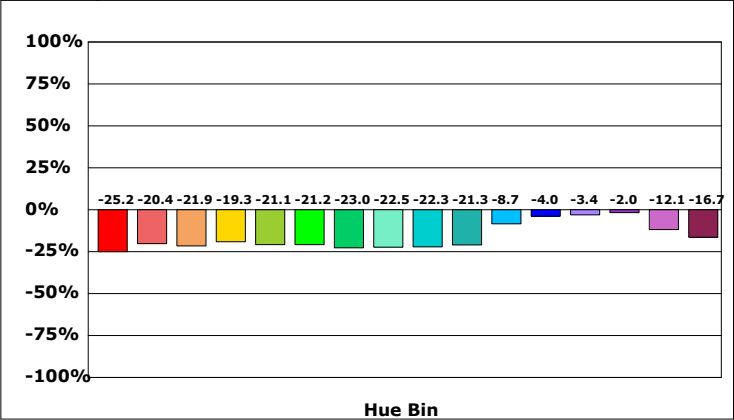
500			
Hue Bin	Rf	Chroma	Hue
1	51.1	-25.2%	-4.1%
2	58.0	-20.4%	-0.2%
3	53.4	-21.9%	3.9%
4	65.0	-19.3%	4.3%
5	66.8	-21.1%	5.5%
6	65.0	-21.2%	2.6%
7	61.4	-23.0%	3.7%
8	59.1	-22.5%	3.5%
9	62.1	-22.3%	11.9%
10	44.8	-21.3%	23.2%
11	63.2	-8.7%	20.3%
12	74.0	-4.0%	10.8%
13	80.3	-3.4%	-5.1%
14	75.7	-2.0%	-11.9%
15	61.6	-12.1%	-19.5%
16	56.8	-16.7%	-15.4%



Rf by Bue

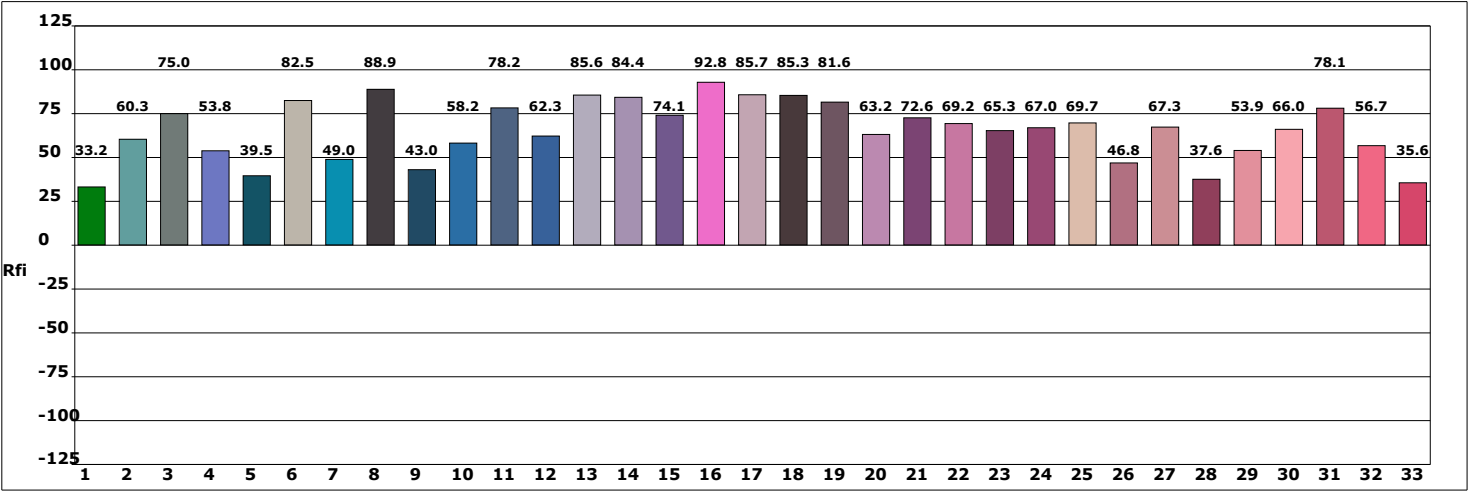
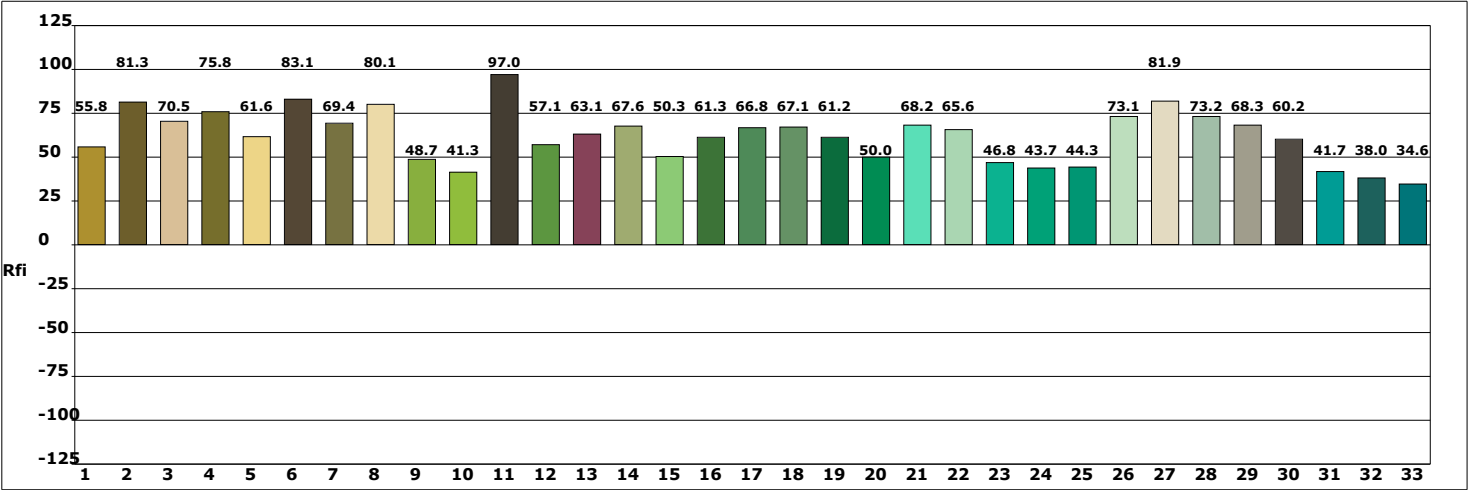
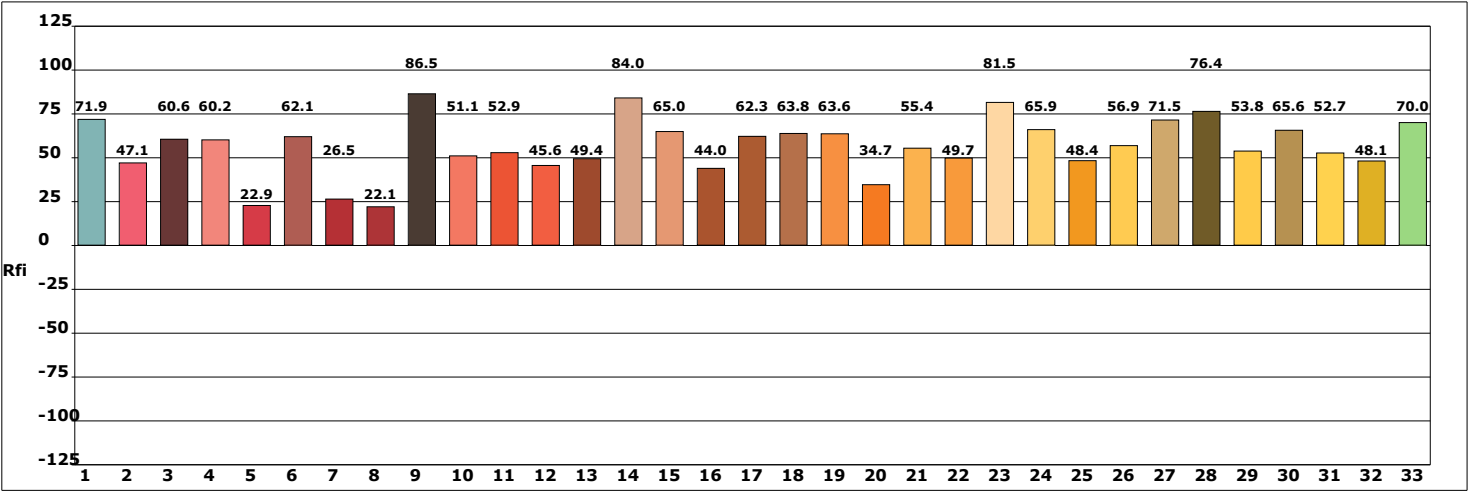


Chroma by Bue



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 02/03/13



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 02/03/13