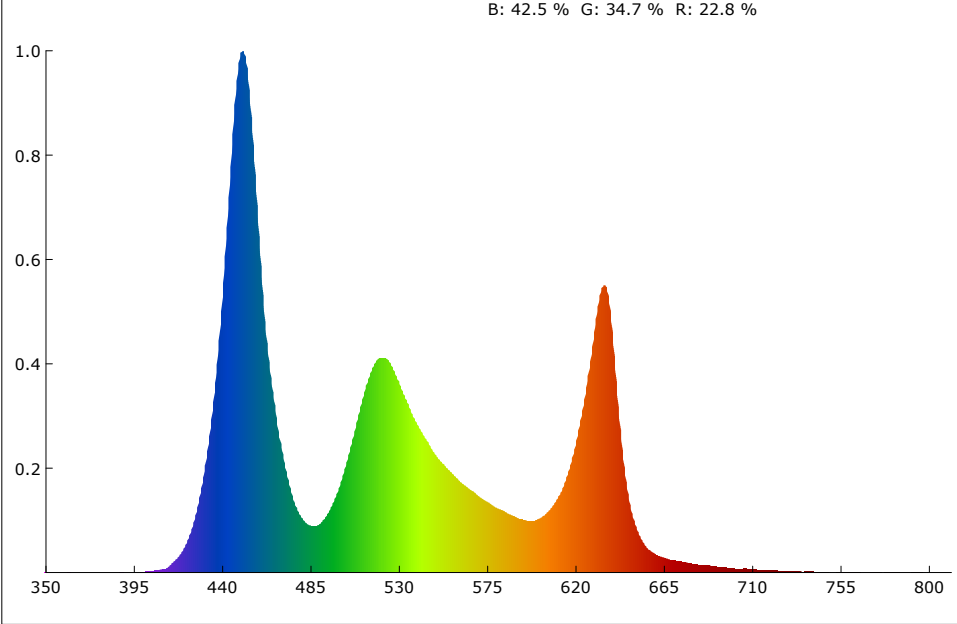
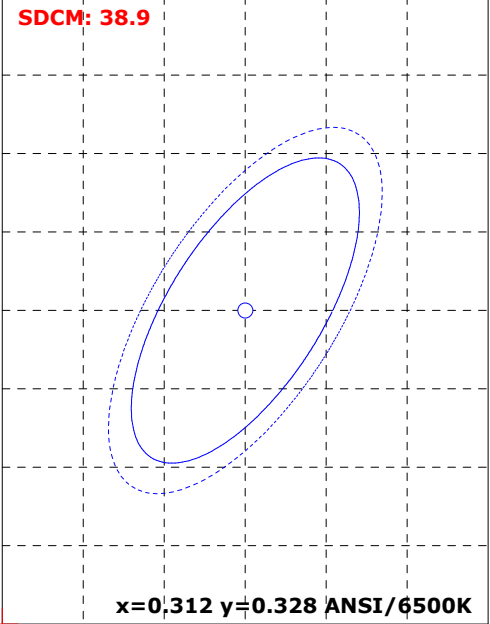


Spectrogram



SDCM



Color Parameter:

x: 0.2660 y: 0.2561 u: 0.1920 v: 0.2773 u': 0.1920 v': 0.4160
R_ratio: 22.8 % G_ratio: 34.7 % B_ratio: 42.5 % RedRatio: 16.6 % GreenRatio: 77.8 % BlueRatio: 5.6 %

Ra: 72.7 AvgR: 62.0
R1: 73.9 R2: 95.1 R3: 58.9 R4: 58.9 R5: 78.3 R6: 92.8 R7: 78.4 R8: 45.5
R9: -67.4 R10: 85.9 R11: 49.4 R12: 64.0 R13: 82.5 R14: 74.7 R15: 58.7

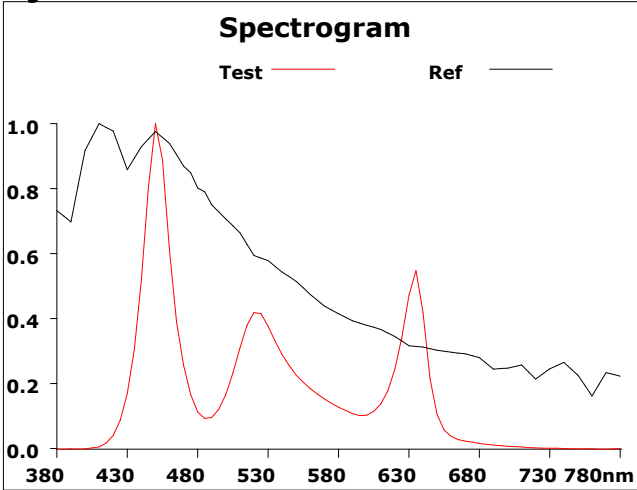
CCT: 17069 K Flux: 452.877 lm PeakWave: 450.6 nm SDCM: 38.9
S/P: 3.0 CentralWave: 450.8 nm DominantWave: 474.0 nm CentroidWave: 525.0 nm
HalfWidth: 21.6 nm duv: -0.00766 purity: 30.5 % CQS: 89.3
LER(TM-30): 248.1 Ep: 1825.1 mw Rg: 114.1 Rf: 75.1
Red Ep: 413.9 mw Near red Ep: 7.0 mw Near infrared Ep: 0.4 mw

Electrical parameters:

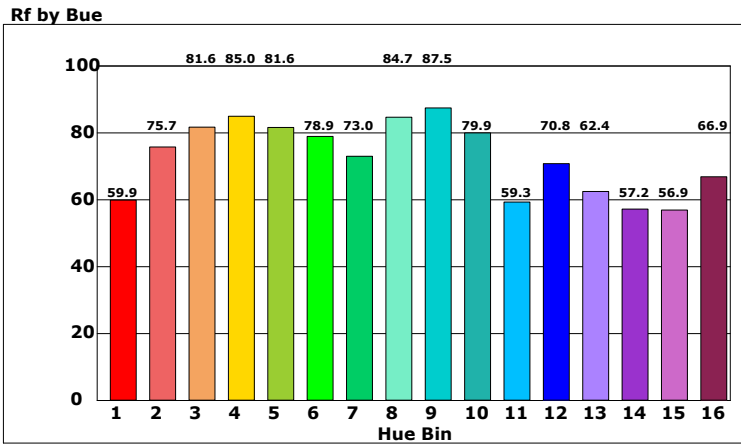
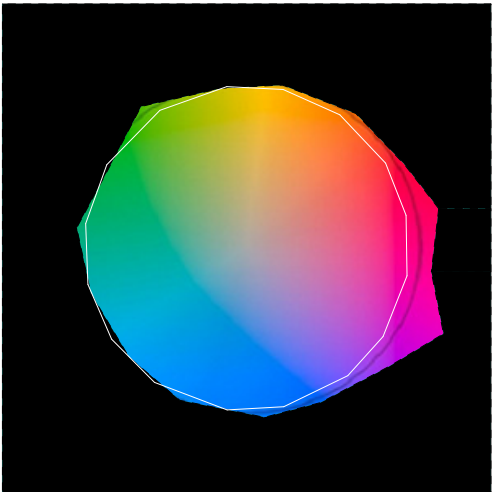
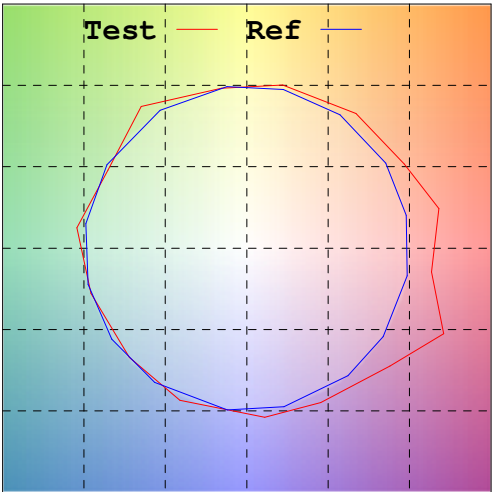
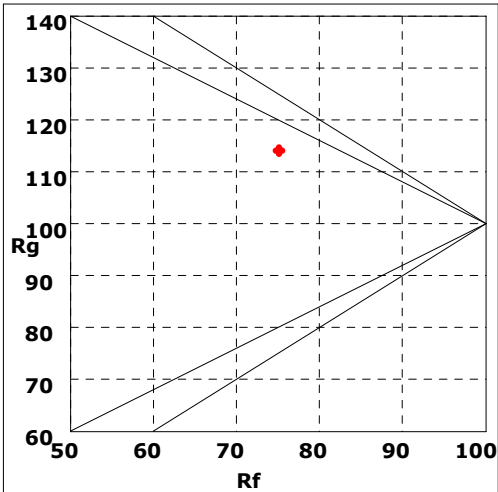
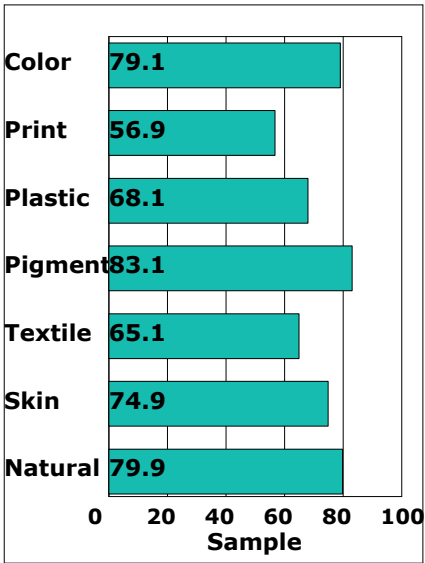
Effic: 13.7 lm/W Energy: 14.9 Effi: G
U: 220.8 V I: 0.263 A P: 33.170 W Pf: 0.569

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

Rf: 75.1 CCT: 17069K u': 0.1920
Rg: 114.1 LER: 248.1 Duv: -0.00766 v': 0.4160

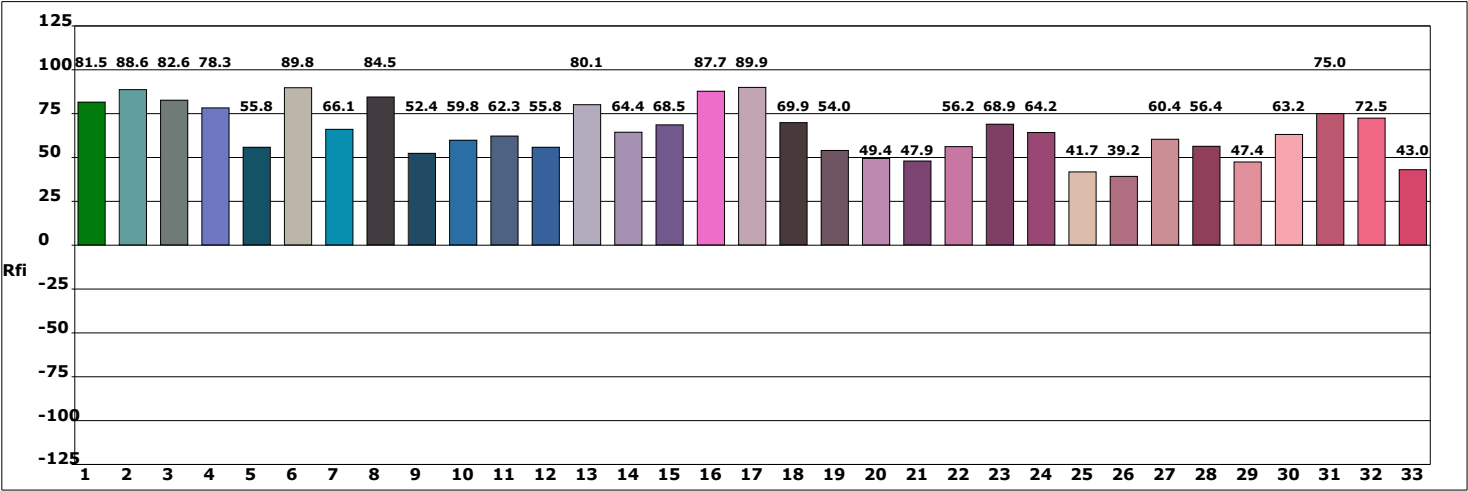
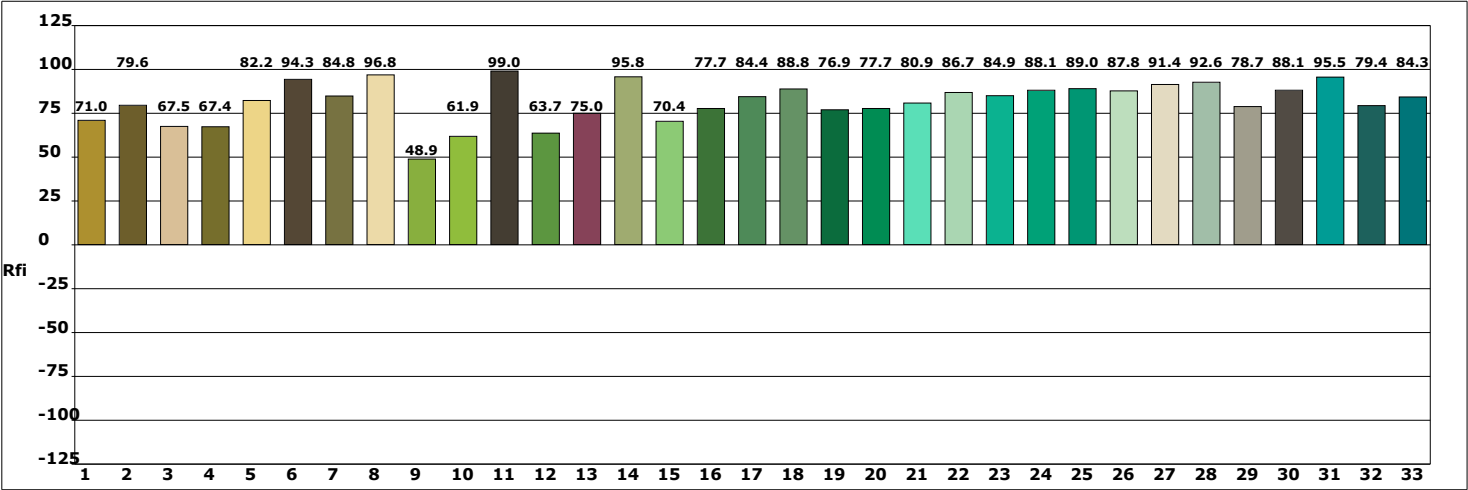
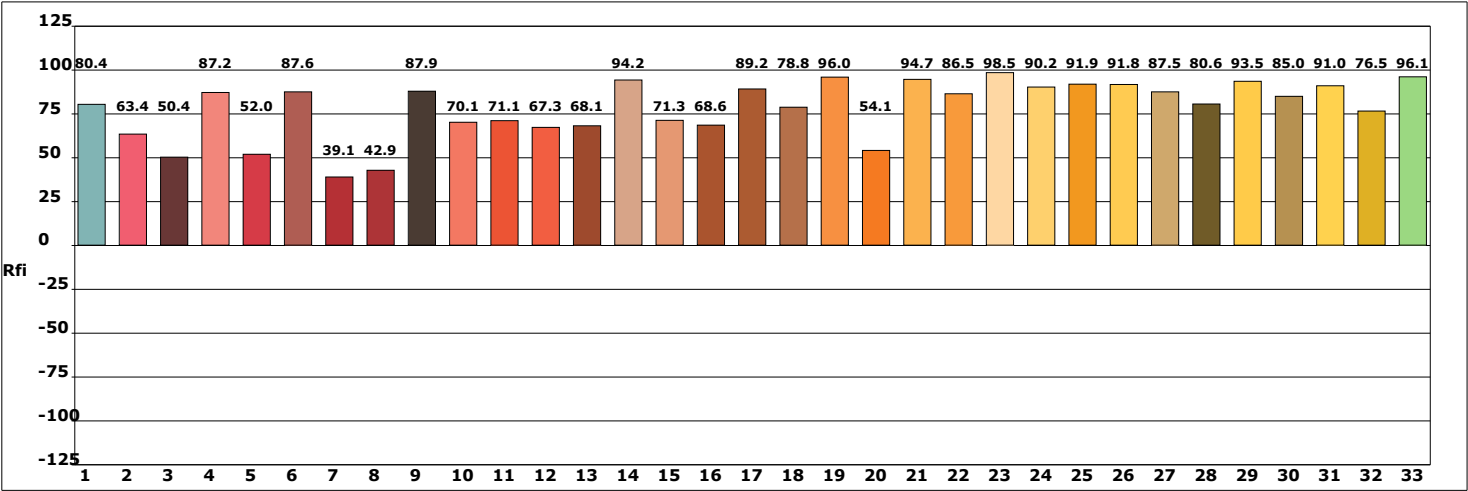


500			
Hue Bin	Rf	Chroma	Hue
1	59.9	20.5%	0.3%
2	75.7	9.3%	-6.9%
3	81.6	6.1%	-7.8%
4	85.0	2.5%	0.9%
5	81.6	-0.3%	3.3%
6	78.9	8.4%	8.4%
7	73.0	-2.4%	2.6%
8	84.7	4.8%	3.6%
9	87.5	-0.7%	5.7%
10	79.9	-2.7%	15.2%
11	59.3	0.5%	18.8%
12	70.8	0.0%	23.5%
13	62.4	2.0%	22.6%
14	57.2	9.5%	24.7%
15	56.9	29.8%	22.2%
16	66.9	14.3%	5.2%



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