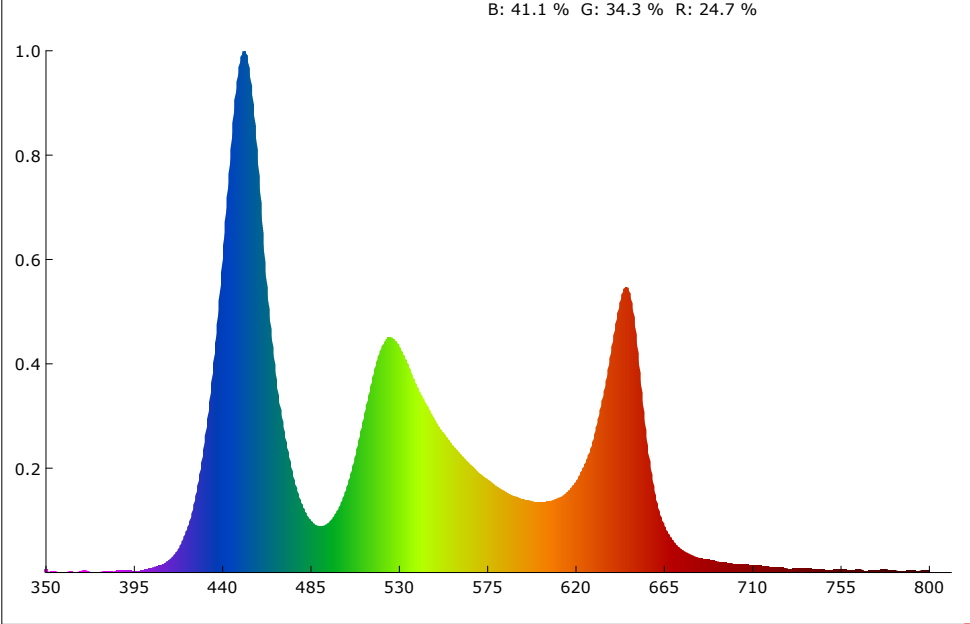
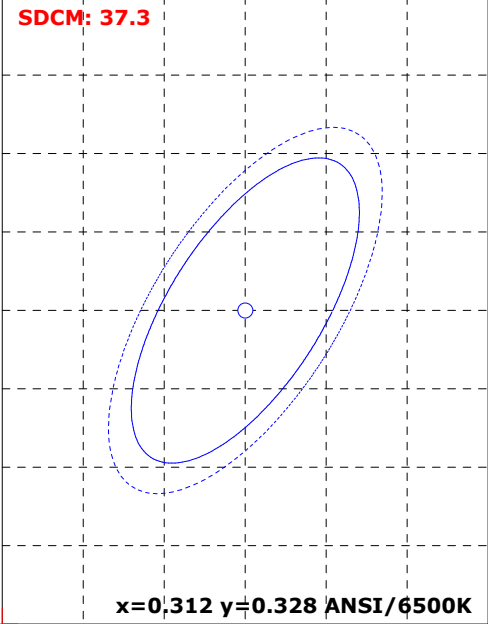


Spectrogram



SDCM



Color Parameter:

x: 0.2656 y: 0.2611 u: 0.1896 v: 0.2797 u': 0.1896 v': 0.4196
R_ratio: 24.7 % G_ratio: 34.3 % B_ratio: 41.1 % RedRatio: 14.2 % GreenRatio: 80.2 % BlueRatio: 5.6 %

Ra: 77.4 AvgR: 67.8
R1: 85.6 R2: 91.0 R3: 58.8 R4: 75.4 R5: 93.8 R6: 83.4 R7: 77.4 R8: 54.2
R9: -32.1 R10: 69.9 R11: 70.4 R12: 53.6 R13: 91.4 R14: 75.5 R15: 69.3

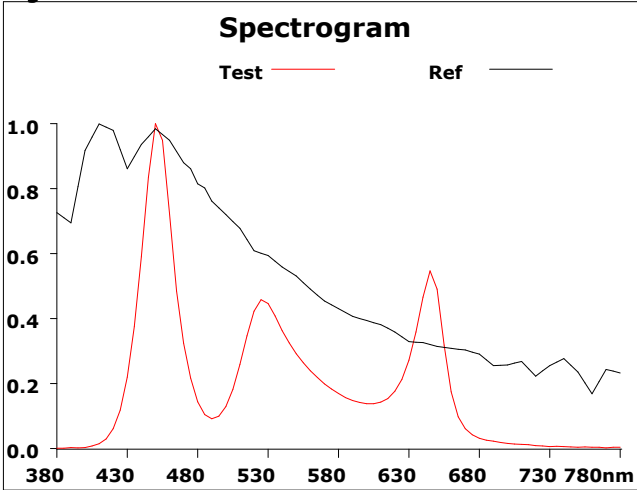
CCT: 15844 K Flux: 1179.587 lm PeakWave: 451.6 nm SDCM: 37.3
S/P: 2.8 CentralWave: 451.4 nm DominantWave: 475.7 nm CentroidWave: 532.0 nm
HalfWidth: 25.7 nm duv: -0.00459 purity: 29.9 % CQS: 86.5
LER(TM-30): 240.9 Ep: 4896.4 mw Rg: 109.8 Rf: 74.6
Red Ep: 1192.0 mw Near red Ep: 45.8 mw Near infrared Ep: 6.2 mw

Electrical parameters:

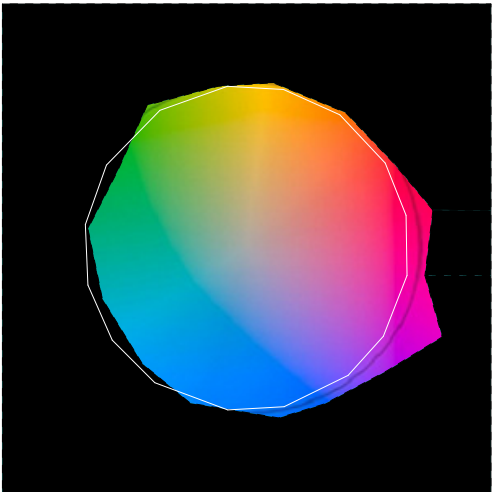
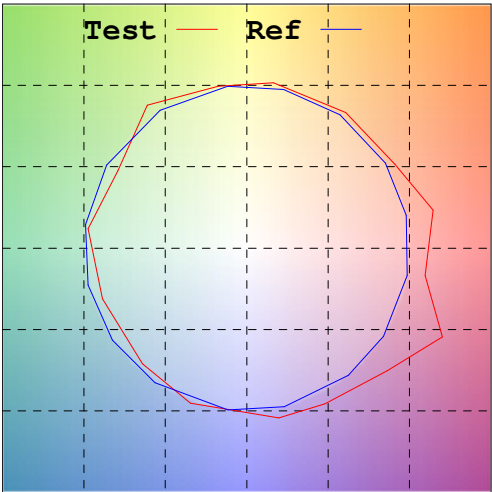
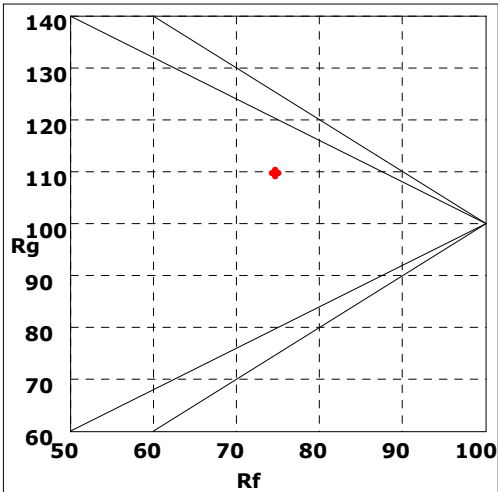
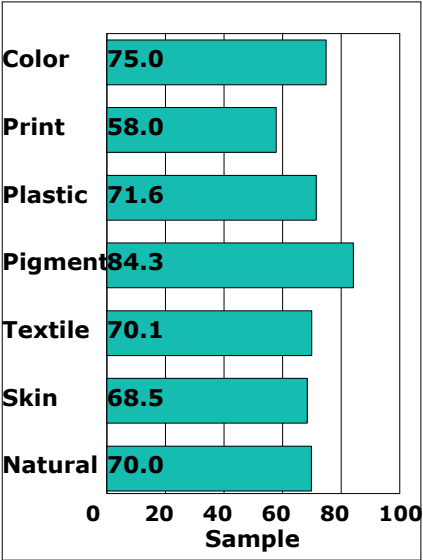
Effic: 9.5 Lm/W Energy: 10.3 Effi: G
U: 219.6 V I: 0.855 A P: 124.800 W Pf: 0.664

Product model: Manufacturer: Guangzhou Hotion Technology Co.,
Product number: Test unit:
Tester: Date of observation: 03/17/14
Remarks:

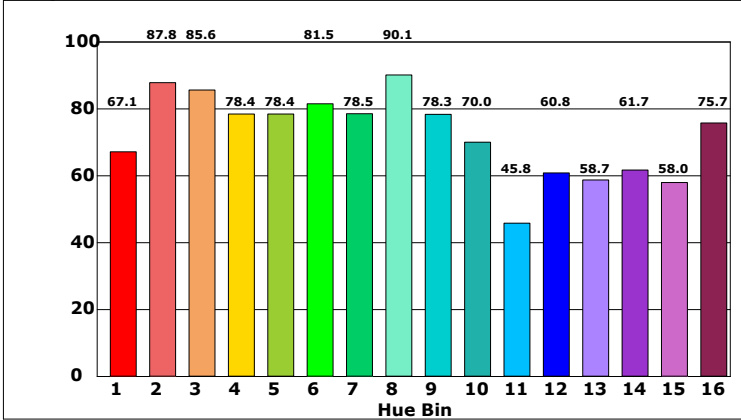
Rf: 74.6 CCT: 15844K u': 0.1896
Rg: 109.8 LER: 240.9 Duv: -0.00459 v': 0.4196



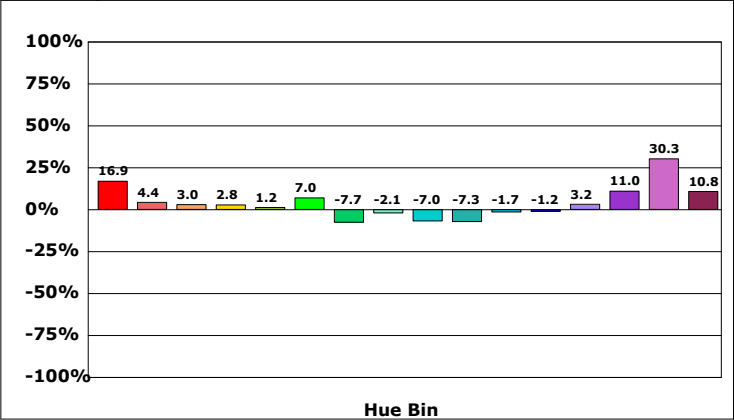
500			
Hue Bin	Rf	Chroma	Hue
1	67.1	16.9%	-0.2%
2	87.8	4.4%	-3.7%
3	85.6	3.0%	-2.2%
4	78.4	2.8%	6.9%
5	78.4	1.2%	5.7%
6	81.5	7.0%	4.9%
7	78.5	-7.7%	-0.8%
8	90.1	-2.1%	2.3%
9	78.3	-7.0%	10.0%
10	70.0	-7.3%	22.5%
11	45.8	-1.7%	25.0%
12	60.8	-1.2%	31.6%
13	58.7	3.2%	24.9%
14	61.7	11.0%	21.3%
15	58.0	30.3%	19.7%
16	75.7	10.8%	2.1%



Rf by Bue

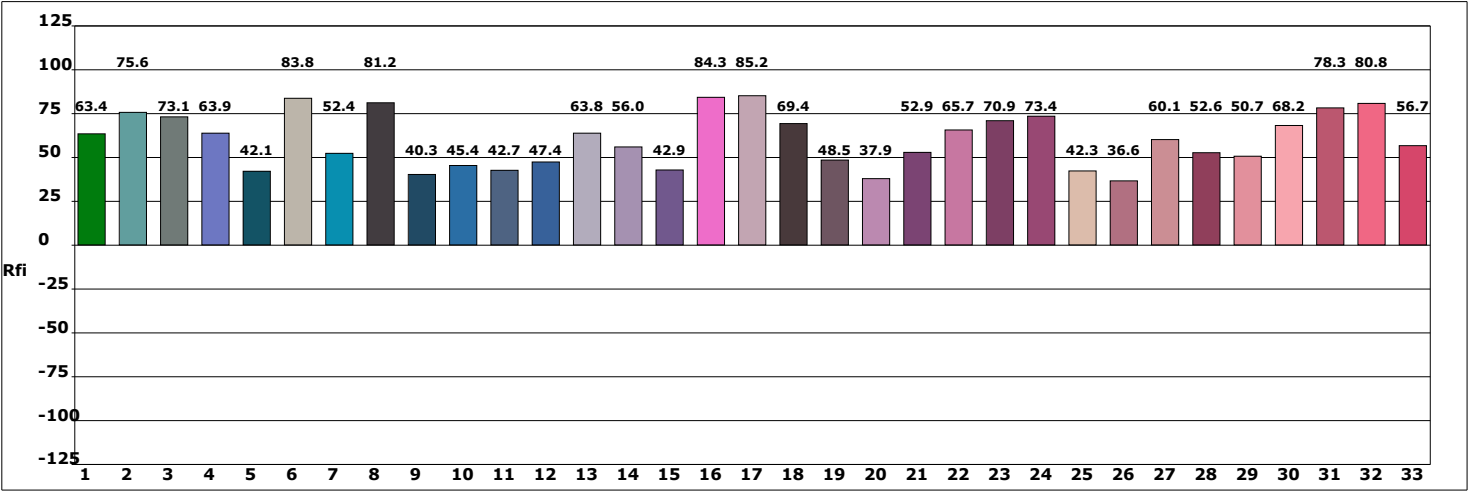
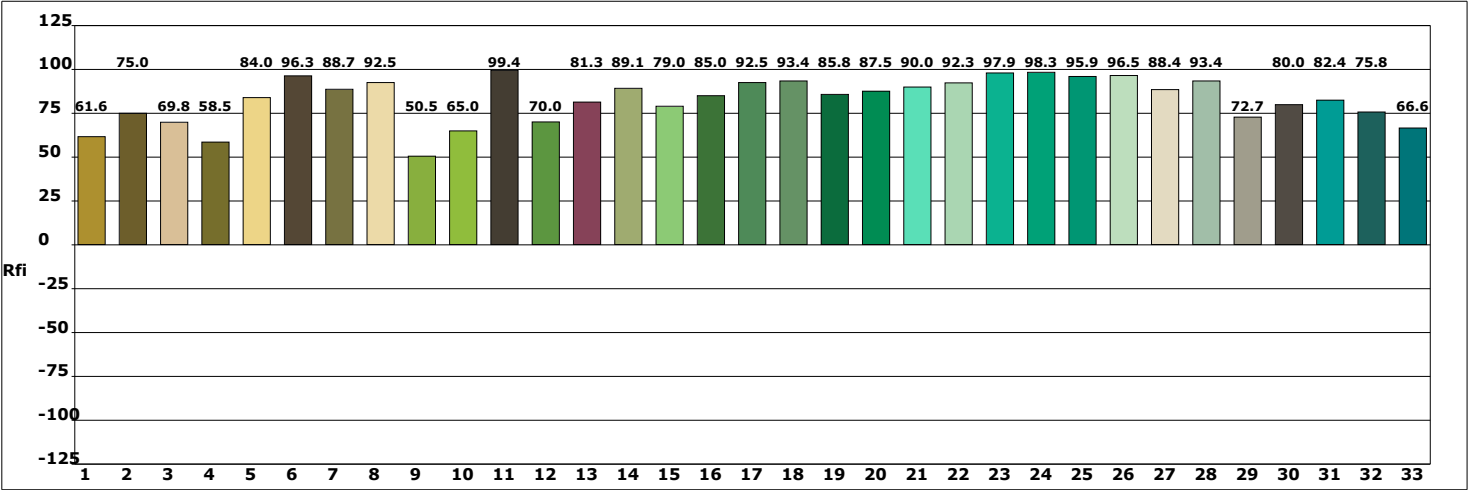
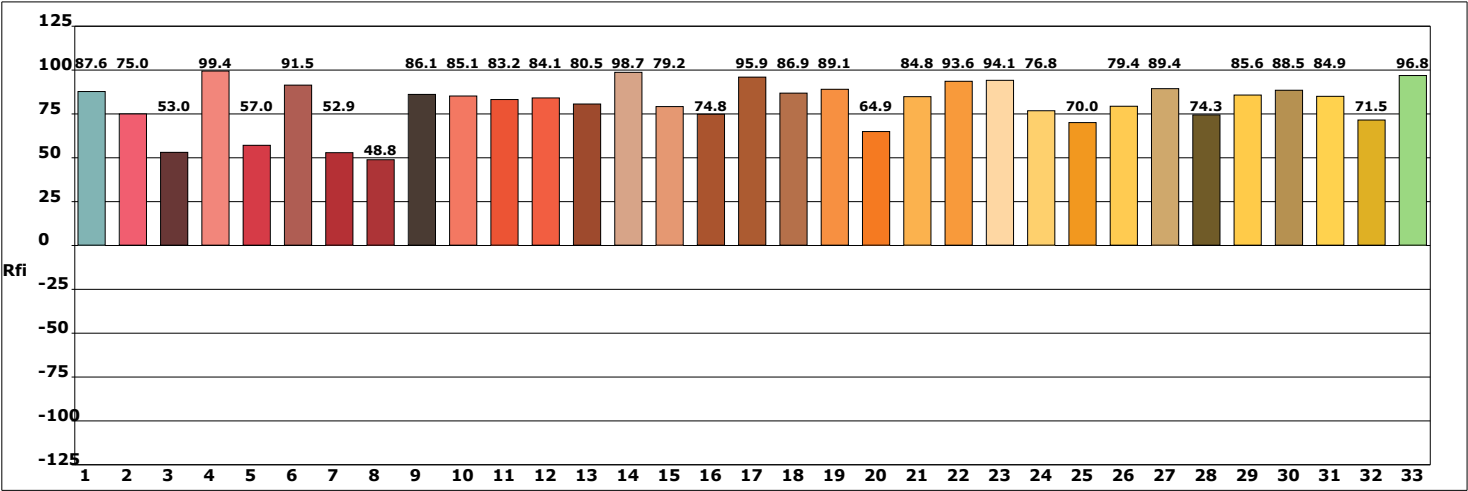


Chroma by Bue



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 03/17/14



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 03/17/14