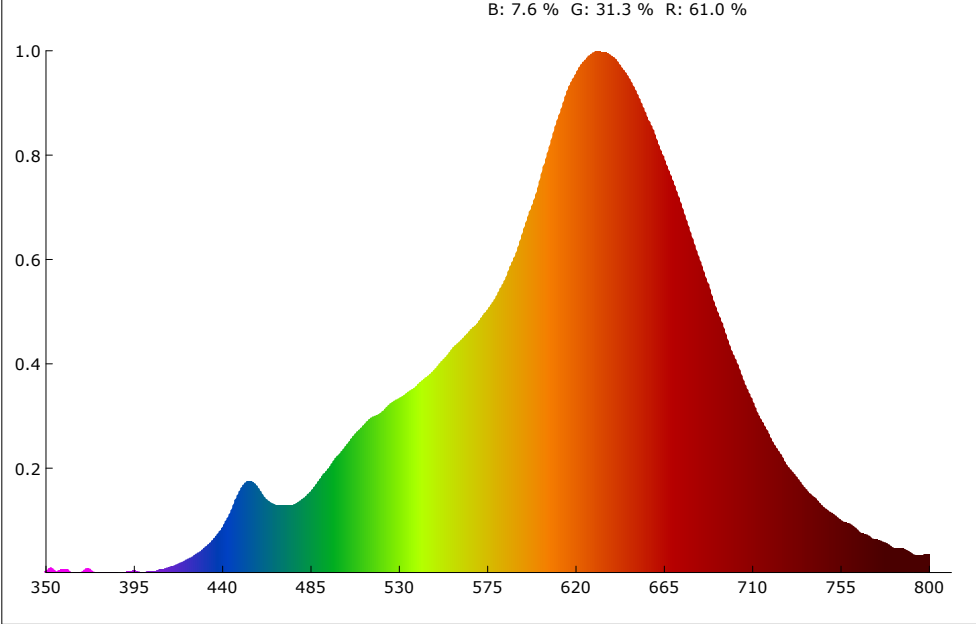
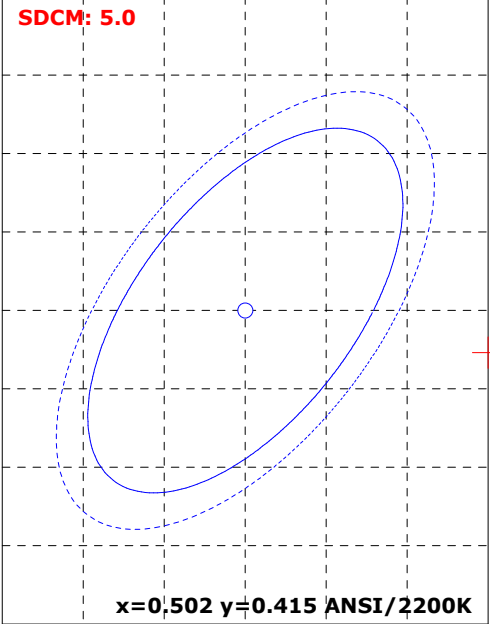


Spectrogram



SDCM



Color Parameter:

x: 0.4922 y: 0.4074 u: 0.2852 v: 0.3540 u': 0.2852 v': 0.5310
R_ratio: 61.0 % G_ratio: 31.3 % B_ratio: 7.6 % RedRatio: 31.1 % GreenRatio: 67.6 % BlueRatio: 1.3 %

Ra: 94.7 AvgR: 93.7
R1: 97.2 R2: 96.8 R3: 98.3 R4: 95.4 R5: 95.0 R6: 90.1 R7: 93.5 R8: 91.8
R9: 85.3 R10: 93.8 R11: 89.8 R12: 85.1 R13: 96.4 R14: 98.8 R15: 97.9

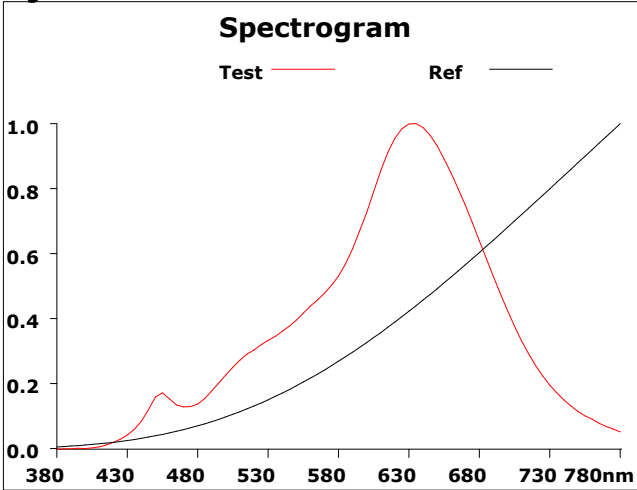
CCT: 2281 K Flux: 11968.635 lm PeakWave: 630.5 nm SDCM: 5.0
S/P: 1.1 CentralWave: 633.3 nm DominantWave: 587.5 nm CentroidWave: 617.0 nm
HalfWidth: 116.8 nm duv: -0.00257 purity: 70.0 % CQS: 84.2
LER(TM-30): 240.8 Ep: 49703.3 mw Rg: 103.0 Rf: 94.1
Red Ep: 27213.2 mw Near red Ep: 4779.4 mw Near infrared Ep: 292.2 mw

Electrical parameters:

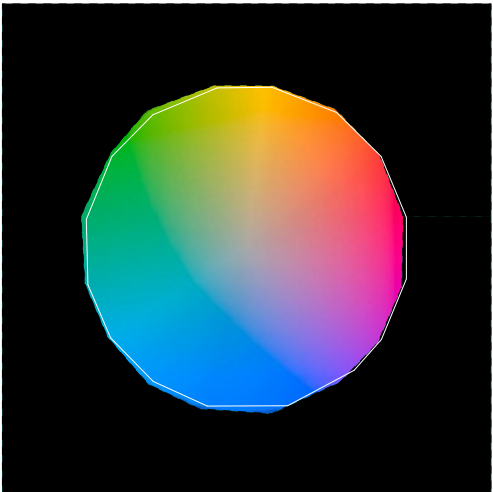
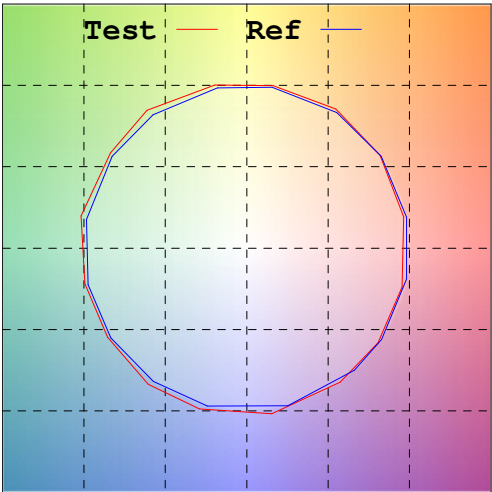
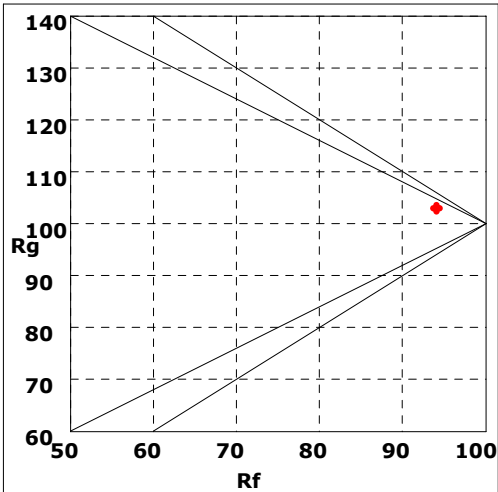
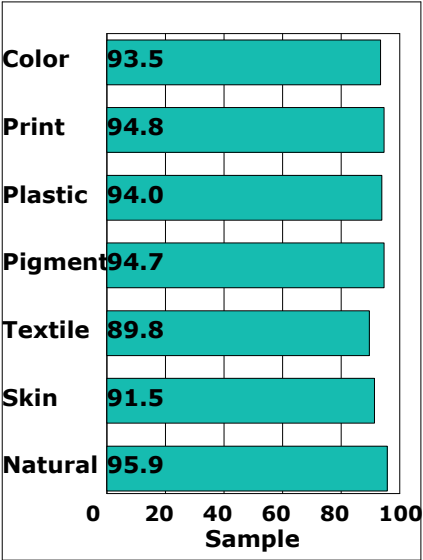
Effic: 32.1 lm/W Energy: 35.0 Effi: G
U: 220.7 V I: 1.707 A P: 372.600 W Pf: 0.988

Product model: Manufacturer: Guangzhou Hotion Technology Co.,
Product number: Test unit:
Tester: Date of observation: 07/16/14
Remarks:

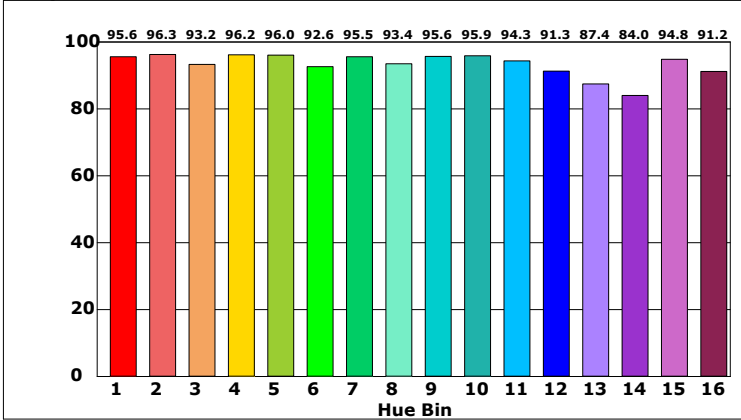
Rf: 94.1 CCT: 2281K u': 0.2852
Rg: 103.0 LER: 240.8 Duv: -0.00257 v': 0.5310



500			
Hue Bin	Rf	Chroma	Hue
1	95.6	-1.7%	0.5%
2	96.3	-0.1%	1.0%
3	93.2	1.5%	1.7%
4	96.2	1.2%	-0.5%
5	96.0	2.1%	1.0%
6	92.6	4.4%	1.6%
7	95.5	2.0%	-1.2%
8	93.4	3.7%	-1.6%
9	95.6	1.9%	-0.8%
10	95.9	1.5%	-1.5%
11	94.3	3.1%	-1.6%
12	91.3	2.7%	-4.5%
13	87.4	3.0%	-10.6%
14	84.0	1.2%	-11.3%
15	94.8	-0.6%	-3.0%
16	91.2	-1.8%	-5.3%



Rf by Bue

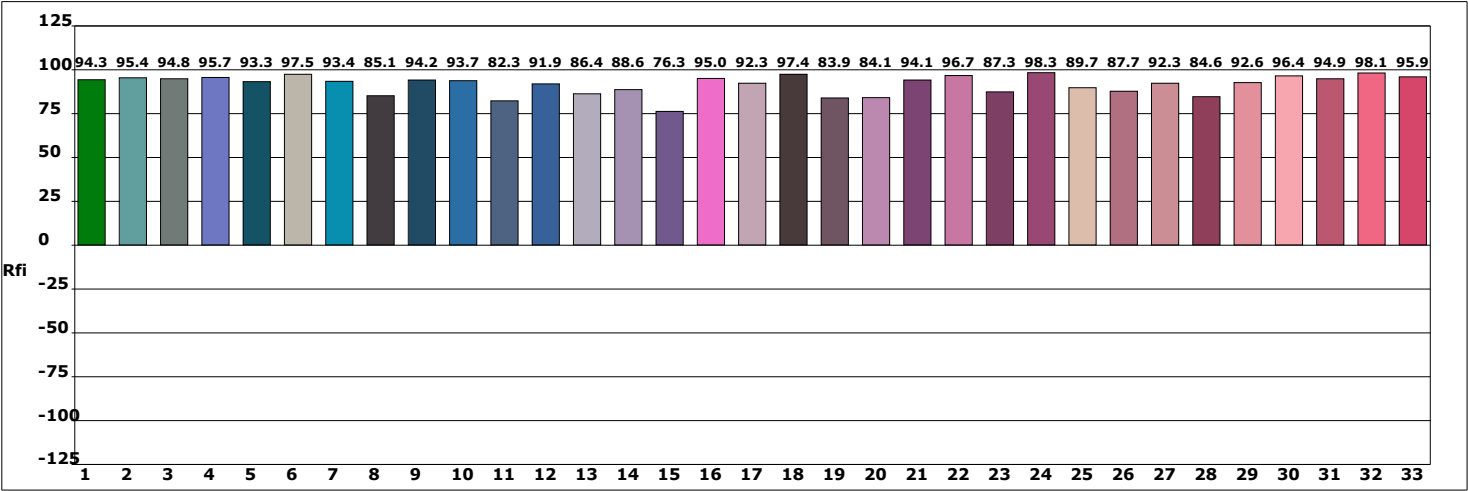
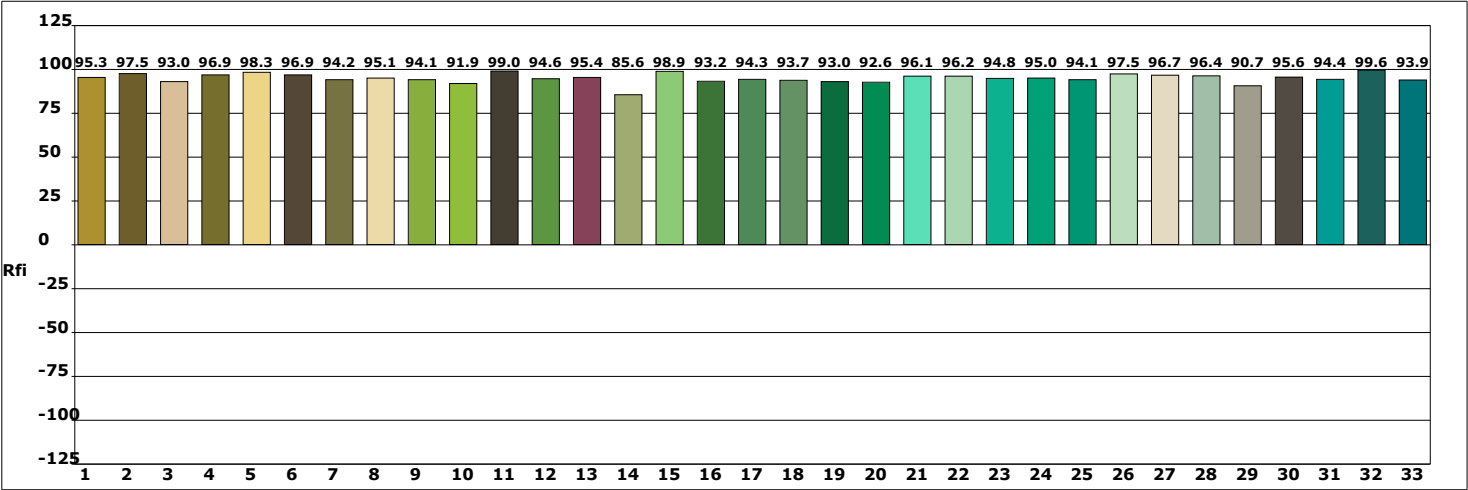
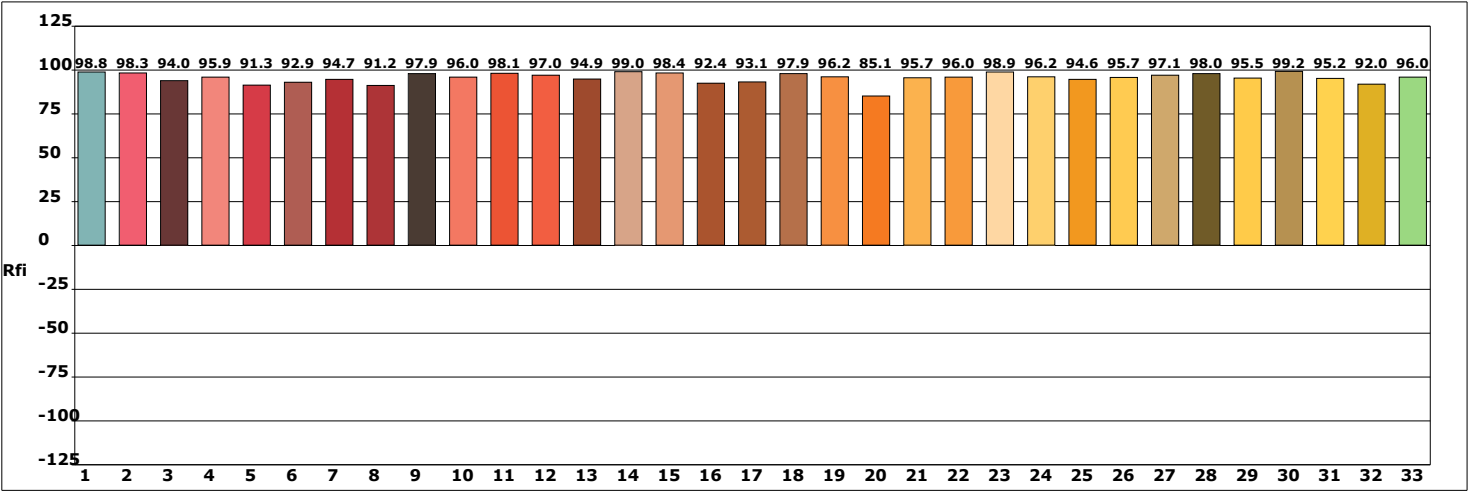


Chroma by Bue



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/16/14



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/16/14