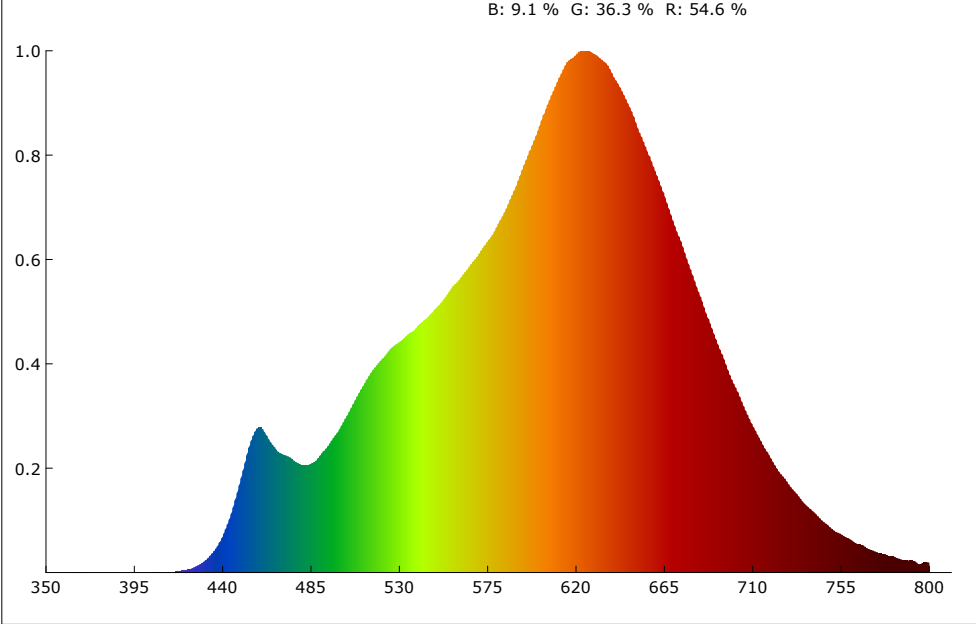
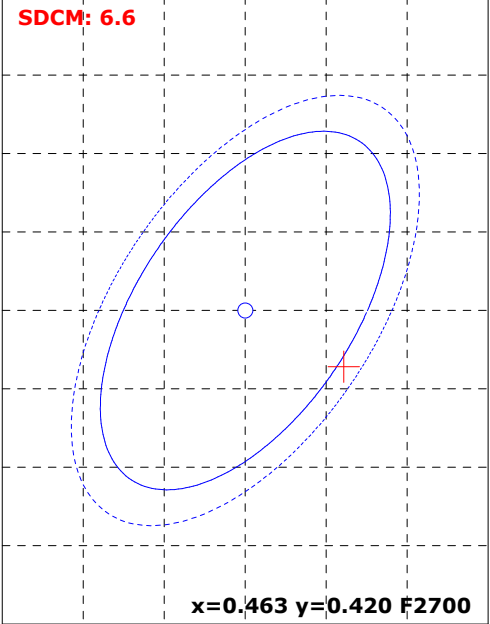


Spectrogram



SDCM



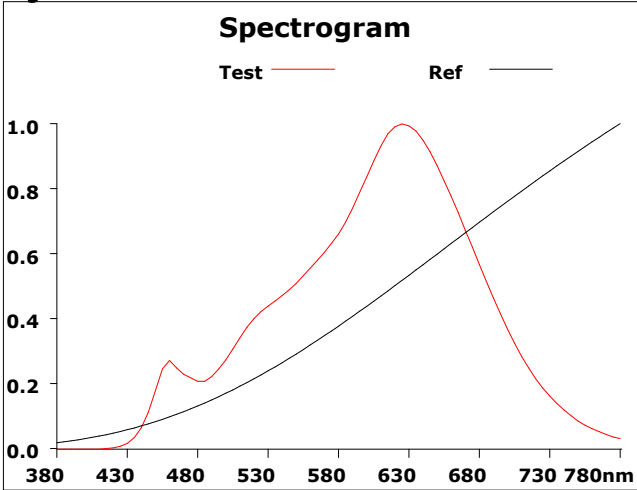
Color Parameter:

x: 0.4711	y: 0.4164	u: 0.2671	v: 0.3542	u': 0.2671	v': 0.5313
R_ratio: 54.6 %	G_ratio: 36.3 %	B_ratio: 9.1 %	RedRatio: 27.0 %	GreenRatio: 71.4 %	BlueRatio: 1.6 %
Ra: 95.3	AvgR: 93.5				
R1: 96.8	R2: 99.1	R3: 99.3	R4: 96.0	R5: 96.5	R6: 96.9
R7: 92.4	R8: 85.4	R9: 69.5	R10: 97.0	R11: 98.5	R12: 86.3
R13: 97.7	R14: 98.8	R15: 91.9			
CCT: 2594 K	Flux: 1398.891 lm	PeakWave: 625.6 nm	SDCM: 6.6		
S/P: 1.2	CentralWave: 616.8 nm	DominantWave: 584.4 nm	CentroidWave: 606.5 nm		
HalfWidth: 137.5 nm	duv: 0.00132	purity: 66.4 %	CQS: 85.3		
LER(TM-30): 272.3	Ep: 5138.0 mw	Rg: 96.3	Rf: 90.1		
Red Ep: 2588.3 mw	Near red Ep: 379.8 mw	Near infrared Ep: 16.5 mw			

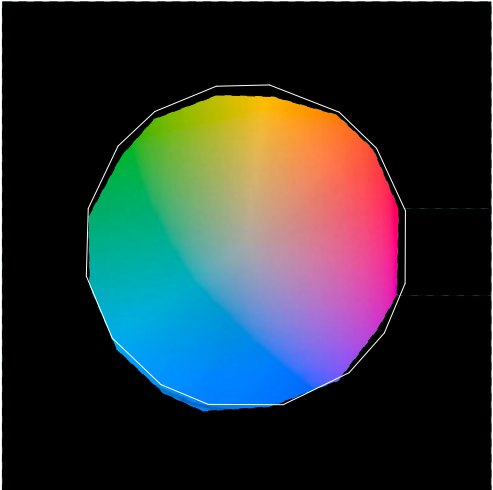
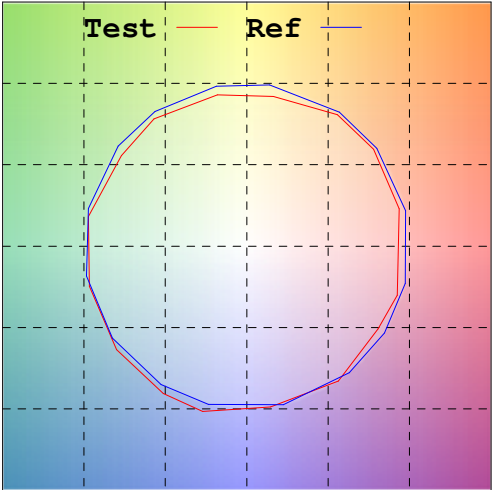
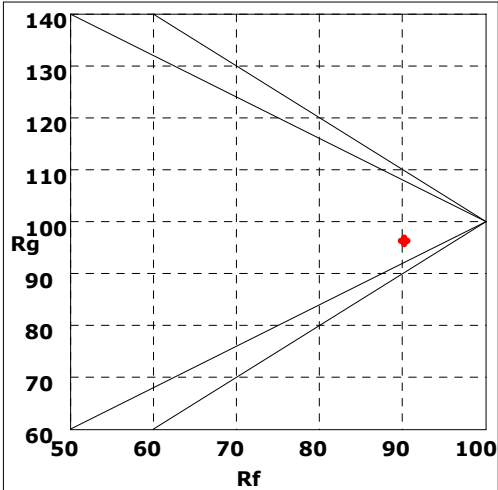
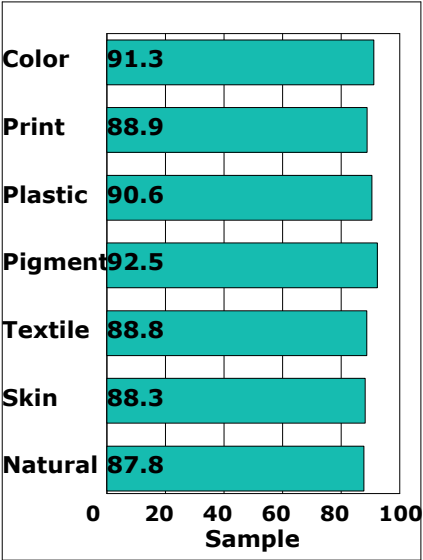
Electrical parameters:

Effic: 15.4 Lm/W	Energy: 16.7	Effi: G	
U: 219.6 V	I: 0.649 A	P: 90.960 W	Pf: 0.638

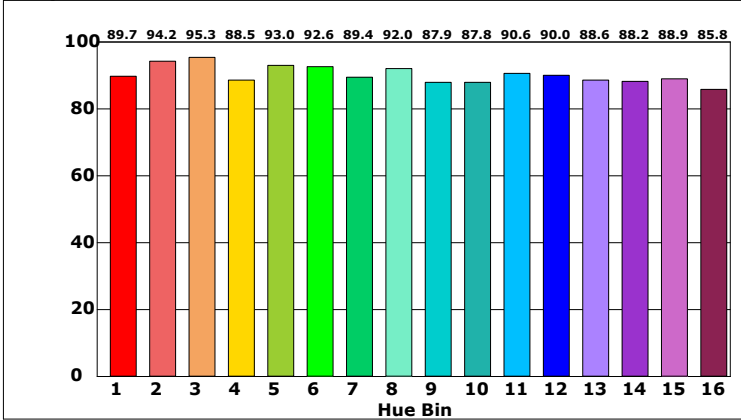
Rf: 90.1 CCT: 2594K u': 0.2671
Rg: 96.3 LER: 272.3 Duv: 0.00132 v': 0.5313



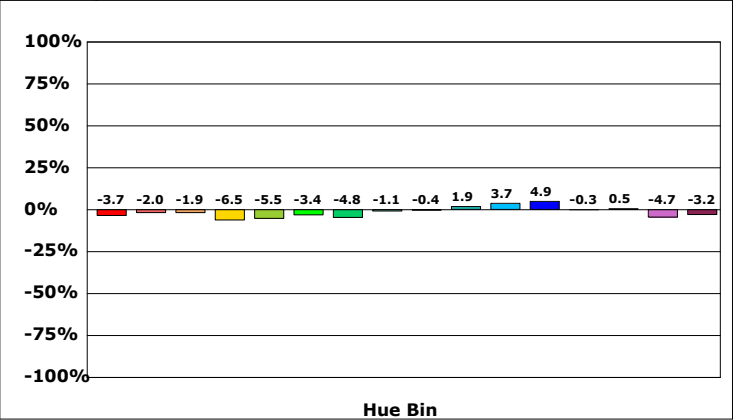
500			
Hue Bin	Rf	Chroma	Hue
1	89.7	-3.7%	1.9%
2	94.2	-2.0%	0.7%
3	95.3	-1.9%	-0.0%
4	88.5	-6.5%	-3.6%
5	93.0	-5.5%	0.4%
6	92.6	-3.4%	3.1%
7	89.4	-4.8%	3.7%
8	92.0	-1.1%	4.7%
9	87.9	-0.4%	6.5%
10	87.8	1.9%	7.2%
11	90.6	3.7%	4.4%
12	90.0	4.9%	-2.8%
13	88.6	-0.3%	-8.0%
14	88.2	0.5%	-8.4%
15	88.9	-4.7%	-0.2%
16	85.8	-3.2%	-8.1%



Rf by Bue

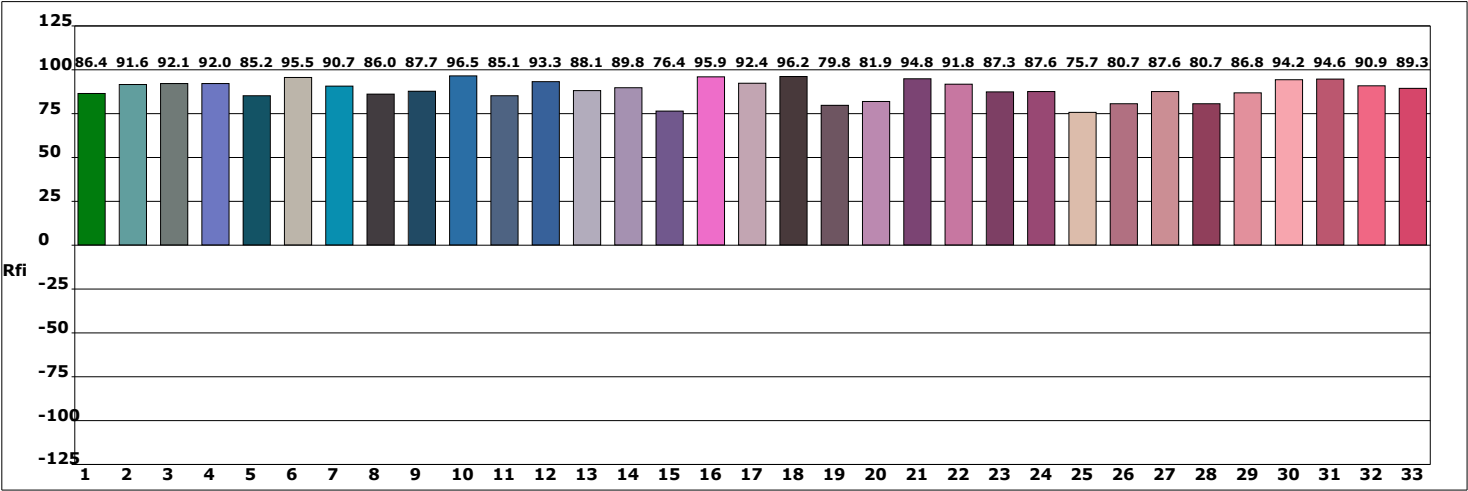
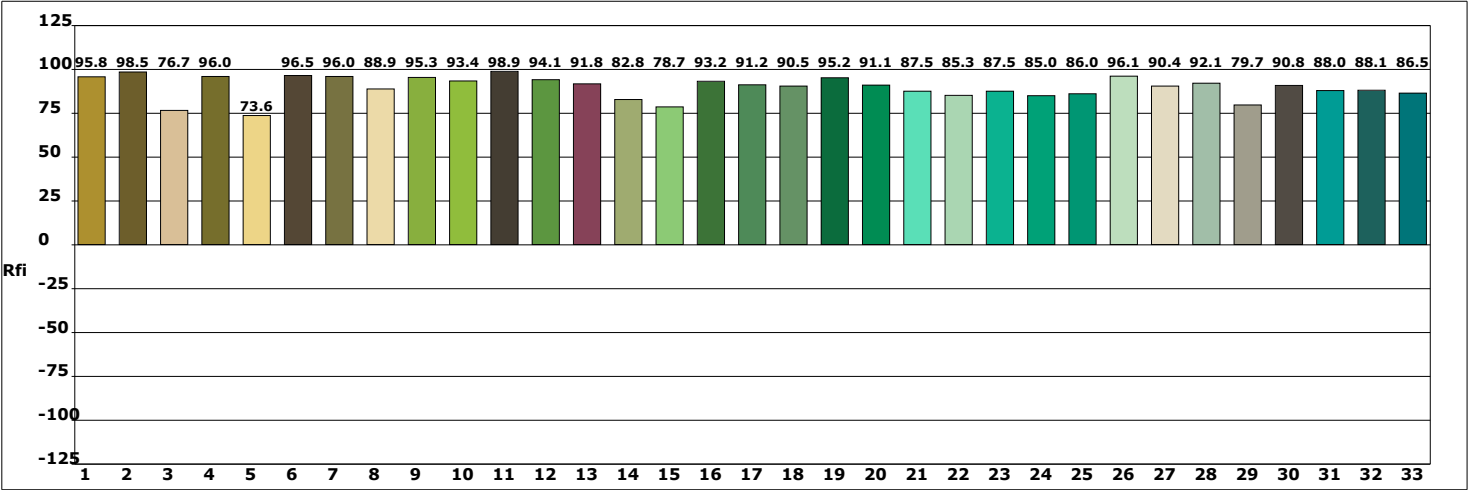
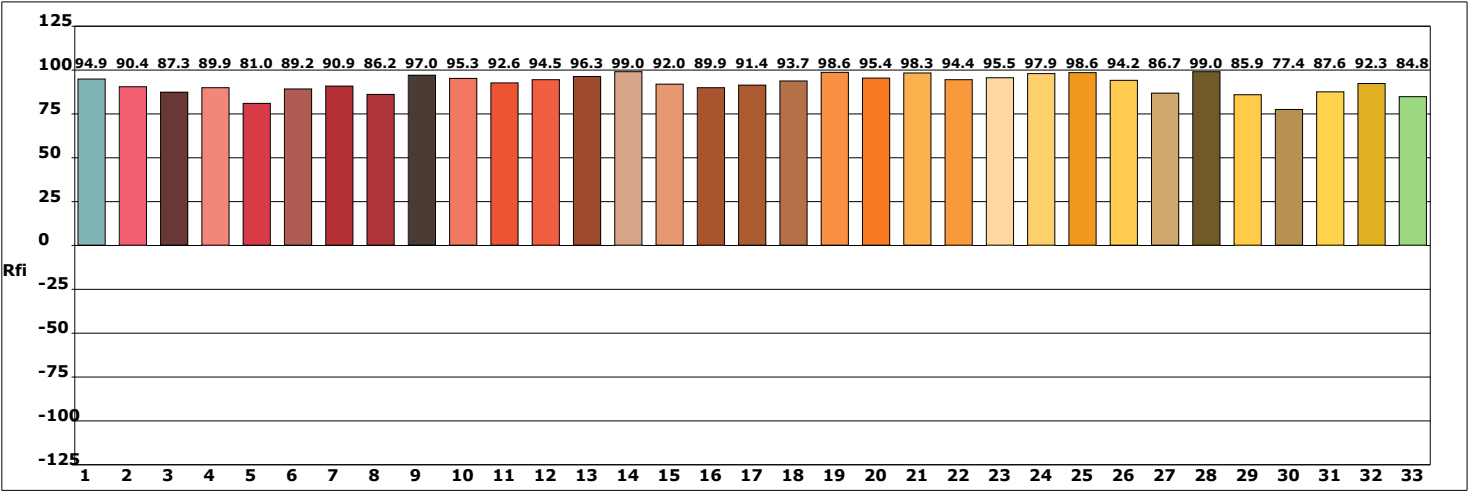


Chroma by Bue

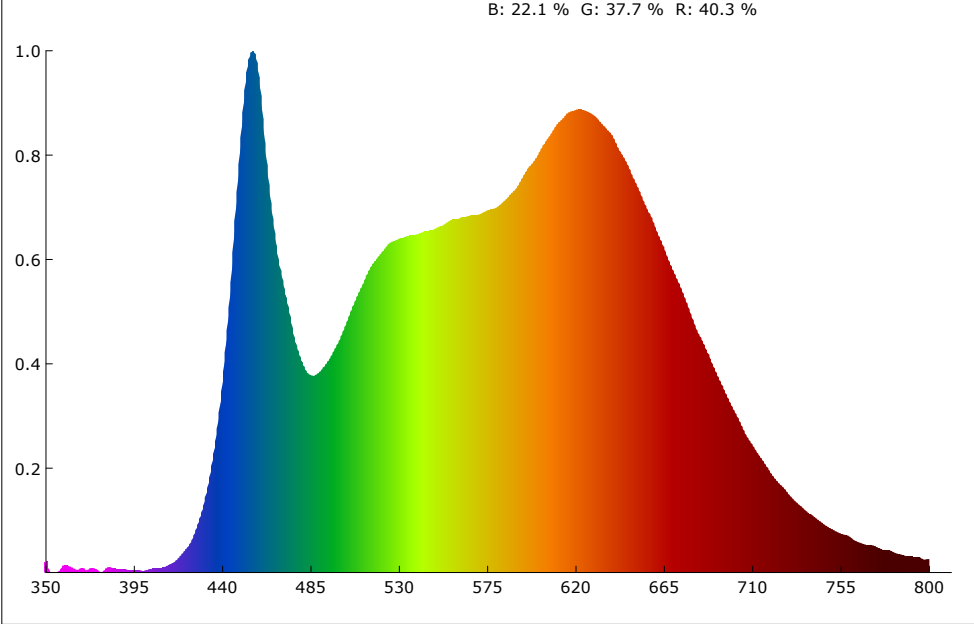


Product model:
Product number:
Tester:
Remarks:

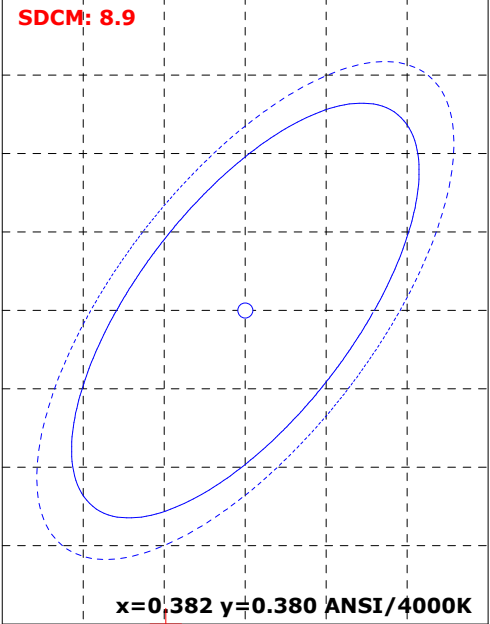
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 04/30/14



Spectrogram



SDCM



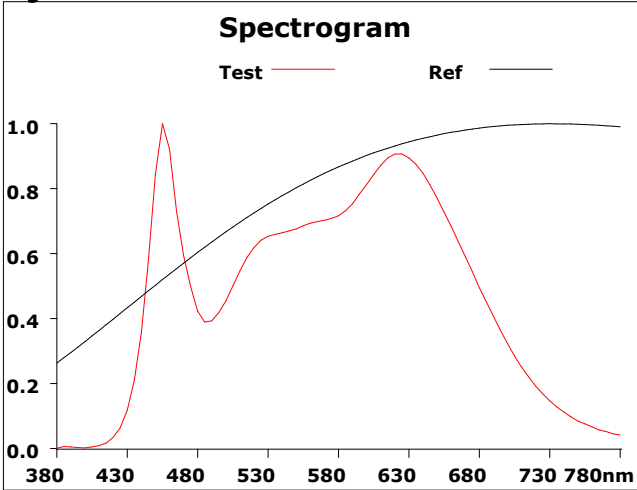
Color Parameter:

x: 0.3769	y: 0.3587	u: 0.2301	v: 0.3286	u': 0.2301	v': 0.4929		
R_ratio: 40.3 %	G_ratio: 37.7 %	B_ratio: 22.1 %	RedRatio: 20.9 %	GreenRatio: 75.7 %	BlueRatio: 3.4 %		
Ra: 96.2		AvgR: 94.8					
R1: 94.8	R2: 95.9	R3: 97.7	R4: 98.5	R5: 95.8	R6: 93.1	R7: 96.4	R8: 97.7
R9: 96.2	R10: 94.9	R11: 96.2	R12: 77.5	R13: 94.6	R14: 98.1	R15: 94.3	
CCT: 3960 K		Flux: 1584.308 lm	PeakWave: 455.4 nm	SDCM: 8.9			
S/P: 1.8		CentralWave: 459.0 nm	DominantWave: 584.8 nm	CentroidWave: 578.6 nm			
HalfWidth: 30.6 nm		duv: -0.00760	purity: 20.7 %	CQS: 85.9			
LER(TM-30): 268.9		Ep: 5891.2 mw	Rg: 101.3	Rf: 91.2			
Red Ep: 2222.5 mw		Near red Ep: 337.9 mw	Near infrared Ep: 21.8 mw				

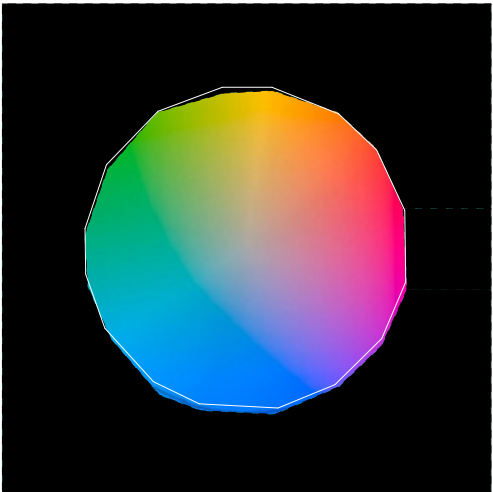
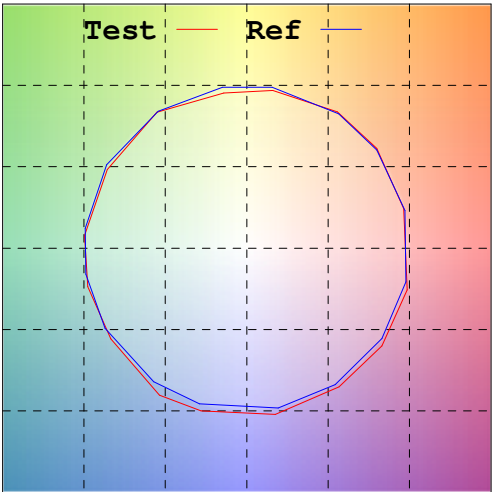
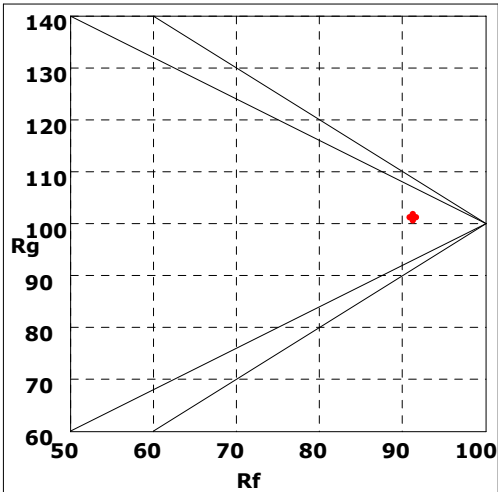
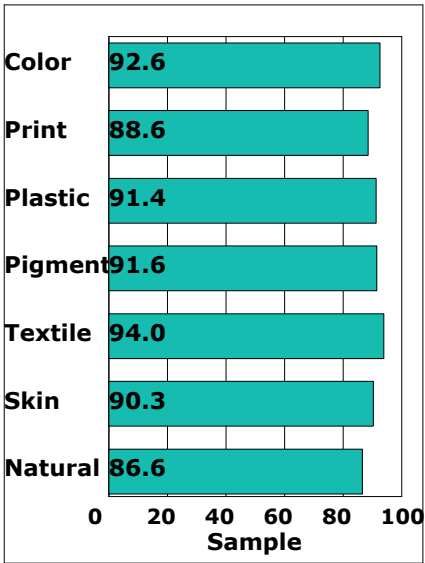
Electrical parameters:

Effic: 17.2 Lm/W	Energy: 18.8	Effi: G	
U: 219.6 V	I: 0.654 A	P: 91.910 W	Pf: 0.639

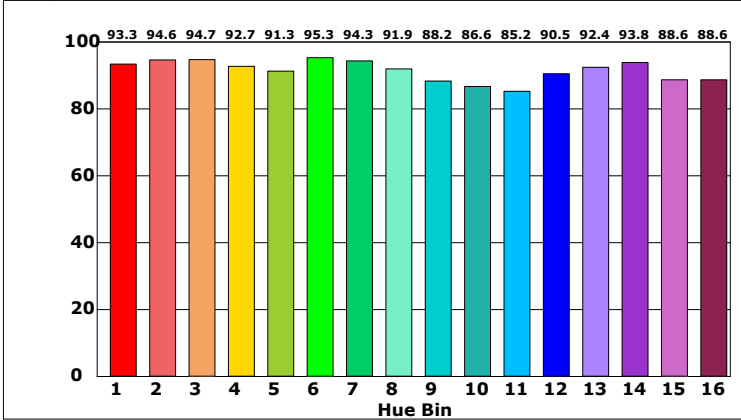
Rf: 91.2 CCT: 3960K u': 0.2301
Rg: 101.3 LER: 268.9 Duv: -0.00760 v': 0.4929



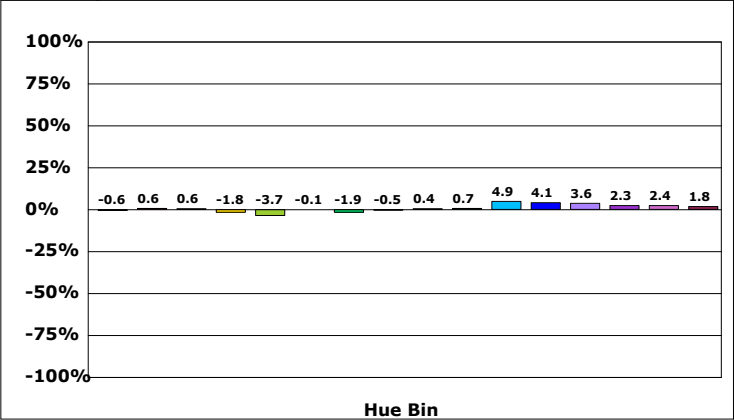
500			
Hue Bin	Rf	Chroma	Hue
1	93.3	-0.6%	1.2%
2	94.6	0.6%	0.8%
3	94.7	0.6%	1.2%
4	92.7	-1.8%	-0.7%
5	91.3	-3.7%	-0.1%
6	95.3	-0.1%	1.0%
7	94.3	-1.9%	2.2%
8	91.9	-0.5%	4.3%
9	88.2	0.4%	7.9%
10	86.6	0.7%	7.5%
11	85.2	4.9%	7.7%
12	90.5	4.1%	1.8%
13	92.4	3.6%	-2.6%
14	93.8	2.3%	1.1%
15	88.6	2.4%	-3.8%
16	88.6	1.8%	-4.5%



Rf by Bue

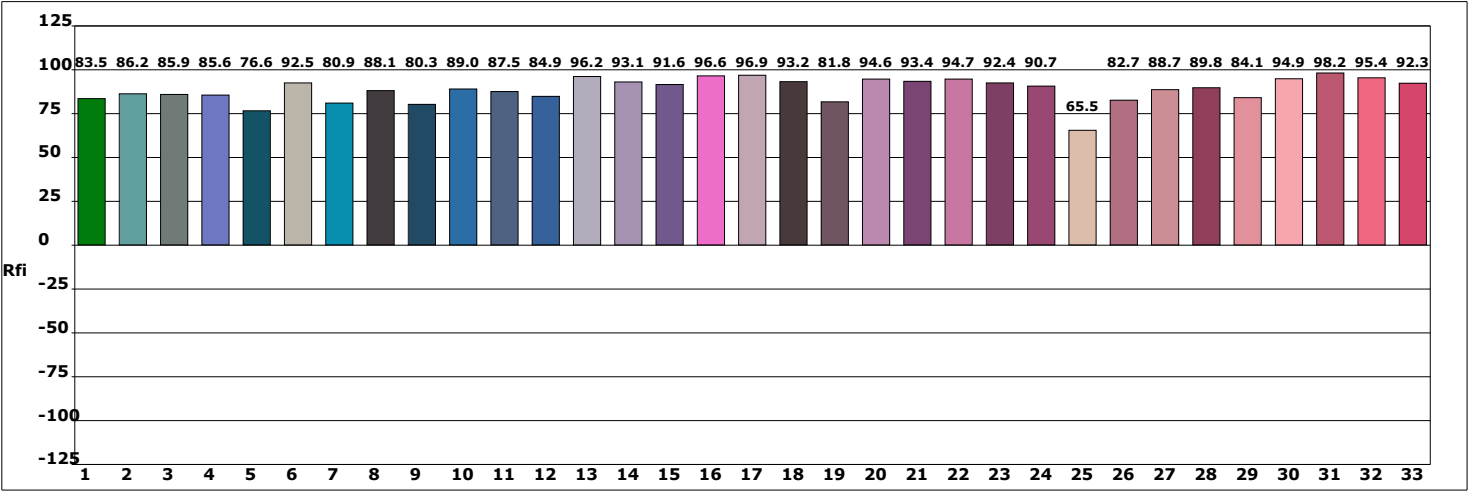
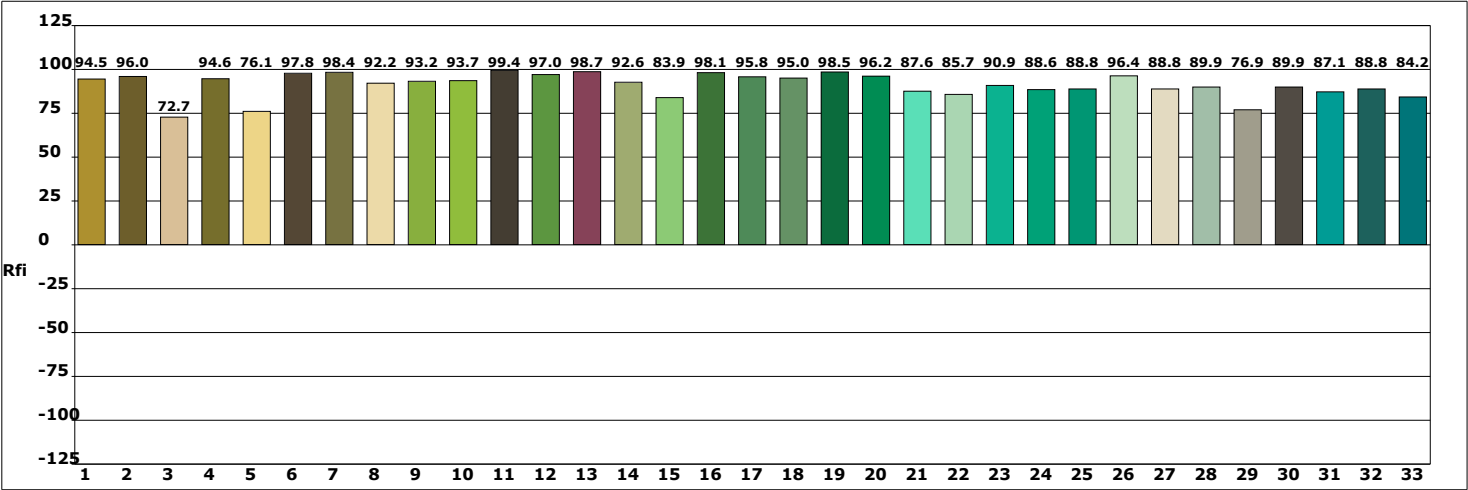
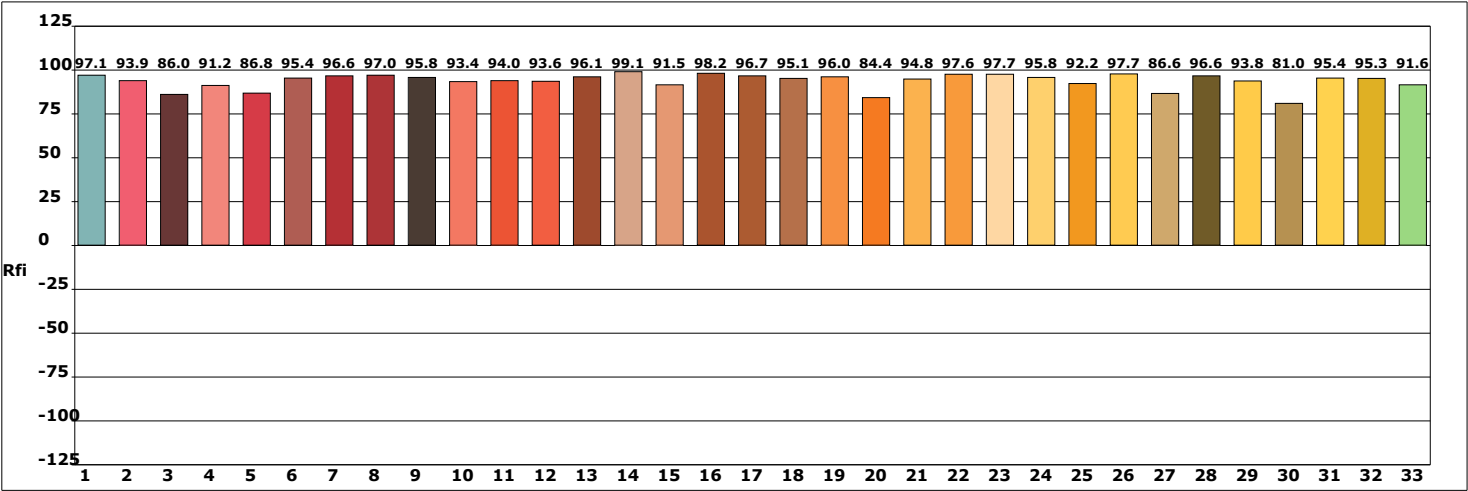


Chroma by Bue



Product model:
Product number:
Tester:
Remarks:

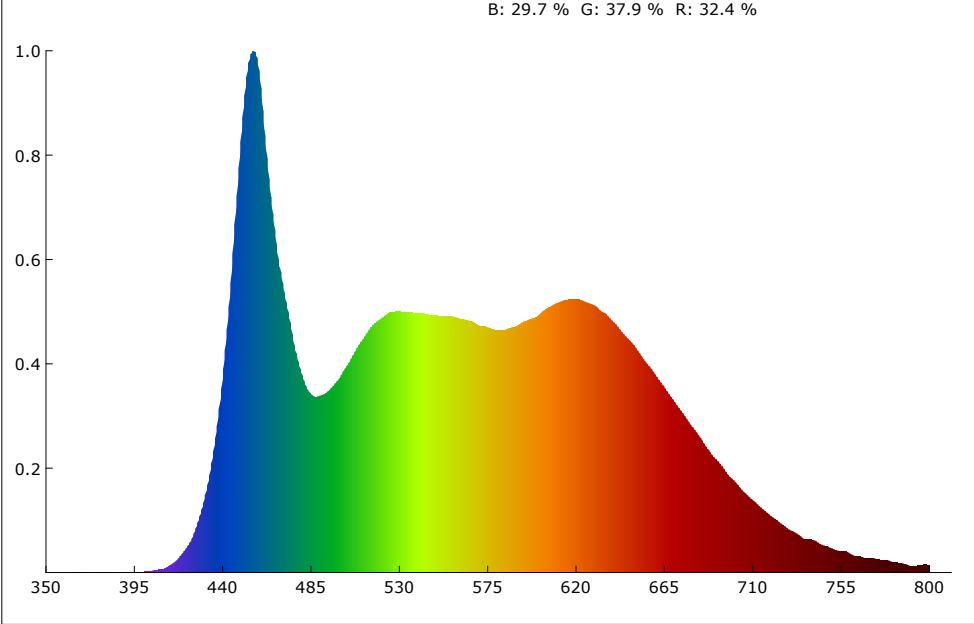
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 04/30/14



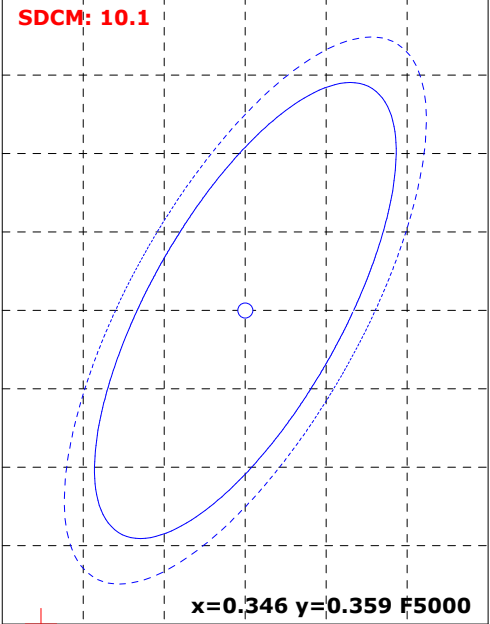
Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 04/30/14

Spectrogram



SDCM



Color Parameter:

x: 0.3324 y: 0.3296 u: 0.2114 v: 0.3144 u': 0.2114 v': 0.4716
R_ratio: 32.4 % G_ratio: 37.9 % B_ratio: 29.7 % RedRatio: 17.6 % GreenRatio: 77.8 % BlueRatio: 4.6 %

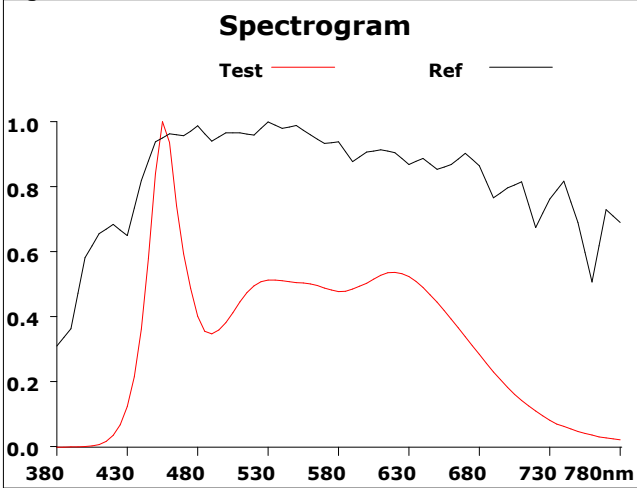
Ra: 95.0 AvgR: 93.1
R1: 93.1 R2: 95.5 R3: 96.2 R4: 97.1 R5: 94.1 R6: 92.4 R7: 96.6 R8: 95.7
R9: 87.6 R10: 94.8 R11: 95.6 R12: 75.1 R13: 93.5 R14: 97.0 R15: 91.5

CCT: 5493 K Flux: 1633.916 lm PeakWave: 456.4 nm SDCM: 10.1
S/P: 2.2 CentralWave: 458.8 nm DominantWave: 0.0 nm CentroidWave: 562.3 nm
HalfWidth: 30.0 nm duv: -0.00602 purity: 0.0 % CQS: 87.3
LER(TM-30): 266.6 Ep: 6128.6 mw Rg: 101.1 Rf: 90.2
Red Ep: 1889.4 mw Near red Ep: 276.8 mw Near infrared Ep: 16.3 mw

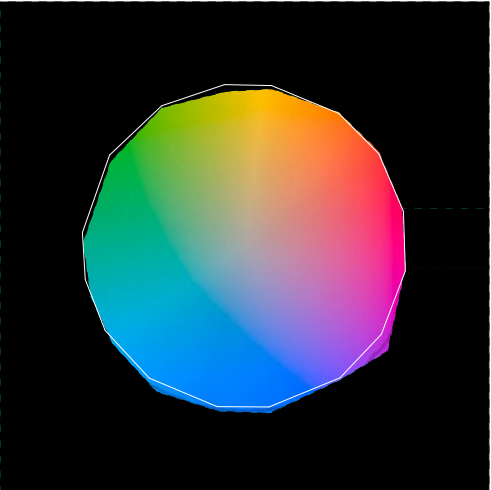
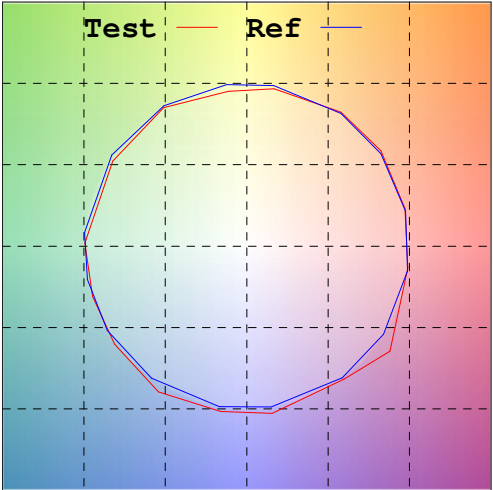
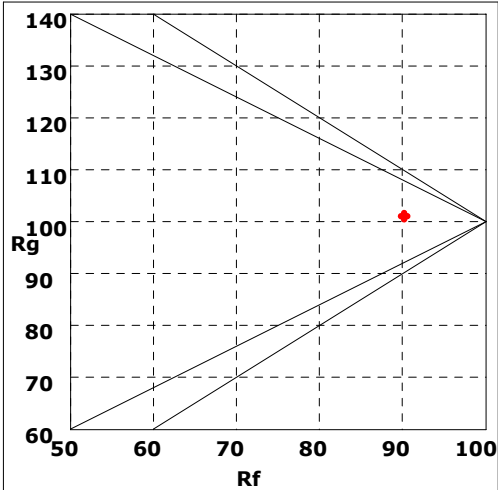
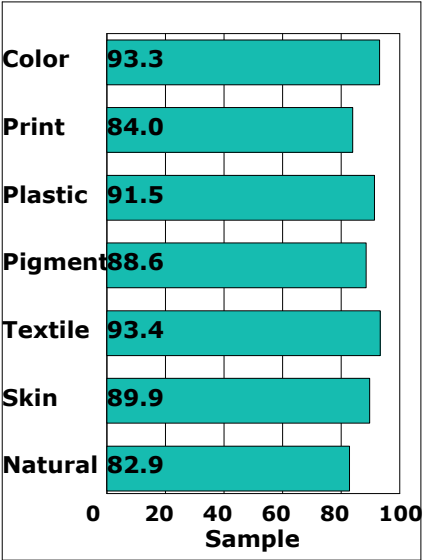
Electrical parameters:

Effic: 18.7 Lm/W Energy: 20.4 Effi: G
U: 219.4 V I: 0.628 A P: 87.330 W Pf: 0.633

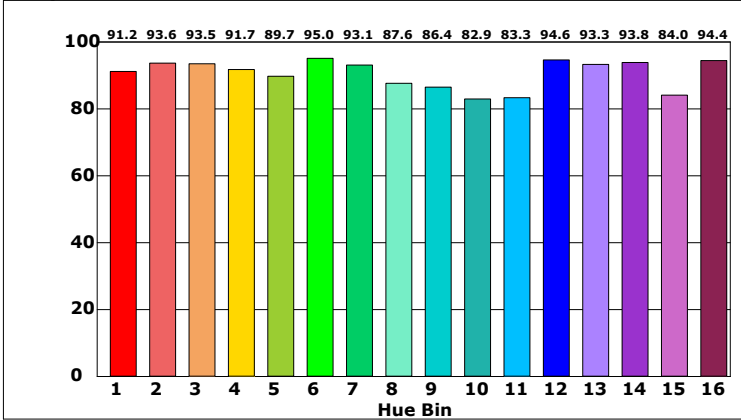
Rf: 90.2 CCT: 5493K u': 0.2114
Rg: 101.1 LER: 266.6 Duv: -0.00602 v': 0.4716



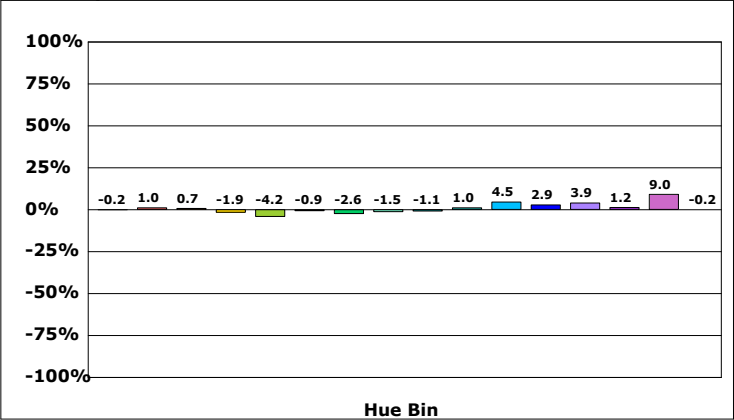
500			
Hue Bin	Rf	Chroma	Hue
1	91.2	-0.2%	1.9%
2	93.6	1.0%	1.5%
3	93.5	0.7%	0.3%
4	91.7	-1.9%	-0.6%
5	89.7	-4.2%	-0.2%
6	95.0	-0.9%	0.7%
7	93.1	-2.6%	2.7%
8	87.6	-1.5%	6.2%
9	86.4	-1.1%	10.8%
10	82.9	1.0%	9.6%
11	83.3	4.5%	8.3%
12	94.6	2.9%	1.4%
13	93.3	3.9%	-0.2%
14	93.8	1.2%	0.5%
15	84.0	9.0%	-6.4%
16	94.4	-0.2%	1.8%



Rf by Bue



Chroma by Bue



Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 04/30/14

