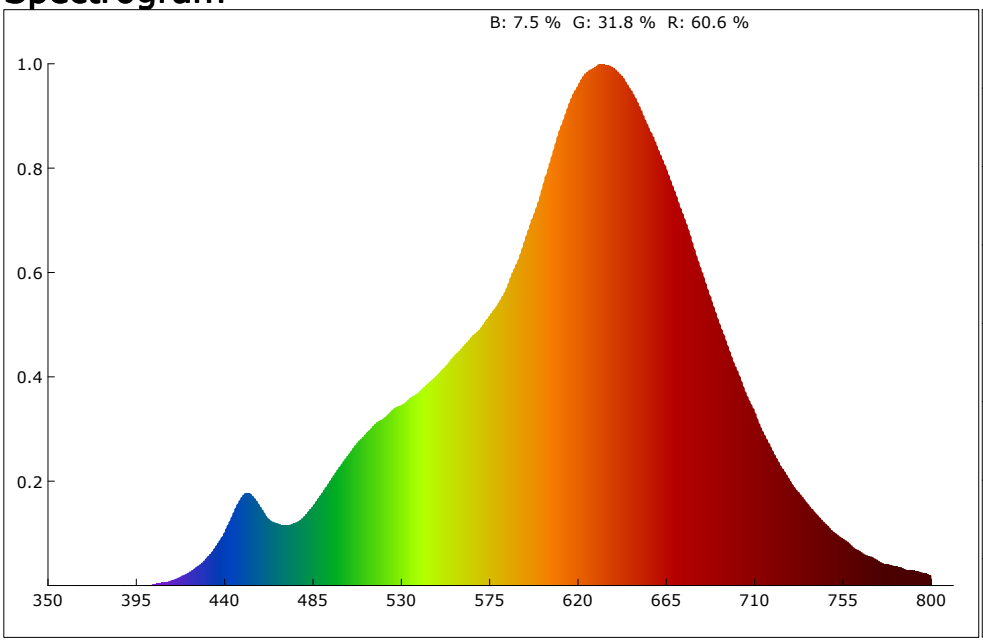
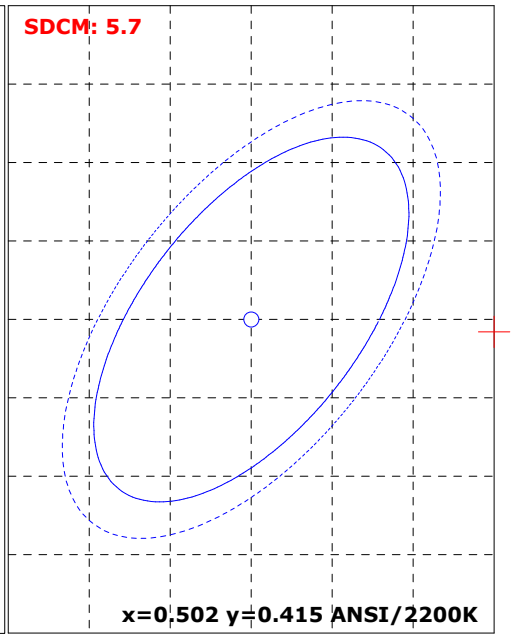
Spectrogram



SDCM



Color Parameter:

x: 0.4909	y: 0.4093	u: 0.2834	v: 0.3544	u': 0.2834	v': 0.5316
R_ratio: 60.6 %	G_ratio: 31.8 %	B_ratio: 7.5 %	RedRatio: 30.6 %	GreenRatio: 68.2 %	BlueRatio: 1.2 %

Ra: 95.5 AvgR: 94.5

R1: 98.0	R2: 97.9	R3: 99.1	R4: 95.6	R5: 96.0	R6: 91.9	R7: 94.1	R8: 91.8
R9: 84.4	R10: 96.2	R11: 90.3	R12: 89.3	R13: 97.4	R14: 98.3	R15: 97.3	

CCT: 2308 K	Flux: 2917.349 lm	PeakWave: 631.5 nm	SDCM: 5.7
S/P: 1.1	CentralWave: 631.9 nm	DominantWave: 587.1 nm	CentroidWave: 616.1 nm
HalfWidth: 119.9 nm	duv: -0.00188	purity: 70.2 %	CQS: 85.7
LER(TM-30): 244.5	Ep: 11930.0 mw	Rg: 102.9	Rf: 94.2
Red Ep: 6537.4 mw	Near red Ep: 1100.6 mw	Near infrared Ep: 50.9 mw	

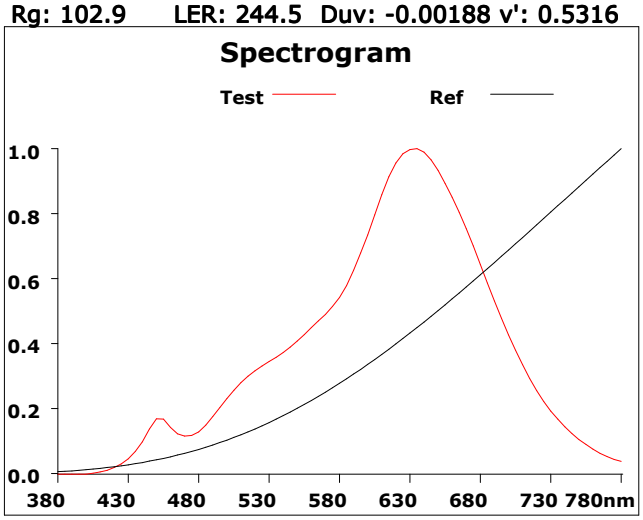
Electrical parameters:

Effic: 15.4 Lm/W	Energy: 16.8	Effi: G	
U: 221.1 V	I: 0.895 A	P: 189.200 W	Pf: 0.955

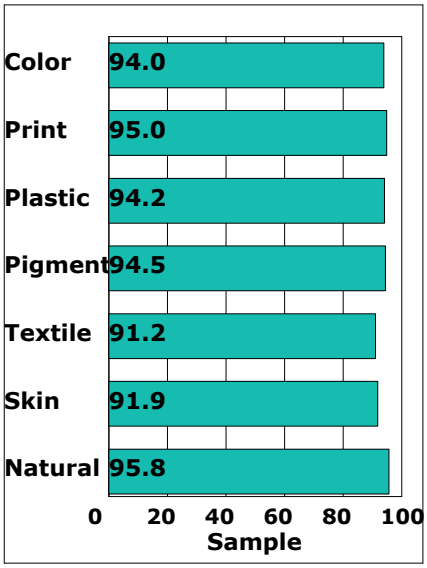
Product model:
Product number:
Tester:
Remarks:

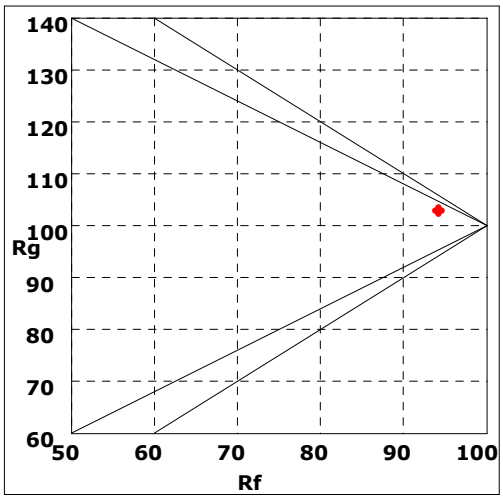
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

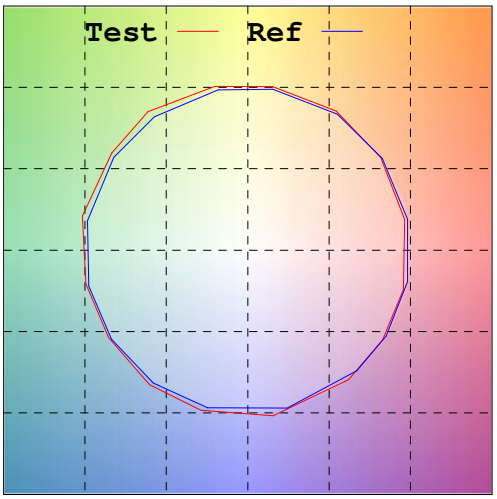
Rf: 94.2 CCT: 2308K u': 0.2834
Rg: 102.9 LER: 244.5 Duv: -0.00188 v': 0.5316

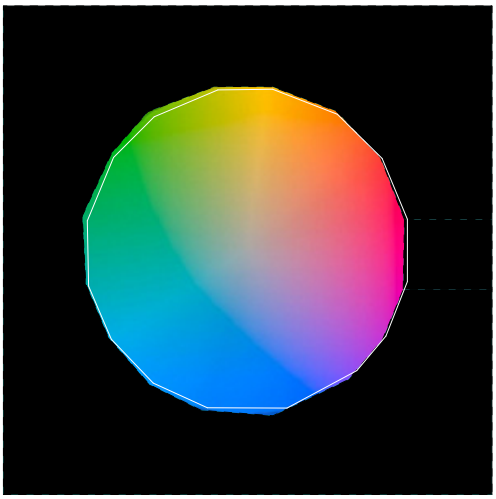


		500	
Hue Bin	Rf	Chroma	Hue
1	95.5	-1.7%	0.0%
2	96.4	-0.4%	0.9%
3	93.6	1.2%	1.9%
4	95.9	1.6%	0.3%
5	96.0	2.6%	1.6%
6	92.4	4.8%	1.6%
7	94.3	2.6%	-1.8%
8	93.0	3.7%	-2.1%
9	95.3	1.5%	-1.7%
10	95.8	0.9%	-1.9%
11	95.4	2.3%	-1.4%
12	92.5	2.2%	-3.5%
13	88.5	3.0%	-9.6%
14	88.0	1.7%	-7.4%
15	95.0	-0.3%	-3.2%
16	91.3	-1.5%	-5.3%

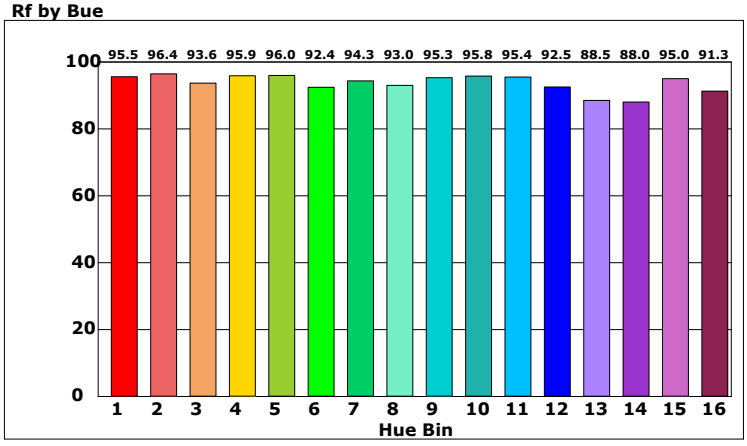




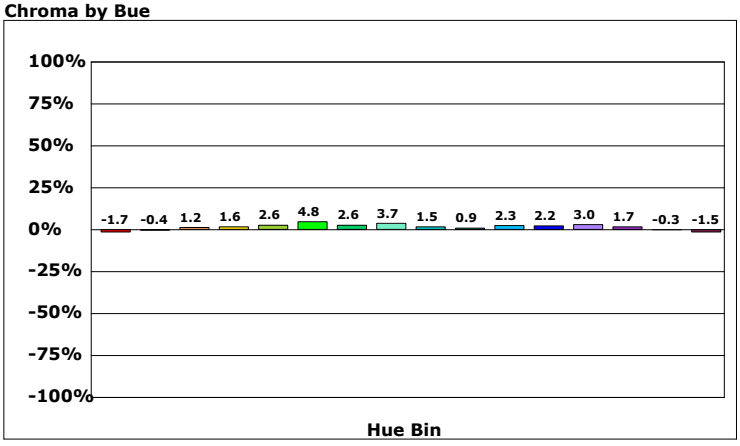




Rf by Bue

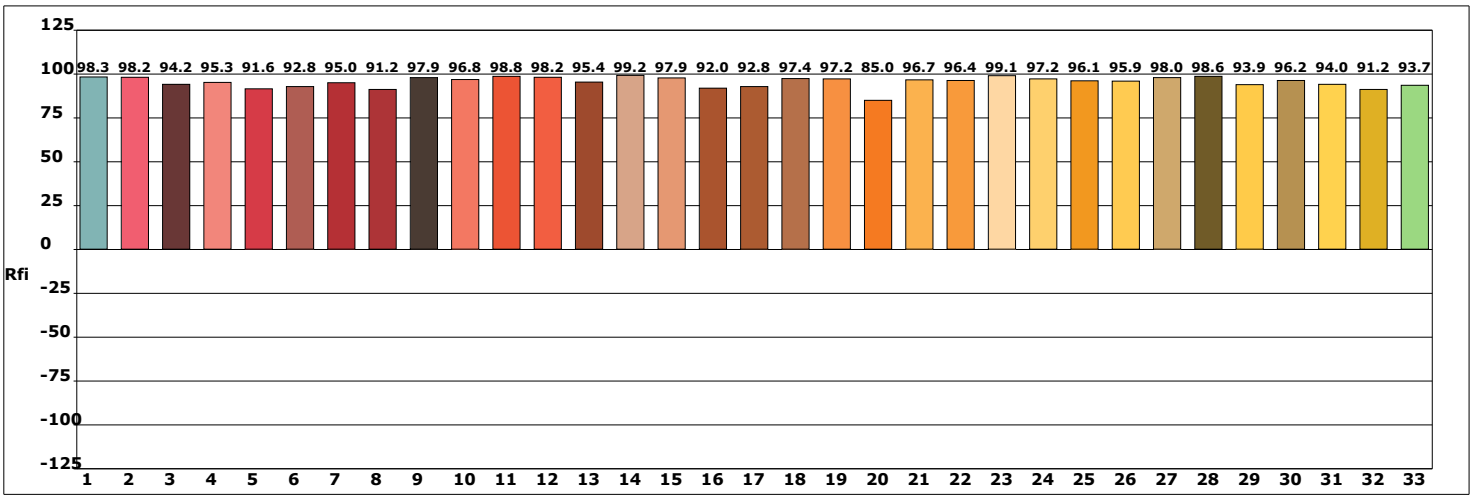


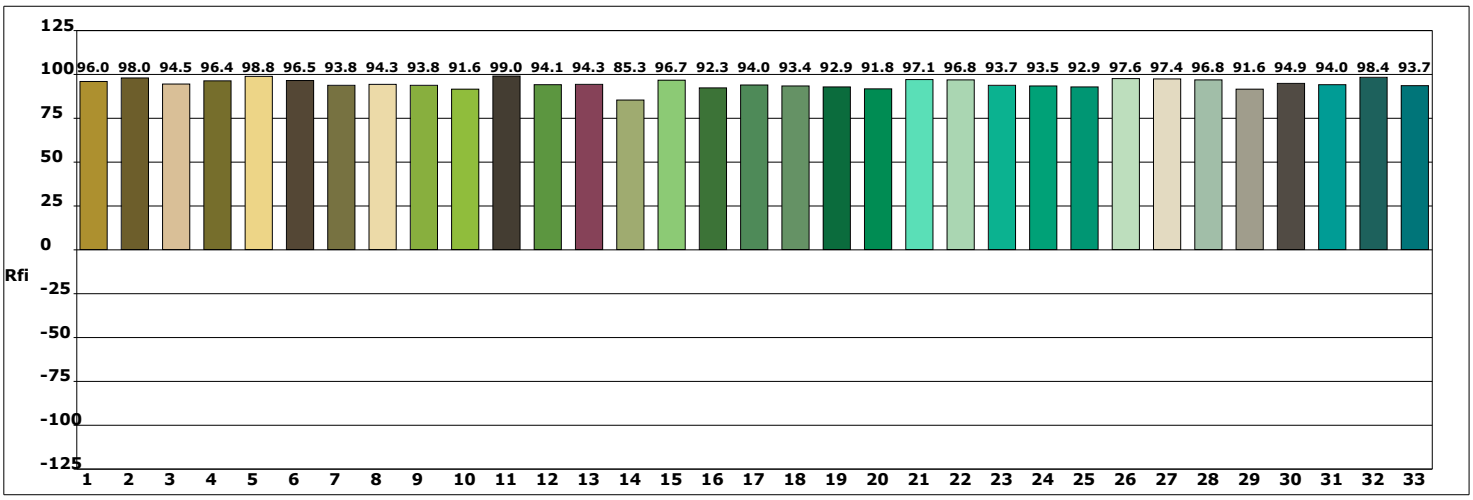
Chroma by Bue

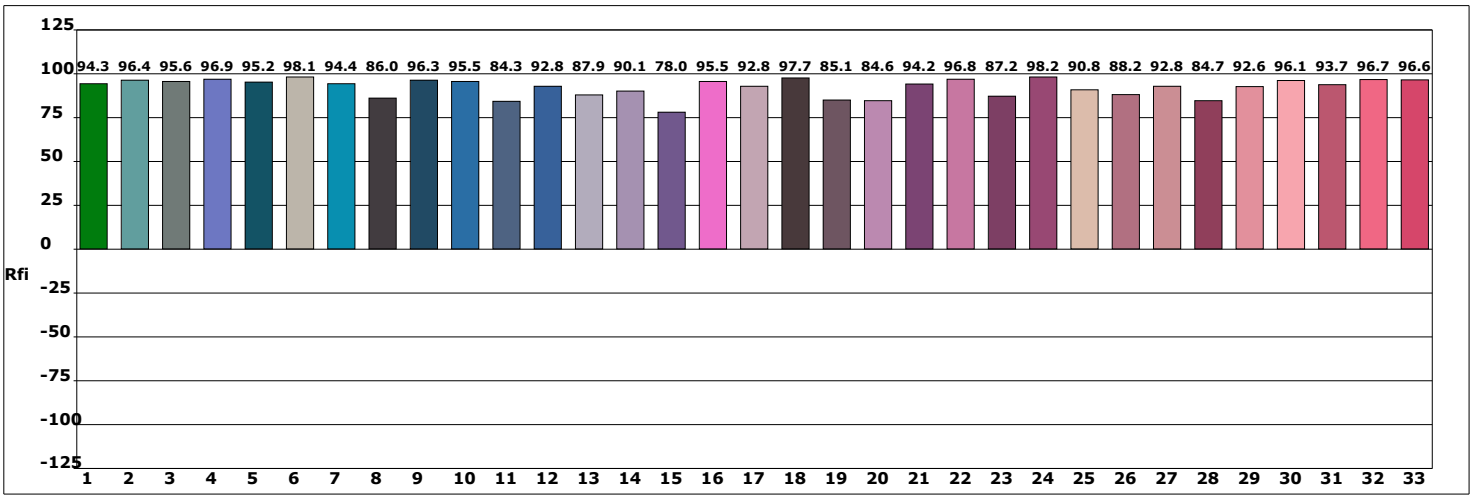


Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14



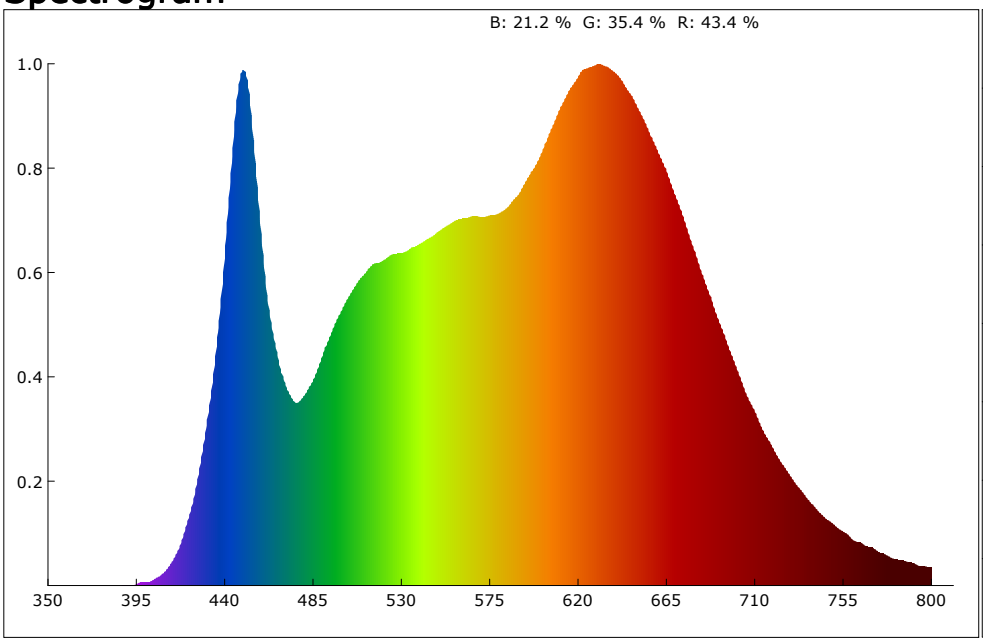




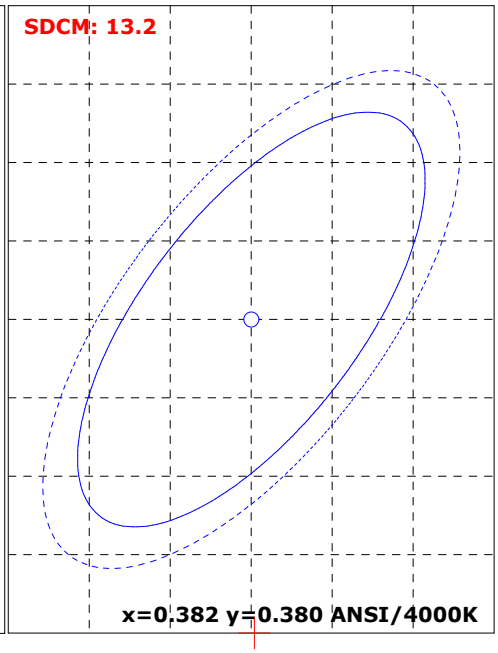
Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

Spectrogram



SDCM



Color Parameter:

x: 0.3820	y: 0.3540	u: 0.2357	v: 0.3276	u': 0.2357	v': 0.4914
R_ratio: 43.4 %	G_ratio: 35.4 %	B_ratio: 21.2 %	RedRatio: 22.2 %	GreenRatio: 74.8 %	BlueRatio: 3.0 %

Ra: 92.9	AvgR: 91.0						
R1: 91.2	R2: 94.9	R3: 95.4	R4: 90.0	R5: 91.5	R6: 92.5	R7: 96.7	R8: 91.1
R9: 77.7	R10: 91.8	R11: 86.8	R12: 89.1	R13: 91.7	R14: 96.4	R15: 88.6	

CCT: 3766 K	Flux: 3617.547 lm	PeakWave: 630.5 nm	SDCM: 13.2
S/P: 1.8	CentralWave: 594.0 nm	DominantWave: 588.6 nm	CentroidWave: 584.5 nm
HalfWidth: 194.8 nm	duv: -0.01148	purity: 20.9 %	CQS: 84.6
LER(TM-30): 251.5	Ep: 14383.4 mw	Rg: 106.8	Rf: 92.5
Red Ep: 5770.2 mw	Near red Ep: 1016.4 mw	Near infrared Ep: 64.6 mw	

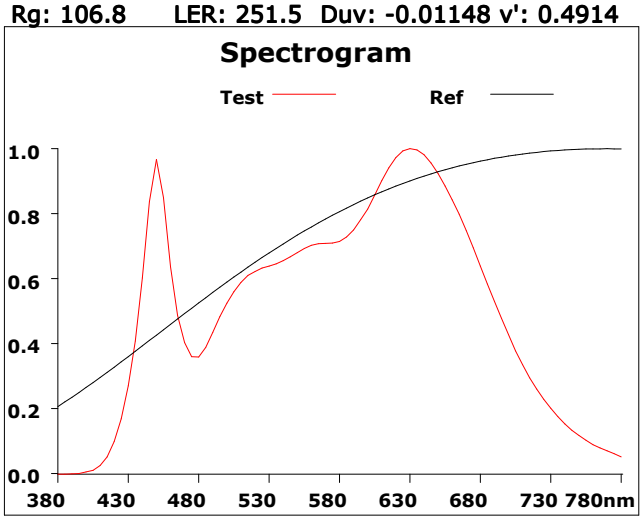
Electrical parameters:

Effic: 18.8 Lm/W	Energy: 20.5	Effi: G	
U: 220.9 V	I: 0.908 A	P: 192.100 W	Pf: 0.957

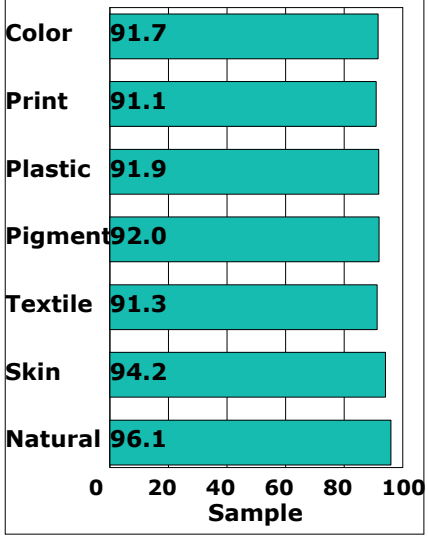
Product model:
Product number:
Tester:
Remarks:

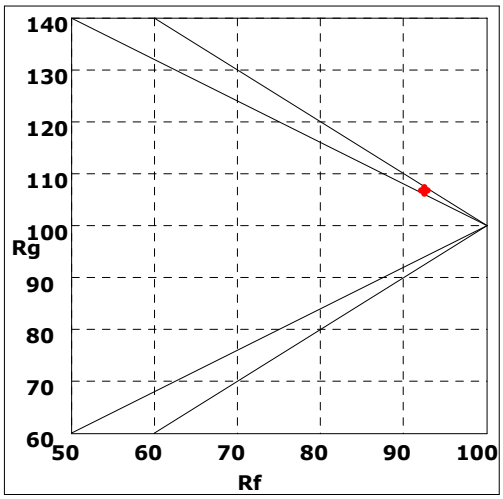
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

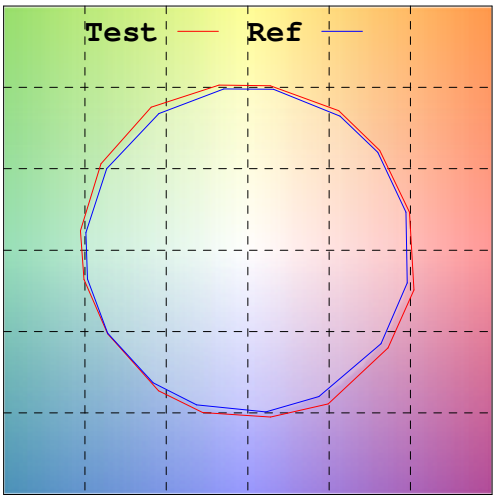
Rf: 92.5 CCT: 3766K u': 0.2357
Rg: 106.8 LER: 251.5 Duv: -0.01148 v': 0.4914

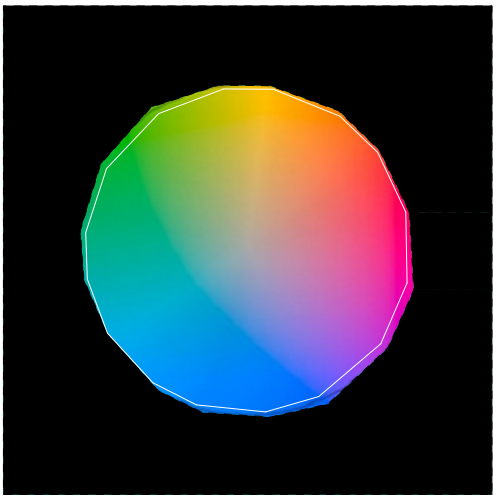


		500	
Hue Bin	Rf	Chroma	Hue
1	94.4	2.2%	-0.5%
2	95.3	1.7%	0.3%
3	92.6	2.2%	2.5%
4	94.0	1.7%	2.3%
5	91.9	2.9%	2.4%
6	90.4	6.0%	1.6%
7	92.4	4.5%	-0.4%
8	92.1	3.4%	-0.4%
9	94.6	2.1%	-0.1%
10	96.1	0.2%	0.2%
11	90.2	2.3%	5.4%
12	88.6	3.9%	4.5%
13	93.8	3.7%	2.3%
14	90.2	6.9%	2.3%
15	91.1	5.1%	0.3%
16	89.1	5.0%	-3.5%

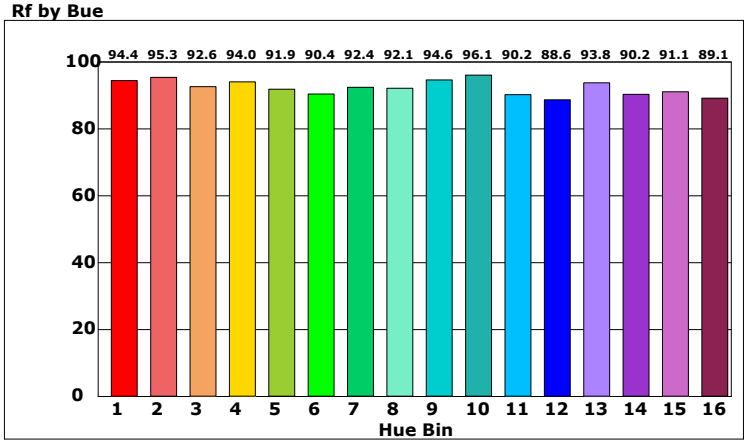




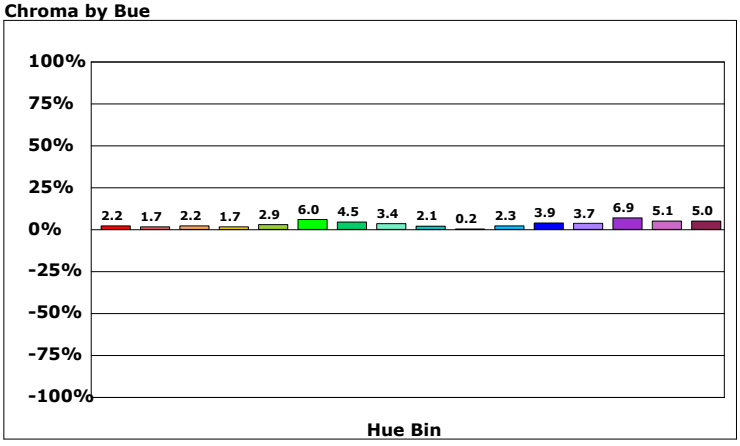




Rf by Bue

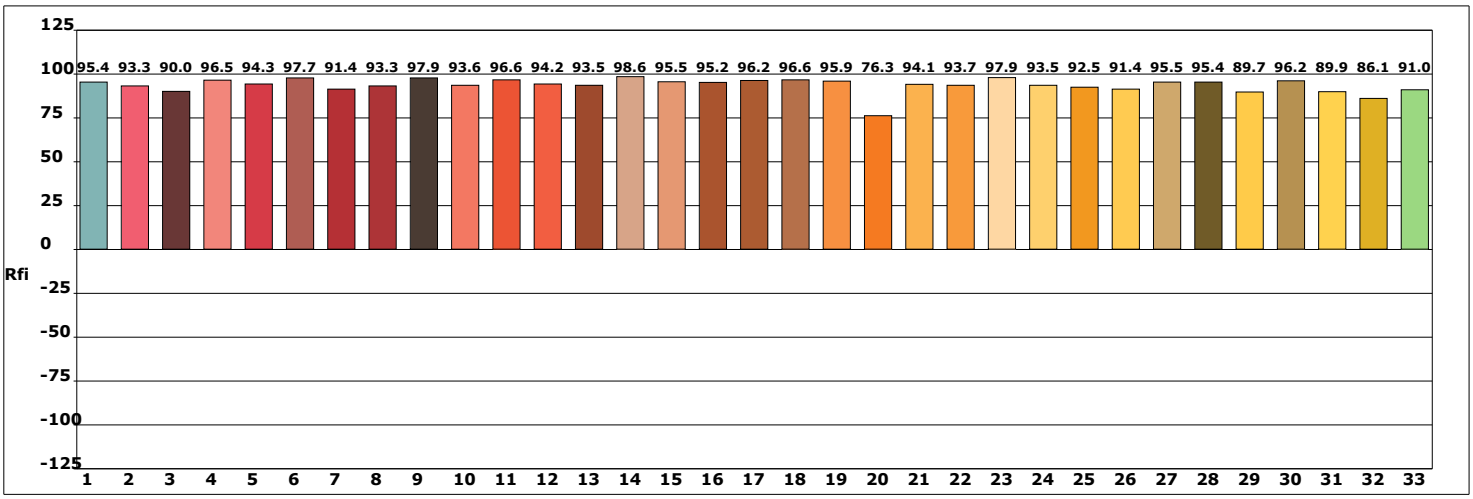


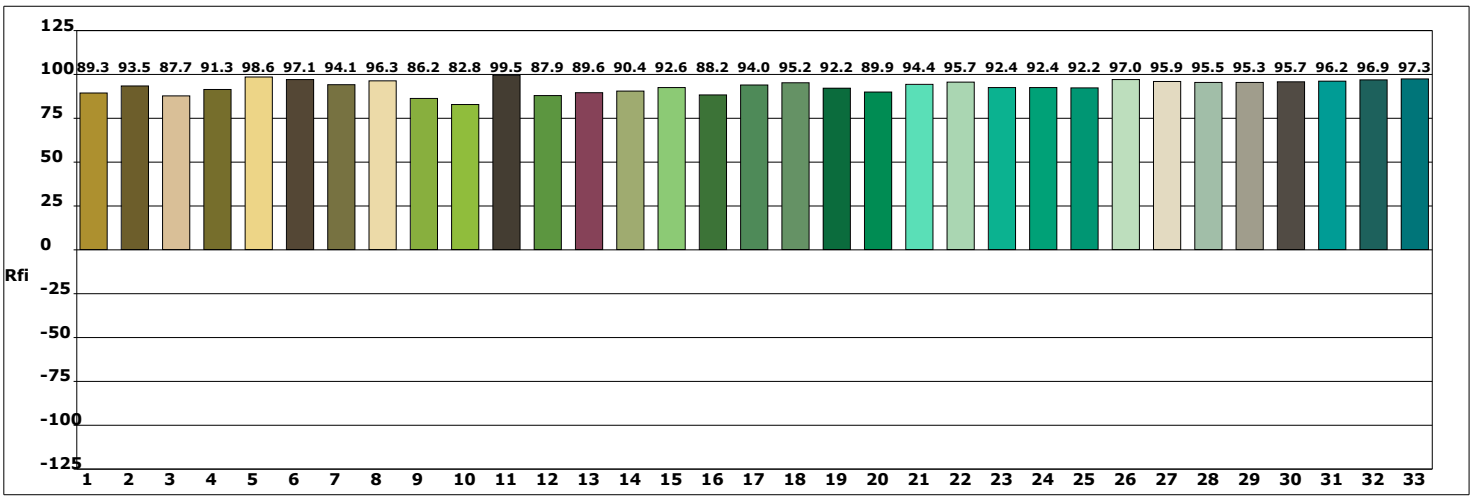
Chroma by Bue

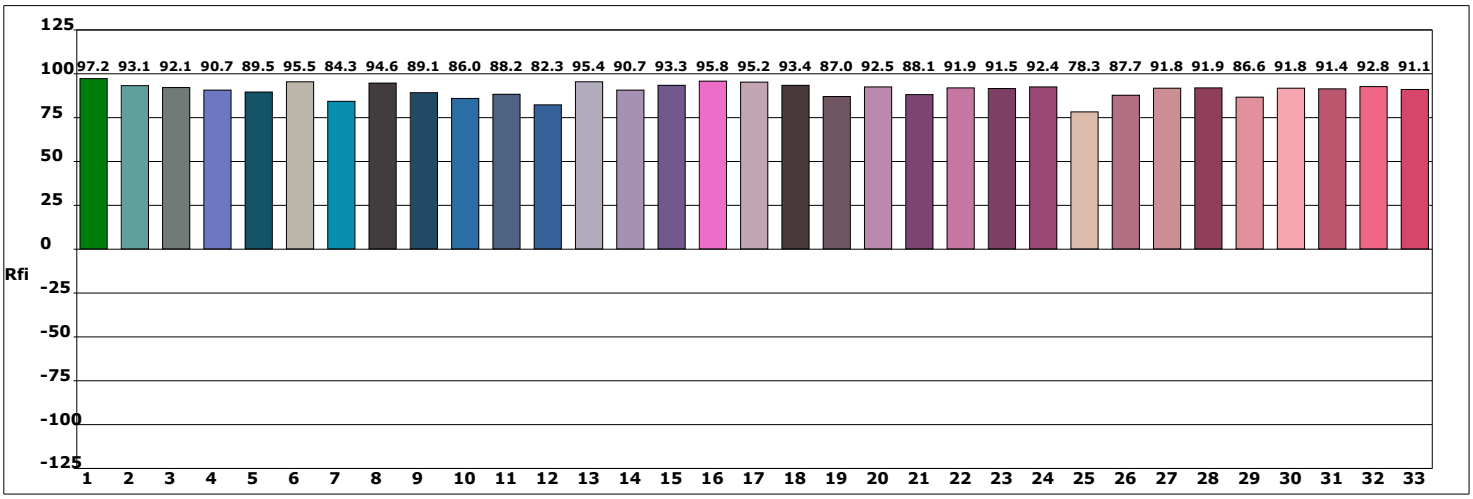


Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14



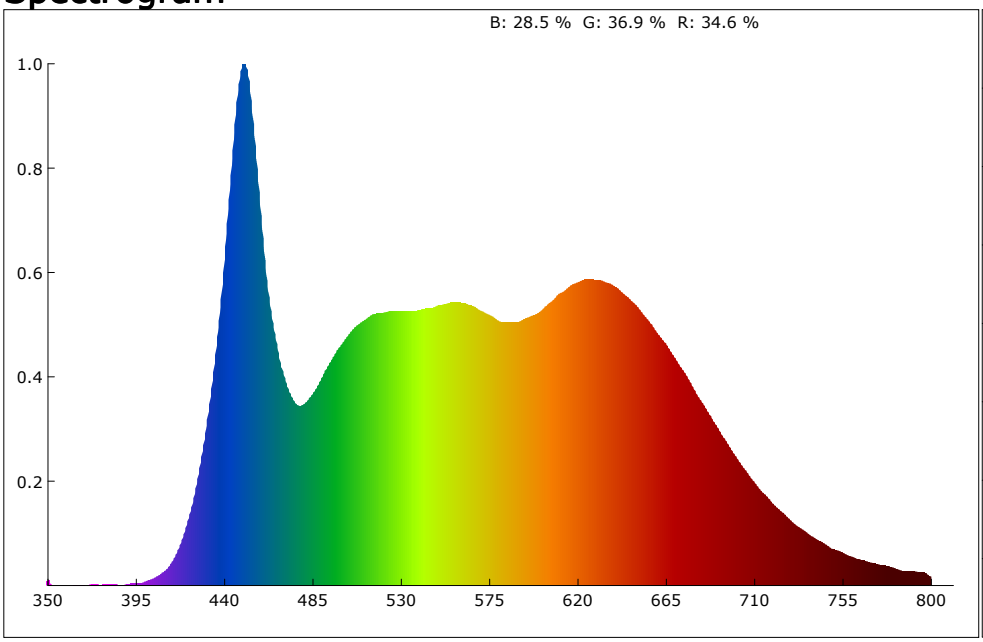




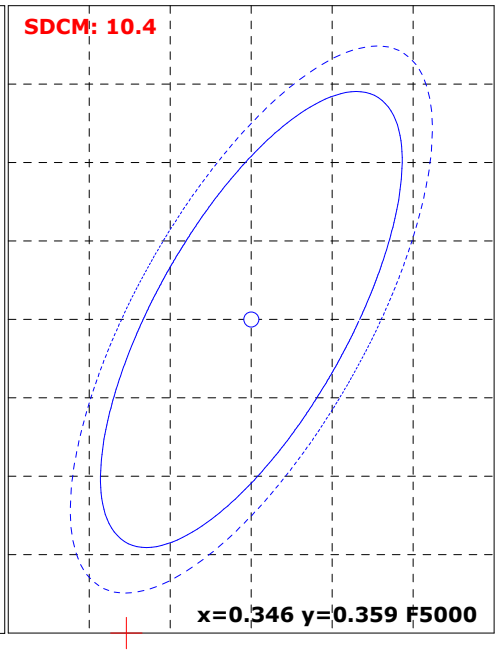
Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

Spectrogram



SDCM



Color Parameter:

x: 0.3373	y: 0.3302	u: 0.2146	v: 0.3151	u': 0.2146	v': 0.4727
R_ratio: 34.6 %	G_ratio: 36.9 %	B_ratio: 28.5 %	RedRatio: 18.1 %	GreenRatio: 78.0 %	BlueRatio: 4.0 %

Ra: 93.4 AvgR: 91.6

R1: 93.1	R2: 96.5	R3: 92.3	R4: 90.9	R5: 94.3	R6: 94.0	R7: 95.5	R8: 91.1
R9: 77.5	R10: 94.9	R11: 88.8	R12: 86.8	R13: 94.0	R14: 94.9	R15: 89.9	

CCT: 5266 K	Flux: 3906.231 lm	PeakWave: 450.6 nm	SDCM: 10.4
S/P: 2.2	CentralWave: 451.2 nm	DominantWave: 0.0 nm	CentroidWave: 567.3 nm
HalfWidth: 27.0 nm	duv: -0.00790	purity: 0.0 %	CQS: 87.7
LER(TM-30): 254.6	Ep: 15345.3 mw	Rg: 105.6	Rf: 91.6
Red Ep: 4978.3 mw	Near red Ep: 890.6 mw	Near infrared Ep: 59.6 mw	

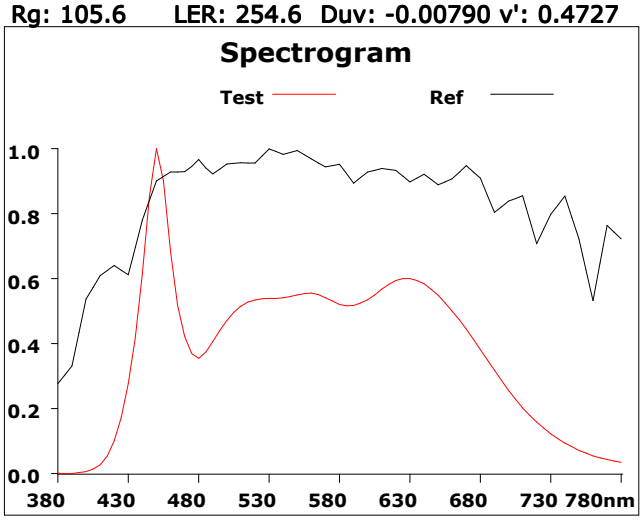
Electrical parameters:

Effic: 20.7 Lm/W	Energy: 22.6	Effi: G	
U: 220.9 V	I: 0.893 A	P: 188.600 W	Pf: 0.955

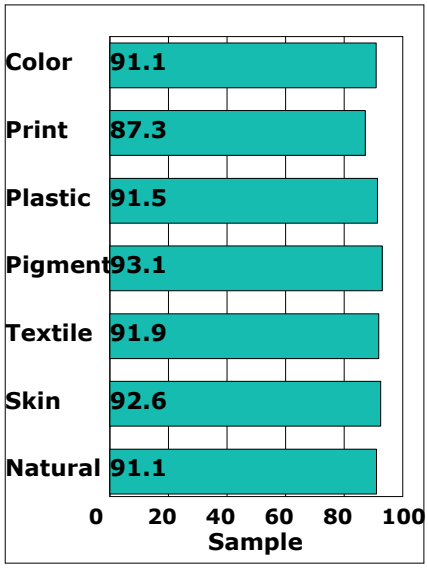
Product model:
Product number:
Tester:
Remarks:

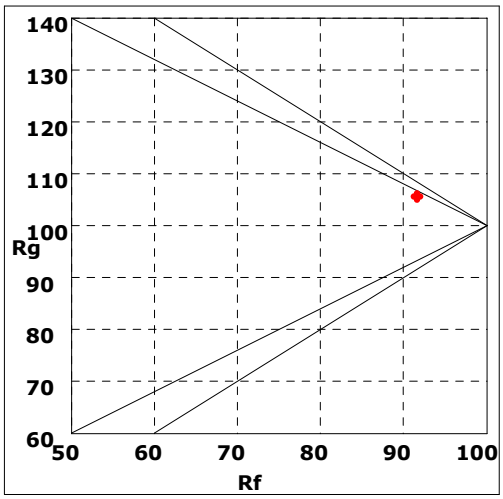
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

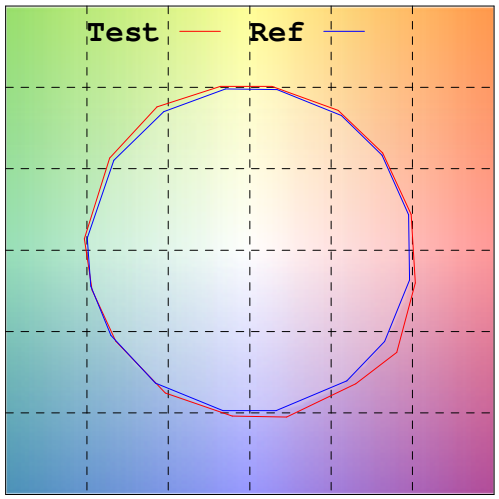
Rf: 91.6 CCT: 5266K u': 0.2146
Rg: 105.6 LER: 254.6 Duv: -0.00790 v': 0.4727

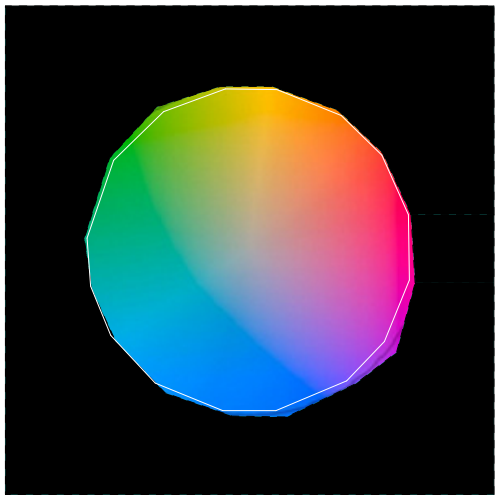


		500	
Hue Bin	Rf	Chroma	Hue
1	93.8	1.6%	-0.1%
2	95.2	1.1%	0.9%
3	91.3	1.5%	3.4%
4	92.5	1.3%	3.4%
5	91.6	2.2%	2.9%
6	91.8	4.8%	1.8%
7	94.6	3.0%	0.4%
8	94.6	1.6%	0.7%
9	94.6	-0.3%	2.6%
10	91.1	-0.4%	4.5%
11	84.6	1.8%	8.4%
12	89.4	2.1%	6.2%
13	90.6	5.1%	5.7%
14	89.3	4.6%	3.7%
15	87.3	10.1%	-1.5%
16	92.2	3.8%	-1.1%

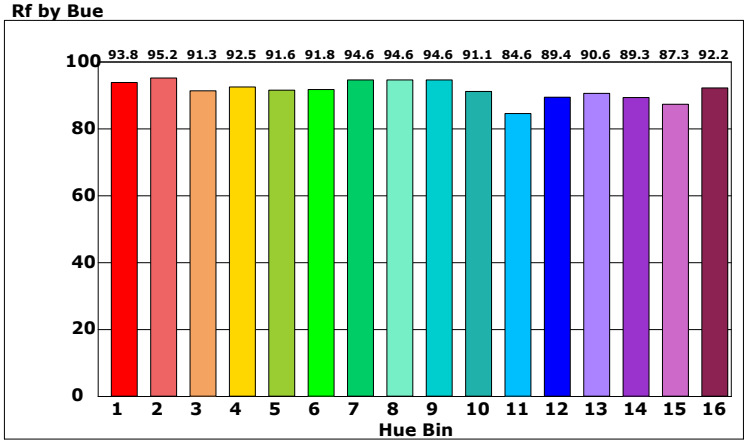




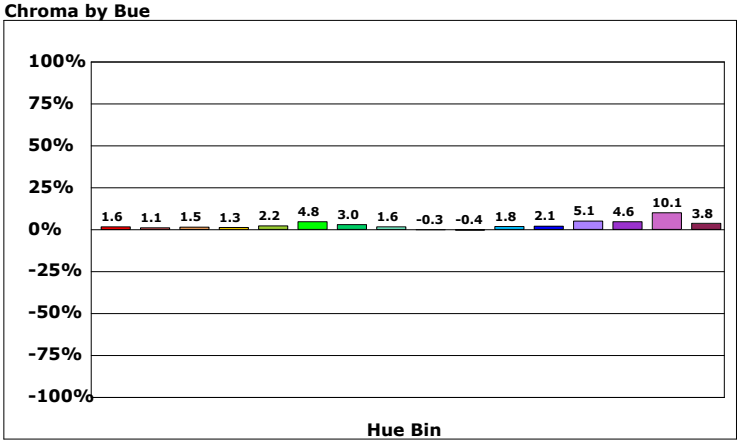




Rf by Bue

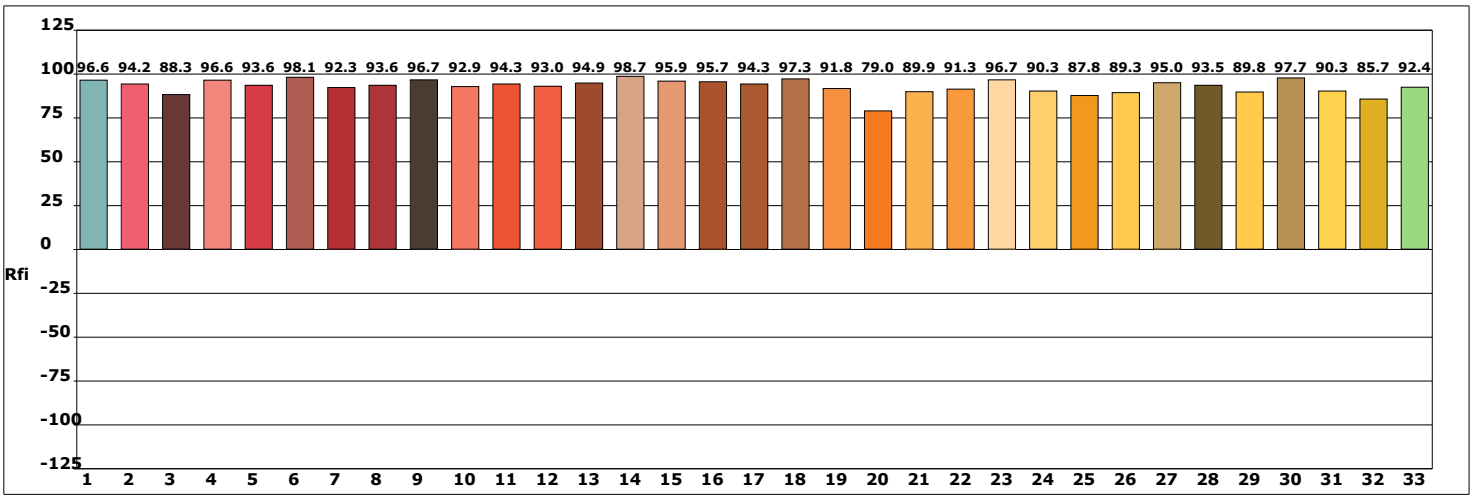


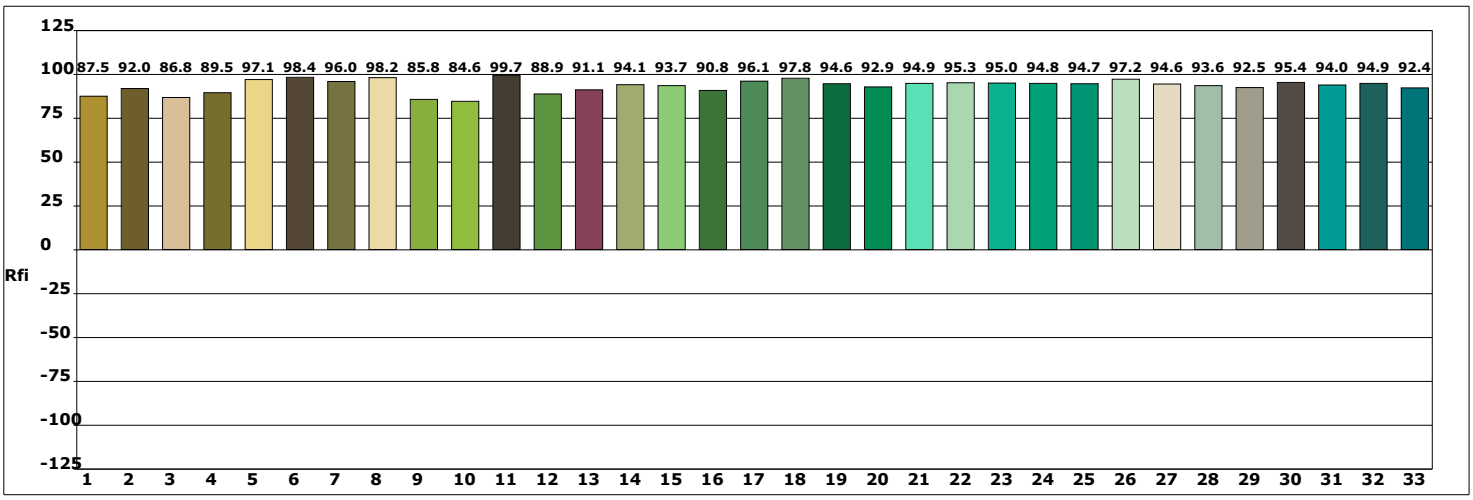
Chroma by Bue

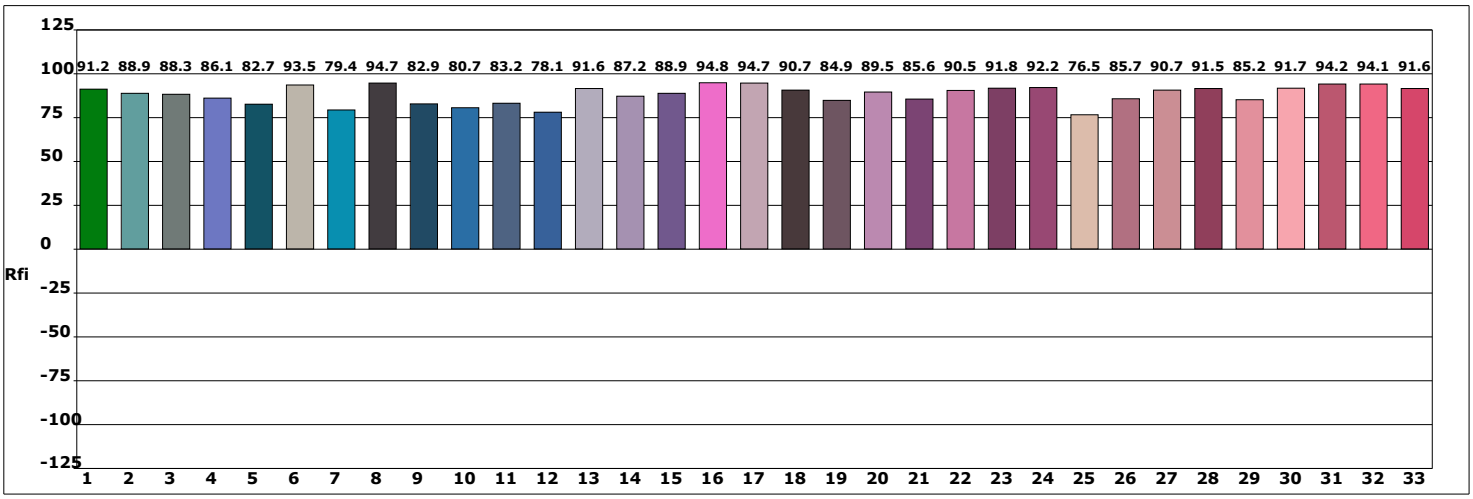


Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14



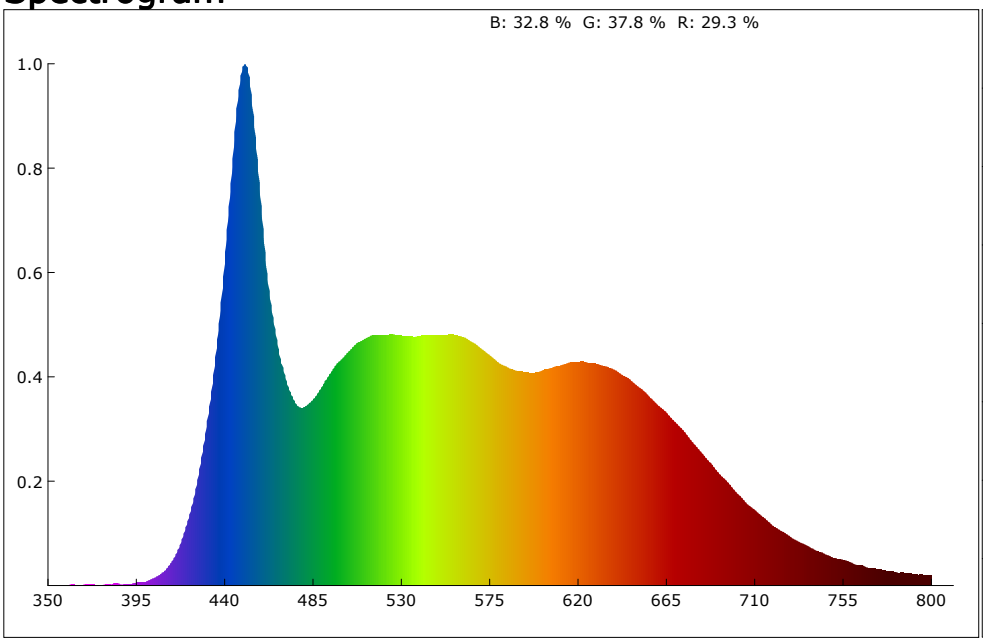




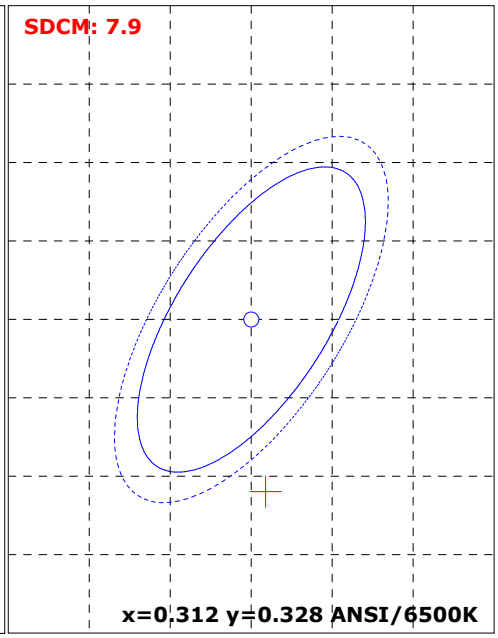
Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

Spectrogram



SDCM



Color Parameter:

x: 0.3132	y: 0.3172	u: 0.2027	v: 0.3080	u': 0.2027	v': 0.4620
R_ratio: 29.3 %	G_ratio: 37.8 %	B_ratio: 32.8 %	RedRatio: 15.6 %	GreenRatio: 79.8 %	BlueRatio: 4.6 %

Ra: 95.4 AvgR: 93.7

R1: 96.7	R2: 97.1	R3: 91.9	R4: 95.4	R5: 98.1	R6: 92.9	R7: 96.4	R8: 95.1
R9: 88.7	R10: 92.8	R11: 93.7	R12: 79.0	R13: 97.6	R14: 95.2	R15: 94.8	

CCT: 6572 K	Flux: 3993.947 lm	PeakWave: 450.6 nm	SDCM: 7.9
S/P: 2.4	CentralWave: 451.6 nm	DominantWave: 480.5 nm	CentroidWave: 556.9 nm
HalfWidth: 27.8 nm	duv: -0.00323	purity: 8.2 %	CQS: 90.1
LER(TM-30): 256.3	Ep: 15584.2 mw	Rg: 102.7	Rf: 91.7
Red Ep: 4320.2 mw	Near red Ep: 789.3 mw	Near infrared Ep: 60.0 mw	

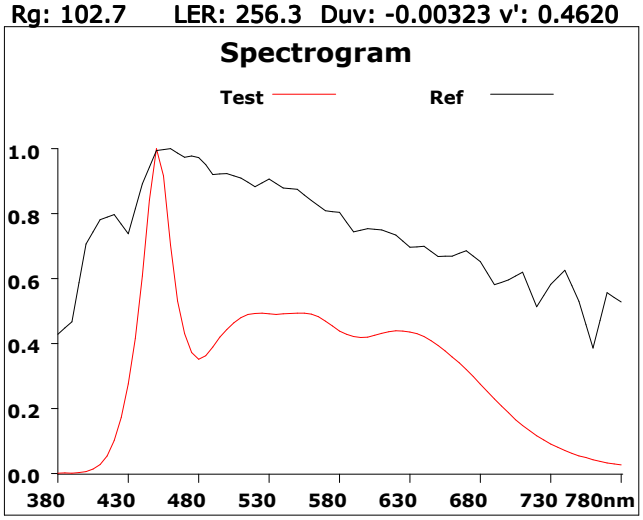
Electrical parameters:

Effic: 21.7 Lm/W	Energy: 23.6	Effi: G	
U: 220.9 V	I: 0.875 A	P: 184.400 W	Pf: 0.953

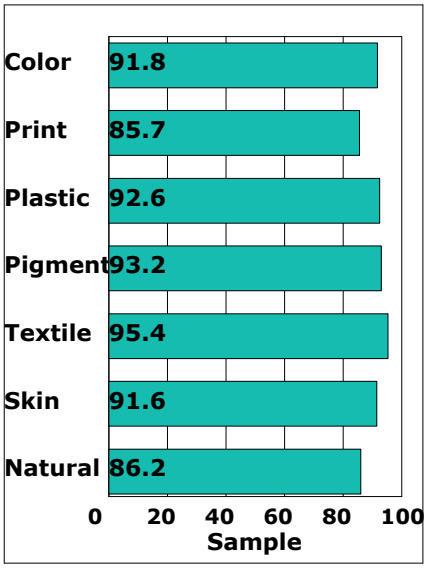
Product model:
Product number:
Tester:
Remarks:

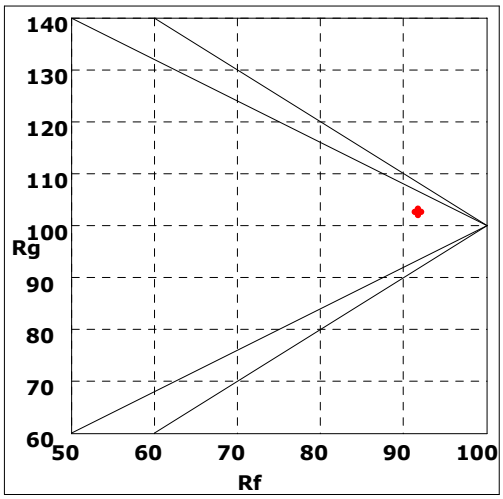
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

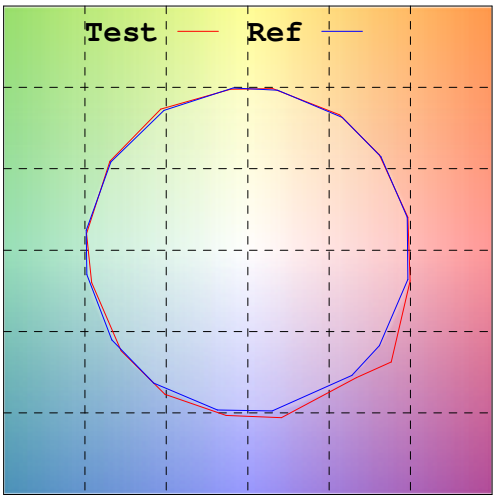
Rf: 91.7 CCT: 6572K u': 0.2027
Rg: 102.7 LER: 256.3 Duv: -0.00323 v': 0.4620

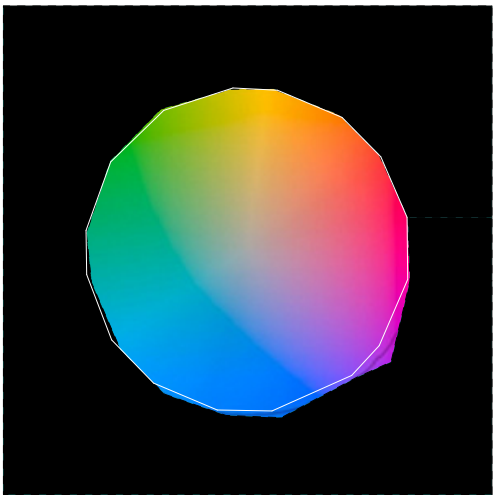


		500	
Hue Bin	Rf	Chroma	Hue
1	94.4	0.5%	-0.0%
2	95.9	-0.2%	1.5%
3	93.4	0.5%	2.2%
4	92.3	0.2%	3.2%
5	91.1	-0.4%	1.8%
6	95.5	1.7%	1.1%
7	97.3	0.8%	0.0%
8	95.2	-0.7%	1.8%
9	92.4	-2.0%	5.4%
10	86.2	-0.9%	8.7%
11	81.1	1.8%	9.5%
12	89.8	2.1%	5.9%
13	90.8	5.1%	4.8%
14	93.5	2.7%	1.5%
15	85.7	11.5%	-4.2%
16	95.9	1.6%	-0.7%

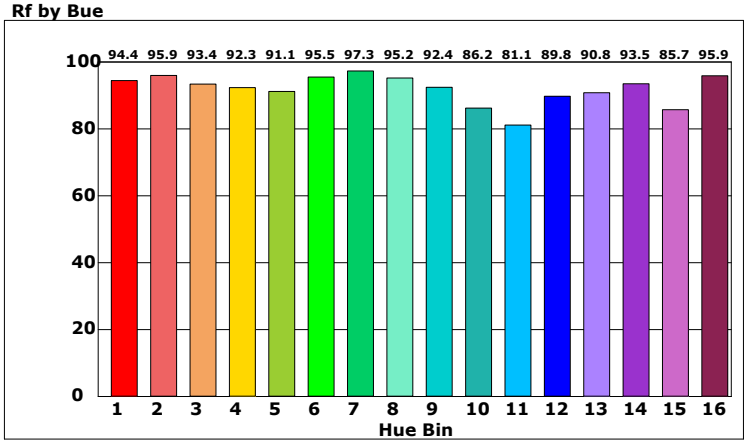




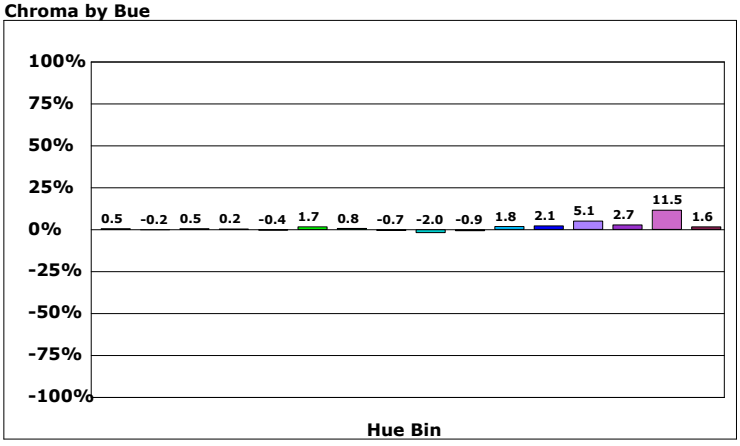




Rf by Bue

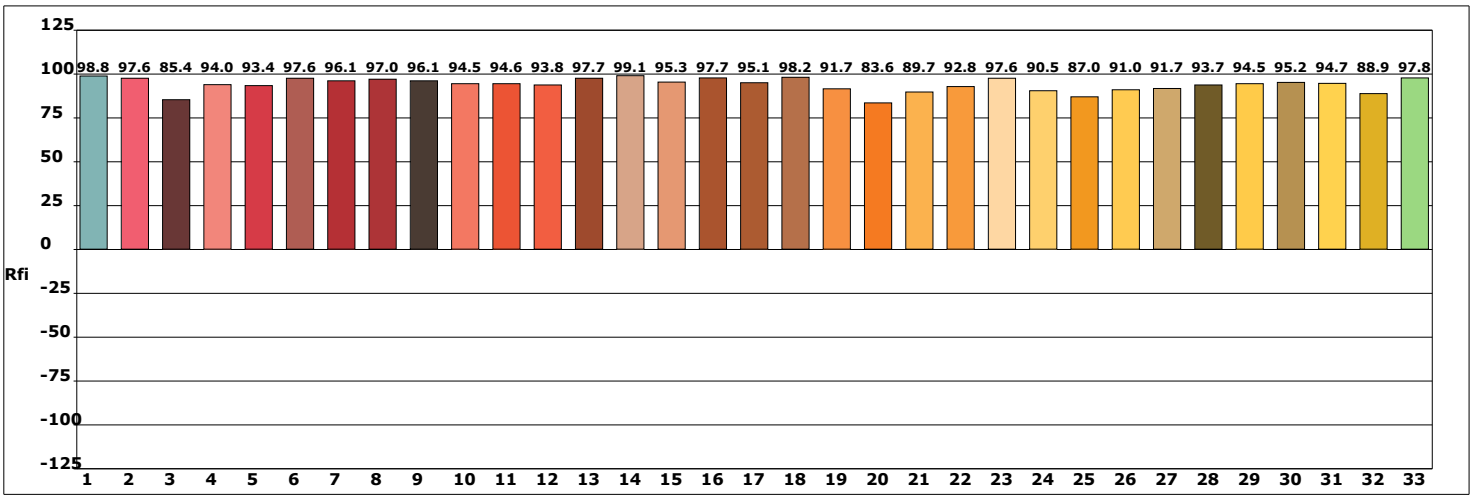


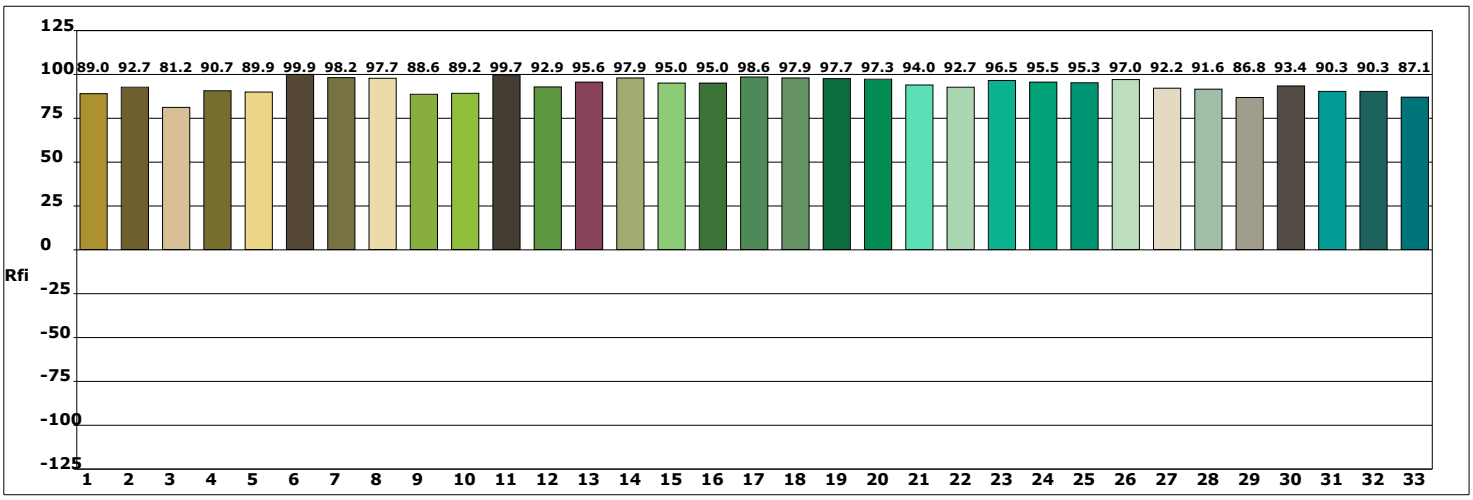
Chroma by Bue

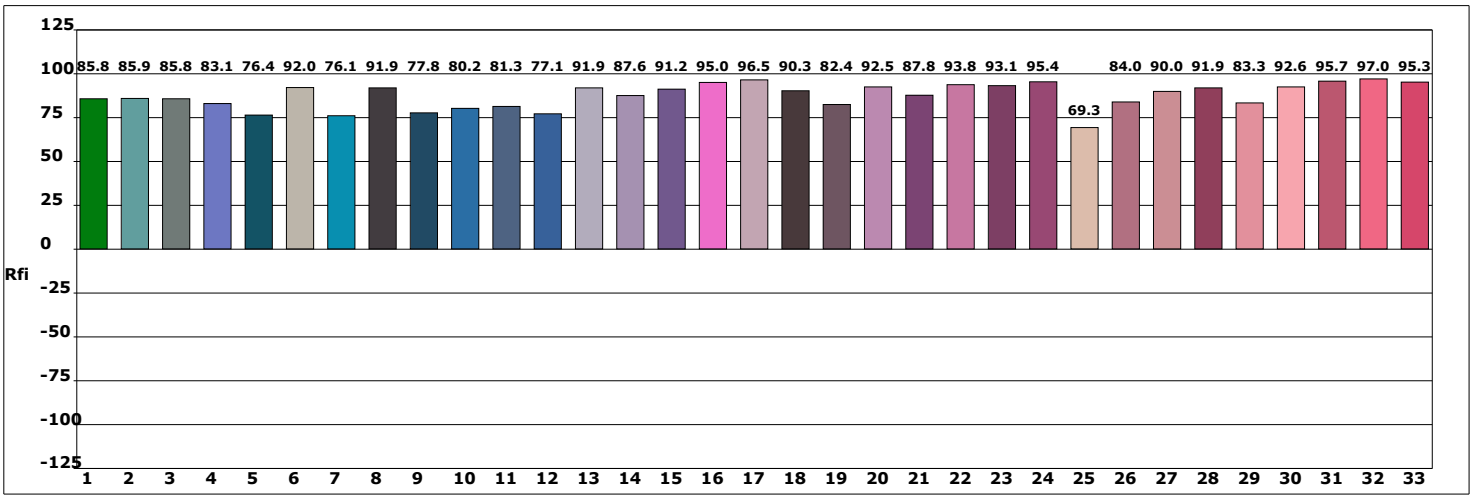


Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14







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