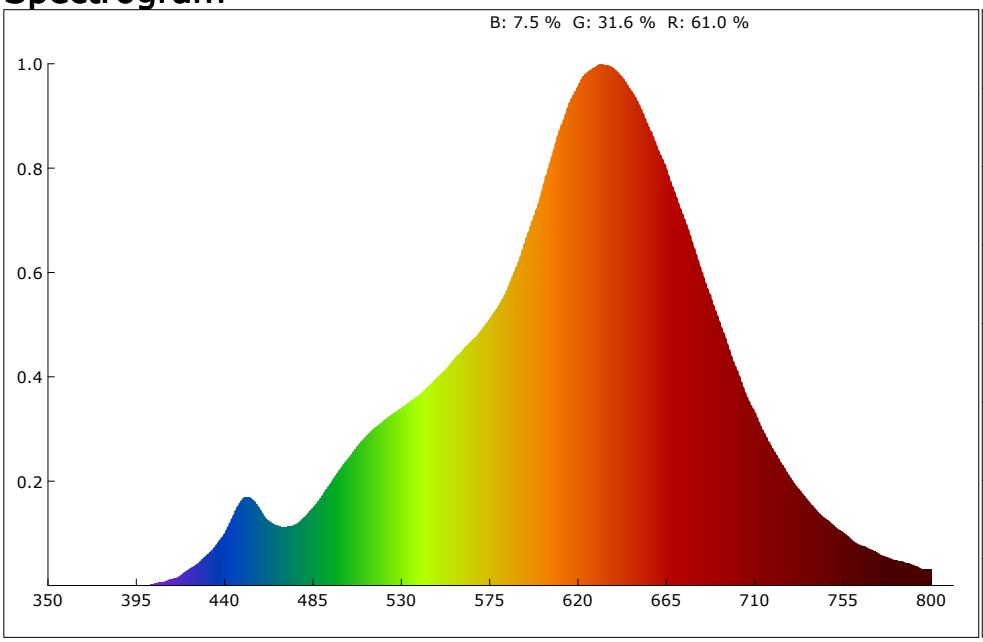
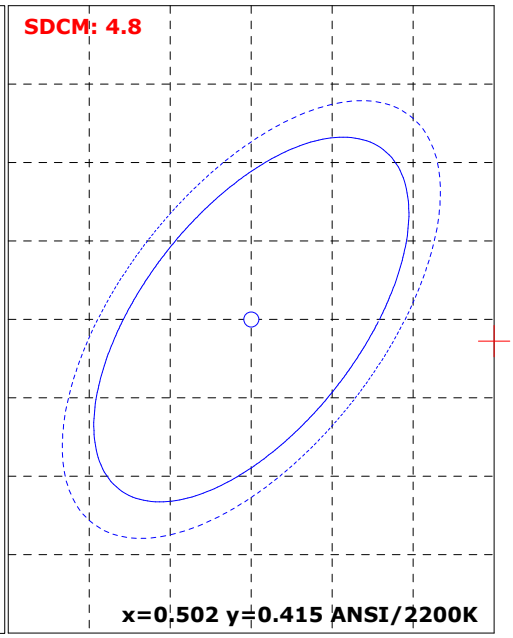
Spectrogram



SDCM



Color Parameter:

x: 0.4925	y: 0.4087	u: 0.2847	v: 0.3544	u': 0.2847	v': 0.5316
R_ratio: 61.0 %	G_ratio: 31.6 %	B_ratio: 7.5 %	RedRatio: 30.9 %	GreenRatio: 67.9 %	BlueRatio: 1.2 %

Ra: 95.4	AvgR: 94.4						
R1: 97.8	R2: 97.6	R3: 99.0	R4: 95.7	R5: 96.1	R6: 91.9	R7: 94.1	R8: 91.7
R9: 84.1	R10: 95.8	R11: 90.3	R12: 88.9	R13: 97.1	R14: 98.4	R15: 97.5	

CCT: 2288 K	Flux: 3769.625 lm	PeakWave: 631.5 nm	SDCM: 4.8
S/P: 1.1	CentralWave: 632.9 nm	DominantWave: 587.3 nm	CentroidWave: 617.3 nm
HalfWidth: 119.7 nm	duv: -0.00210	purity: 70.5 %	CQS: 85.3
LER(TM-30): 242.3	Ep: 15557.5 mw	Rg: 103.4	Rf: 93.8
Red Ep: 8517.6 mw	Near red Ep: 1501.1 mw	Near infrared Ep: 89.7 mw	

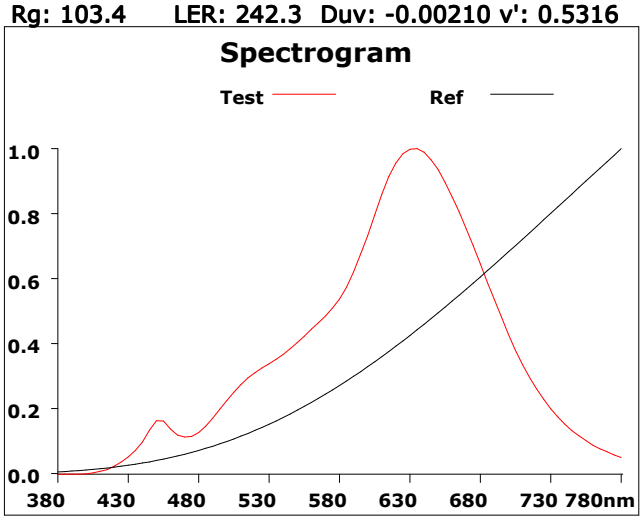
Electrical parameters:

Effic: 19.7 Lm/W	Energy: 21.5	Effi: G	
U: 220.9 V	I: 0.904 A	P: 191.100 W	Pf: 0.957

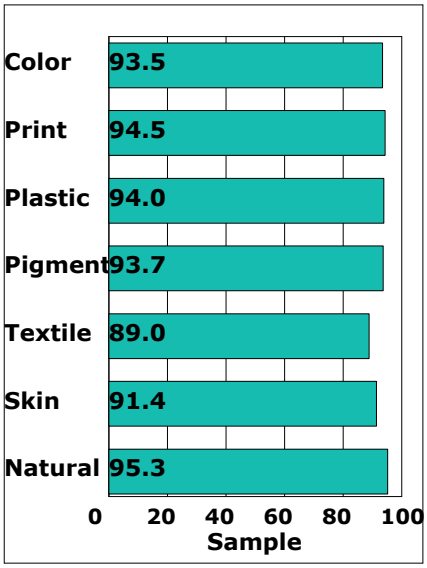
Product model:
Product number:
Tester:
Remarks:

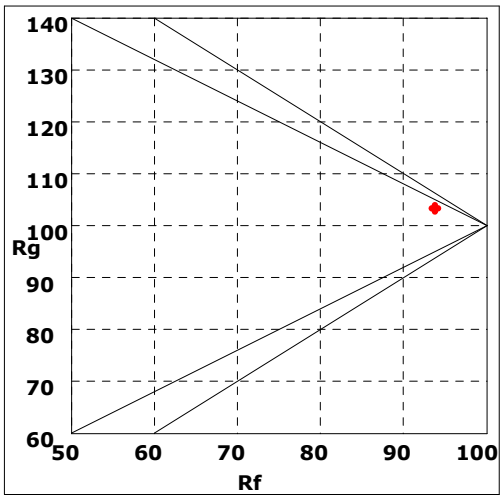
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

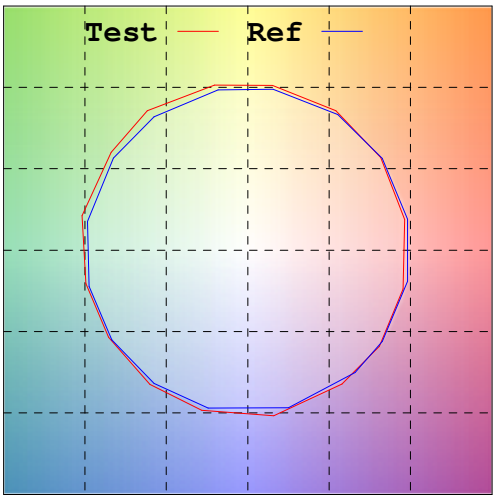
Rf: 93.8 CCT: 2288K u': 0.2847
Rg: 103.4 LER: 242.3 Duv: -0.00210 v': 0.5316



		500	
Hue Bin	Rf	Chroma	Hue
1	95.3	-1.8%	-0.0%
2	96.0	-0.4%	1.0%
3	93.0	1.3%	2.2%
4	95.3	2.3%	0.8%
5	95.2	3.3%	1.7%
6	91.7	5.4%	1.4%
7	93.1	3.1%	-2.4%
8	92.3	4.0%	-2.7%
9	94.6	1.6%	-2.2%
10	95.3	0.7%	-2.3%
11	95.3	2.0%	-1.8%
12	92.3	2.0%	-3.6%
13	88.3	3.1%	-9.7%
14	84.8	1.5%	-10.7%
15	94.5	0.1%	-3.4%
16	91.5	-1.7%	-5.1%

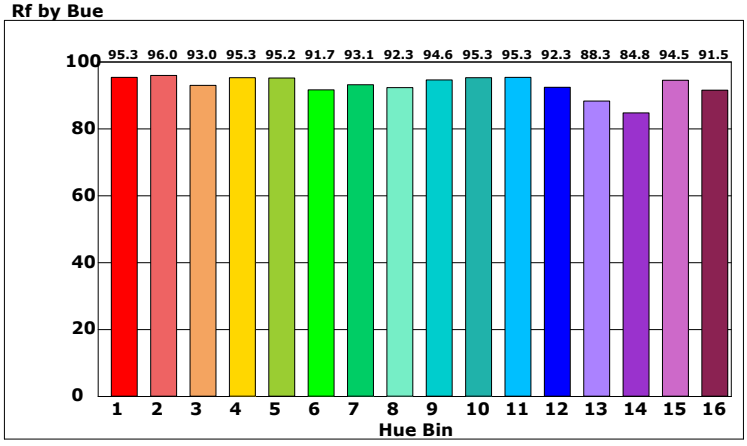




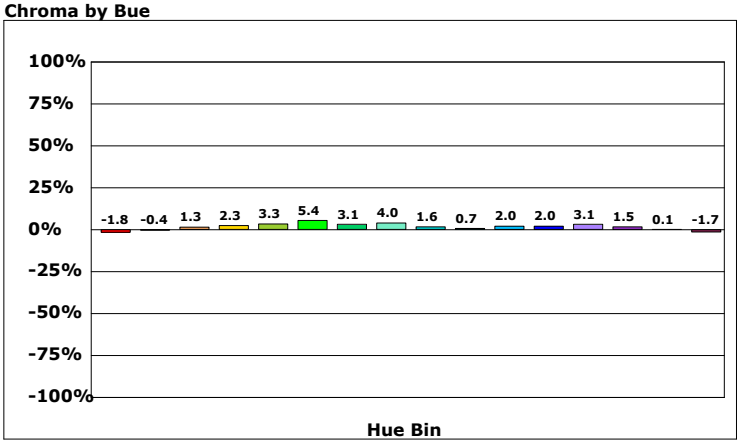




Rf by Bue

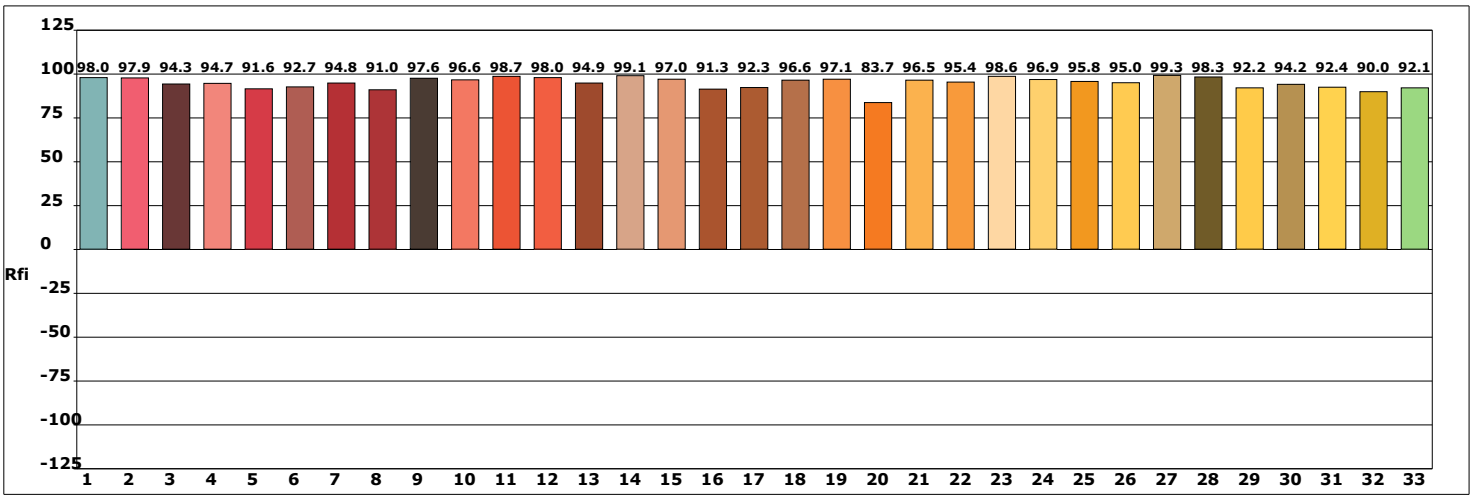


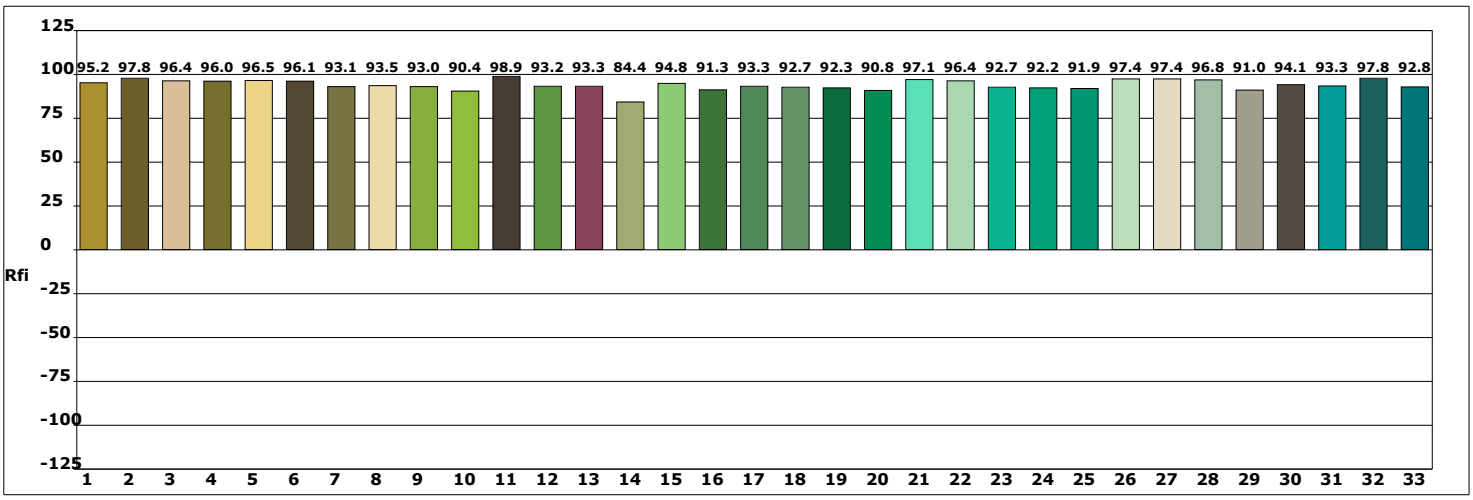
Chroma by Bue

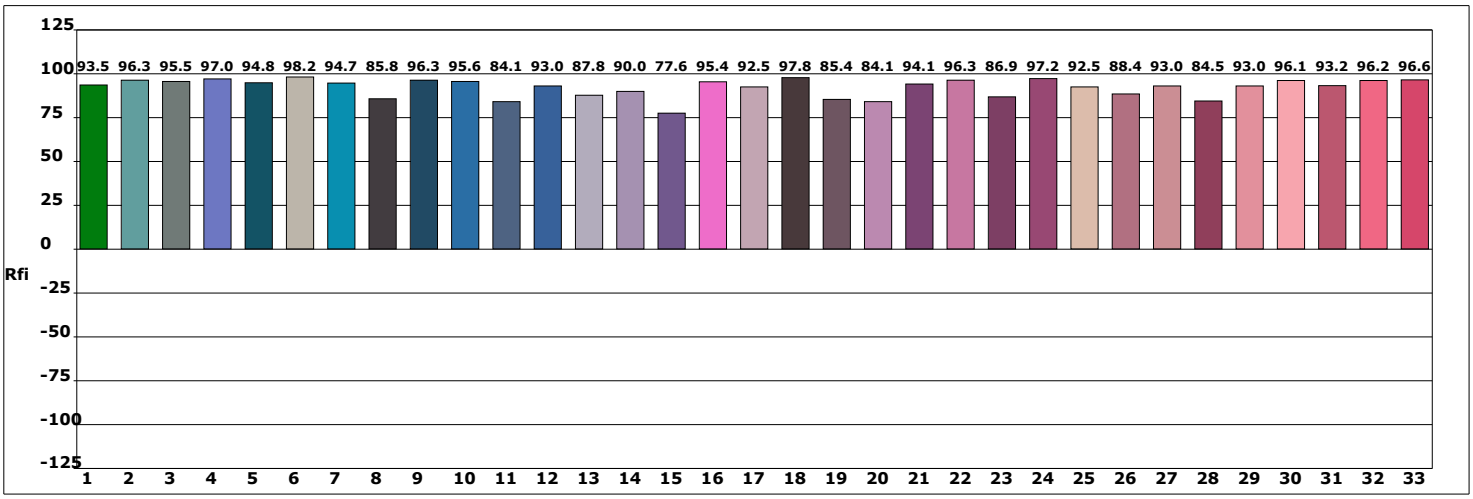


Product model:
Product number:
Tester:
Remarks:

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



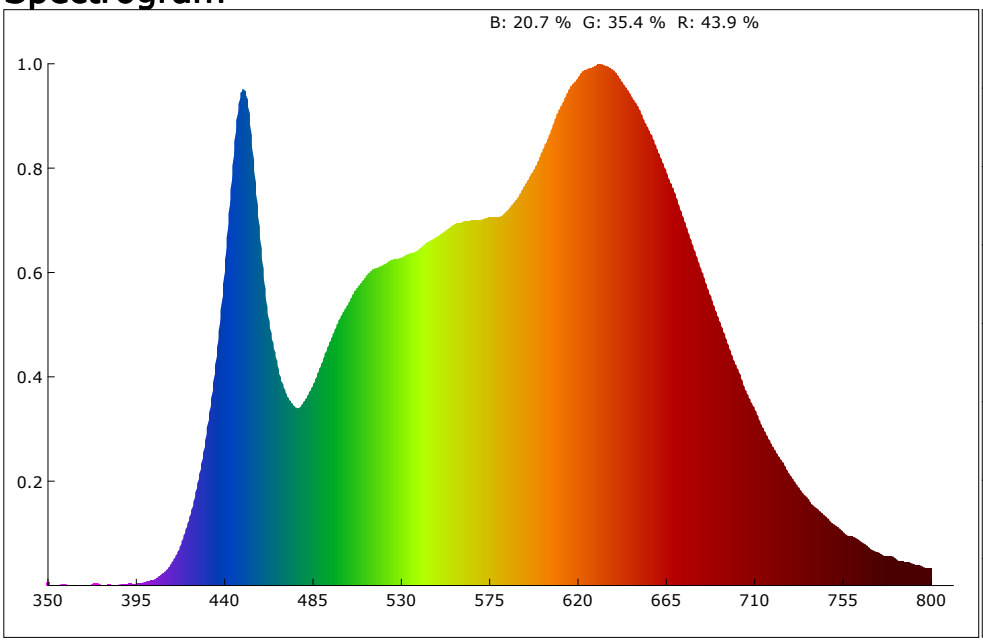




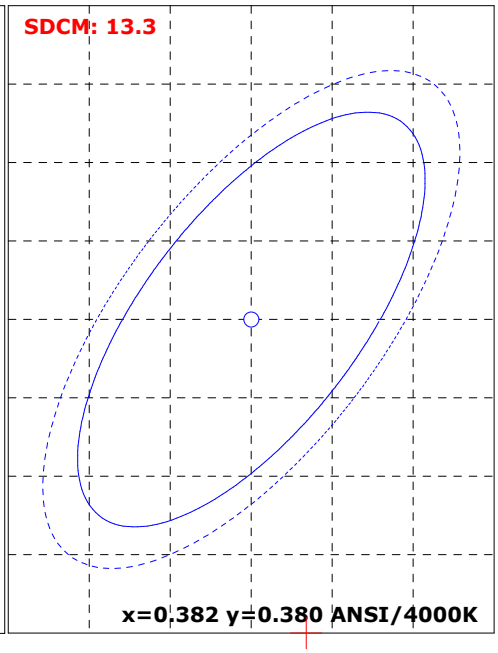
Product model:
Product number:
Tester:
Remarks:

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

Spectrogram



SDCM



Color Parameter:

x: 0.3852	y: 0.3566	u: 0.2367	v: 0.3287	u': 0.2367	v': 0.4931
R_ratio: 43.9 %	G_ratio: 35.4 %	B_ratio: 20.7 %	RedRatio: 22.4 %	GreenRatio: 74.7 %	BlueRatio: 2.9 %

Ra: 93.1	AvgR: 91.3						
R1: 91.2	R2: 94.8	R3: 95.7	R4: 90.3	R5: 91.9	R6: 92.9	R7: 96.7	R8: 91.3
R9: 78.7	R10: 91.6	R11: 87.0	R12: 89.6	R13: 91.6	R14: 96.7	R15: 88.8	

CCT: 3703 K	Flux: 4669.393 lm	PeakWave: 631.5 nm	SDCM: 13.3
S/P: 1.8	CentralWave: 595.0 nm	DominantWave: 587.9 nm	CentroidWave: 585.6 nm
HalfWidth: 194.7 nm	duv: -0.01106	purity: 22.6 %	CQS: 84.9
LER(TM-30): 251.5	Ep: 18563.3 mw	Rg: 106.7	Rf: 92.6
Red Ep: 7522.8 mw	Near red Ep: 1337.6 mw	Near infrared Ep: 82.5 mw	

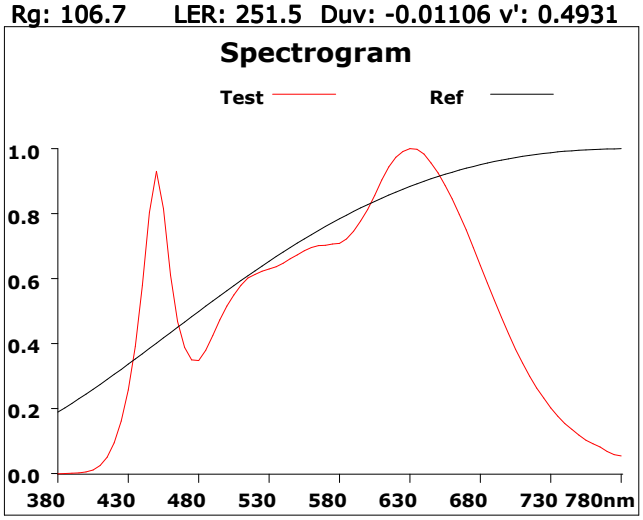
Electrical parameters:

Effic: 24.1 Lm/W	Energy: 26.2	Effi: G	
U: 221.1 V	I: 0.916 A	P: 194.000 W	Pf: 0.958

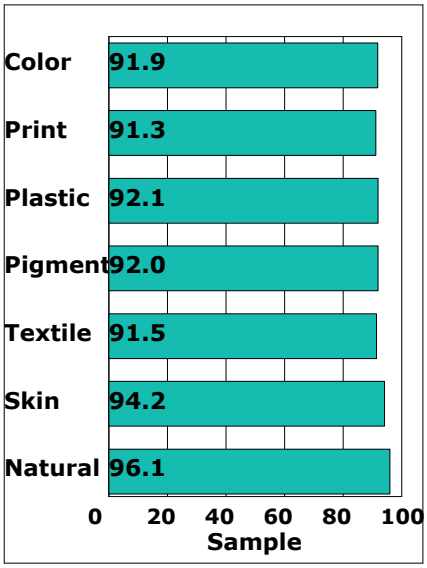
Product model:
Product number:
Tester:
Remarks:

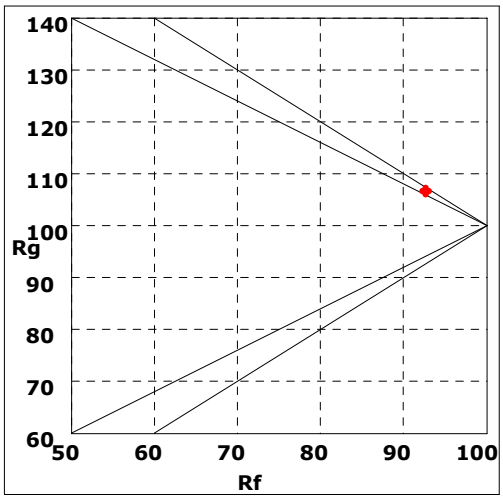
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

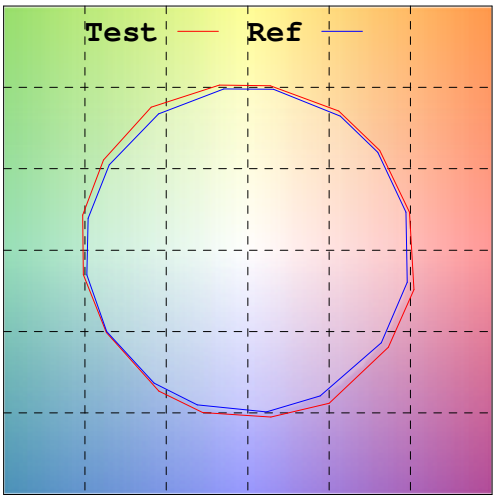
Rf: 92.6 CCT: 3703K u': 0.2367
Rg: 106.7 LER: 251.5 Duv: -0.01106 v': 0.4931

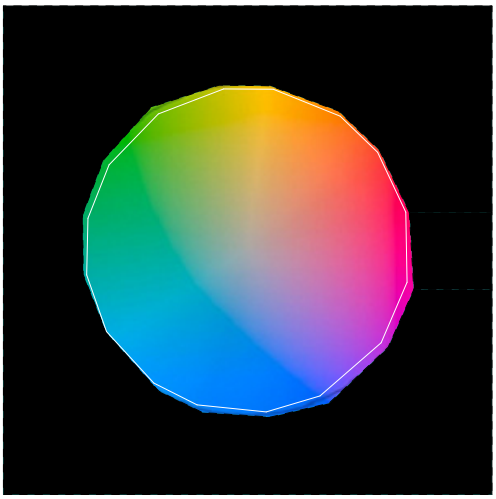


		500	
Hue Bin	Rf	Chroma	Hue
1	94.6	2.1%	-0.5%
2	95.5	1.6%	0.2%
3	92.7	2.2%	2.5%
4	94.1	1.8%	2.3%
5	91.9	2.9%	2.4%
6	90.4	6.0%	1.5%
7	92.4	4.5%	-0.5%
8	92.1	3.6%	-1.2%
9	94.5	2.1%	-0.7%
10	96.1	0.4%	0.3%
11	90.6	2.2%	5.2%
12	89.0	3.9%	4.3%
13	93.9	3.7%	2.0%
14	90.6	6.8%	2.1%
15	91.3	5.0%	0.1%
16	89.3	4.8%	-3.5%

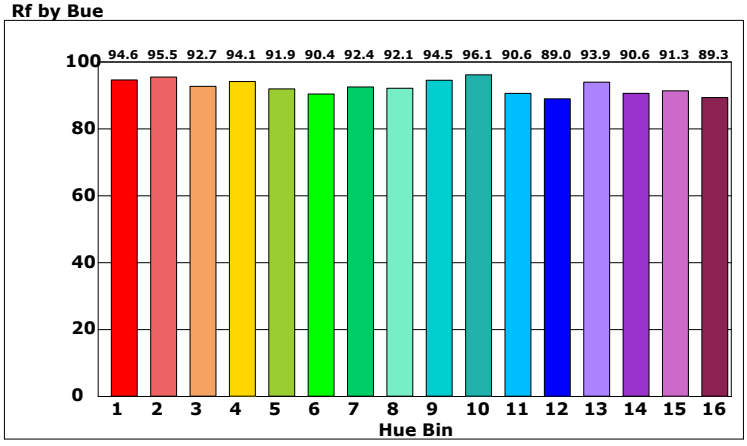




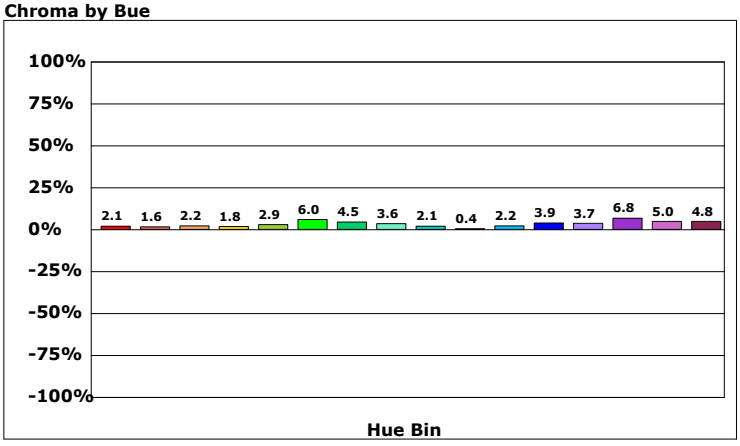




Rf by Bue

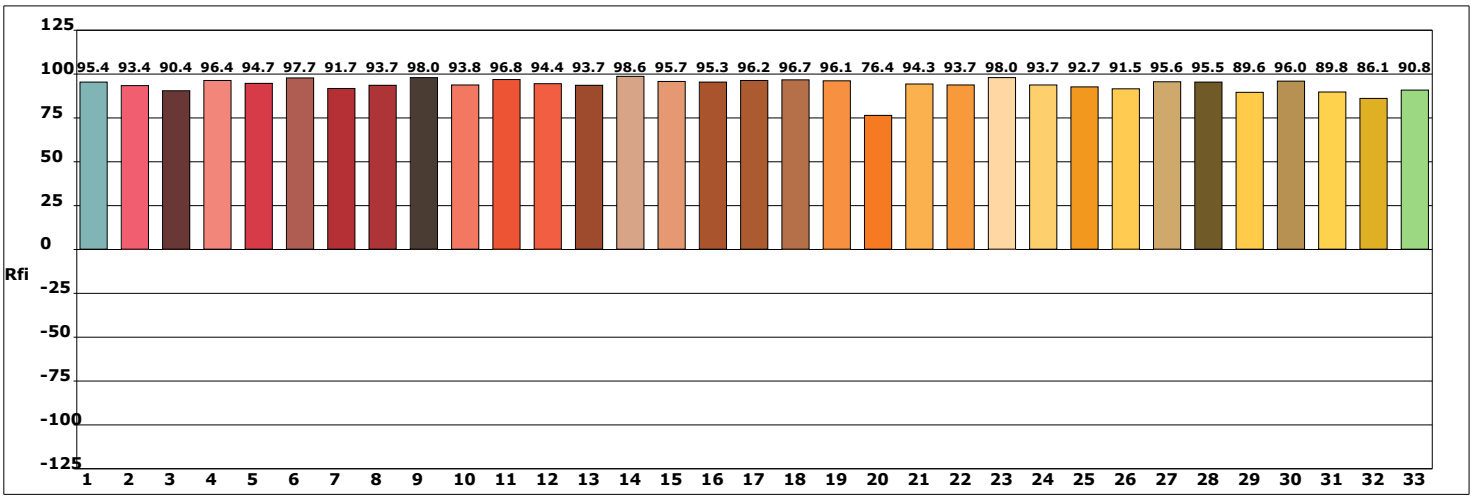


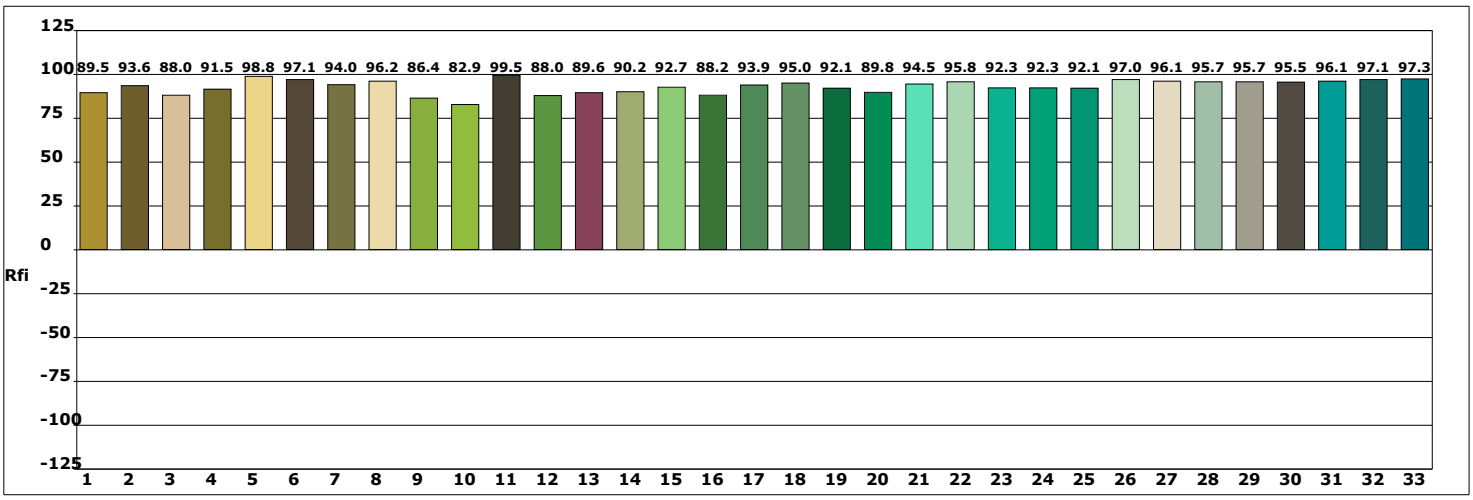
Chroma by Bue

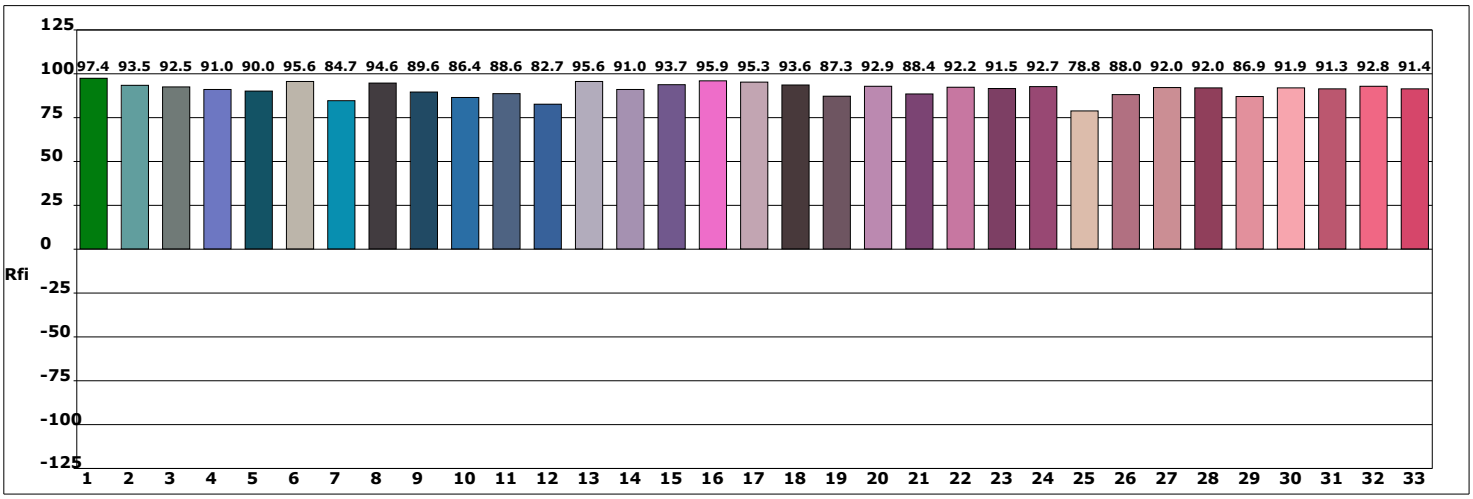


Product model:
Product number:
Tester:
Remarks:

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



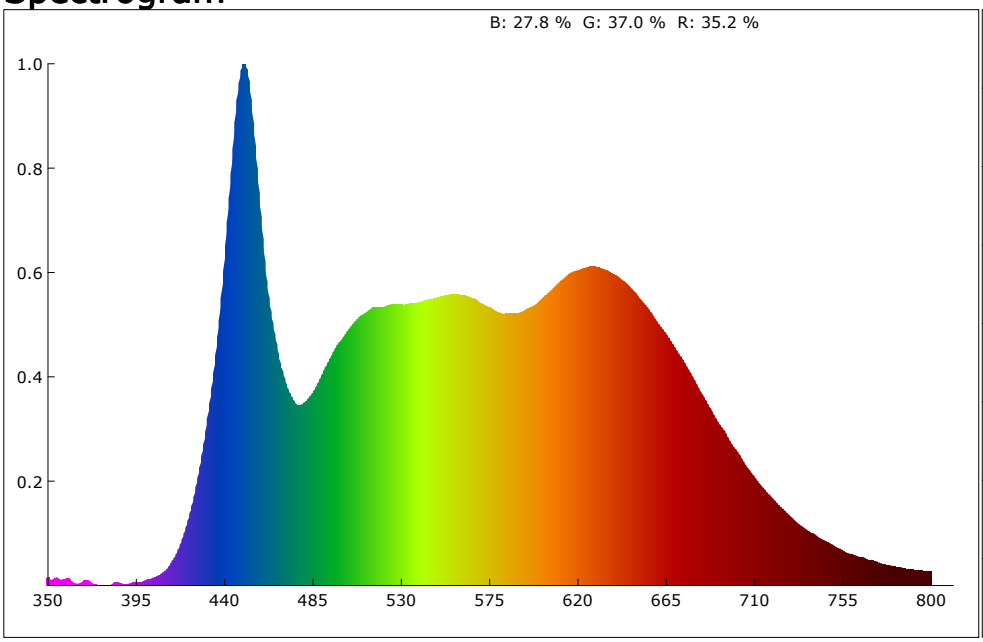




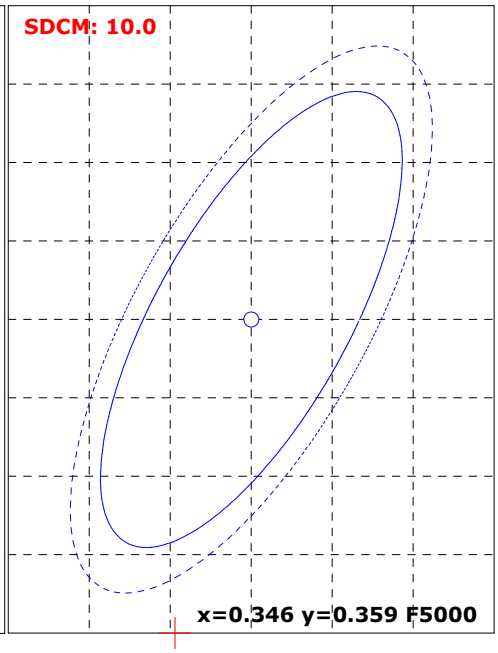
Product model:
Product number:
Tester:
Remarks:

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

Spectrogram



SDCM



Color Parameter:

x: 0.3403	y: 0.3330	u: 0.2155	v: 0.3164	u': 0.2155	v': 0.4746
R_ratio: 35.2 %	G_ratio: 37.0 %	B_ratio: 27.8 %	RedRatio: 18.3 %	GreenRatio: 77.9 %	BlueRatio: 3.9 %

Ra: 93.6 AvgR: 91.9

R1: 93.1	R2: 96.4	R3: 92.7	R4: 91.2	R5: 94.8	R6: 94.3	R7: 95.3	R8: 91.2
R9: 78.8	R10: 94.9	R11: 89.1	R12: 87.3	R13: 93.8	R14: 95.2	R15: 90.0	

CCT: 5137 K	Flux: 5041.798 lm	PeakWave: 450.6 nm	SDCM: 10.0
S/P: 2.1	CentralWave: 451.2 nm	DominantWave: 615.5 nm	CentroidWave: 568.5 nm
HalfWidth: 27.0 nm	duv: -0.00765	purity: 2.0 %	CQS: 87.7
LER(TM-30): 254.3	Ep: 19824.9 mw	Rg: 105.7	Rf: 91.7
Red Ep: 6509.3 mw	Near red Ep: 1187.8 mw	Near infrared Ep: 86.4 mw	

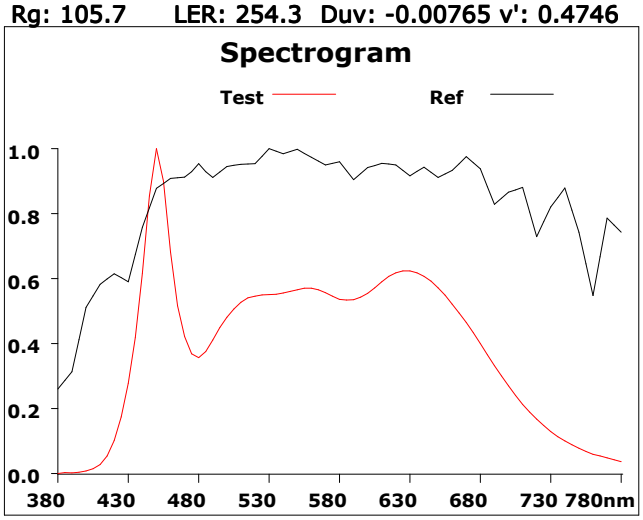
Electrical parameters:

Effic: 26.5 Lm/W	Energy: 28.9	Effi: G	
U: 221.2 V	I: 0.899 A	P: 190.200 W	Pf: 0.955

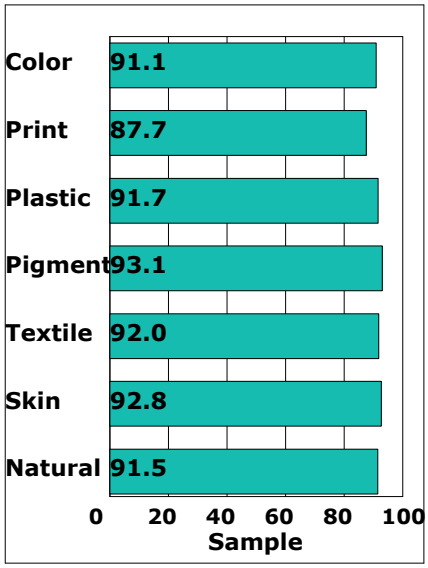
Product model:
Product number:
Tester:
Remarks:

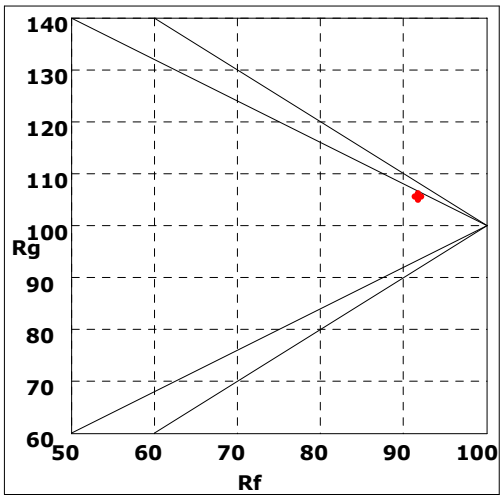
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

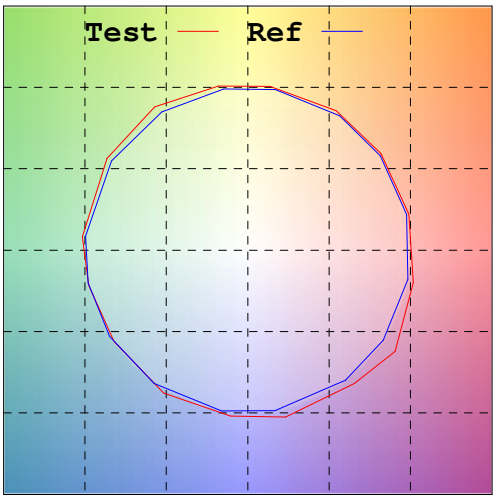
Rf: 91.7 CCT: 5137K u': 0.2155
Rg: 105.7 LER: 254.3 Duv: -0.00765 v': 0.4746

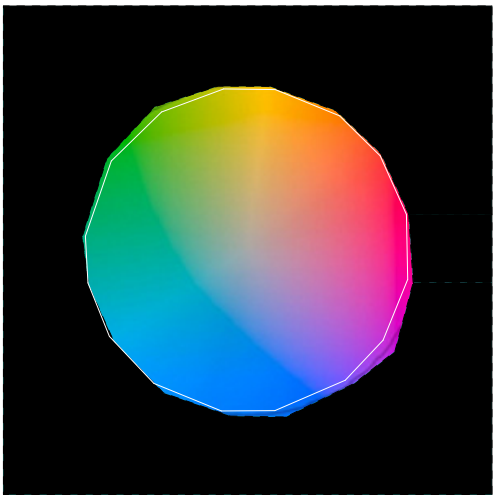


		500	
Hue Bin	Rf	Chroma	Hue
1	94.2	1.5%	-0.2%
2	95.4	1.0%	0.9%
3	91.3	1.4%	3.5%
4	92.4	1.4%	3.6%
5	91.5	2.4%	3.0%
6	91.6	4.9%	1.7%
7	94.5	3.1%	0.2%
8	94.7	1.8%	0.6%
9	94.8	0.0%	1.5%
10	91.5	-0.5%	4.2%
11	84.9	1.7%	8.2%
12	89.5	2.1%	6.2%
13	90.8	5.1%	5.5%
14	89.4	4.7%	3.5%
15	87.7	9.8%	-1.6%
16	92.3	3.7%	-1.3%

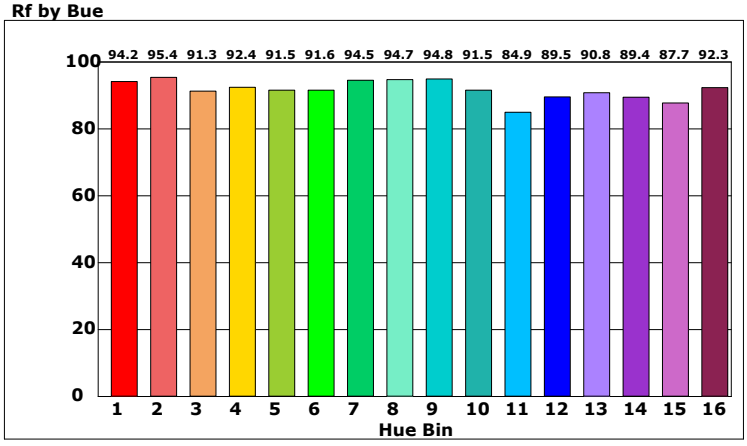




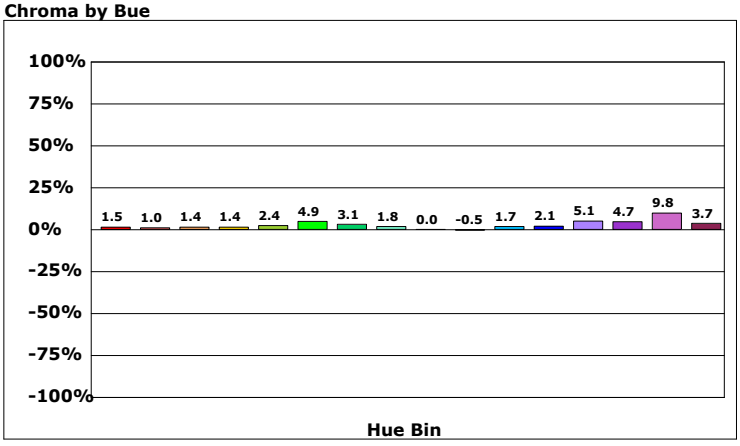




Rf by Bue

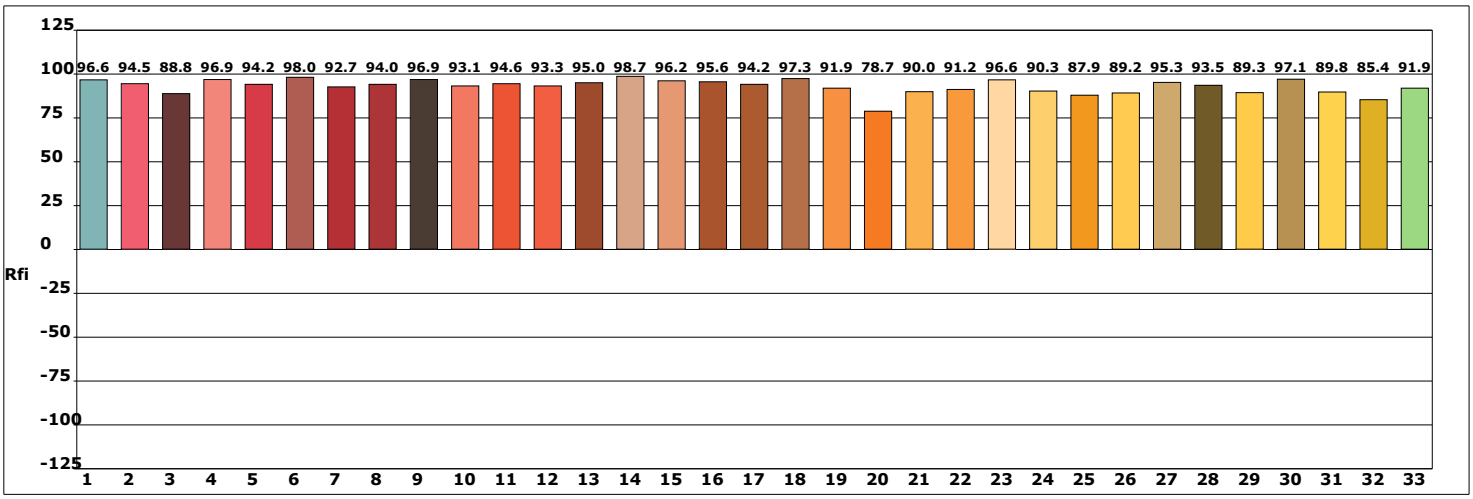


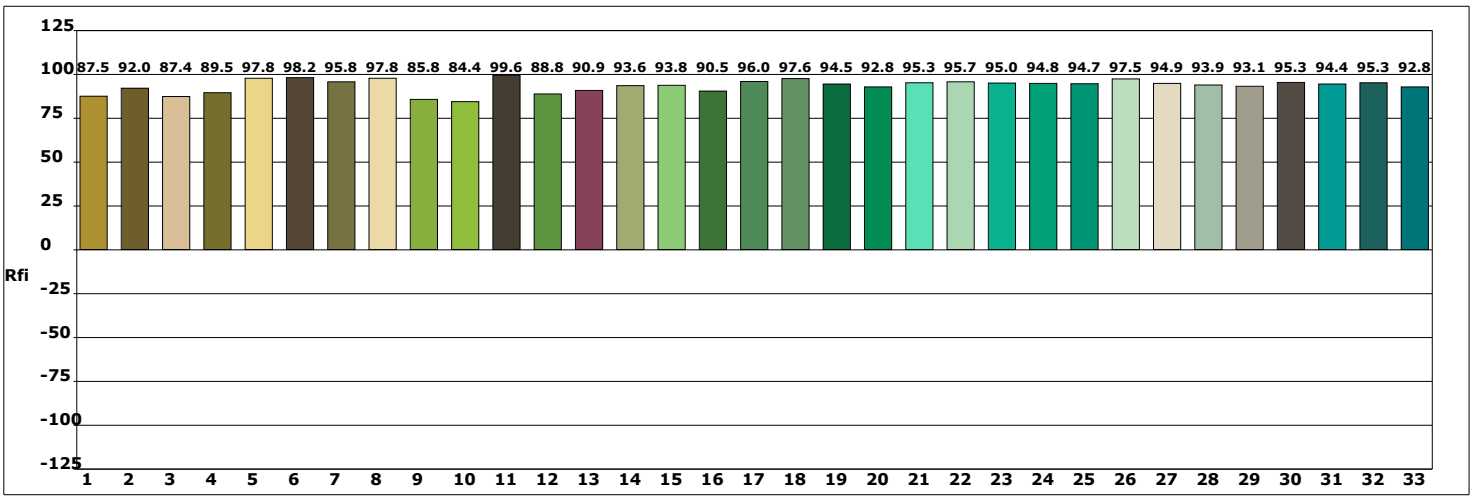
Chroma by Bue

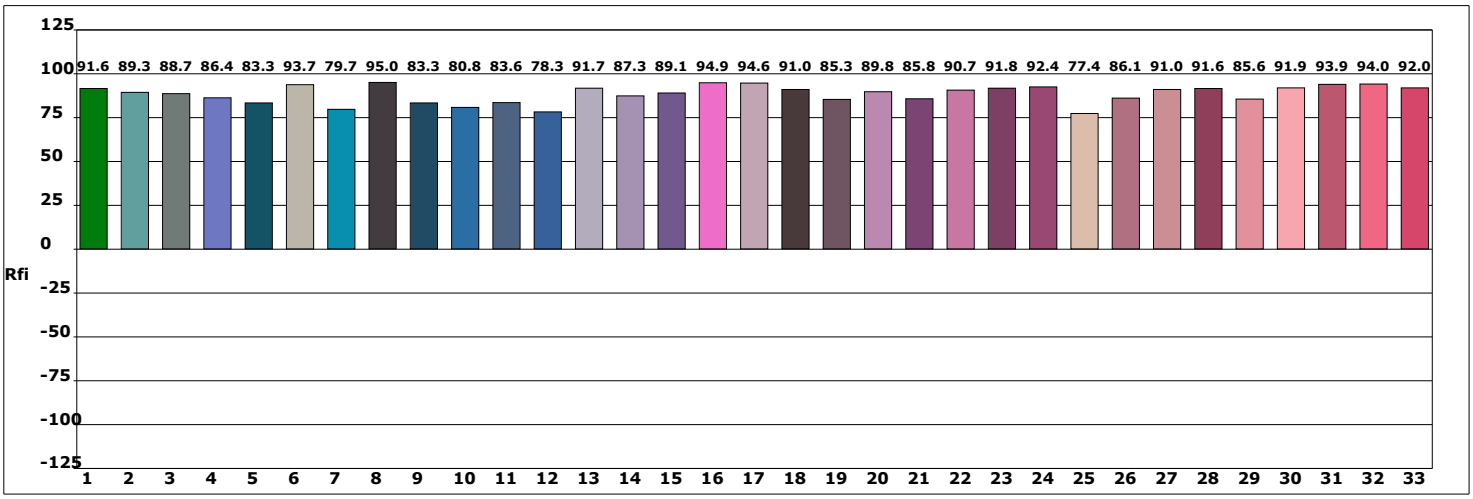


Product model:
Product number:
Tester:
Remarks:

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



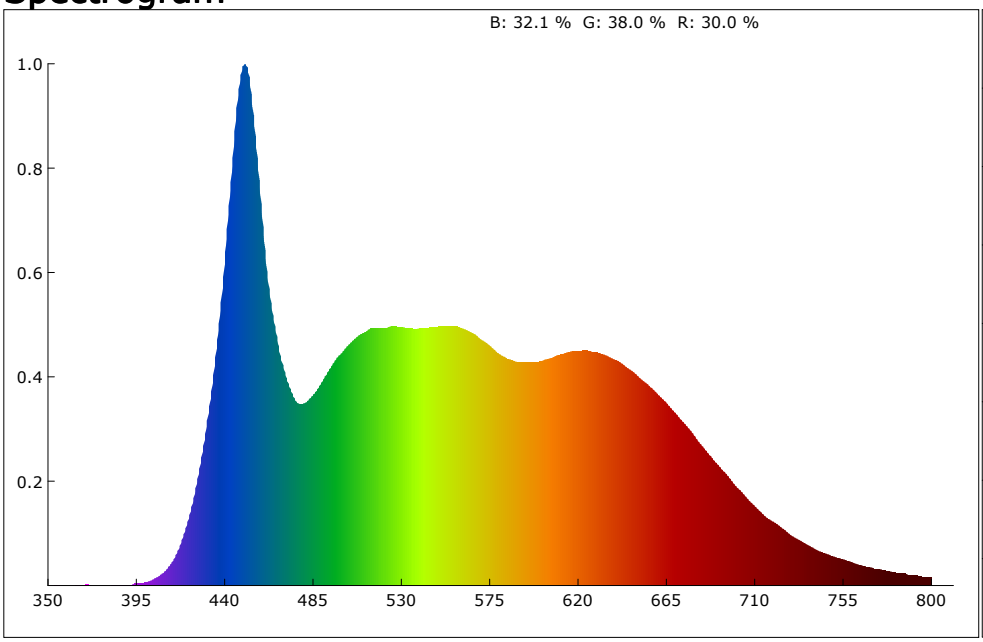




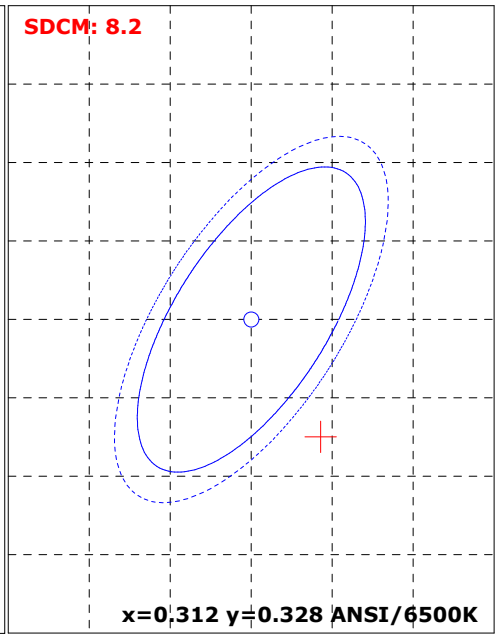
Product model:
Product number:
Tester:
Remarks:

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

Spectrogram



SDCM



Color Parameter:

x: 0.3166	y: 0.3207	u: 0.2038	v: 0.3096	u': 0.2038	v': 0.4644
R_ratio: 30.0 %	G_ratio: 38.0 %	B_ratio: 32.1 %	RedRatio: 15.8 %	GreenRatio: 79.7 %	BlueRatio: 4.5 %

Ra: 95.6	AvgR: 94.0						
R1: 97.0	R2: 97.0	R3: 91.9	R4: 95.1	R5: 98.3	R6: 93.5	R7: 96.8	R8: 95.8
R9: 89.9	R10: 92.7	R11: 93.5	R12: 79.9	R13: 97.8	R14: 95.1	R15: 95.4	

CCT: 6344 K	Flux: 5153.896 lm	PeakWave: 450.6 nm	SDCM: 8.2
S/P: 2.3	CentralWave: 451.6 nm	DominantWave: 481.2 nm	CentroidWave: 558.3 nm
HalfWidth: 27.8 nm	duv: -0.00317	purity: 6.8 %	CQS: 90.3
LER(TM-30): 257.7	Ep: 19998.5 mw	Rg: 103.0	Rf: 92.0
Red Ep: 5662.2 mw	Near red Ep: 1026.2 mw	Near infrared Ep: 66.7 mw	

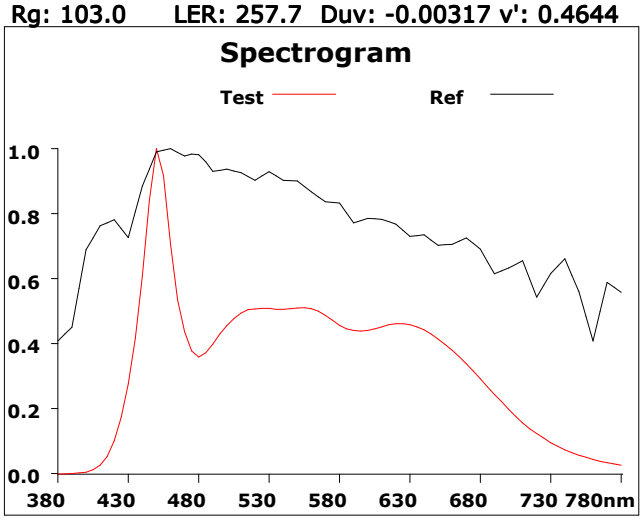
Electrical parameters:

Effic: 27.6 Lm/W	Energy: 30.1	Effi: G	
U: 221.0 V	I: 0.883 A	P: 186.400 W	Pf: 0.954

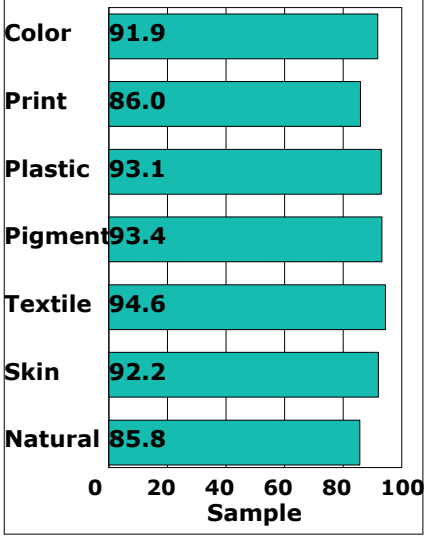
Product model:
Product number:
Tester:
Remarks:

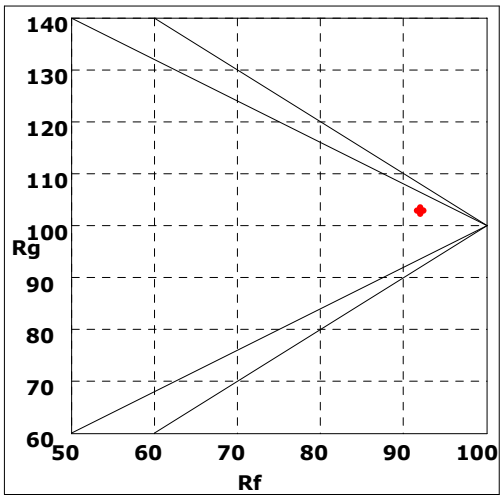
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 07/26/14

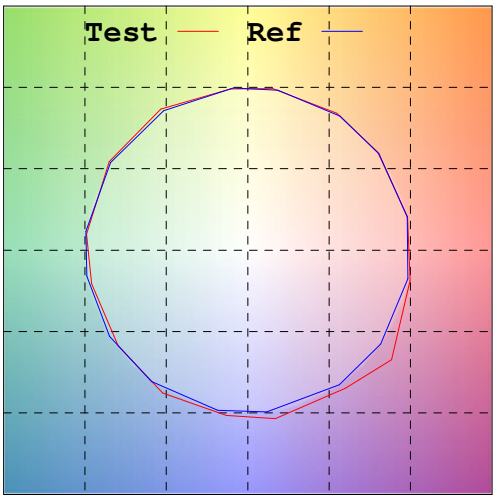
Rf: 92.0 CCT: 6344K u': 0.2038
Rg: 103.0 LER: 257.7 Duv: -0.00317 v': 0.4644

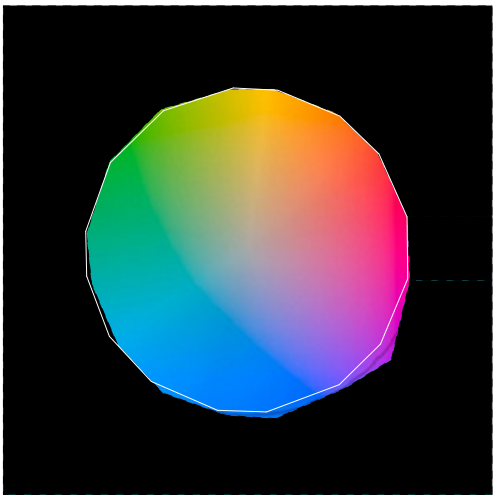


		500	
Hue Bin	Rf	Chroma	Hue
1	94.7	0.4%	-0.1%
2	96.1	-0.0%	1.1%
3	93.1	0.4%	2.5%
4	92.5	0.2%	3.1%
5	91.3	-0.3%	1.8%
6	95.6	1.8%	1.1%
7	97.3	0.8%	-0.0%
8	95.4	-0.6%	1.6%
9	92.7	-1.9%	5.2%
10	85.8	-1.1%	7.8%
11	83.0	2.0%	9.5%
12	90.1	2.1%	5.7%
13	91.6	5.1%	4.4%
14	91.8	3.9%	1.9%
15	86.0	11.0%	-4.3%
16	96.0	1.5%	-0.8%

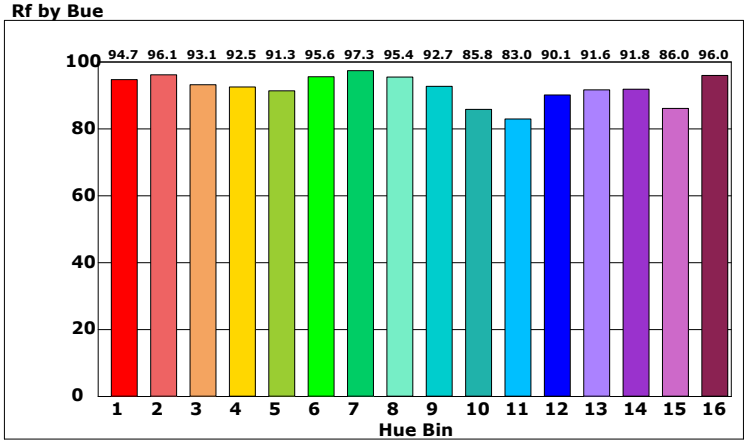




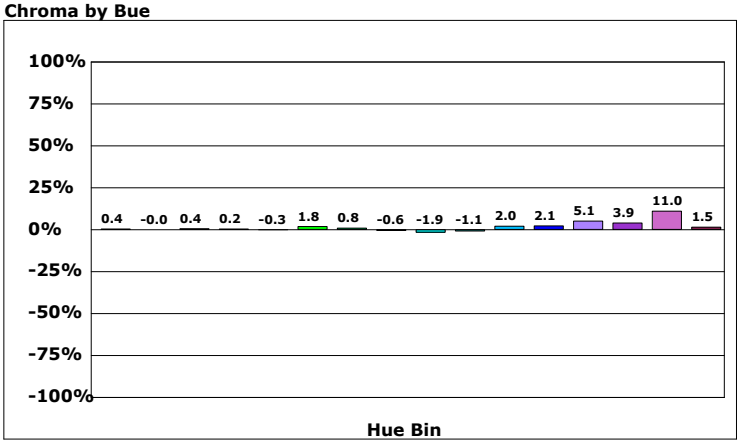




Rf by Bue

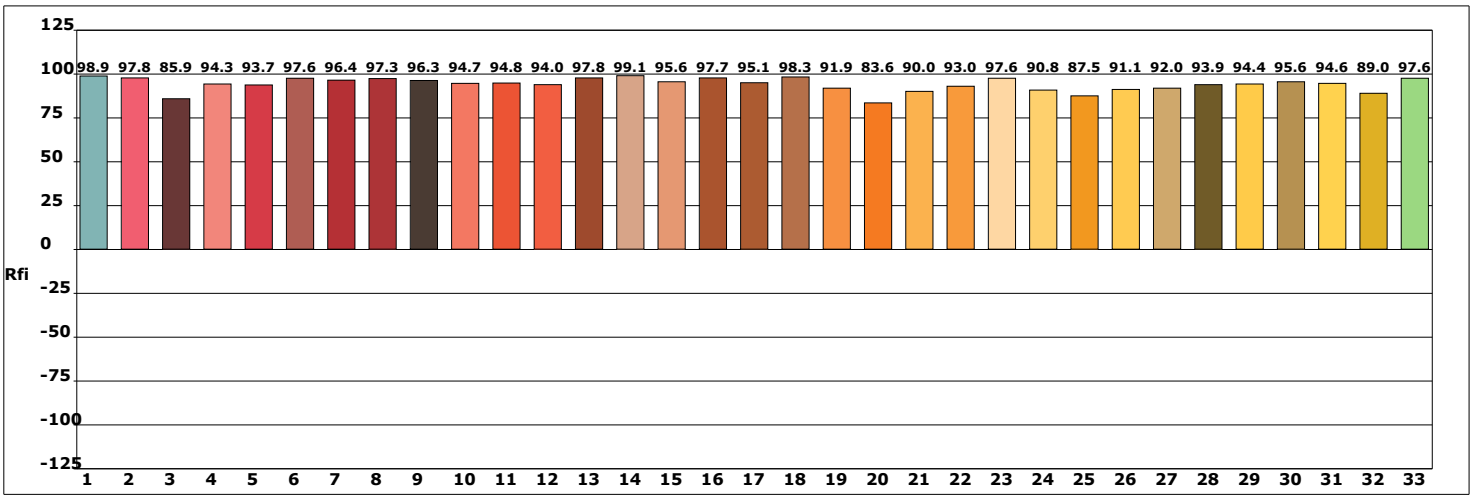


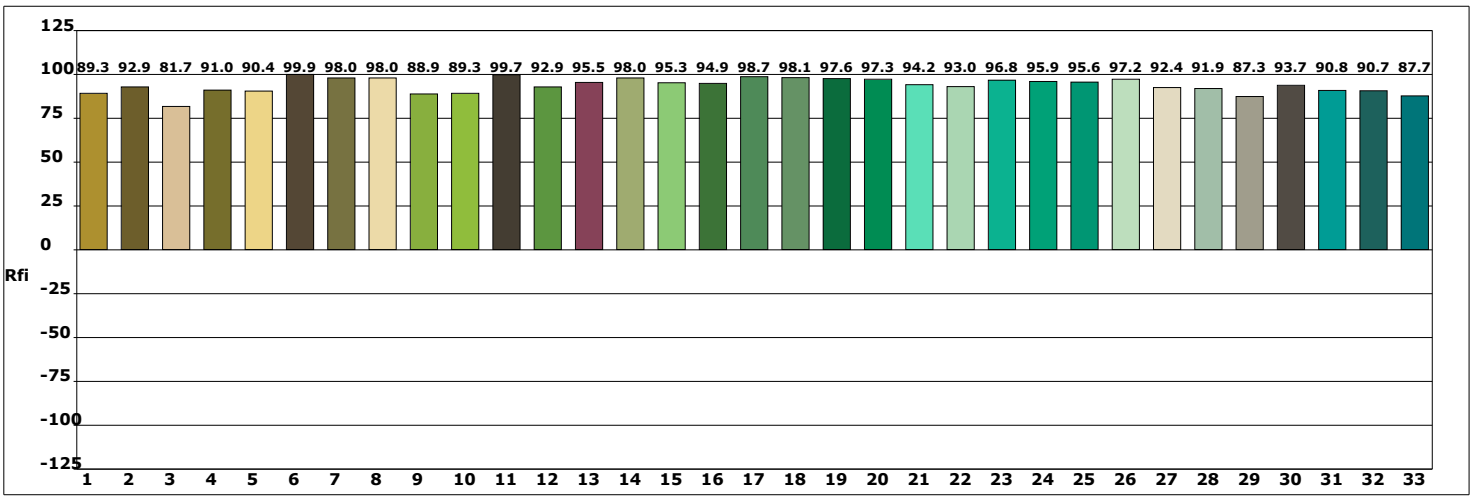
Chroma by Bue

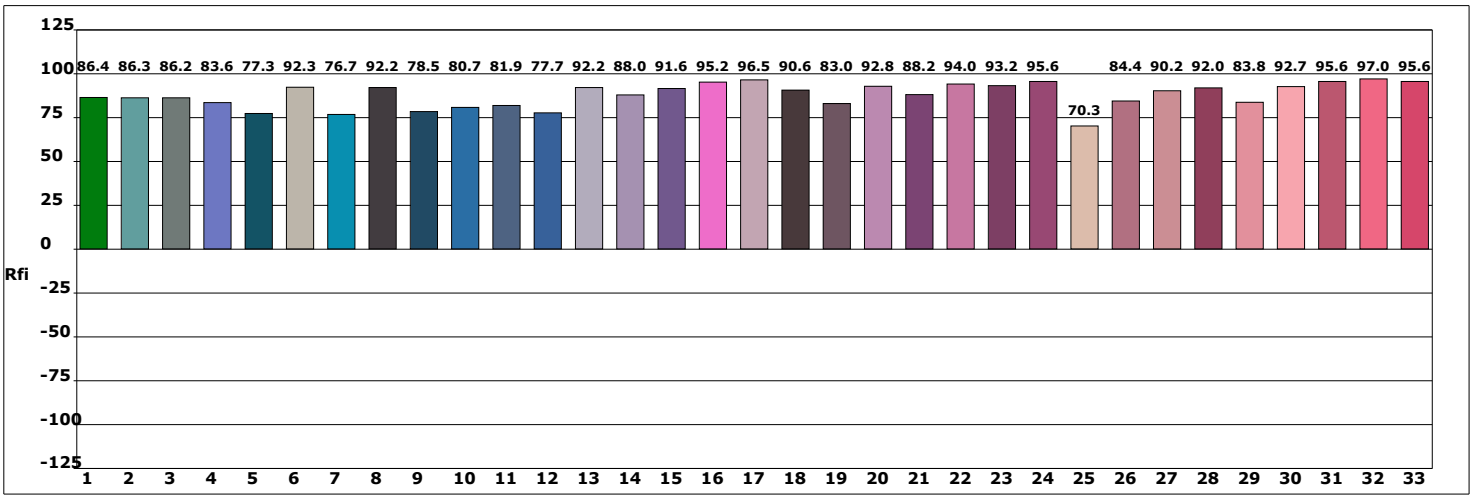


Product model:
Product number:
Tester:
Remarks:

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







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