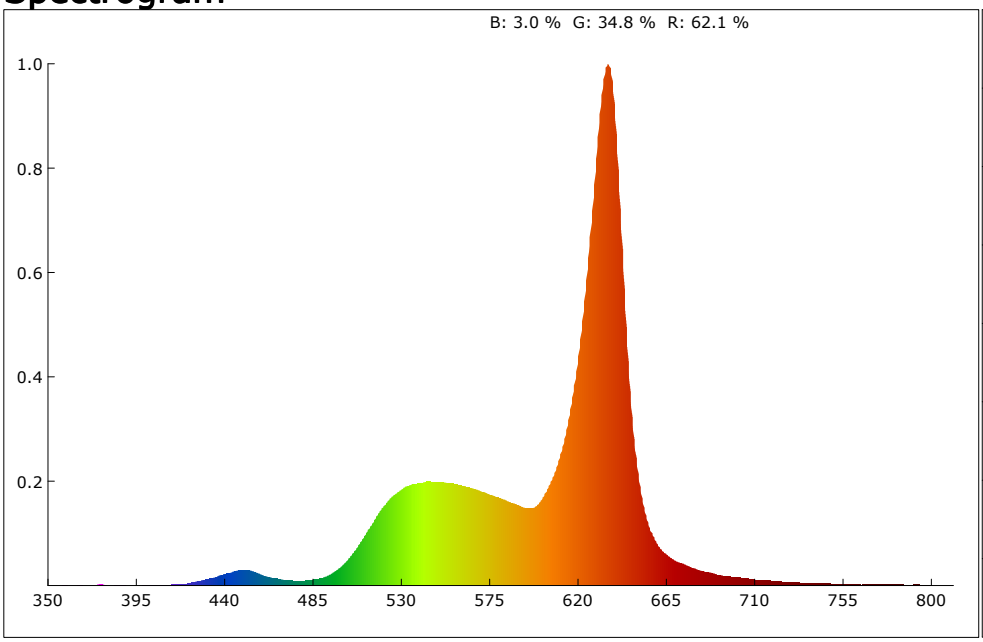
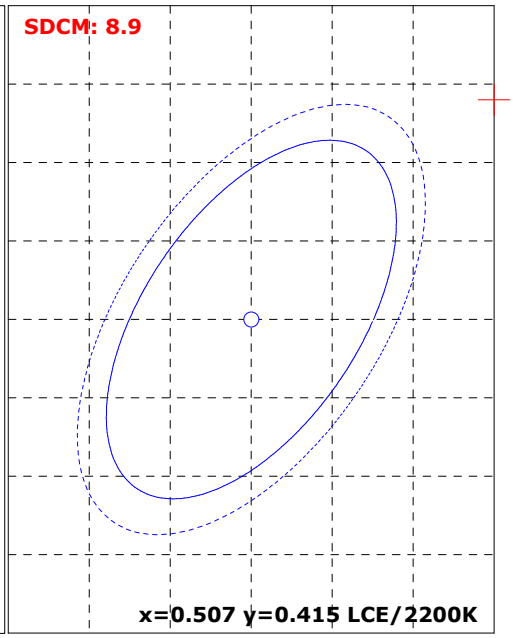
Spectrogram



SDCM



Color Parameter:

x: 0.5202	y: 0.4340	u: 0.2903	v: 0.3633	u': 0.2903	v': 0.5450
R_ratio: 62.1 %	G_ratio: 34.8 %	B_ratio: 3.0 %	RedRatio: 34.0 %	GreenRatio: 65.7 %	BlueRatio: 0.3 %

Ra: 78.2 AvgR: 75.8

R1: 77.2	R2: 98.0	R3: 65.8	R4: 69.3	R5: 81.6	R6: 97.2	R7: 78.1	R8: 58.4
R9: 36.7	R10: 89.8	R11: 64.4	R12: 85.7	R13: 82.4	R14: 76.2	R15: 76.0	

CCT: 2185 K	Flux: 1127.800 lm	PeakWave: 635.5 nm	SDCM: 8.9
S/P: 1.0	CentralWave: 633.7 nm	DominantWave: 585.8 nm	CentroidWave: 602.0 nm
HalfWidth: 22.1 nm	duv: 0.00586	purity: 86.5 %	CQS: 84.7
LER(TM-30): 310.4	Ep: 3633.2 mw	Rg: 101.9	Rf: 82.6
Red Ep: 2226.9 mw	Near red Ep: 42.3 mw	Near infrared Ep: 3.9 mw	

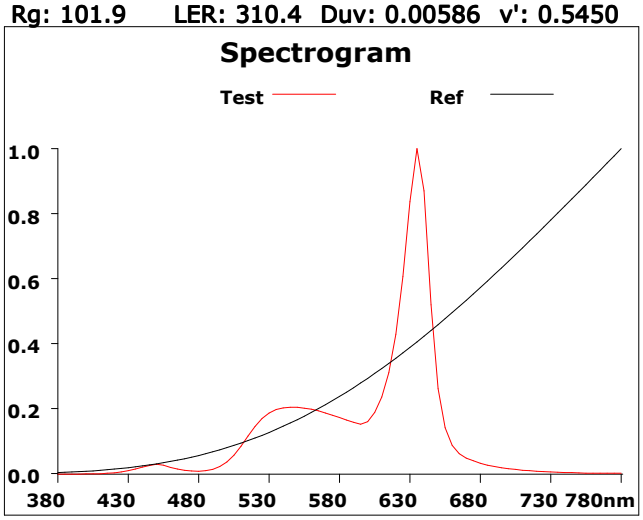
Electrical parameters:

Effic: 13.6 Lm/W	Energy: 14.8	Effi: G	
U: 221.9 V	I: 0.437 A	P: 82.820 W	Pf: 0.853

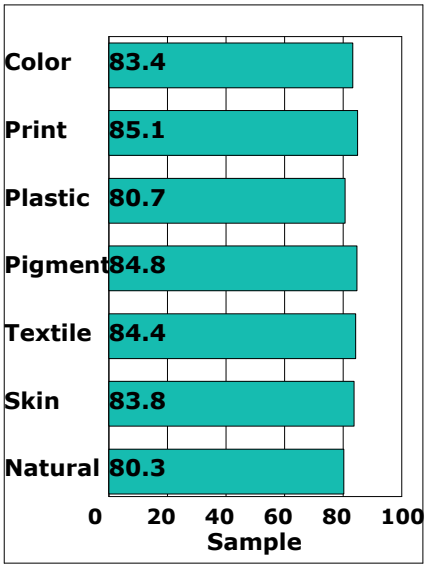
Product model:
Product number:
Tester:
Remarks:

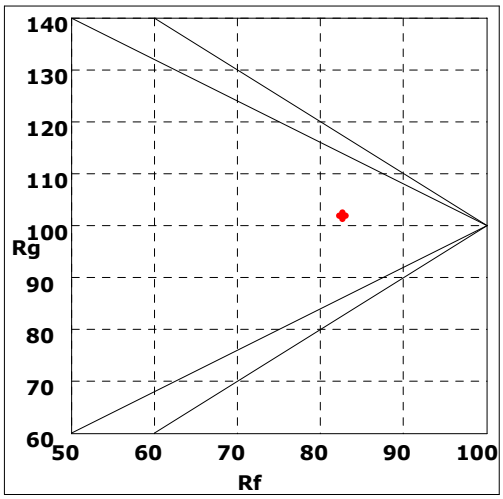
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

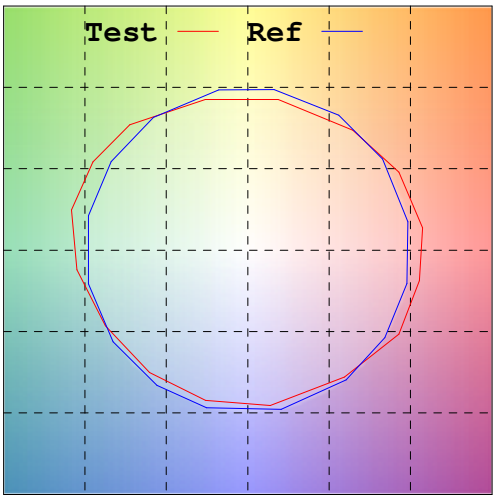
Rf: 82.6 CCT: 2185K u': 0.2903
Rg: 101.9 LER: 310.4 Duv: 0.00586 v': 0.5450



		500	
Hue Bin	Rf	Chroma	Hue
1	78.2	8.0%	-5.3%
2	75.1	3.9%	-12.4%
3	71.3	-2.9%	-12.3%
4	88.7	-5.6%	-3.7%
5	86.0	-4.2%	9.3%
6	76.7	4.2%	14.7%
7	80.5	9.0%	6.3%
8	83.6	11.0%	-1.5%
9	77.4	5.3%	-9.9%
10	80.3	-1.5%	-10.7%
11	85.3	-4.0%	-8.3%
12	90.1	-4.3%	-1.5%
13	90.2	-3.7%	-5.9%
14	88.3	-1.9%	0.2%
15	85.1	5.9%	6.7%
16	88.4	7.1%	3.3%

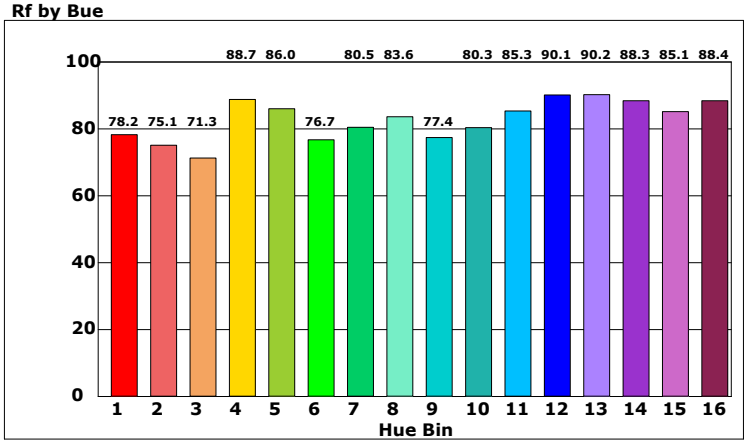




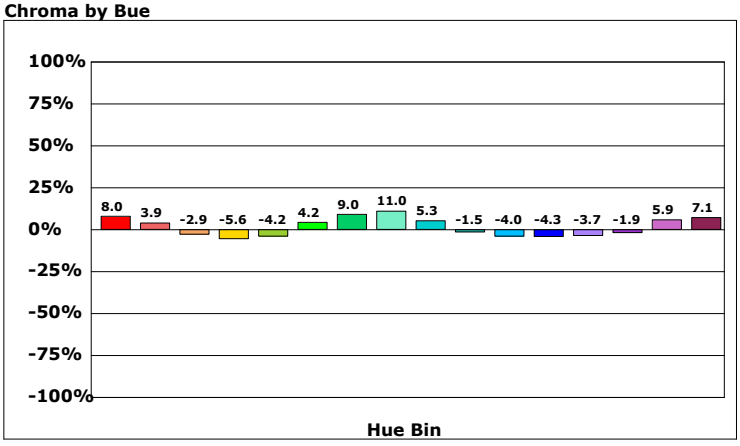




Rf by Bue

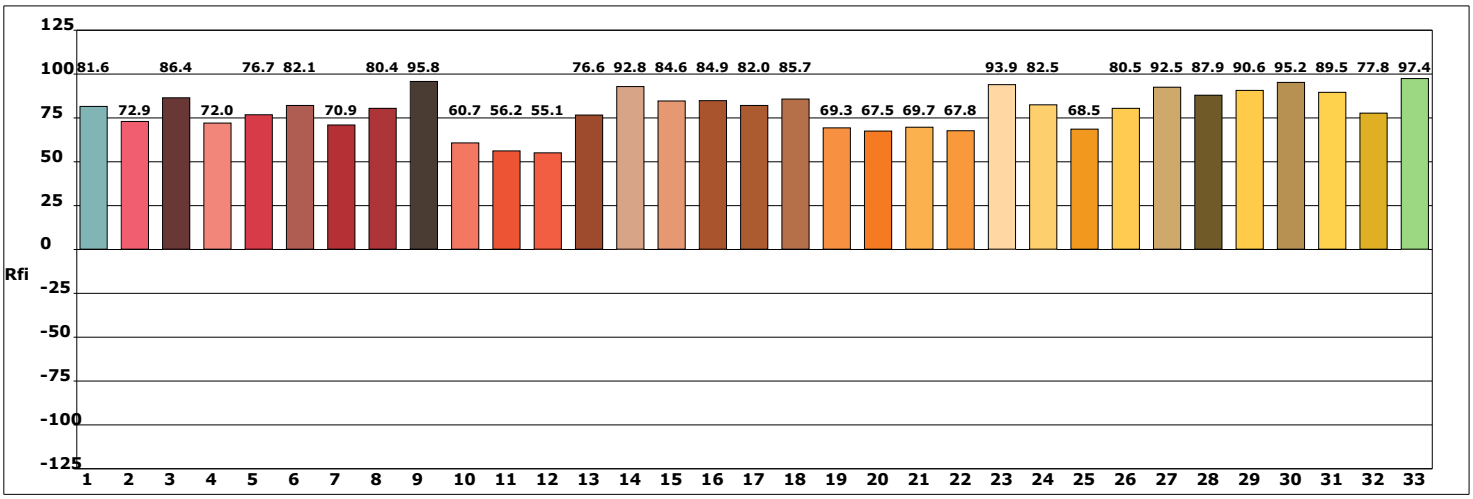


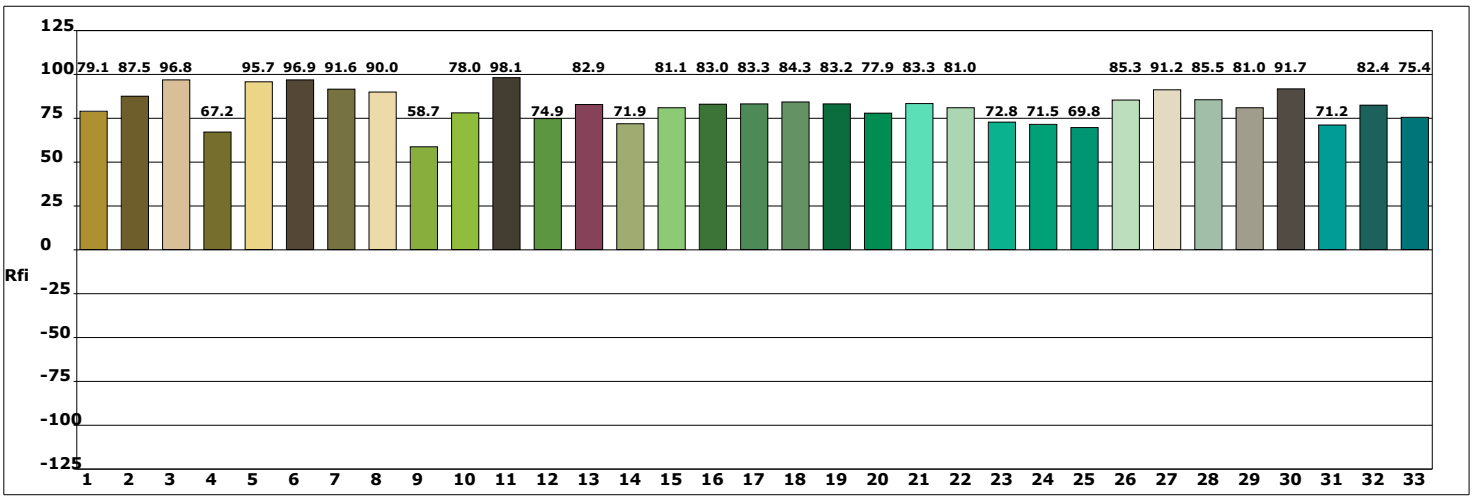
Chroma by Bue

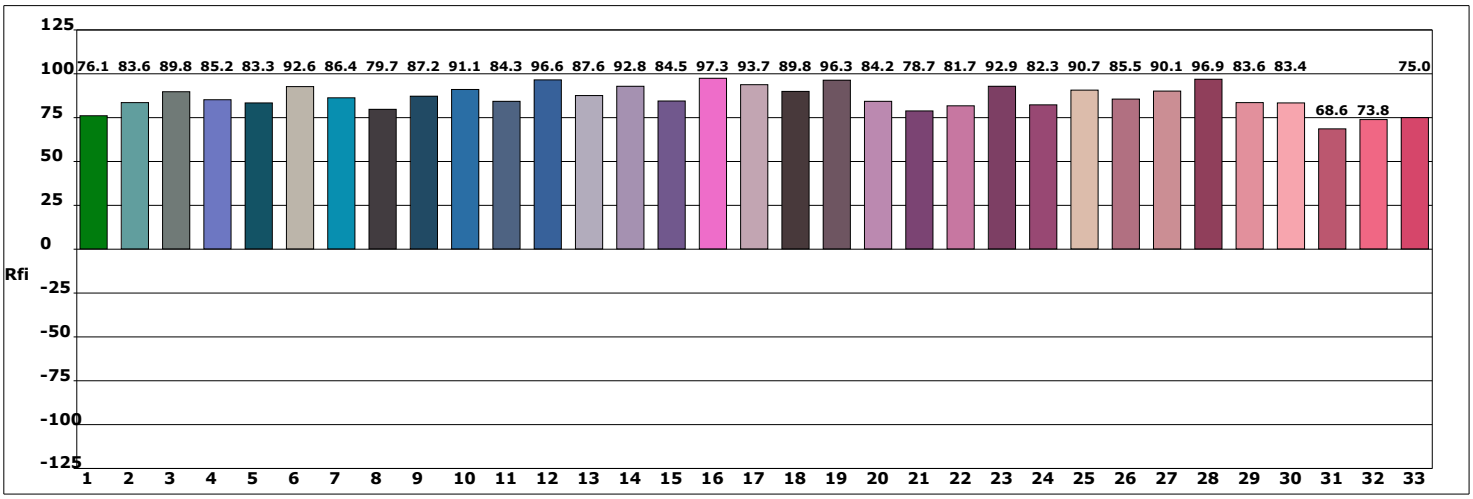


Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14



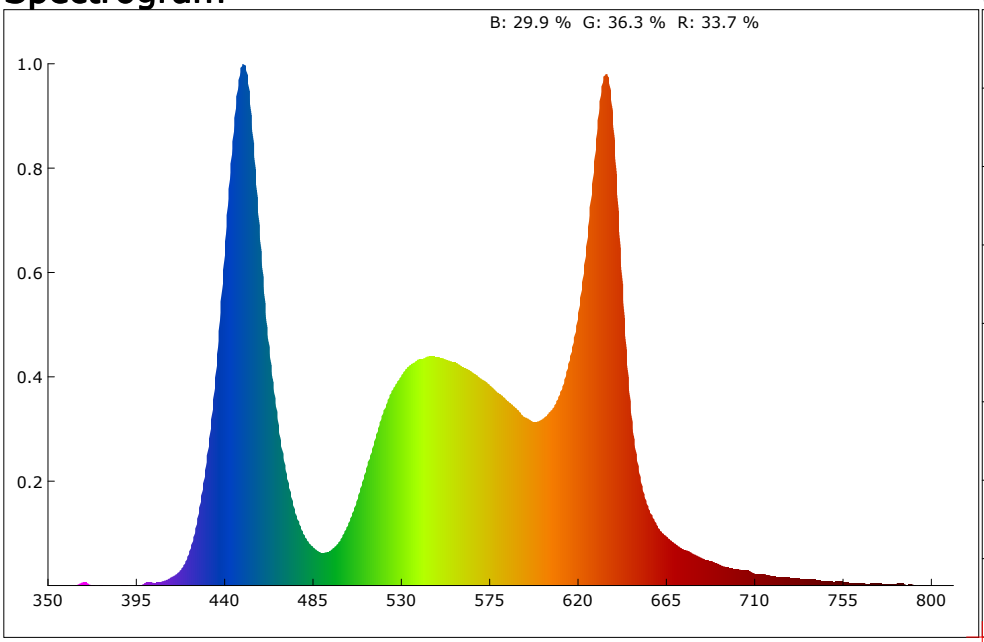




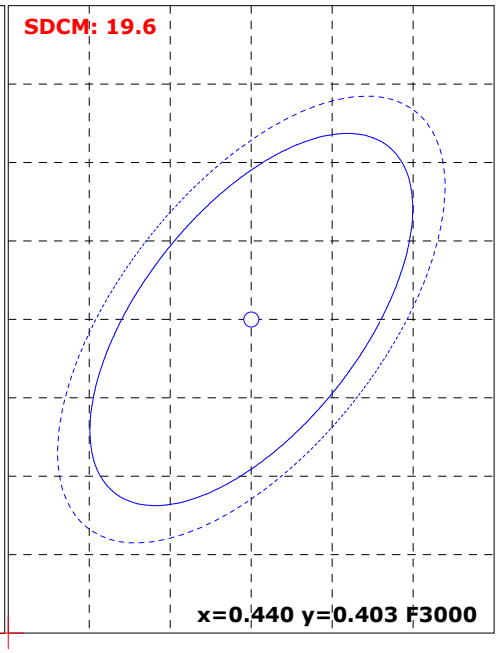
Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

Spectrogram



SDCM



Color Parameter:

x: 0.4172	y: 0.3566	u: 0.2589	v: 0.3320	u': 0.2589	v': 0.4980
R_ratio: 33.7 %	G_ratio: 36.3 %	B_ratio: 29.9 %	RedRatio: 21.3 %	GreenRatio: 75.4 %	BlueRatio: 3.3 %

Ra: -21.6 AvgR: -11.3

R1: -18.7	R2: -3.4	R3: -5.4	R4: 13.6	R5: -9.5	R6: -40.5	R7: -56.6	R8: -52.4
R9: 29.9	R10: -41.7	R11: 33.7	R12: 14.5	R13: -46.0	R14: 28.7	R15: -15.3	

CCT: 2933 K	Flux: 1139.712 lm	PeakWave: 449.6 nm	SDCM: 19.6
S/P: 1.9	CentralWave: 449.8 nm	DominantWave: 593.3 nm	CentroidWave: 551.9 nm
HalfWidth: 23.5 nm	duv: -0.01752	purity: 32.2 %	CQS: 49.5
LER(TM-30): 278.8	Ep: 4088.3 mw	Rg: 113.7	Rf: 73.7
Red Ep: 1362.0 mw	Near red Ep: 44.5 mw	Near infrared Ep: 2.1 mw	

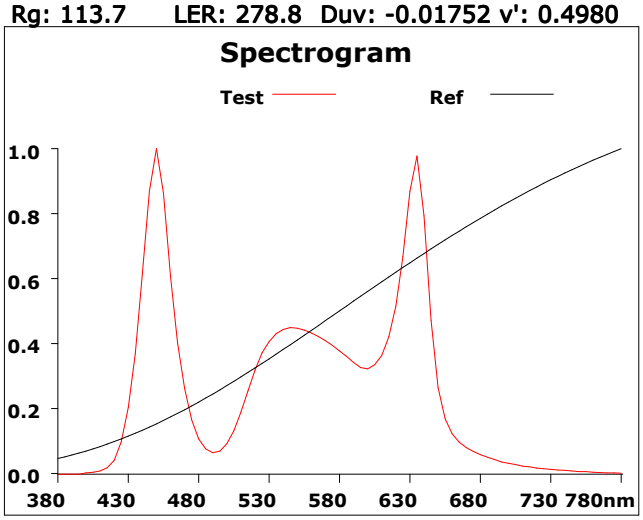
Electrical parameters:

Effic: 13.9 Lm/W	Energy: 15.1	Effi: G	
U: 222.0 V	I: 0.433 A	P: 82.140 W	Pf: 0.852

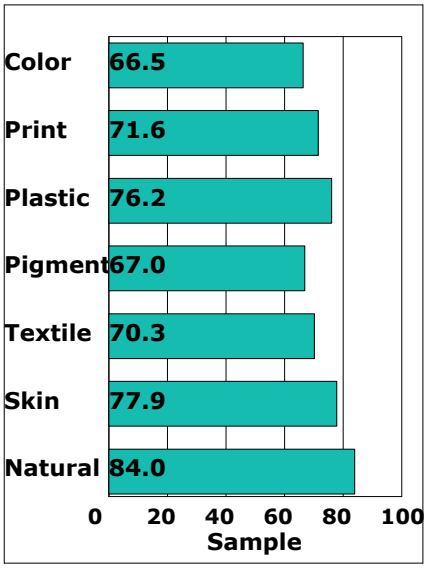
Product model:
Product number:
Tester:
Remarks:

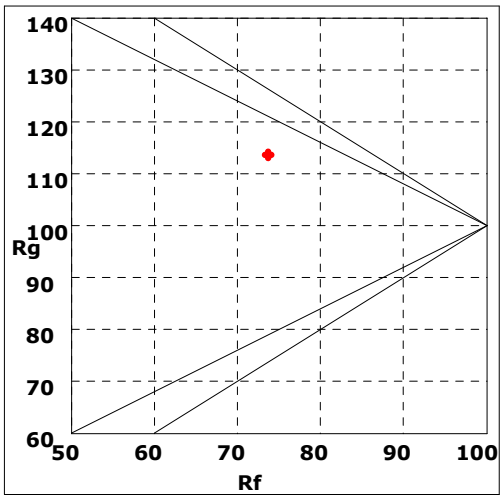
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

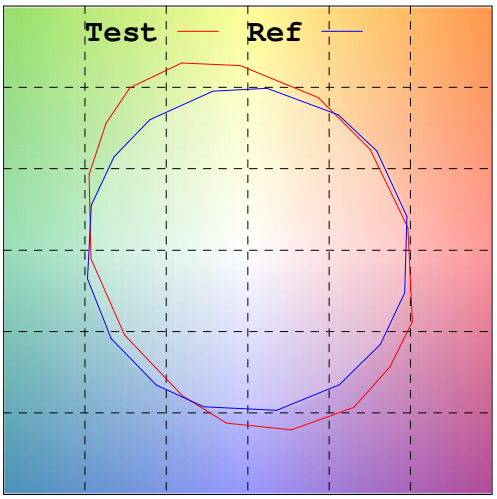
Rf: 73.7 CCT: 2933K u': 0.2589
Rg: 113.7 LER: 278.8 Duv: -0.01752 v': 0.4980

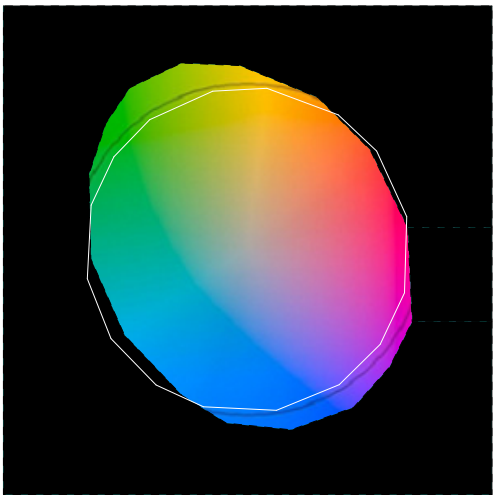


		500	
Hue Bin	Rf	Chroma	Hue
1	84.3	-0.9%	-6.6%
2	86.1	-2.9%	3.2%
3	64.7	2.0%	16.2%
4	65.7	10.6%	19.0%
5	66.4	20.6%	15.5%
6	62.1	23.2%	-0.8%
7	62.8	15.7%	-14.5%
8	67.7	4.9%	-18.4%
9	78.0	-4.6%	-11.5%
10	84.0	-8.2%	2.8%
11	73.5	-3.3%	16.8%
12	69.0	7.0%	15.5%
13	77.8	13.5%	6.6%
14	77.8	16.5%	-0.5%
15	71.6	12.6%	-8.2%
16	75.0	8.0%	-16.3%

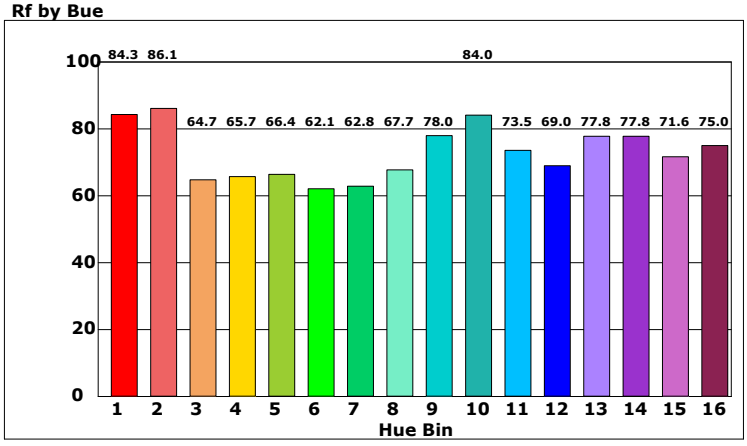




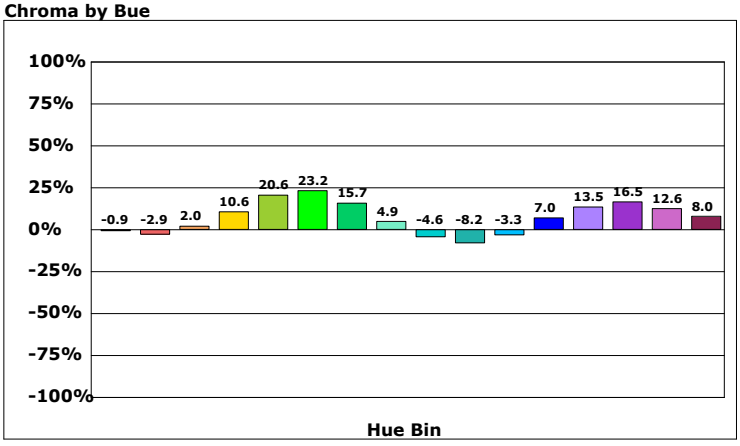




Rf by Bue

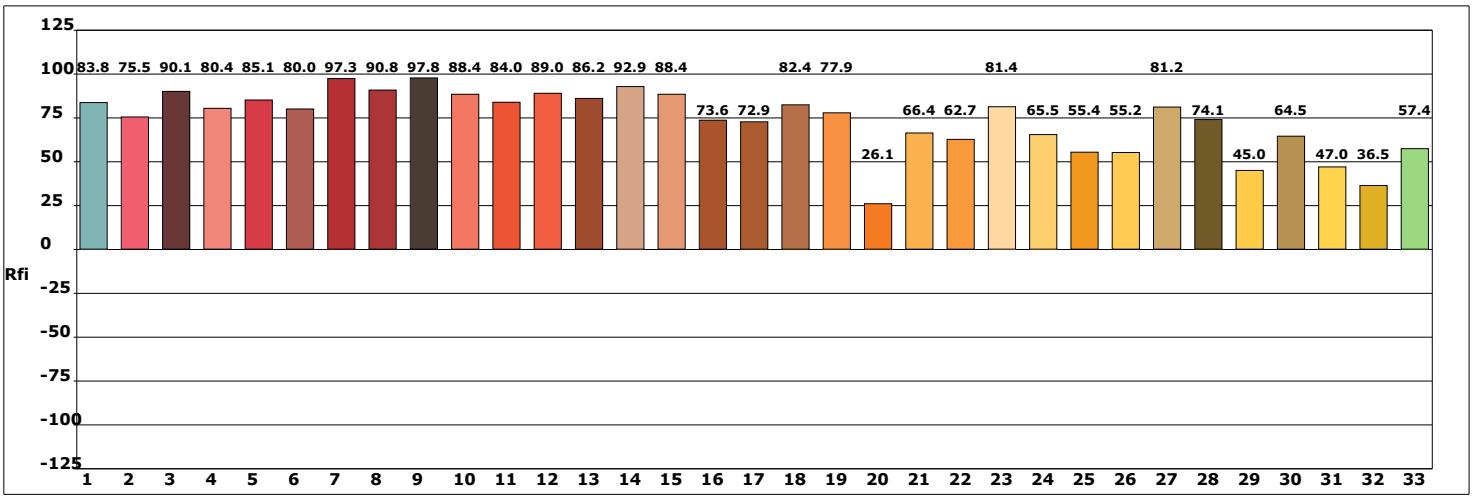


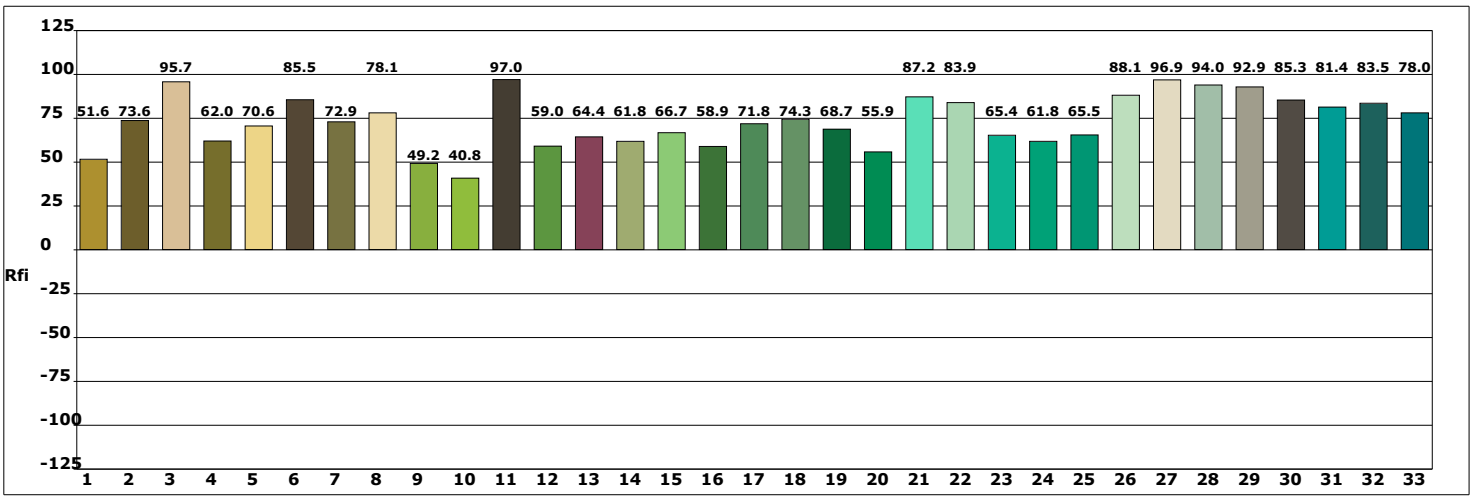
Chroma by Bue

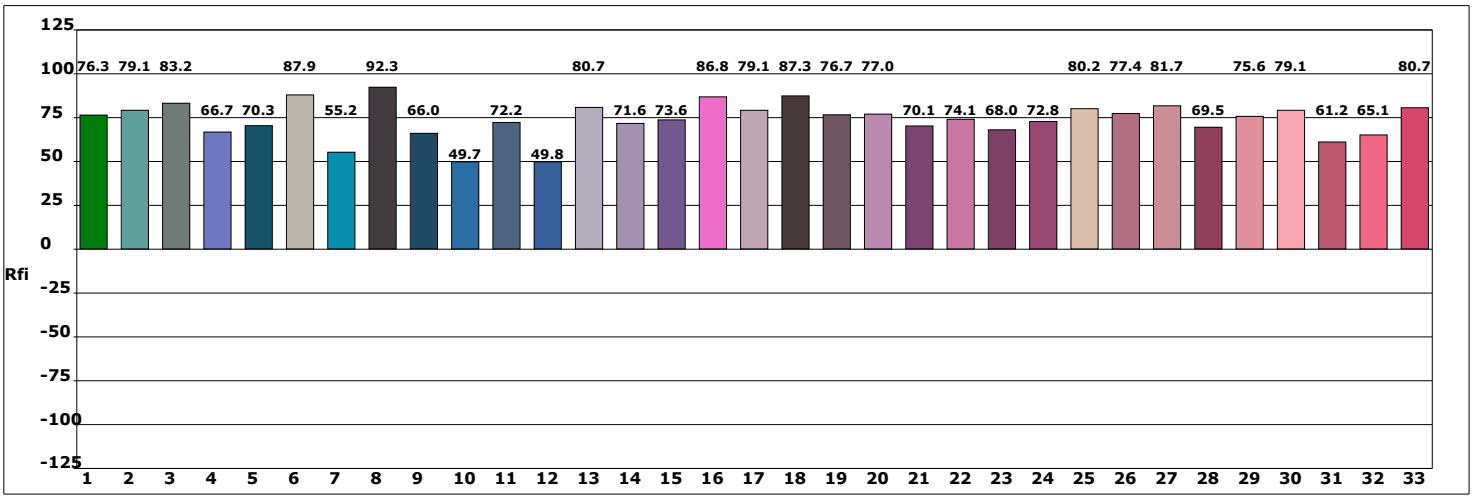


Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14



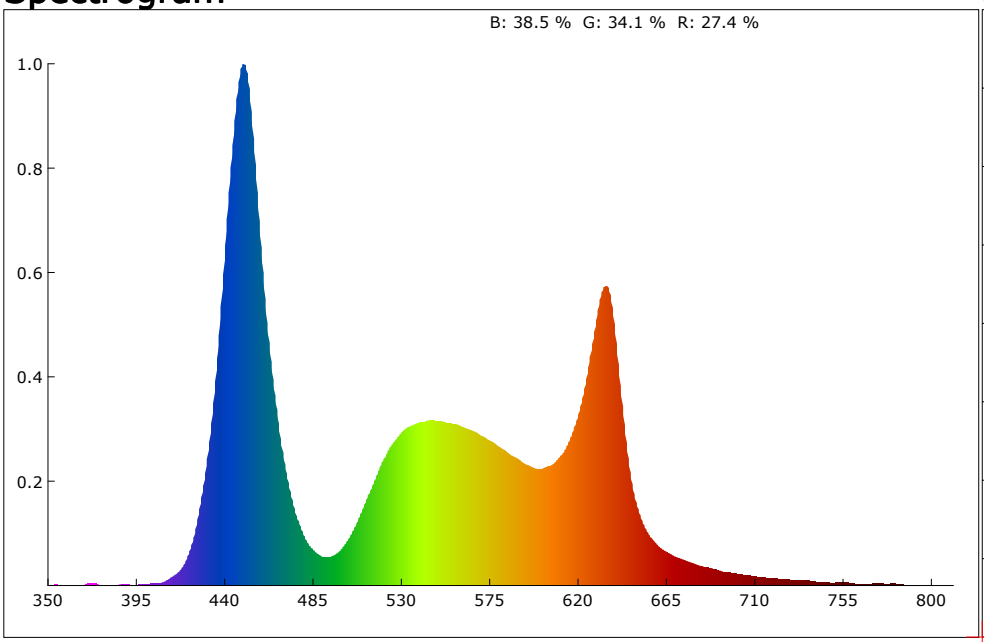




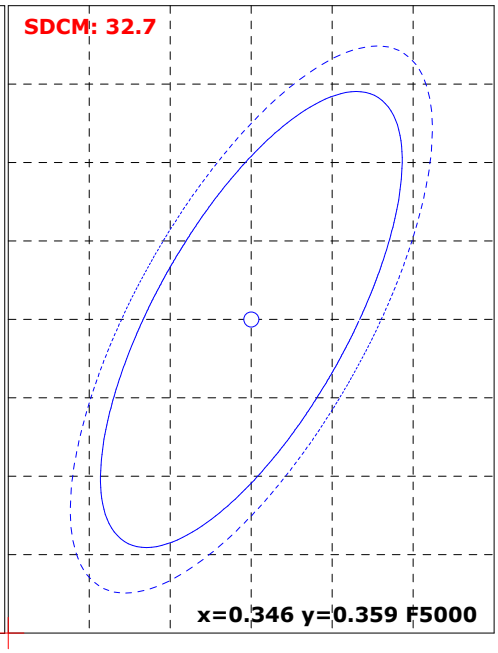
Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

Spectrogram



SDCM



Color Parameter:

x: 0.3110	y: 0.2651	u: 0.2238	v: 0.2861	u': 0.2238	v': 0.4291
R_ratio: 27.4 %	G_ratio: 34.1 %	B_ratio: 38.5 %	RedRatio: 18.9 %	GreenRatio: 76.5 %	BlueRatio: 4.6 %

Ra: 75.1 AvgR: 67.6

R1: 77.2	R2: 87.7	R3: 57.2	R4: 77.0	R5: 84.2	R6: 77.3	R7: 81.9	R8: 58.8
R9: -6.6	R10: 69.0	R11: 79.8	R12: 58.3	R13: 80.8	R14: 71.9	R15: 59.9	

CCT: 7663 K	Flux: 1144.386 lm	PeakWave: 449.6 nm	SDCM: 32.7
S/P: 2.2	CentralWave: 450.0 nm	DominantWave: 0.0 nm	CentroidWave: 538.2 nm
HalfWidth: 23.9 nm	duv: -0.03293	purity: 0.0 %	CQS: 63.7
LER(TM-30): 261.2	Ep: 4381.5 mw	Rg: 113.2	Rf: 66.1
Red Ep: 1184.9 mw	Near red Ep: 47.4 mw	Near infrared Ep: 2.5 mw	

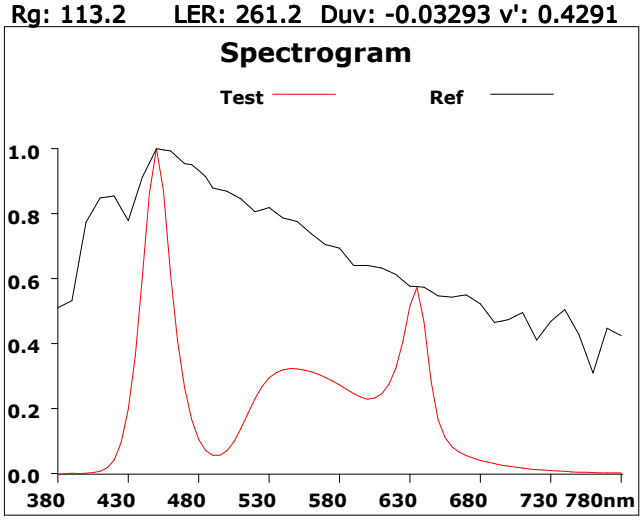
Electrical parameters:

Effic: 13.7 Lm/W	Energy: 14.9	Effi: G	
U: 222.0 V	I: 0.439 A	P: 83.440 W	Pf: 0.855

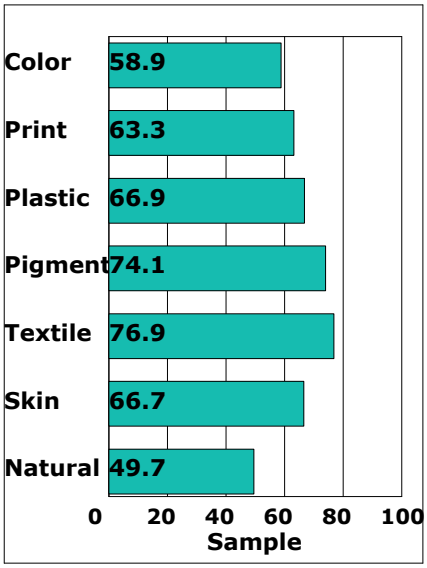
Product model:
Product number:
Tester:
Remarks:

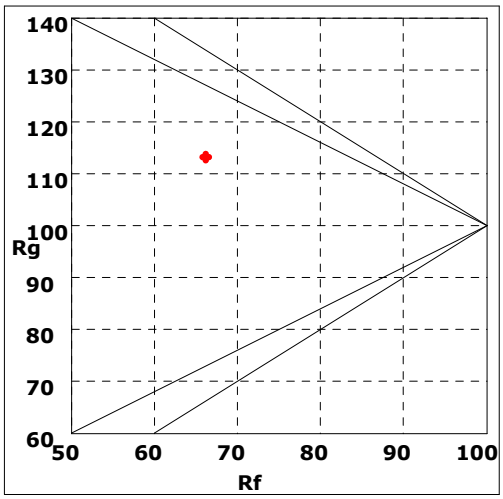
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

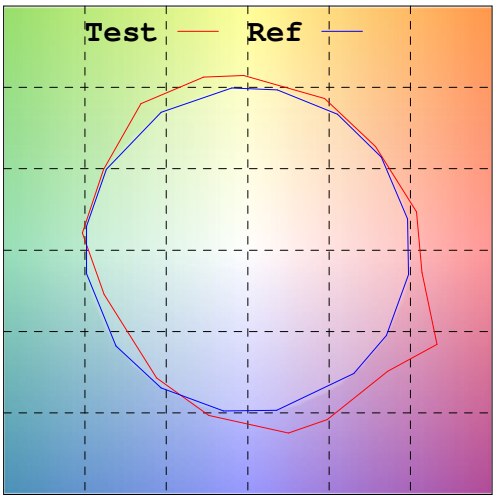
Rf: 66.1 CCT: 7663K u': 0.2238
Rg: 113.2 LER: 261.2 Duv: -0.03293 v': 0.4291

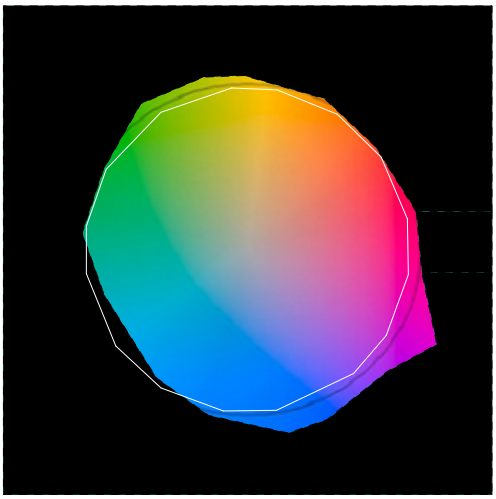


		500	
Hue Bin	Rf	Chroma	Hue
1	74.1	6.3%	3.1%
2	77.2	0.6%	7.3%
3	68.4	3.6%	12.0%
4	58.3	4.7%	22.0%
5	64.8	9.9%	15.7%
6	77.9	11.3%	7.3%
7	90.9	1.4%	1.1%
8	83.3	1.8%	4.6%
9	75.0	-8.1%	14.5%
10	49.7	-9.8%	30.2%
11	25.2	-2.3%	33.6%
12	50.0	5.4%	41.8%
13	58.4	11.7%	29.4%
14	63.0	10.4%	18.0%
15	63.3	28.8%	12.8%
16	81.2	7.8%	3.0%

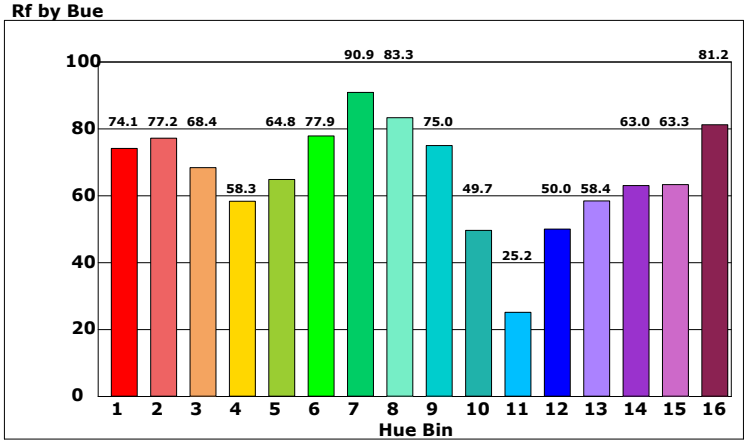




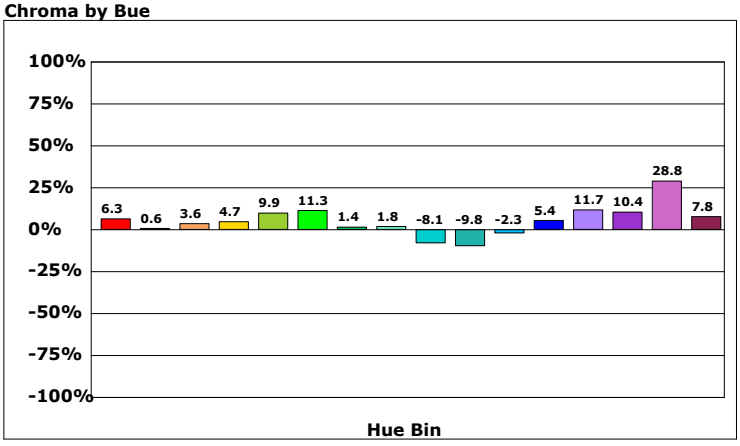




Rf by Bue

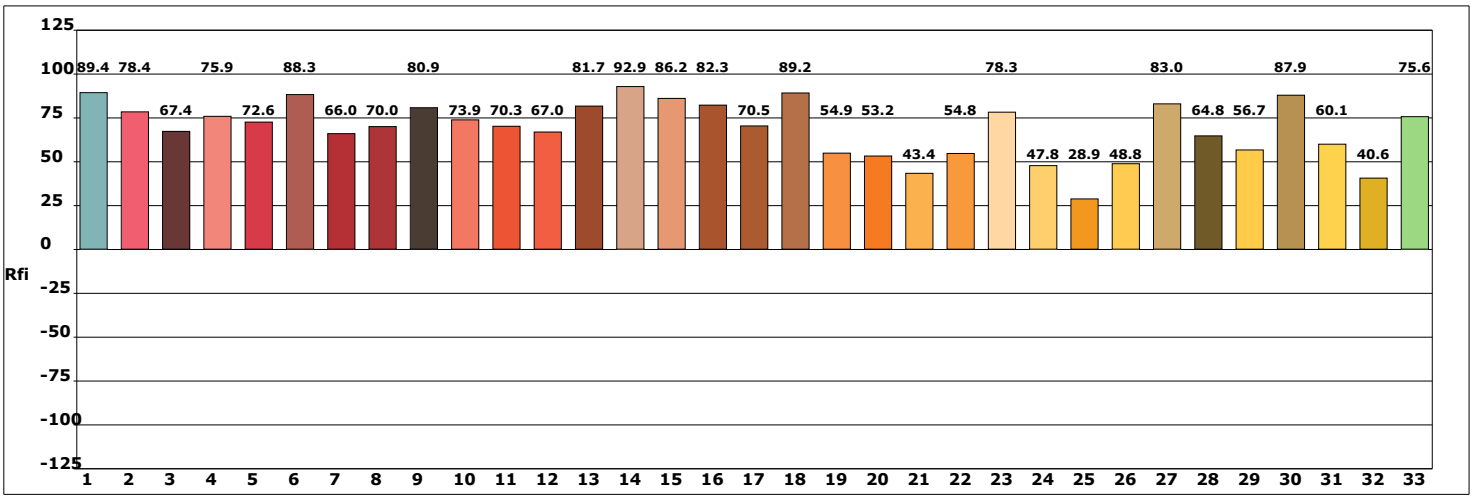


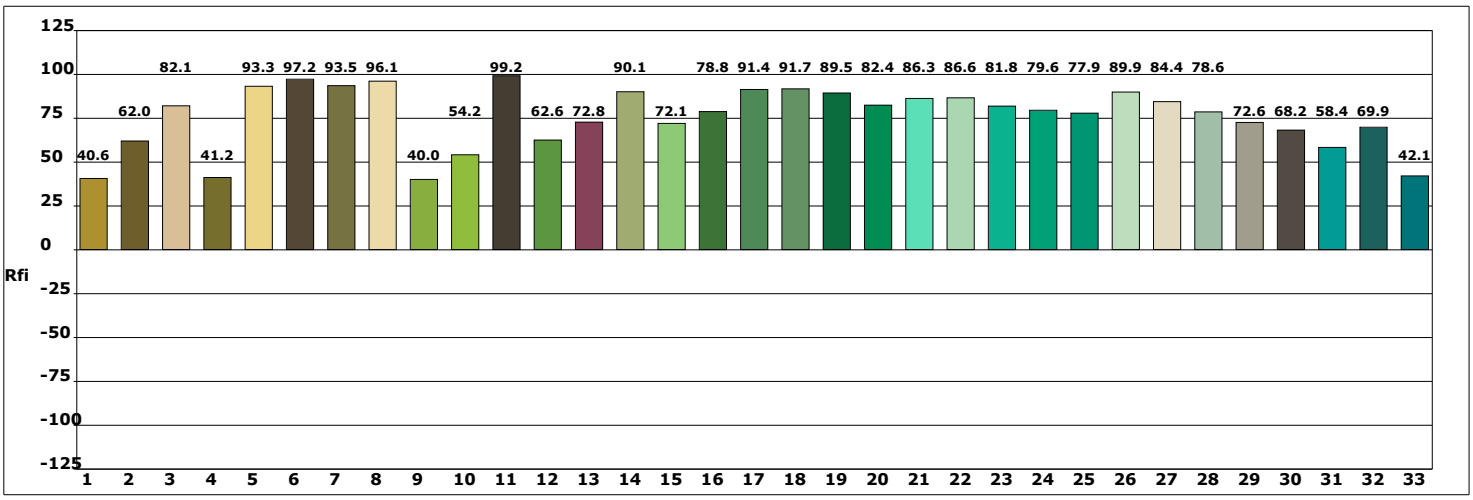
Chroma by Bue

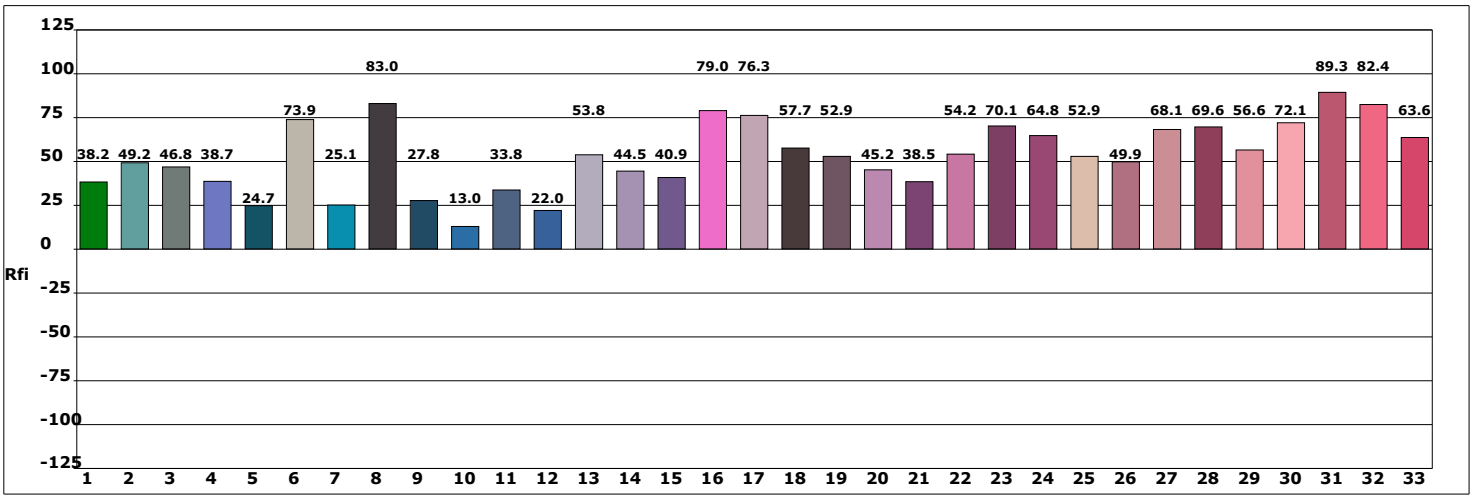


Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14



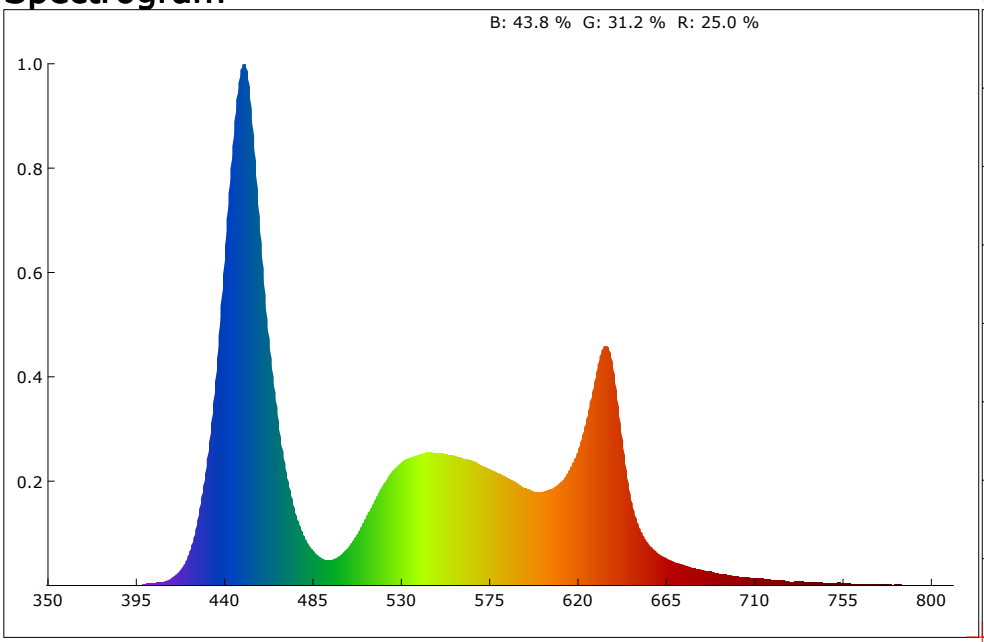




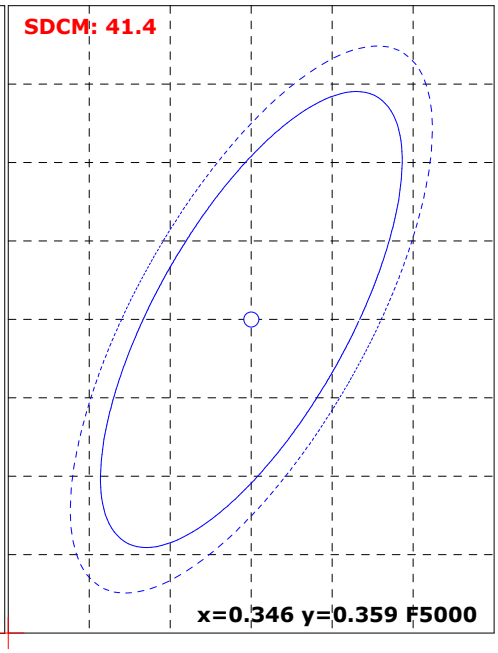
Product model:
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

Spectrogram



SDCM



Color Parameter:

x: 0.2931	y: 0.2386	u: 0.2222	v: 0.2713	u': 0.2222	v': 0.4069
R_ratio: 25.0 %	G_ratio: 31.2 %	B_ratio: 43.8 %	RedRatio: 18.6 %	GreenRatio: 75.7 %	BlueRatio: 5.7 %

Ra: 68.5 AvgR: 58.4

R1: 67.0	R2: 83.1	R3: 49.2	R4: 71.2	R5: 75.9	R6: 71.1	R7: 80.8	R8: 49.9
R9: -46.5	R10: 63.5	R11: 72.0	R12: 52.1	R13: 71.7	R14: 67.0	R15: 48.3	

CCT: 13165 K	Flux: 1157.870 lm	PeakWave: 450.6 nm	SDCM: 41.4
S/P: 2.5	CentralWave: 450.2 nm	DominantWave: 0.0 nm	CentroidWave: 530.9 nm
HalfWidth: 24.1 nm	duv: -0.03806	purity: 0.0 %	CQS: 64.9
LER(TM-30): 242.0	Ep: 4785.0 mw	Rg: 112.6	Rf: 60.0
Red Ep: 1182.1 mw	Near red Ep: 47.7 mw	Near infrared Ep: 2.1 mw	

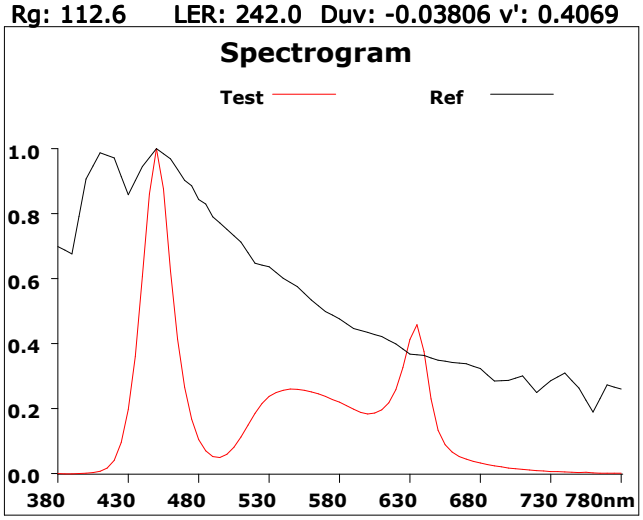
Electrical parameters:

Effic: 13.3 Lm/W	Energy: 14.5	Effi: G	
U: 222.1 V	I: 0.454 A	P: 86.970 W	Pf: 0.861

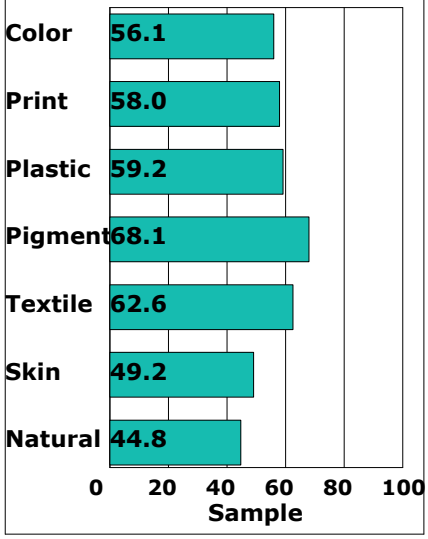
Product model:
Product number:
Tester:
Remarks:

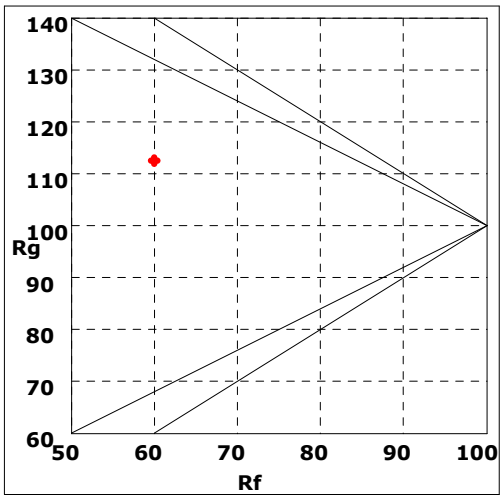
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

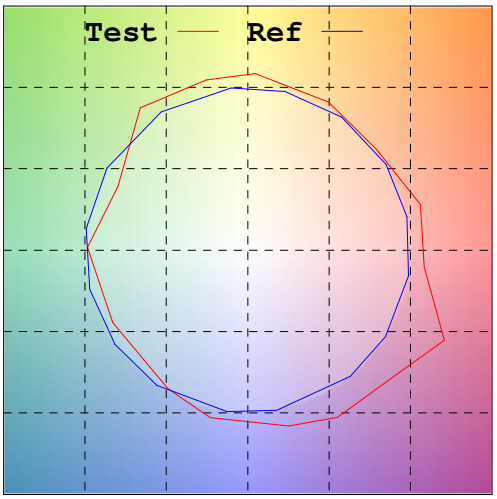
Rf: 60.0 CCT: 13165K u': 0.2222
Rg: 112.6 LER: 242.0 Duv: -0.03806 v': 0.4069

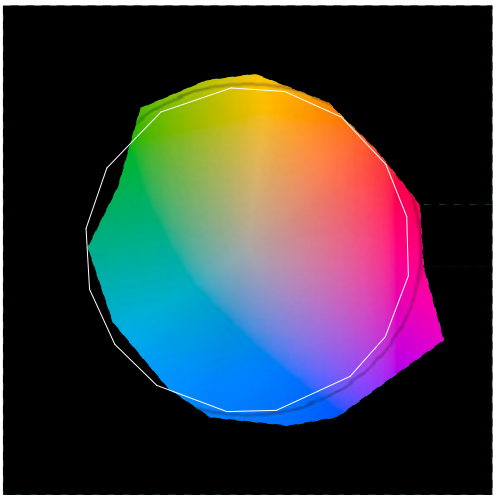


		500	
Hue Bin	Rf	Chroma	Hue
1	64.0	9.6%	5.8%
2	67.9	0.2%	10.9%
3	65.3	3.2%	11.8%
4	54.5	7.3%	20.0%
5	63.9	7.9%	14.1%
6	76.7	9.3%	9.2%
7	74.5	-11.8%	5.7%
8	72.2	-2.9%	11.2%
9	53.2	-10.0%	22.8%
10	44.8	-11.9%	40.8%
11	16.2	-1.8%	38.3%
12	48.5	1.3%	39.1%
13	45.1	11.6%	35.8%
14	50.8	14.8%	26.9%
15	58.0	31.2%	18.1%
16	73.4	8.3%	7.3%

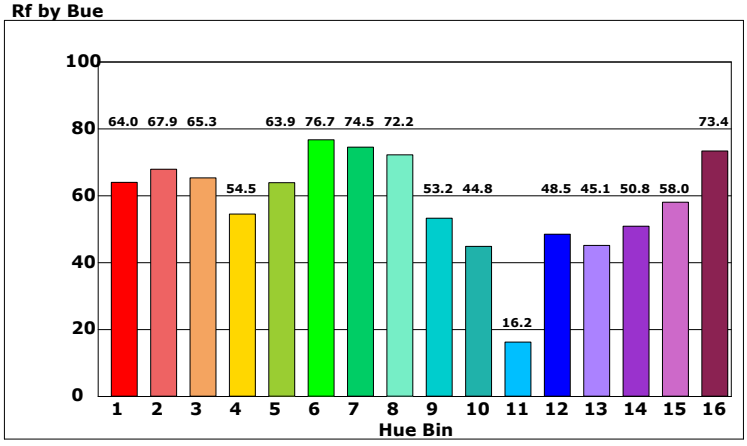




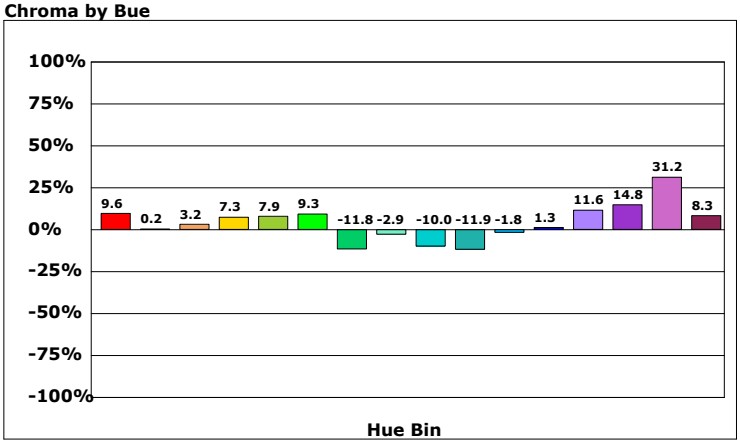




Rf by Bue

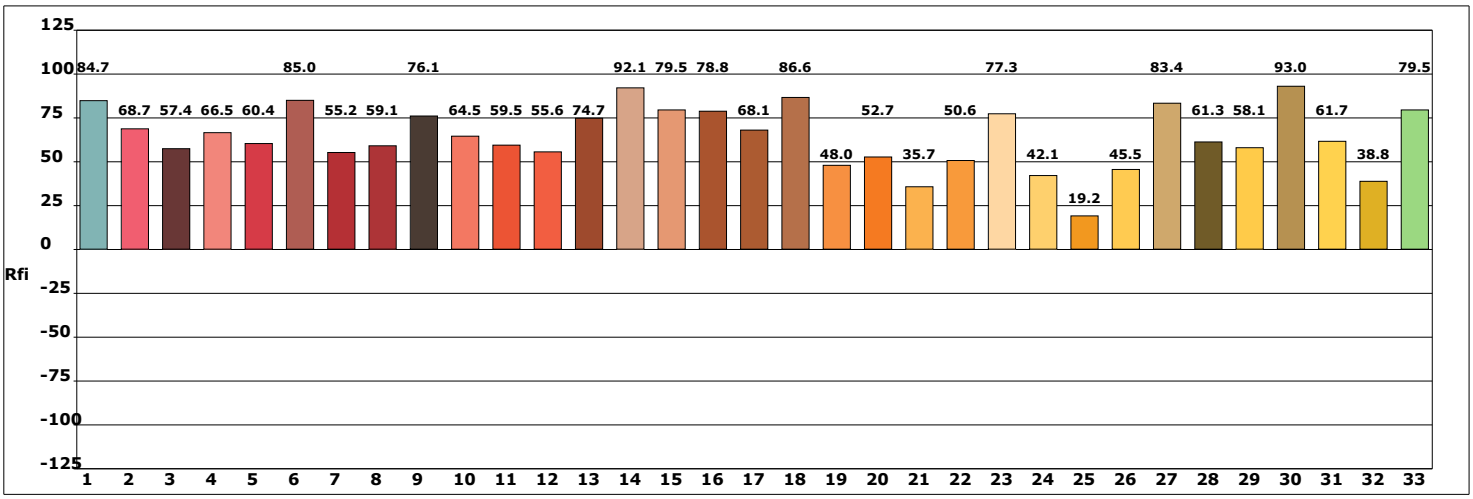


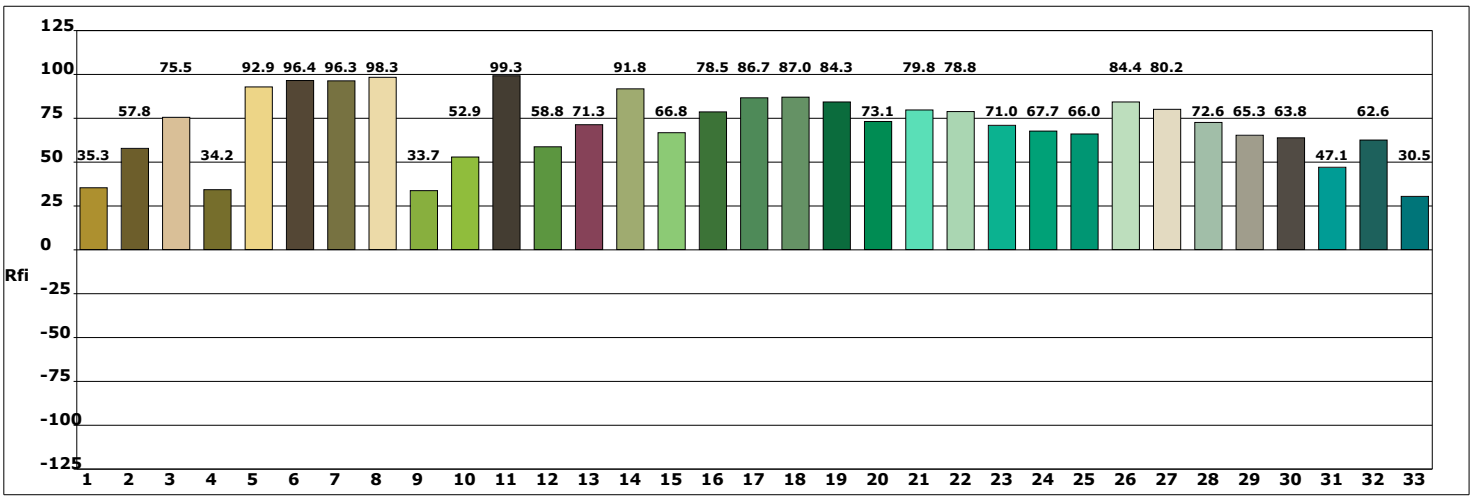
Chroma by Bue

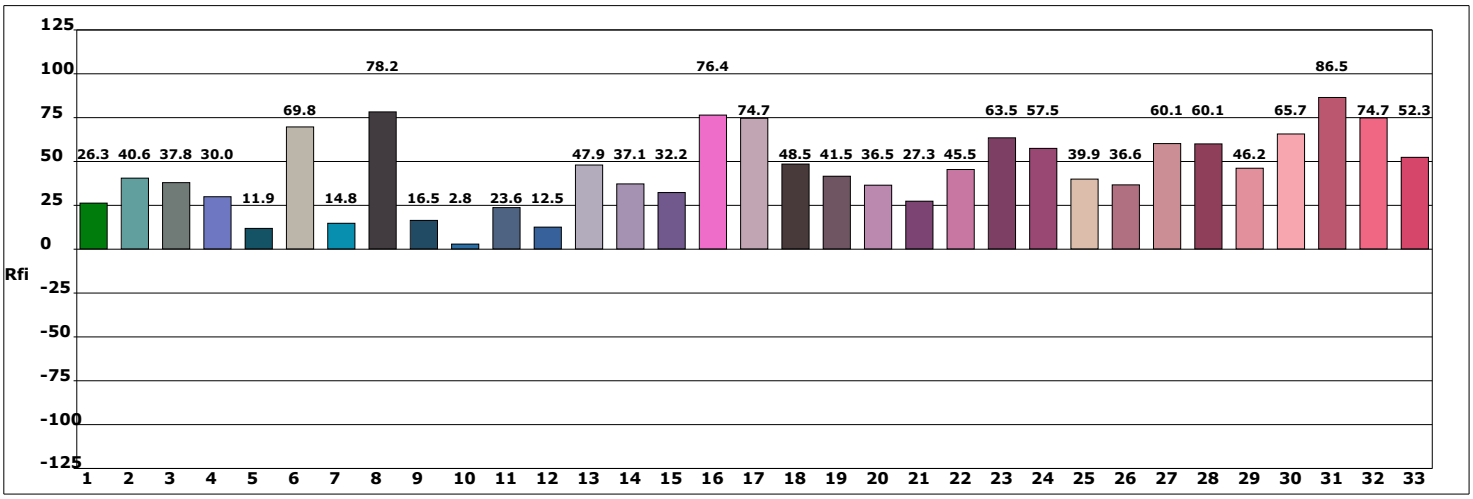


Product model:
Product number:
Tester:
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Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14







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