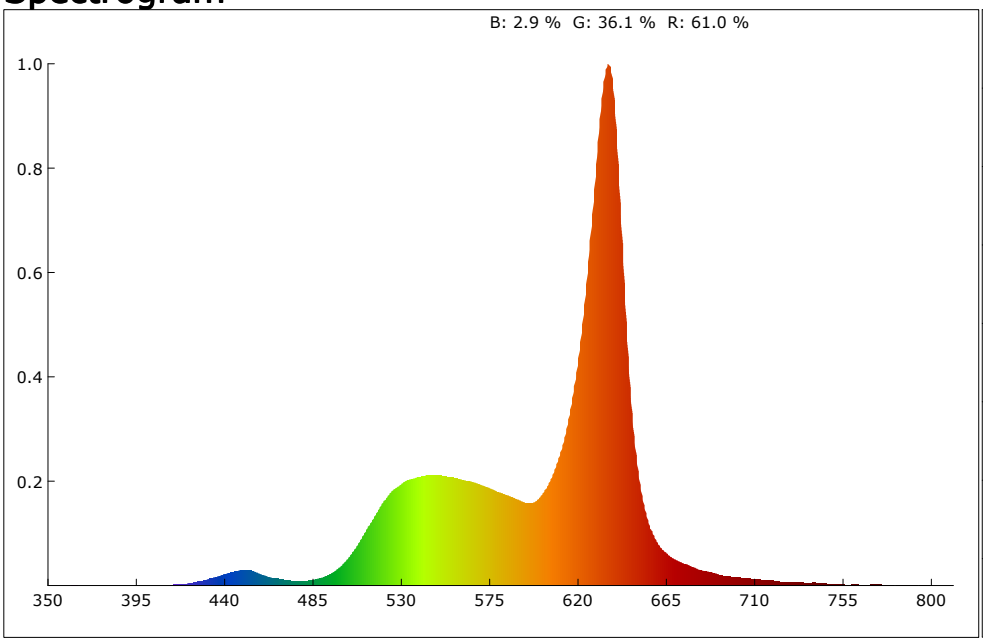
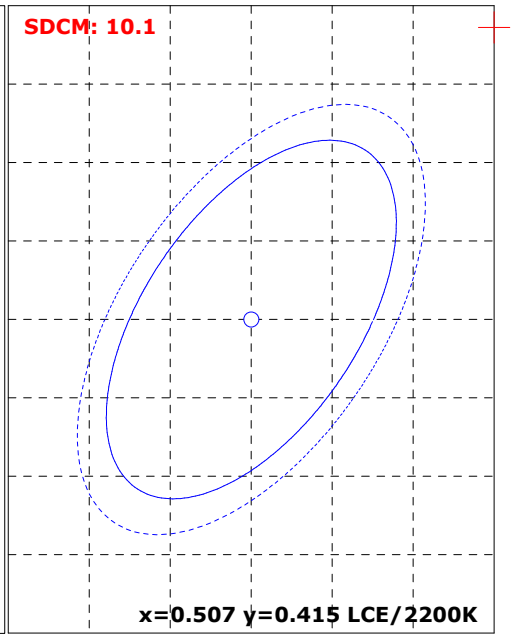
Spectrogram



SDCM



Color Parameter:

x: 0.5165	y: 0.4386	u: 0.2857	v: 0.3640	u': 0.2857	v': 0.5460
R_ratio: 61.0 %	G_ratio: 36.1 %	B_ratio: 2.9 %	RedRatio: 32.8 %	GreenRatio: 66.9 %	BlueRatio: 0.3 %

Ra: 79.3 AvgR: 76.6

R1: 79.7	R2: 97.9	R3: 65.7	R4: 72.6	R5: 85.0	R6: 96.7	R7: 77.7	R8: 59.6
R9: 39.2	R10: 86.0	R11: 69.1	R12: 80.0	R13: 85.0	R14: 76.4	R15: 77.9	

CCT: 2251 K	Flux: 962.531 lm	PeakWave: 636.5 nm	SDCM: 10.1
S/P: 1.0	CentralWave: 633.9 nm	DominantWave: 585.0 nm	CentroidWave: 601.2 nm
HalfWidth: 21.9 nm	duv: 0.00721	purity: 86.7 %	CQS: 84.1
LER(TM-30): 316.1	Ep: 3045.2 mw	Rg: 99.6	Rf: 82.9
Red Ep: 1835.9 mw	Near red Ep: 33.1 mw	Near infrared Ep: 1.6 mw	

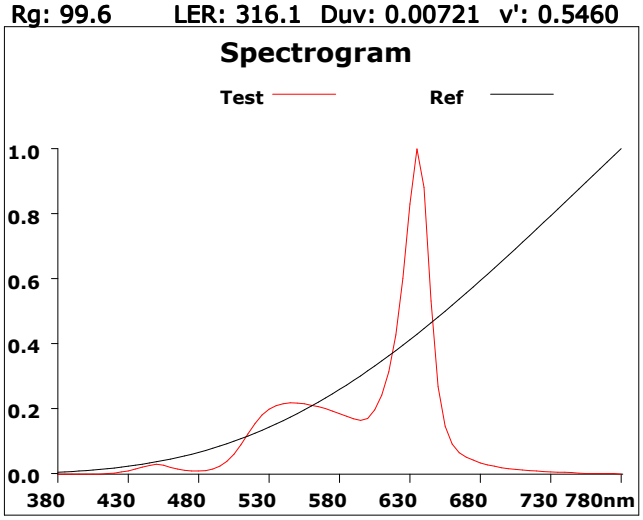
Electrical parameters:

Effic: 11.7 Lm/W	Energy: 12.7	Effi: G	
U: 222.2 V	I: 0.434 A	P: 82.290 W	Pf: 0.853

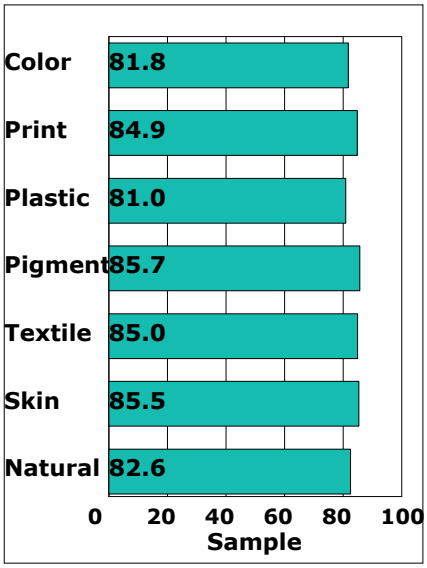
Product model:
Product number:
Tester:
Remarks:

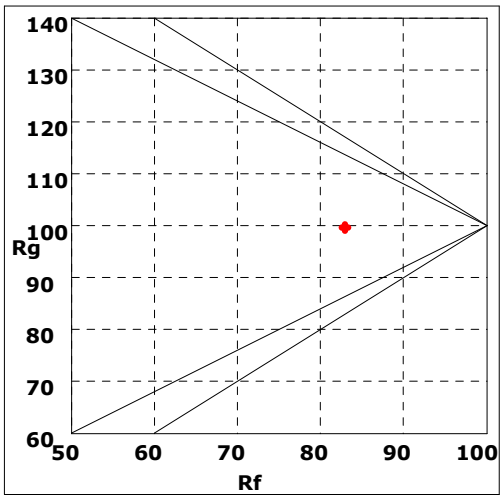
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

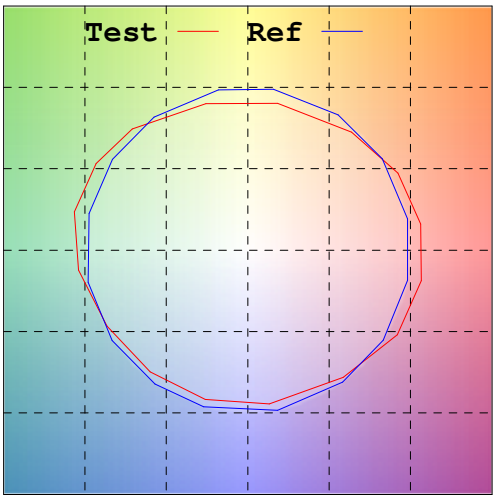
Rf: 82.9 CCT: 2251K u': 0.2857
Rg: 99.6 LER: 316.1 Duv: 0.00721 v': 0.5460



		500	
Hue Bin	Rf	Chroma	Hue
1	80.2	7.4%	-4.7%
2	75.2	3.0%	-12.7%
3	69.4	-4.4%	-12.8%
4	86.2	-8.0%	-4.3%
5	85.3	-6.8%	9.1%
6	76.6	1.3%	15.1%
7	81.4	7.0%	7.8%
8	86.2	9.0%	0.8%
9	80.7	4.4%	-8.4%
10	82.6	-2.3%	-9.2%
11	87.0	-4.5%	-6.7%
12	89.9	-4.6%	0.1%
13	90.3	-4.7%	-4.3%
14	88.5	-2.3%	1.9%
15	84.9	5.3%	7.6%
16	86.1	8.3%	1.5%

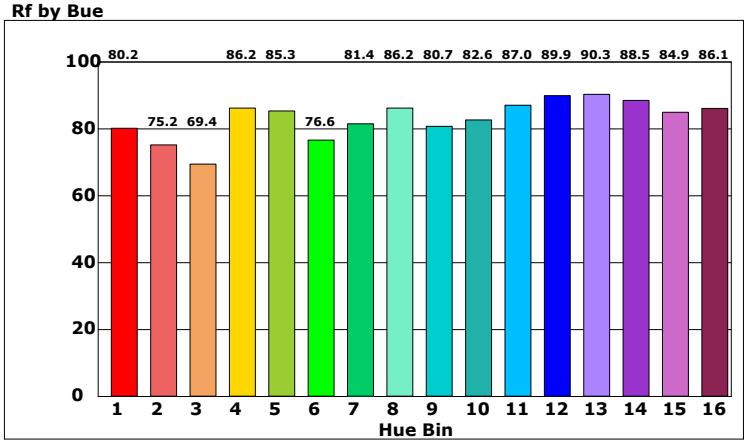




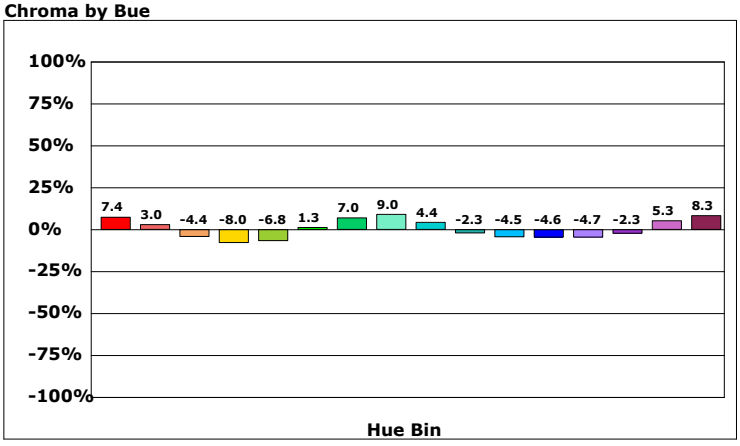




Rf by Bue

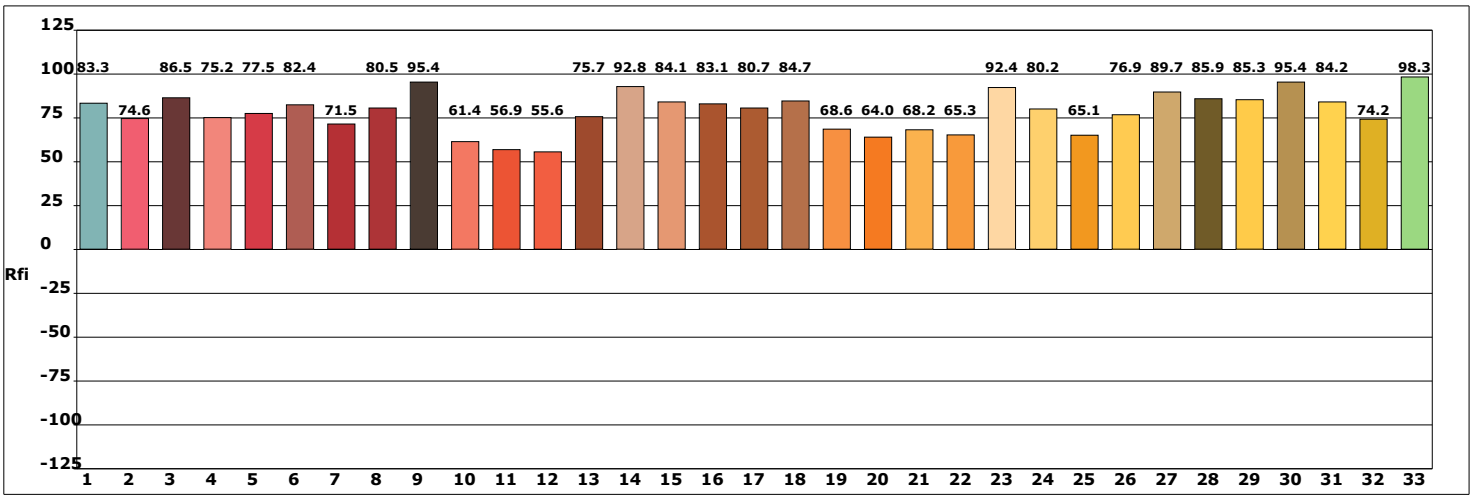


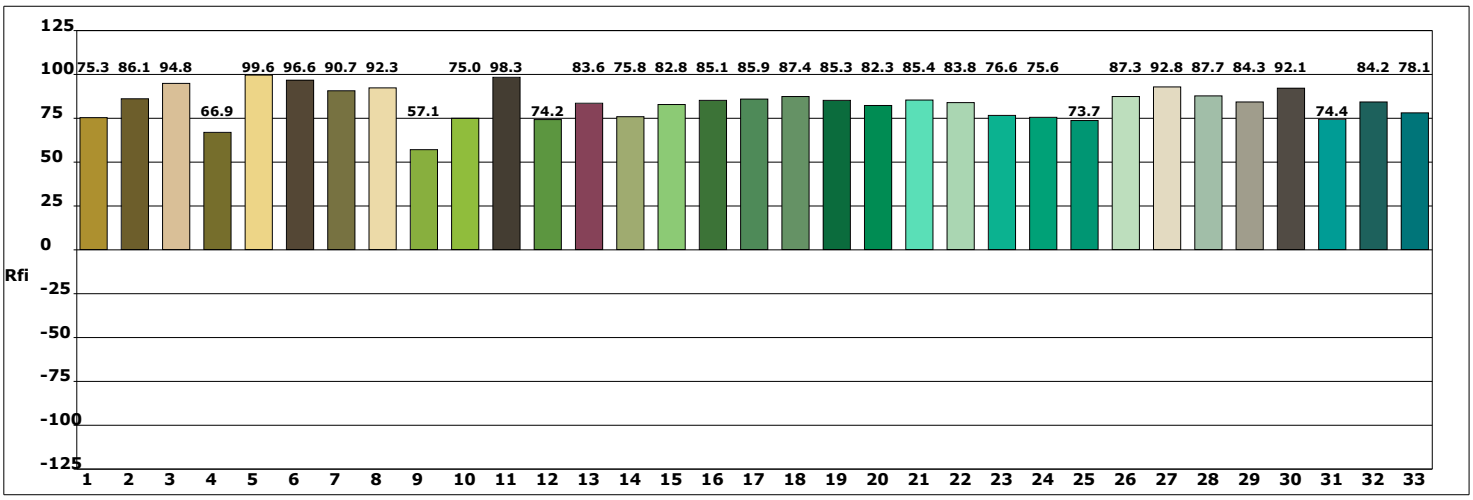
Chroma by Bue

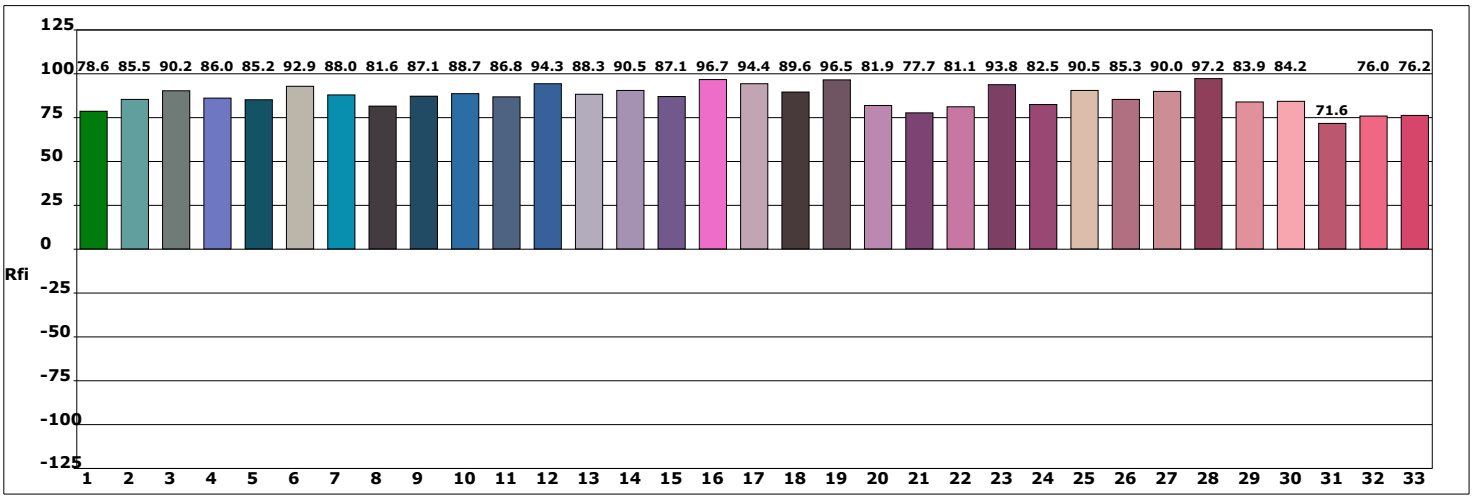


Product model:
Product number:
Tester:
Remarks:

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



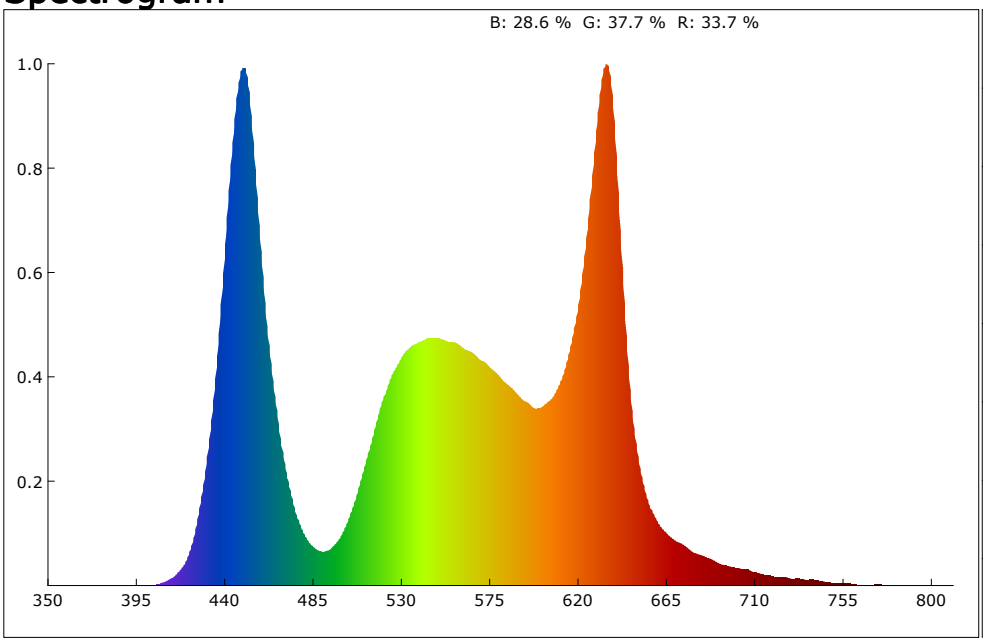




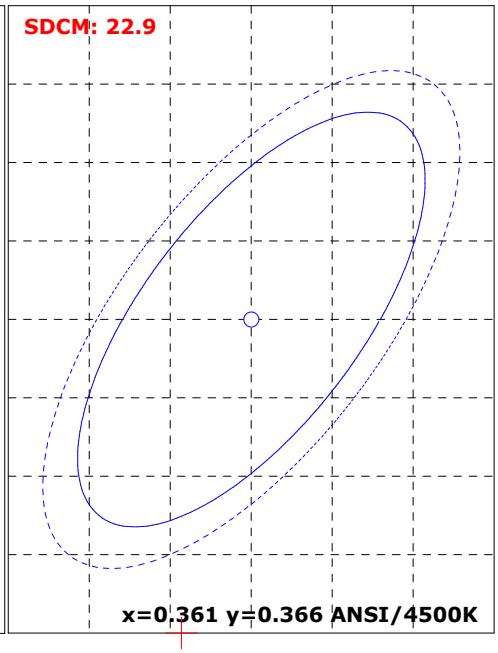
Product model:
Product number:
Tester:
Remarks:

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

Spectrogram



SDCM



Color Parameter:

x: 0.3507	y: 0.3133	u: 0.2316	v: 0.3103	u': 0.2316	v': 0.4654
R_ratio: 33.7 %	G_ratio: 37.7 %	B_ratio: 28.6 %	RedRatio: 20.7 %	GreenRatio: 76.2 %	BlueRatio: 3.1 %

Ra: 84.2 AvgR: 79.2

R1: 90.6	R2: 92.7	R3: 68.7	R4: 85.1	R5: 95.9	R6: 84.0	R7: 85.1	R8: 72.2
R9: 41.1	R10: 74.3	R11: 86.7	R12: 62.2	R13: 93.0	R14: 79.1	R15: 77.1	

CCT: 4557 K	Flux: 986.393 lm	PeakWave: 635.5 nm	SDCM: 22.9
S/P: 1.8	CentralWave: 631.9 nm	DominantWave: 0.0 nm	CentroidWave: 553.1 nm
HalfWidth: 25.1 nm	duv: -0.02311	purity: 0.0 %	CQS: 64.4
LER(TM-30): 290.9	Ep: 3390.9 mw	Rg: 112.7	Rf: 73.5
Red Ep: 1131.1 mw	Near red Ep: 32.6 mw	Near infrared Ep: 0.0 mw	

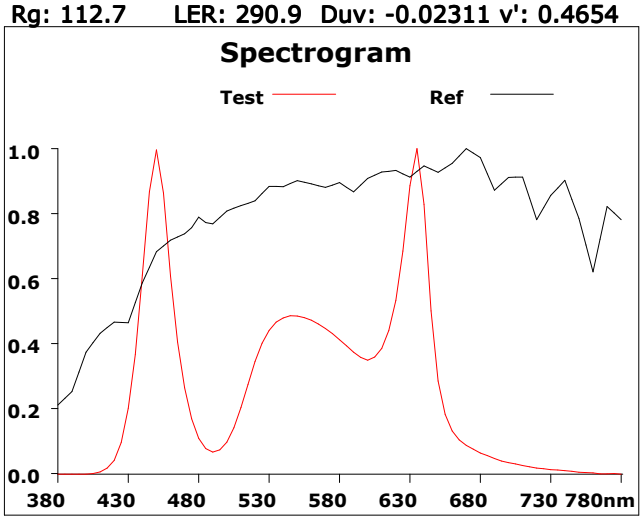
Electrical parameters:

Effic: 12.1 Lm/W	Energy: 13.2	Effi: G	
U: 222.0 V	I: 0.430 A	P: 81.410 W	Pf: 0.851

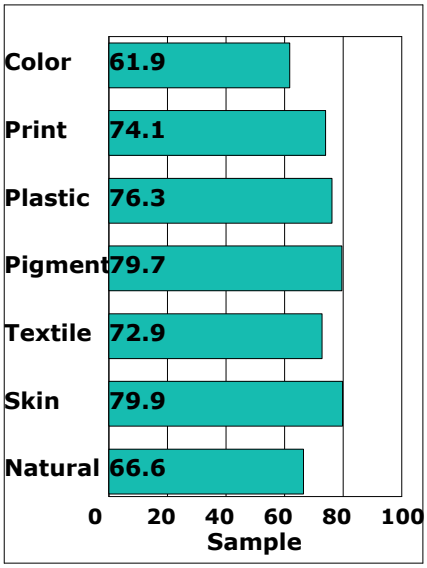
Product model:
Product number:
Tester:
Remarks:

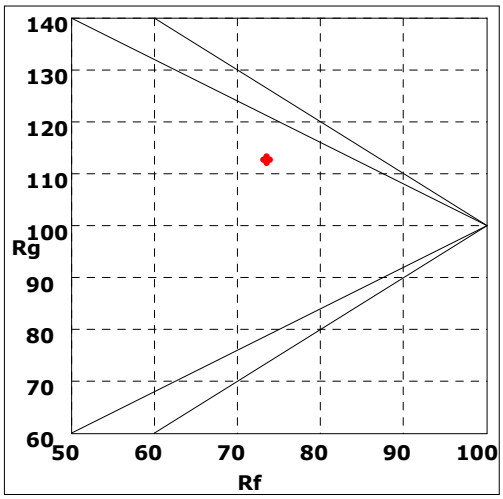
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

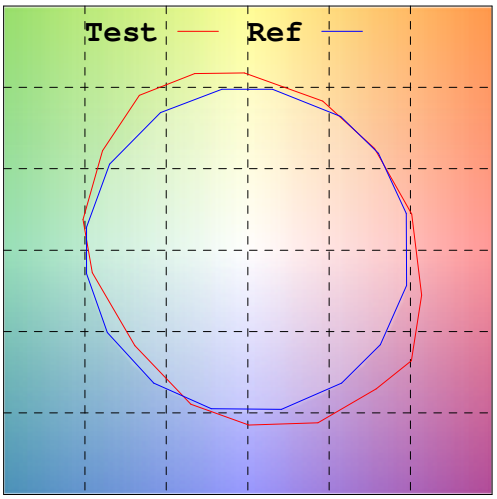
Rf: 73.5 CCT: 4557K u': 0.2316
Rg: 112.7 LER: 290.9 Duv: -0.02311 v': 0.4654



		500	
Hue Bin	Rf	Chroma	Hue
1	86.2	3.3%	-1.0%
2	88.7	-0.4%	3.8%
3	68.1	1.7%	14.4%
4	64.2	6.4%	18.9%
5	70.9	12.7%	14.6%
6	73.0	16.0%	4.8%
7	83.5	8.0%	-4.4%
8	88.4	3.1%	-4.2%
9	89.2	-3.7%	0.1%
10	66.6	-9.6%	16.1%
11	54.3	-1.8%	26.2%
12	53.2	5.3%	24.3%
13	70.6	12.4%	20.4%
14	62.3	14.7%	15.8%
15	74.1	21.4%	2.4%
16	79.1	10.3%	-4.0%

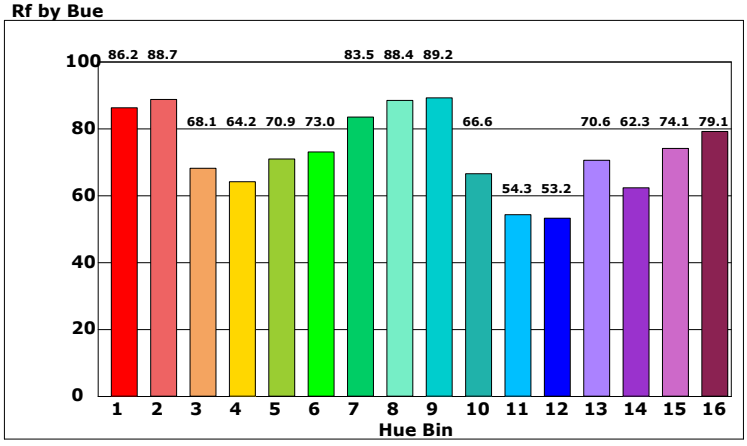




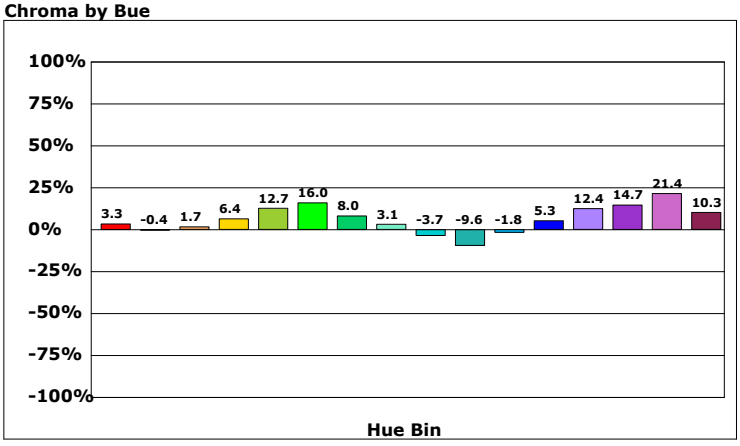




Rf by Bue

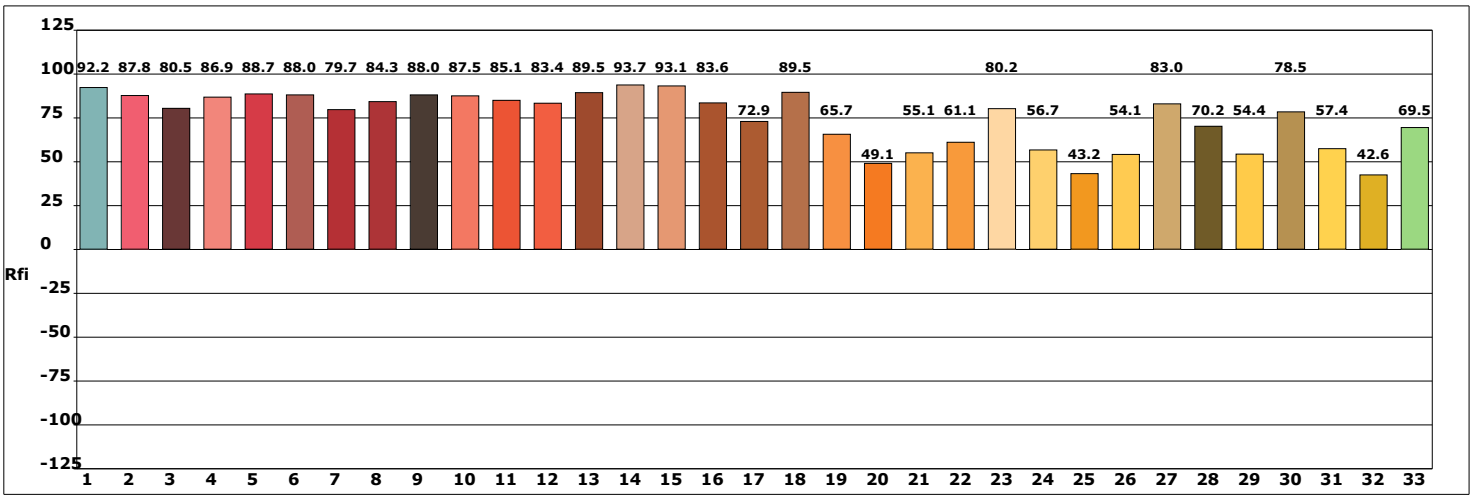


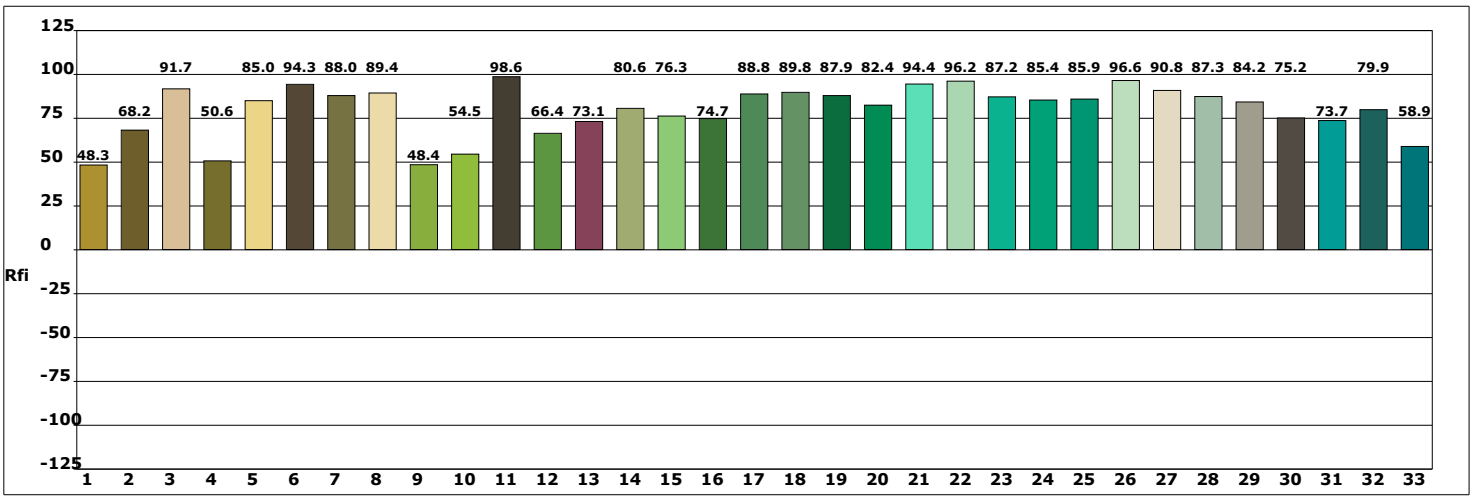
Chroma by Bue

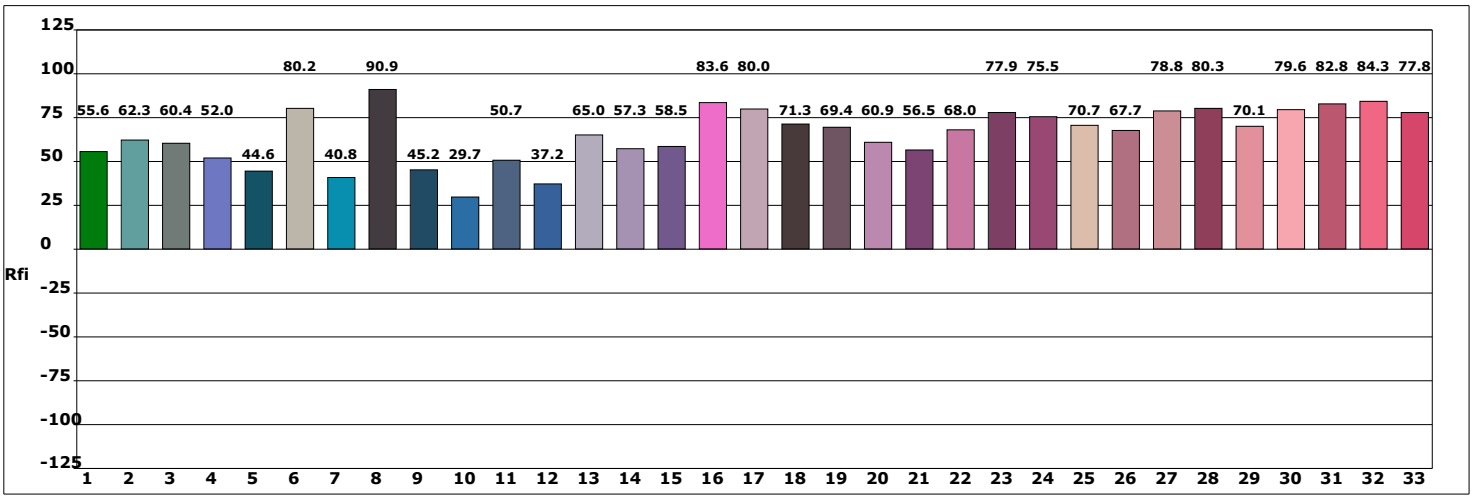


Product model:
Product number:
Tester:
Remarks:

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



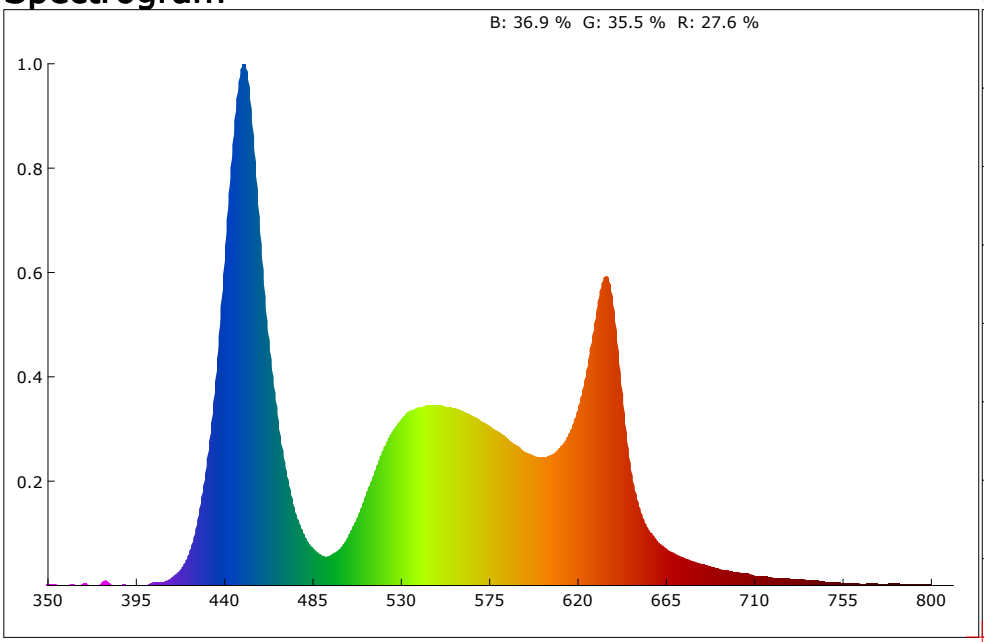




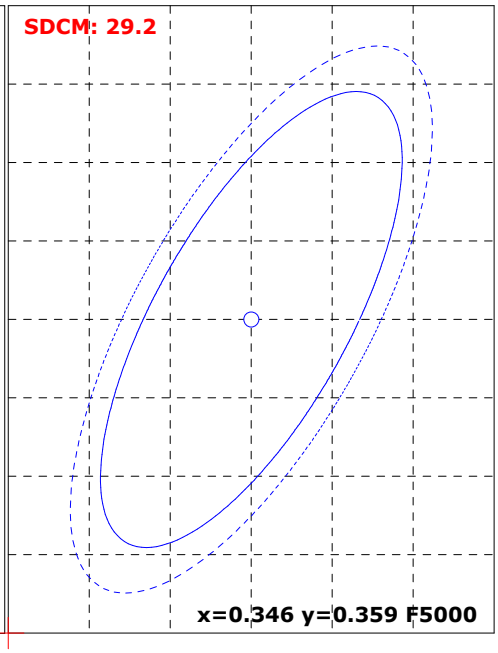
Product model:
Product number:
Tester:
Remarks:

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

Spectrogram



SDCM



Color Parameter:

x: 0.3159	y: 0.2756	u: 0.2226	v: 0.2914	u': 0.2226	v': 0.4371
R_ratio: 27.6 %	G_ratio: 35.5 %	B_ratio: 36.9 %	RedRatio: 18.4 %	GreenRatio: 77.3 %	BlueRatio: 4.3 %

Ra: 78.8 AvgR: 72.5

R1: 83.1	R2: 88.9	R3: 61.0	R4: 81.8	R5: 89.2	R6: 77.6	R7: 82.9	R8: 66.3
R9: 17.6	R10: 68.2	R11: 84.9	R12: 57.9	R13: 85.6	R14: 74.4	R15: 67.8	

CCT: 6888 K	Flux: 982.193 lm	PeakWave: 450.6 nm	SDCM: 29.2
S/P: 2.1	CentralWave: 450.4 nm	DominantWave: 0.0 nm	CentroidWave: 540.3 nm
HalfWidth: 23.7 nm	duv: -0.02905	purity: 0.0 %	CQS: 63.7
LER(TM-30): 269.1	Ep: 3649.4 mw	Rg: 111.2	Rf: 68.5
Red Ep: 993.4 mw	Near red Ep: 41.8 mw	Near infrared Ep: 3.7 mw	

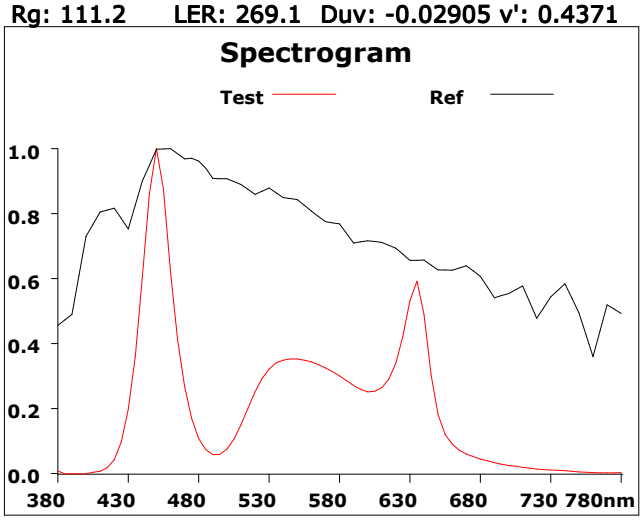
Electrical parameters:

Effic: 11.9 Lm/W	Energy: 12.9	Effi: G	
U: 222.3 V	I: 0.436 A	P: 82.840 W	Pf: 0.853

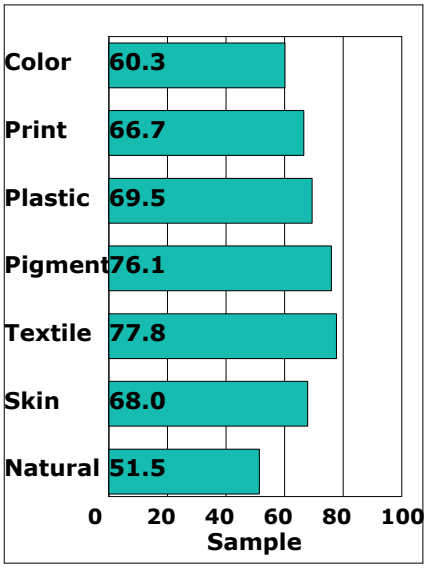
Product model:
Product number:
Tester:
Remarks:

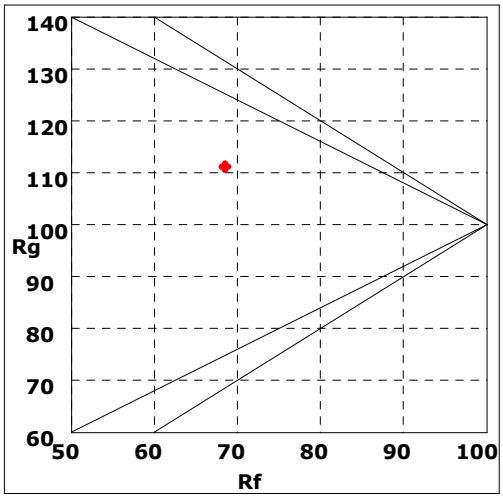
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

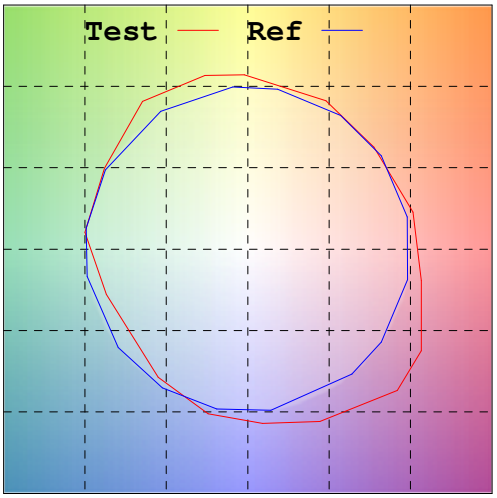
Rf: 68.5 CCT: 6888K u': 0.2226
Rg: 111.2 LER: 269.1 Duv: -0.02905 v': 0.4371



		500	
Hue Bin	Rf	Chroma	Hue
1	78.6	4.1%	2.2%
2	79.7	-0.7%	7.0%
3	69.6	2.5%	12.7%
4	59.2	4.7%	21.8%
5	65.6	10.3%	15.4%
6	79.1	11.4%	5.9%
7	92.0	1.1%	-0.5%
8	86.5	0.4%	2.7%
9	76.4	-9.5%	13.0%
10	51.5	-10.3%	28.9%
11	28.0	-2.4%	32.2%
12	52.1	3.3%	29.4%
13	59.6	12.6%	28.3%
14	63.6	23.8%	17.7%
15	66.7	23.4%	9.3%
16	82.9	8.4%	1.0%

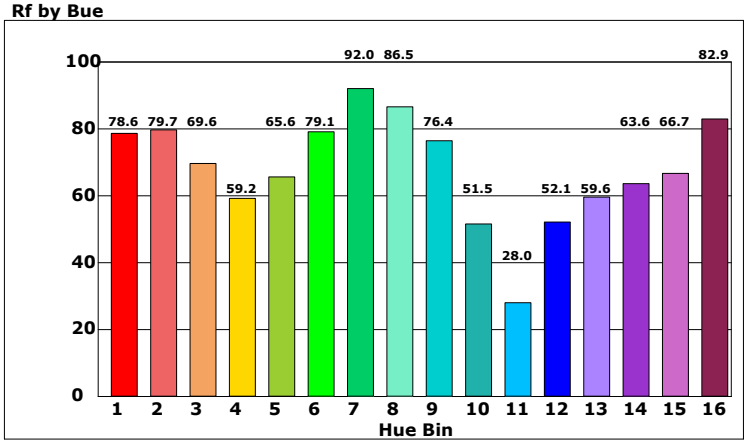




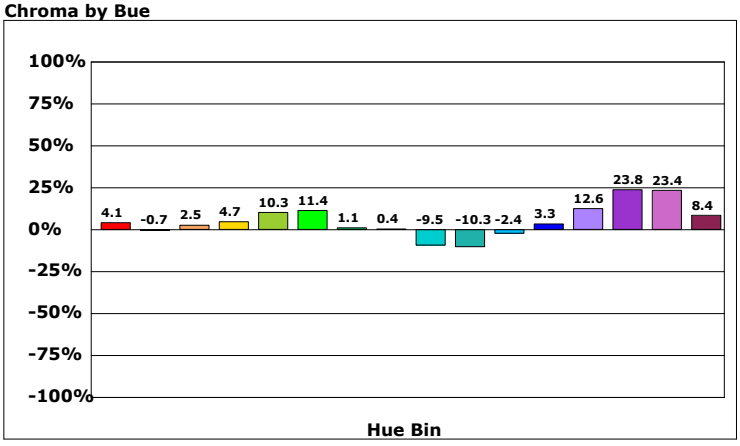




Rf by Bue

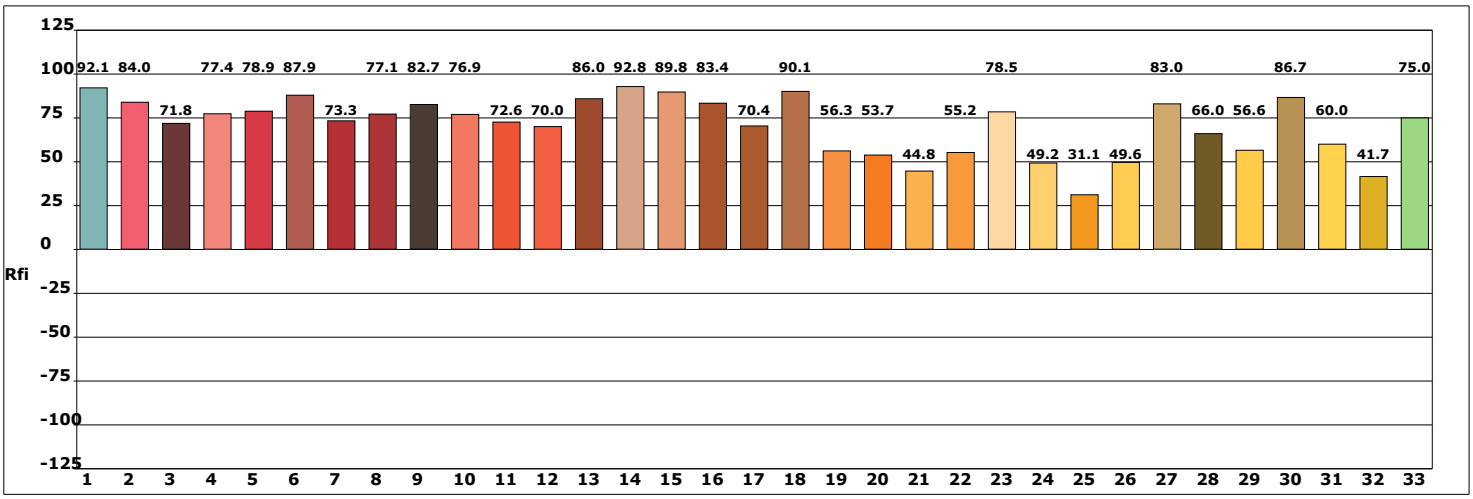


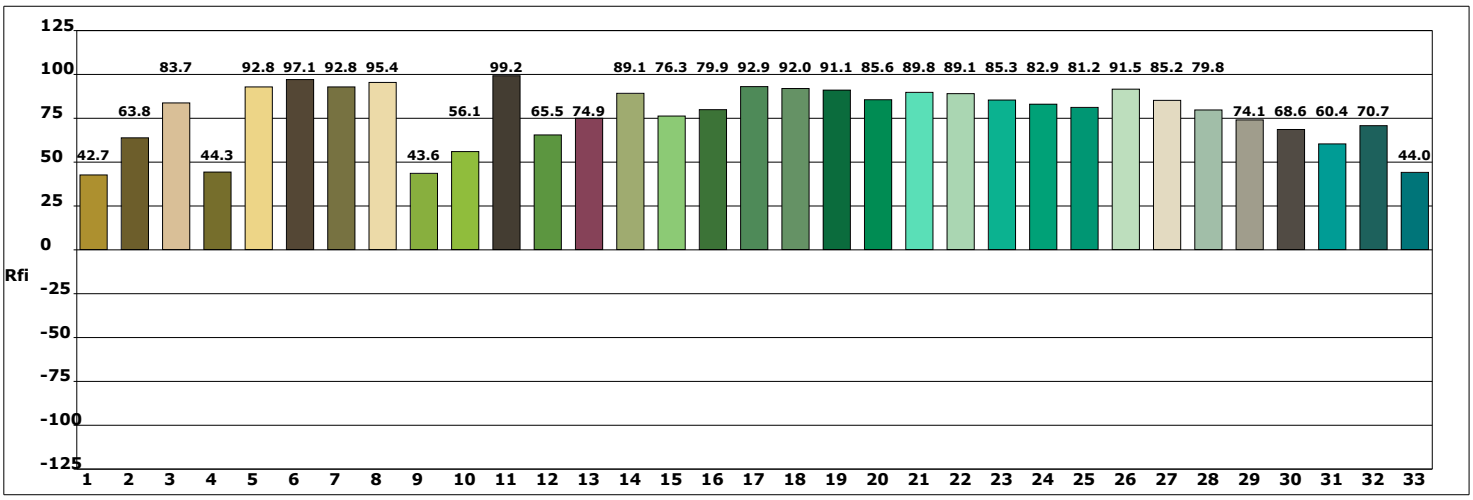
Chroma by Bue

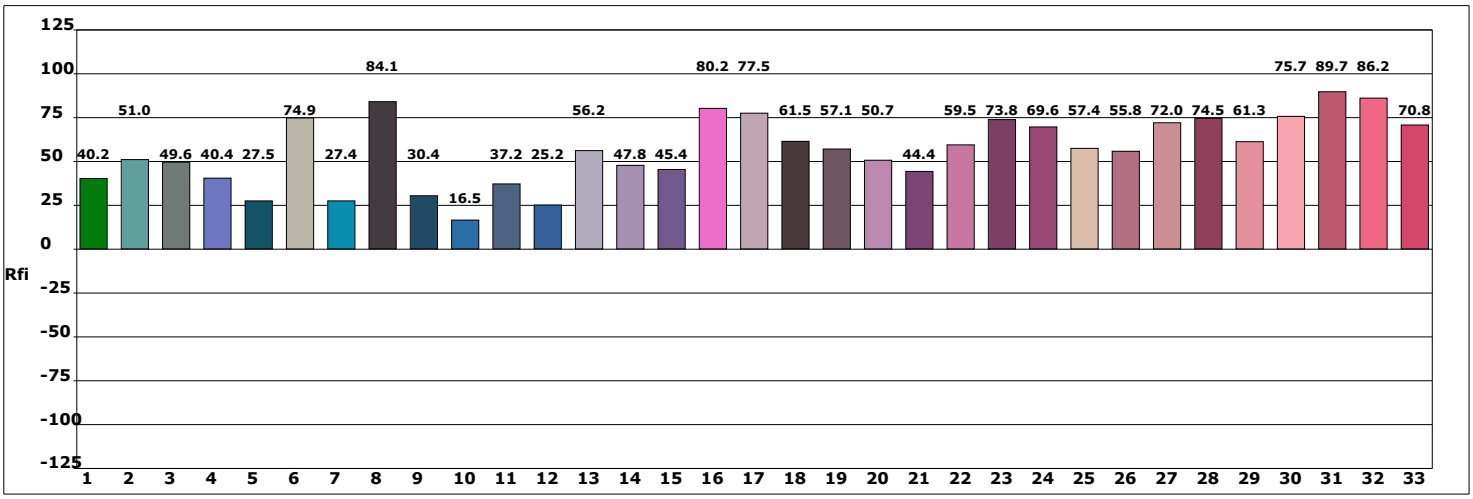


Product model:
Product number:
Tester:
Remarks:

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



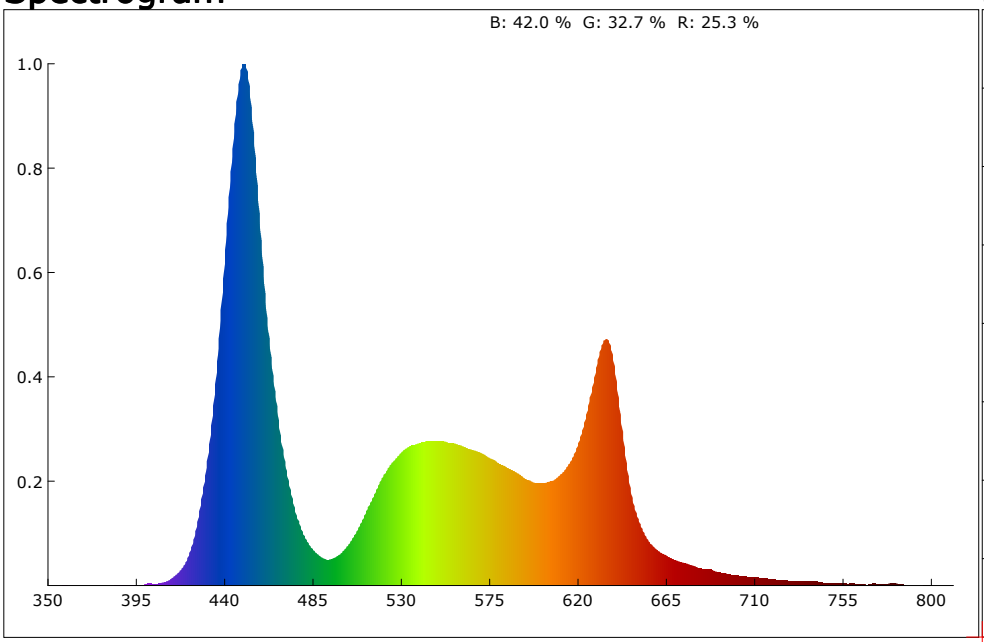




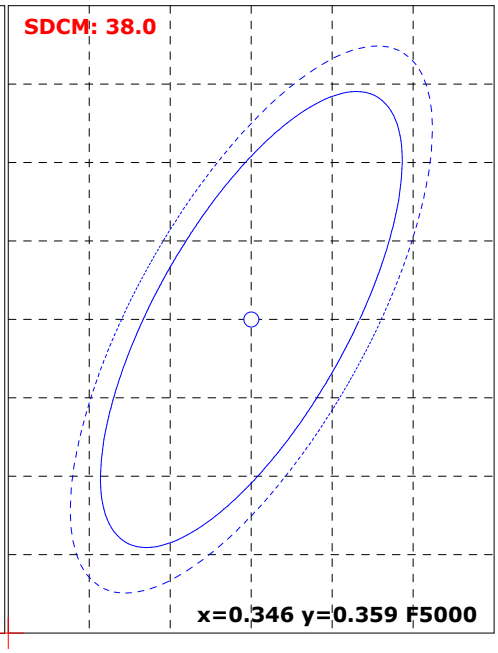
Product model:
Product number:
Tester:
Remarks:

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

Spectrogram



SDCM



Color Parameter:

x: 0.2981	y: 0.2487	u: 0.2213	v: 0.2769	u': 0.2213	v': 0.4153
R_ratio: 25.3 %	G_ratio: 32.7 %	B_ratio: 42.0 %	RedRatio: 18.2 %	GreenRatio: 76.5 %	BlueRatio: 5.3 %

Ra: 72.4	AvgR: 63.7						
R1: 73.0	R2: 85.0	R3: 53.0	R4: 76.1	R5: 80.7	R6: 73.1	R7: 82.1	R8: 56.6
R9: -21.7	R10: 64.4	R11: 77.9	R12: 53.0	R13: 76.7	R14: 69.4	R15: 55.8	

CCT: 10547 K	Flux: 991.768 lm	PeakWave: 450.6 nm	SDCM: 38.0
S/P: 2.4	CentralWave: 450.4 nm	DominantWave: 0.0 nm	CentroidWave: 533.1 nm
HalfWidth: 23.9 nm	duv: -0.03503	purity: 0.0 %	CQS: 64.6
LER(TM-30): 250.5	Ep: 3958.7 mw	Rg: 111.2	Rf: 62.8
Red Ep: 989.9 mw	Near red Ep: 40.4 mw	Near infrared Ep: 2.2 mw	

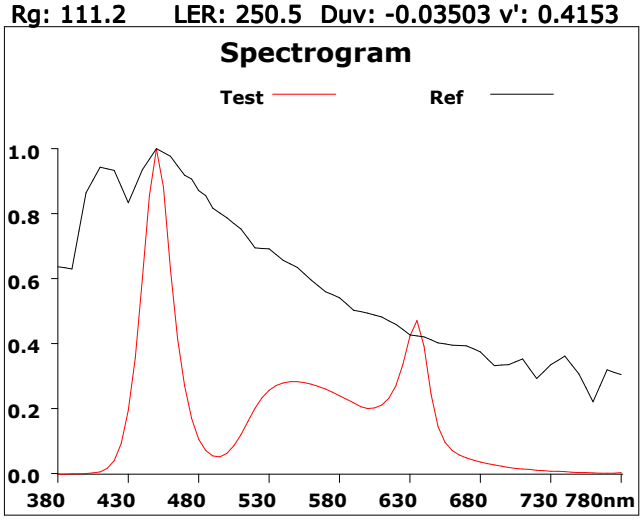
Electrical parameters:

Effic: 11.5 Lm/W	Energy: 12.5	Effi: G	
U: 222.2 V	I: 0.451 A	P: 86.310 W	Pf: 0.860

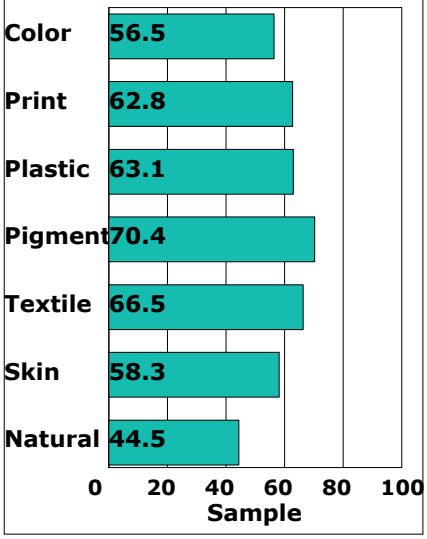
Product model:
Product number:
Tester:
Remarks:

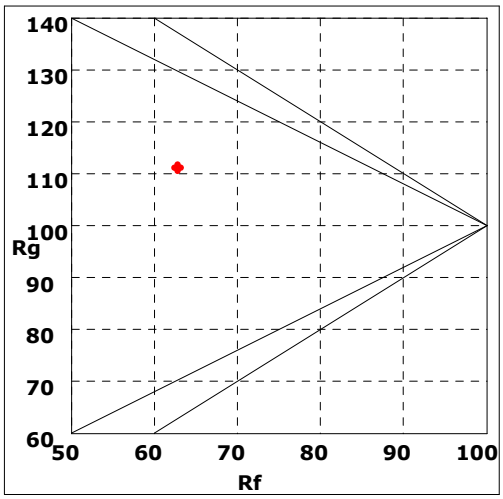
Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/29/14

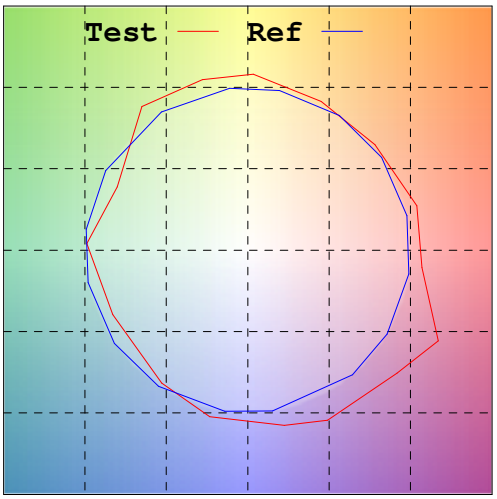
Rf: 62.8 CCT: 10547K u': 0.2213
Rg: 111.2 LER: 250.5 Duv: -0.03503 v': 0.4153

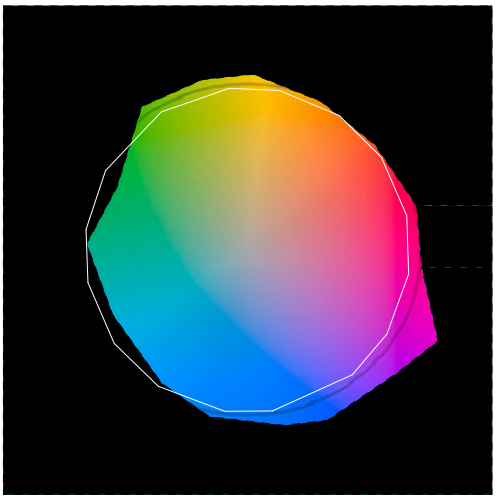


		500	
Hue Bin	Rf	Chroma	Hue
1	68.7	7.2%	4.8%
2	72.5	1.0%	8.9%
3	65.9	1.0%	14.2%
4	58.6	6.6%	17.9%
5	64.4	8.4%	15.5%
6	78.4	9.5%	8.0%
7	77.1	-11.5%	4.4%
8	76.5	-2.2%	8.3%
9	61.6	-11.0%	22.4%
10	44.5	-10.6%	36.4%
11	19.2	-1.9%	36.6%
12	45.1	1.4%	37.6%
13	55.0	12.1%	32.0%
14	56.0	14.4%	23.4%
15	62.8	28.4%	14.0%
16	78.1	7.1%	5.4%

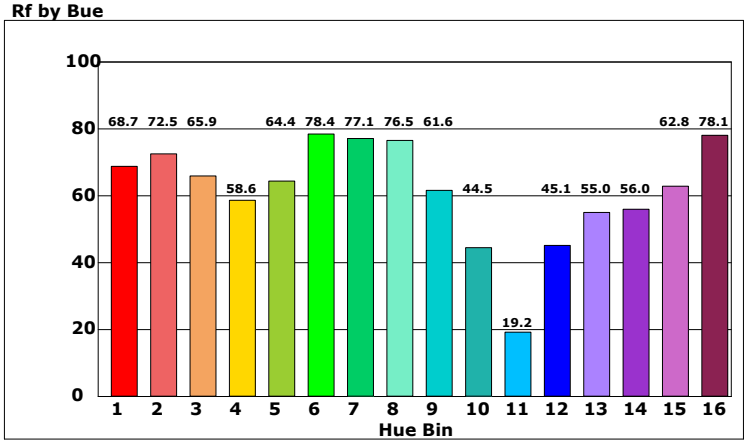




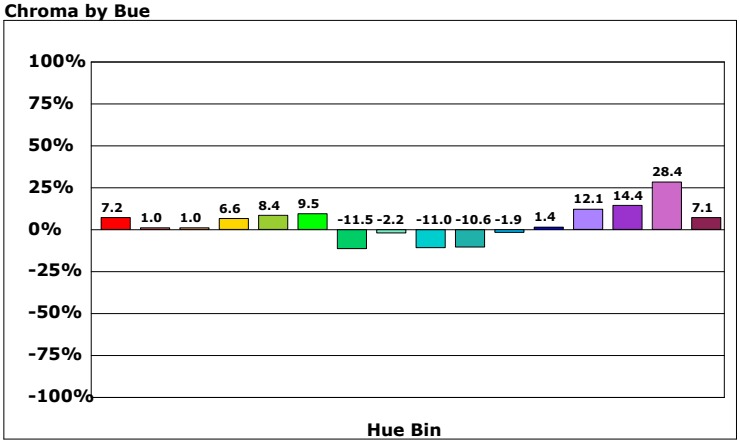




Rf by Bue

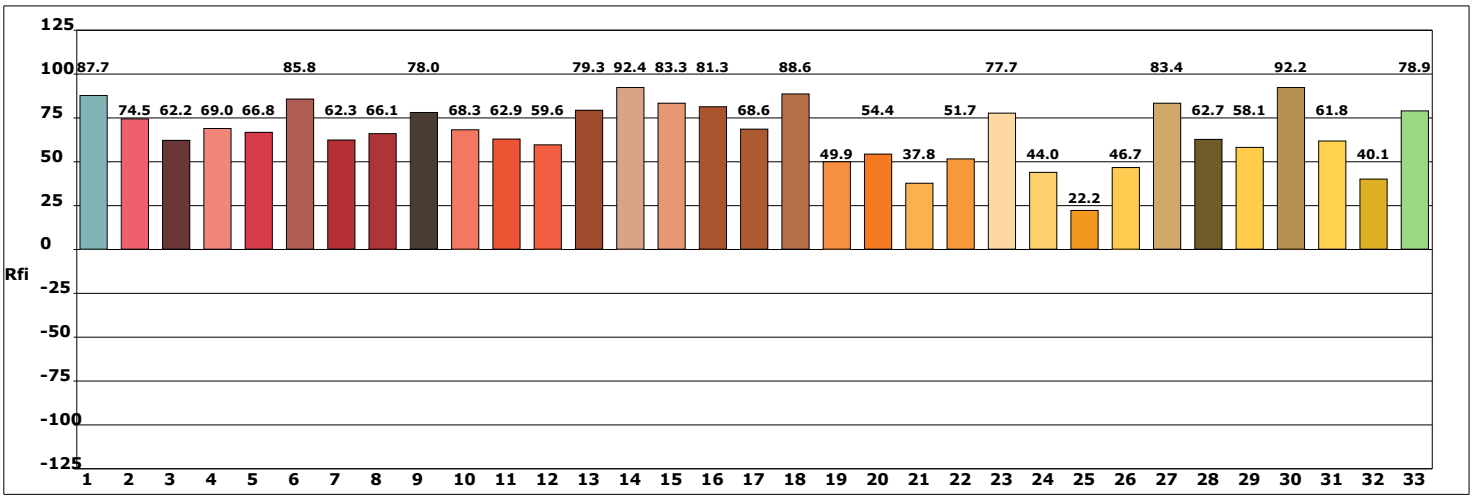


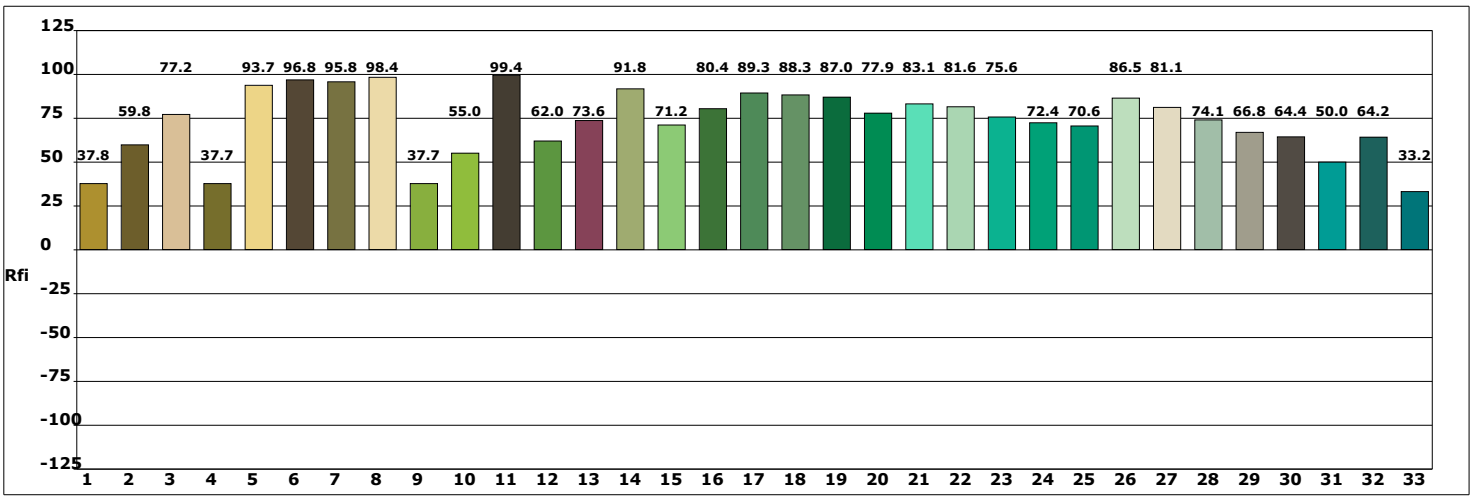
Chroma by Bue

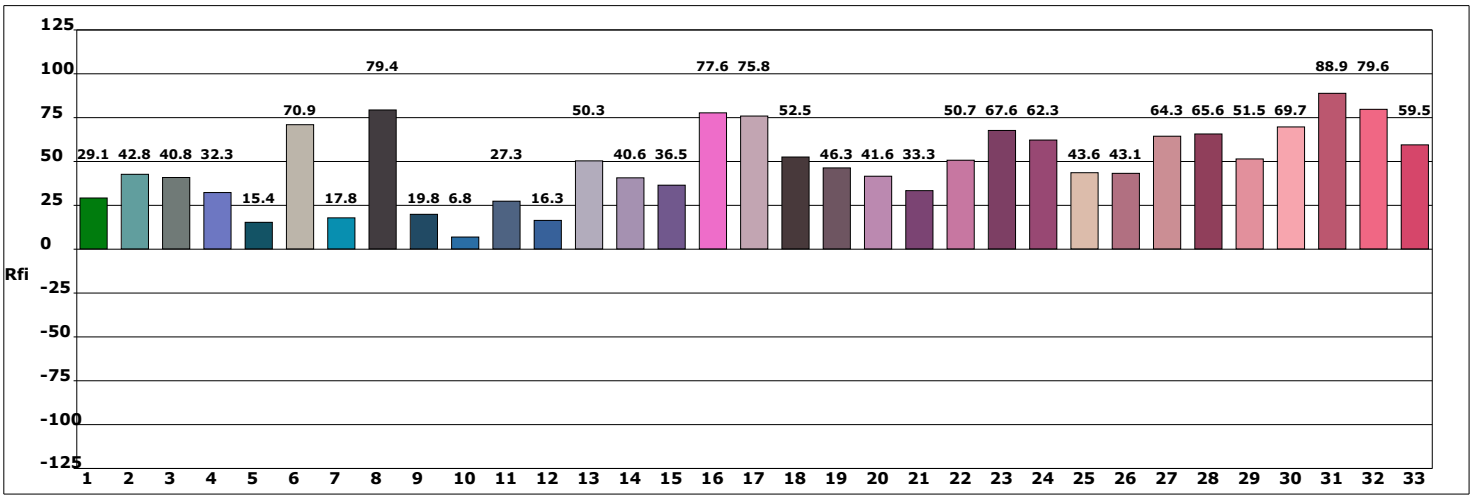


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