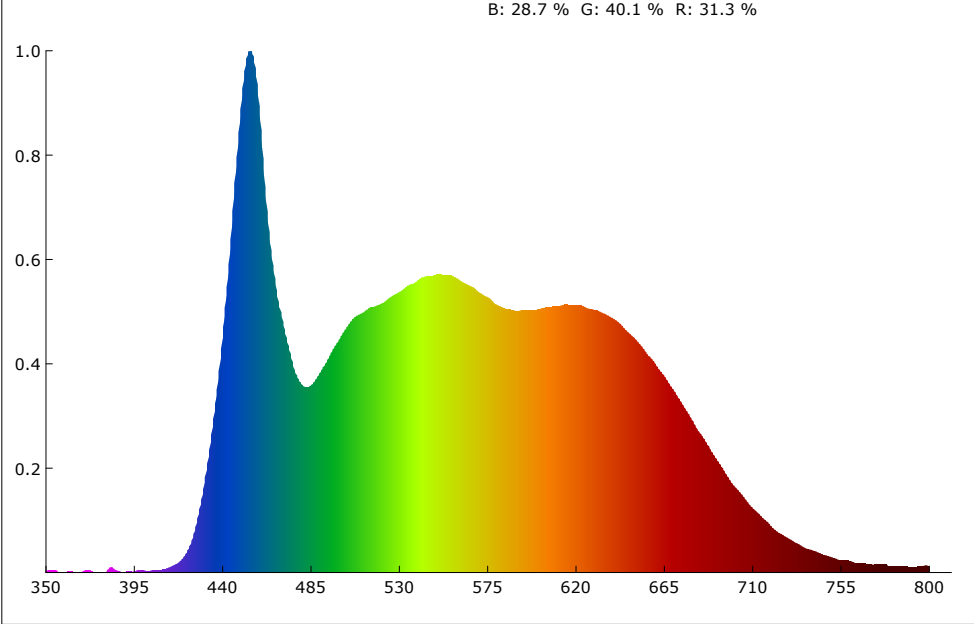
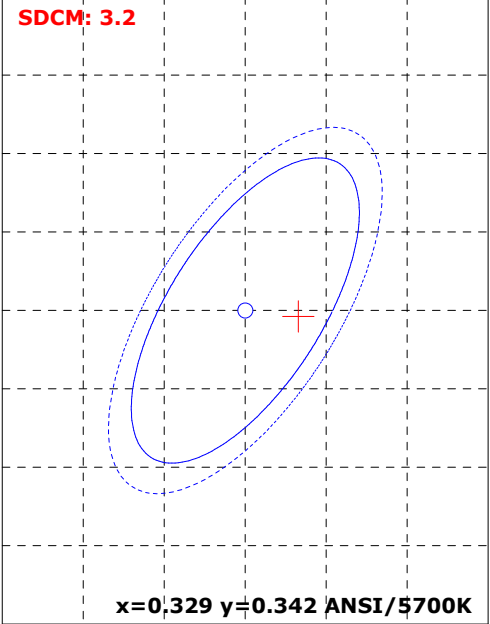


Spectrogram



SDCM



Color Parameter:

x: 0.3320 y: 0.3413 u: 0.2065 v: 0.3184 u': 0.2065 v': 0.4776
R_ratio: 31.3 % G_ratio: 40.1 % B_ratio: 28.7 % RedRatio: 16.2 % GreenRatio: 79.7 % BlueRatio: 4.1 %

Ra: 95.4 AvgR: 93.4
R1: 96.4 R2: 97.2 R3: 94.6 R4: 95.3 R5: 94.7 R6: 92.7 R7: 97.5 R8: 95.4
R9: 88.0 R10: 91.4 R11: 94.7 R12: 72.5 R13: 97.5 R14: 96.8 R15: 96.9

CCT: 5518 K	Flux: 4518.604 lm	PeakWave: 454.5 nm	SDCM: 3.2
S/P: 2.2	CentralWave: 455.6 nm	DominantWave: 545.6 nm	CentroidWave: 559.8 nm
HalfWidth: 27.8 nm	duv: 0.00030	purity: 2.1 %	CQS: 89.9
LER(TM-30): 278.8	Ep: 16206.9 mw	Rg: 99.5	Rf: 90.4
Red Ep: 4875.5 mw	Near red Ep: 558.2 mw	Near infrared Ep: 30.9 mw	

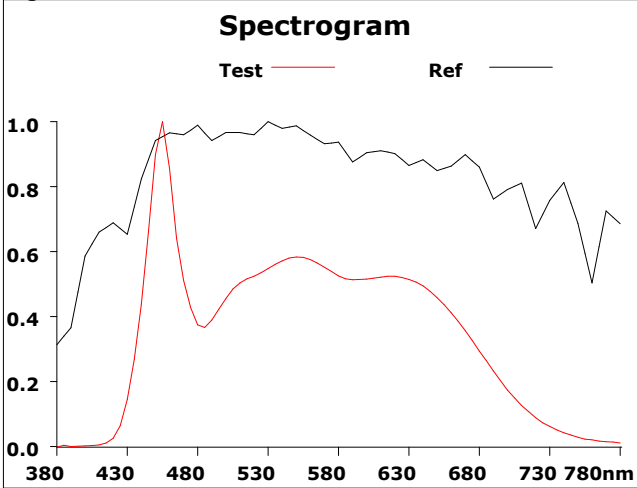
Electrical parameters:

Effic: 21.8 Lm/W	Energy: 23.8	Effi: G	
U: 223.3 V	I: 0.969 A	P: 207.100 W	Pf: 0.957

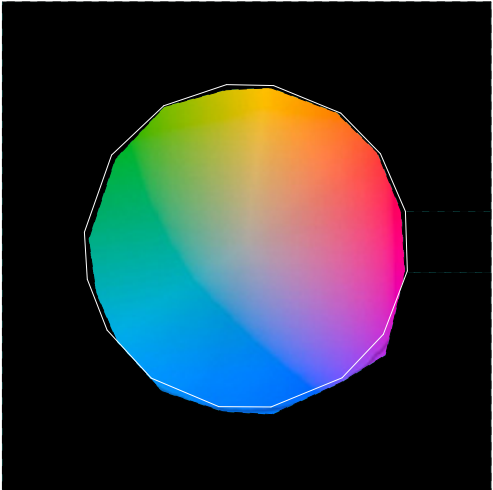
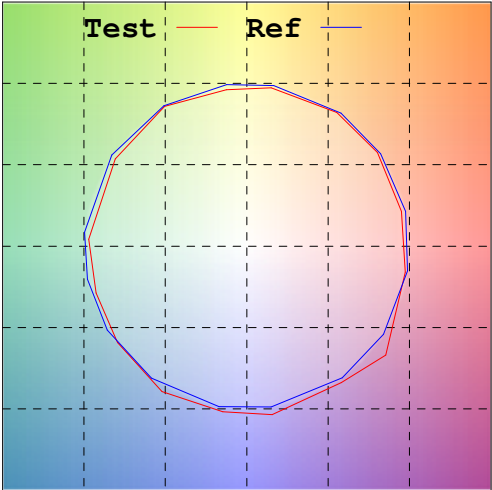
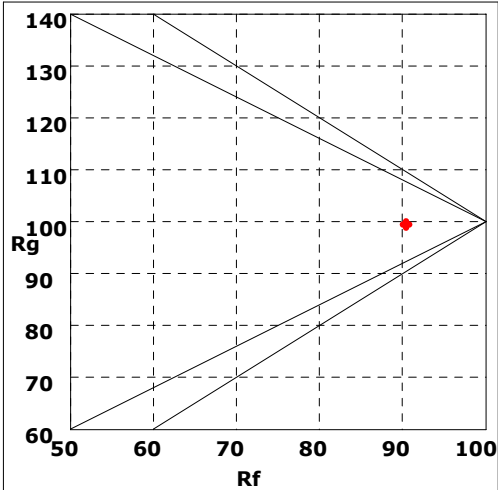
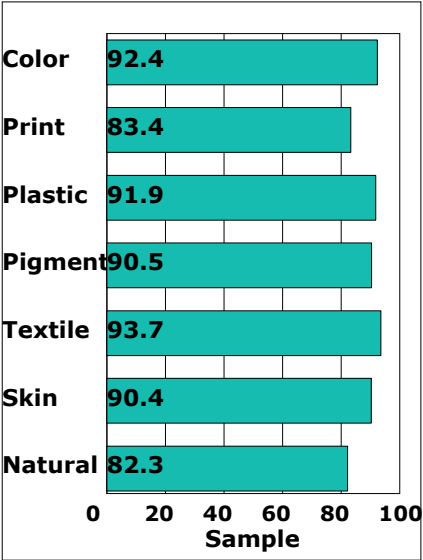
Product model:
Product number:
Tester:
Remarks:

Manufacturer:
Test unit:
Date of observation: 09/11/23

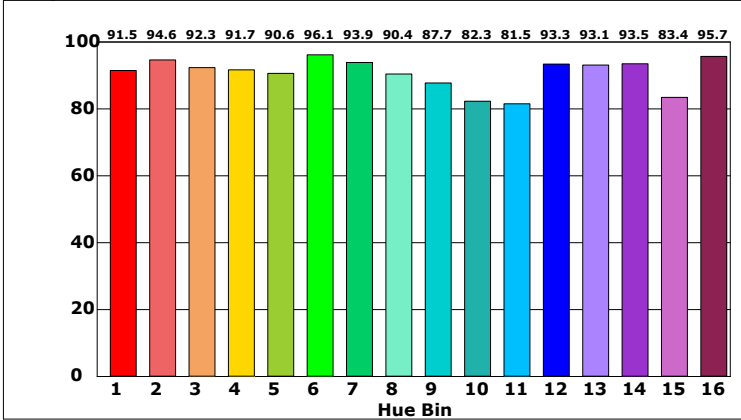
Rf: 90.4 CCT: 5518K u': 0.2065
Rg: 99.5 LER: 278.8 Duv: 0.00030 v': 0.4776



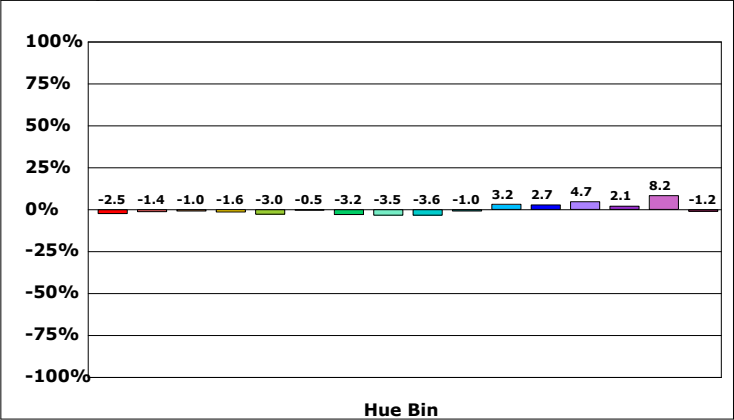
500			
Hue Bin	Rf	Chroma	Hue
1	91.5	-2.5%	0.5%
2	94.6	-1.4%	1.7%
3	92.3	-1.0%	2.4%
4	91.7	-1.6%	1.3%
5	90.6	-3.0%	0.8%
6	96.1	-0.5%	-0.1%
7	93.9	-3.2%	0.7%
8	90.4	-3.5%	3.6%
9	87.7	-3.6%	9.3%
10	82.3	-1.0%	10.0%
11	81.5	3.2%	9.9%
12	93.3	2.7%	2.9%
13	93.1	4.7%	-0.2%
14	93.5	2.1%	-2.0%
15	83.4	8.2%	-9.6%
16	95.7	-1.2%	-0.9%



Rf by Bue

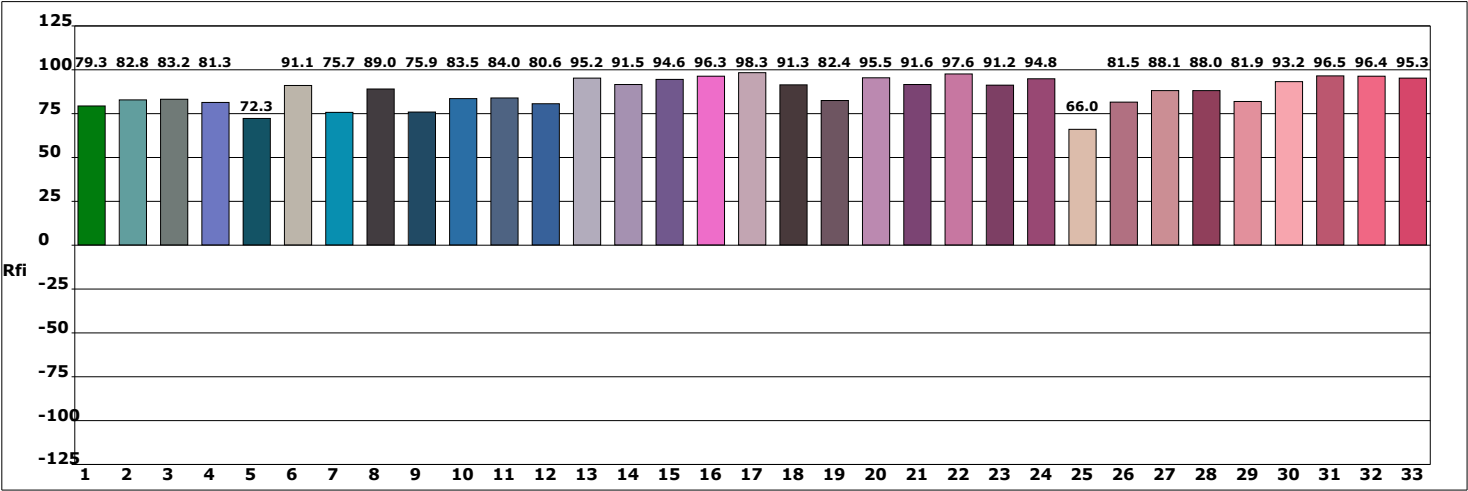
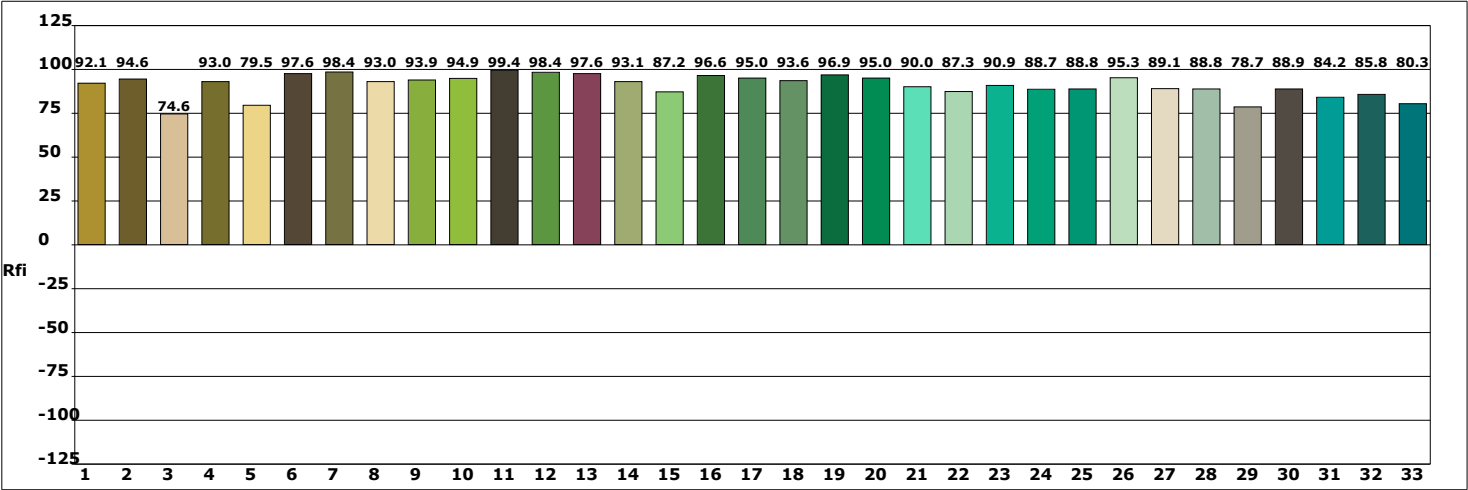
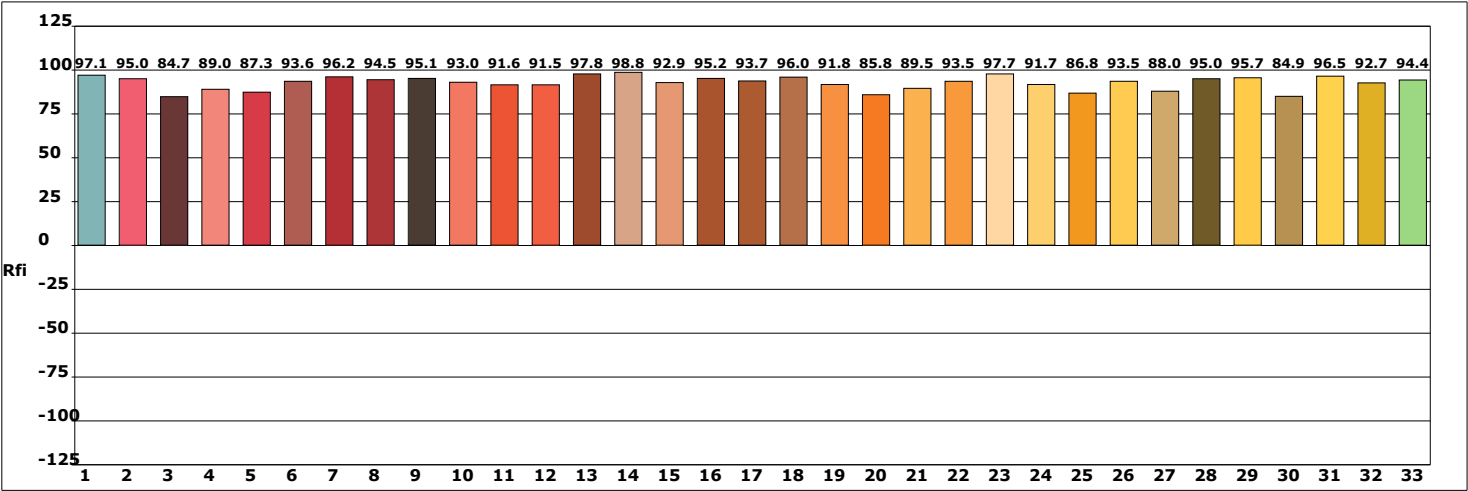


Chroma by Bue



Product model:
Product number:
Tester:
Remarks:

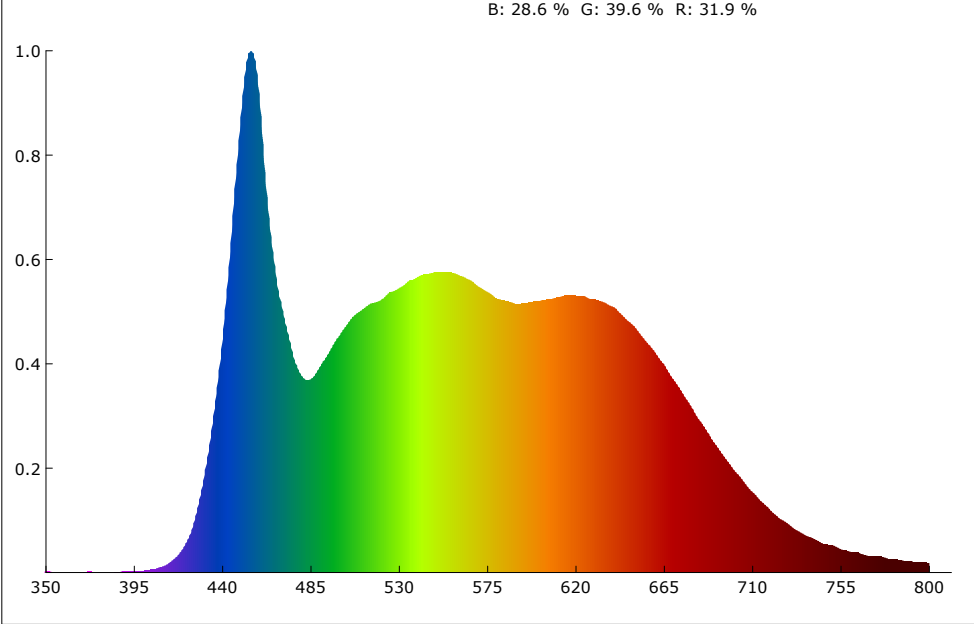
Manufacturer:
Test unit:
Date of observation: 09/11/23



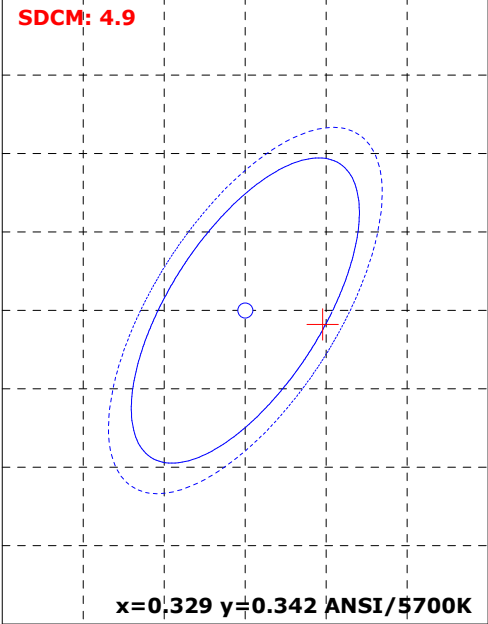
Product model:
Product number:
Tester:
Remarks:

Manufacturer:
Test unit:
Date of observation: 09/11/23

Spectrogram



SDCM



Color Parameter:

x: 0.3335	y: 0.3408	u: 0.2077	v: 0.3184	u': 0.2077	v': 0.4776
R_ratio: 31.9 %	G_ratio: 39.6 %	B_ratio: 28.6 %	RedRatio: 16.4 %	GreenRatio: 79.4 %	BlueRatio: 4.2 %
Ra: 96.1	AvgR: 94.5				
R1: 97.1	R2: 97.8	R3: 95.0	R4: 96.1	R5: 95.5	R6: 93.3
R7: 97.7	R8: 96.6	R9: 91.9	R10: 93.1	R11: 95.6	R12: 74.3
R13: 98.4	R14: 97.0	R15: 97.6			
CCT: 5452 K	Flux: 6358.735 lm	PeakWave: 454.5 nm	SDCM: 4.9		
S/P: 2.2	CentralWave: 456.4 nm	DominantWave: 555.6 nm	CentroidWave: 563.2 nm		
HalfWidth: 28.8 nm	duv: -0.00059	purity: 2.3 %	CQS: 89.8		
LER(TM-30): 272.6	Ep: 23326.5 mw	Rg: 99.8	Rf: 90.9		
Red Ep: 7068.6 mw	Near red Ep: 1075.2 mw	Near infrared Ep: 76.9 mw			

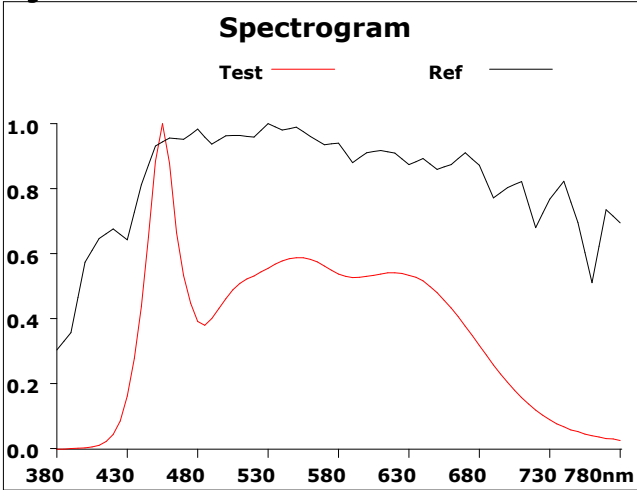
Electrical parameters:

Effic: 31.5 Lm/W	Energy: 34.3	Effi: G	
U: 223.7 V	I: 0.943 A	P: 201.600 W	Pf: 0.955

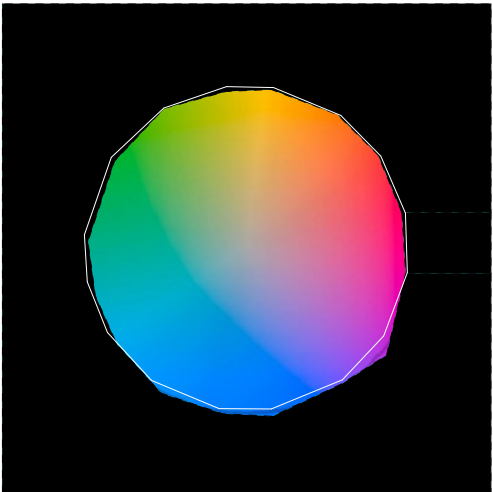
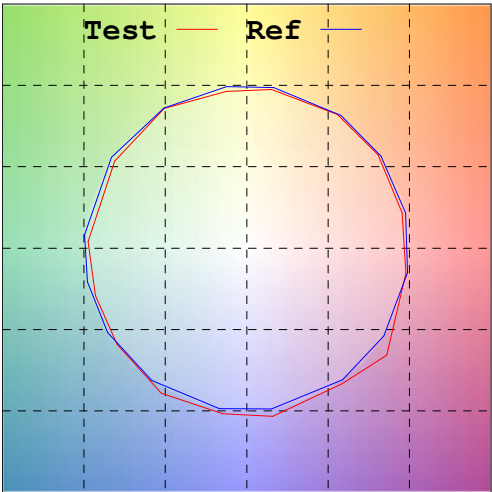
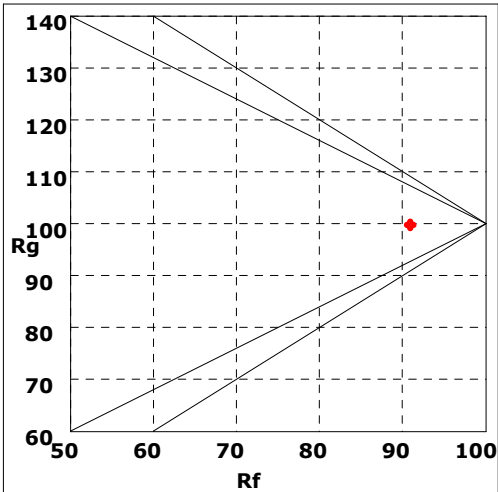
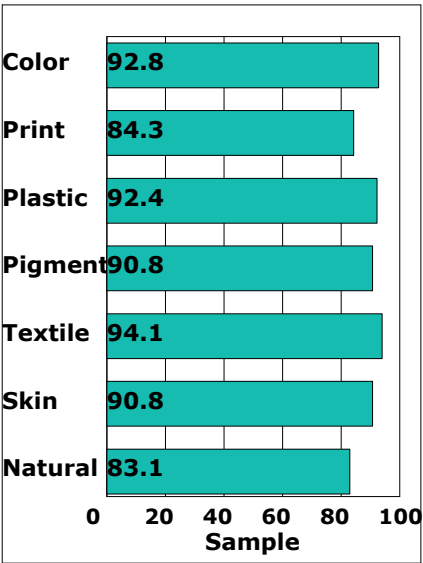
Product model:
Product number:
Tester:
Remarks:

Manufacturer:
Test unit:
Date of observation: 09/11/23

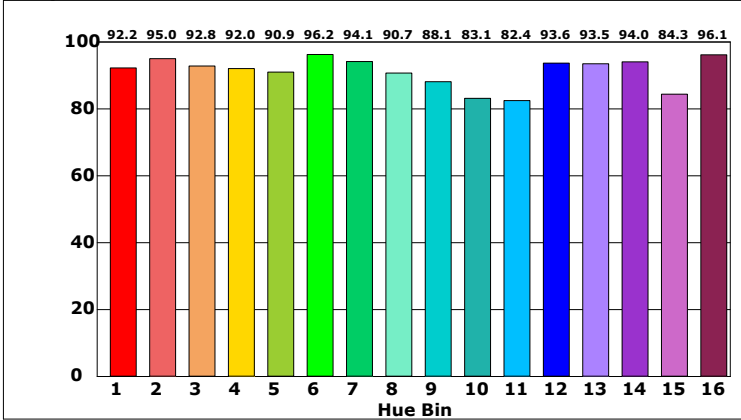
Rf: 90.9 CCT: 5452K u': 0.2077
Rg: 99.8 LER: 272.6 Duv: -0.00059 v': 0.4776



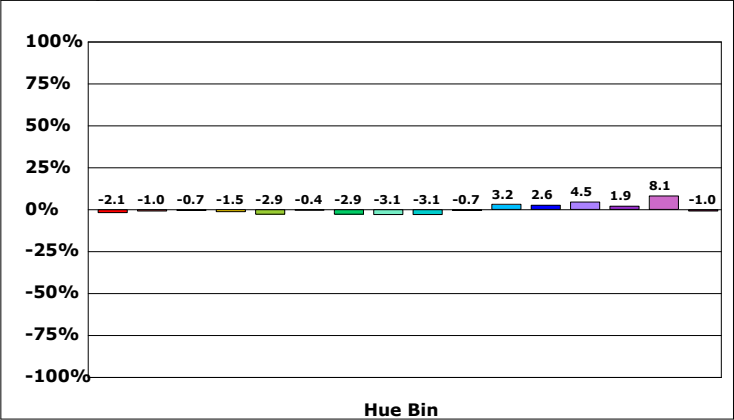
500			
Hue Bin	Rf	Chroma	Hue
1	92.2	-2.1%	0.7%
2	95.0	-1.0%	1.7%
3	92.8	-0.7%	2.1%
4	92.0	-1.5%	1.2%
5	90.9	-2.9%	0.7%
6	96.2	-0.4%	-0.0%
7	94.1	-2.9%	0.9%
8	90.7	-3.1%	3.7%
9	88.1	-3.1%	9.1%
10	83.1	-0.7%	9.5%
11	82.4	3.2%	9.4%
12	93.6	2.6%	2.7%
13	93.5	4.5%	-0.0%
14	94.0	1.9%	-1.5%
15	84.3	8.1%	-8.7%
16	96.1	-1.0%	-0.6%



Rf by Bue

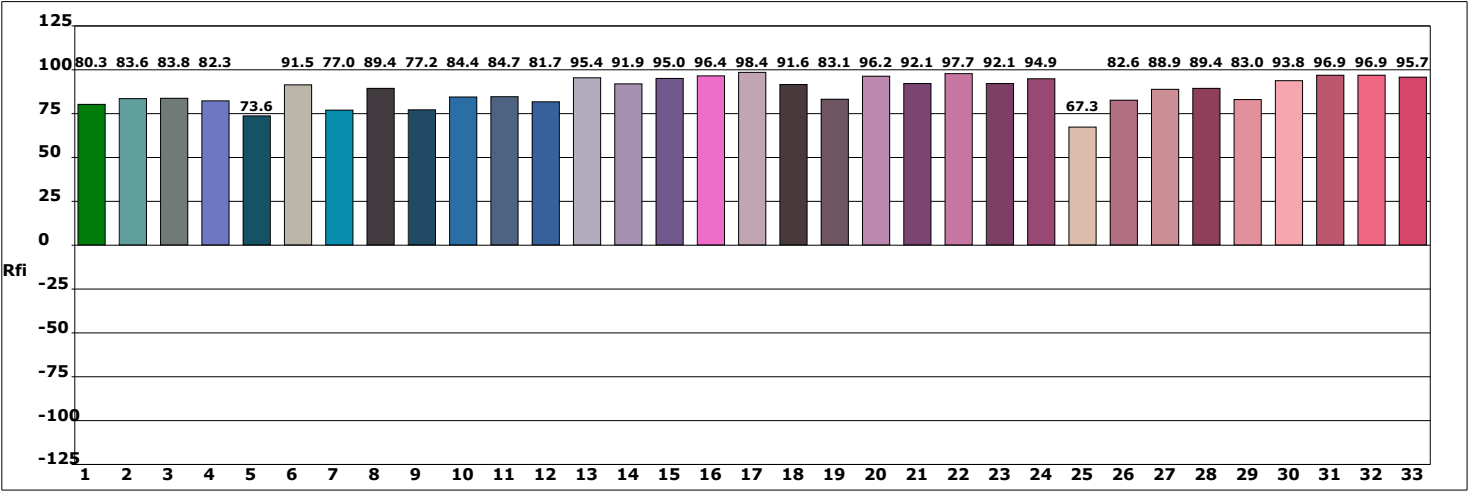
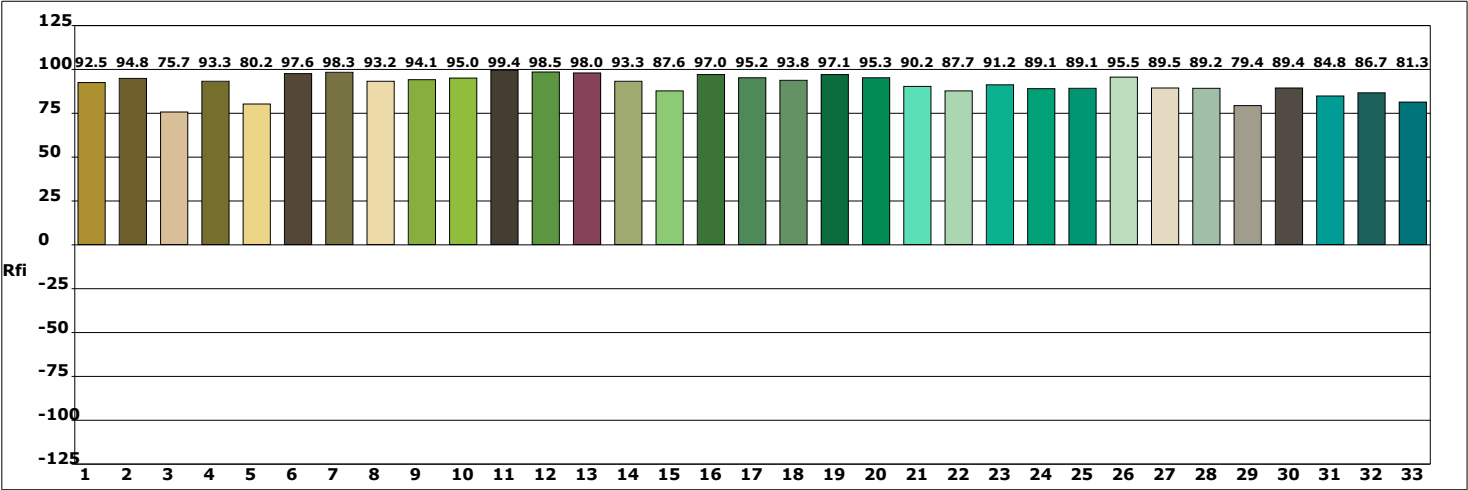
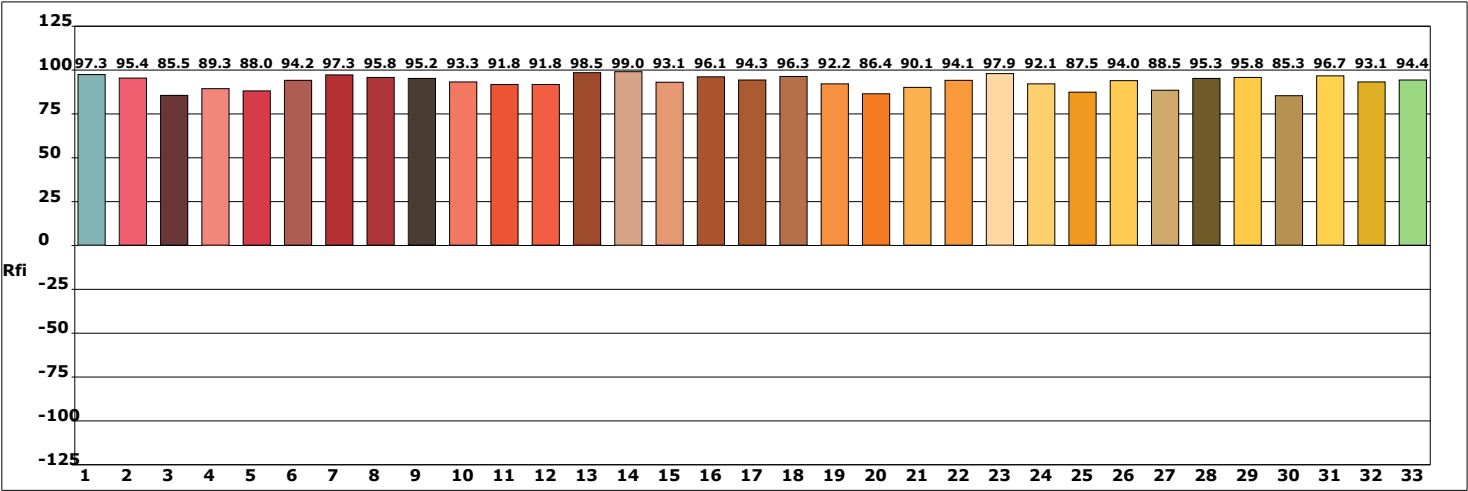


Chroma by Bue



Product model:
Product number:
Tester:
Remarks:

Manufacturer:
Test unit:
Date of observation: 09/11/23



Product model:

Product number:

Tester:

Remarks:

Manufacturer:

Test unit:

Date of observation: 09/11/23