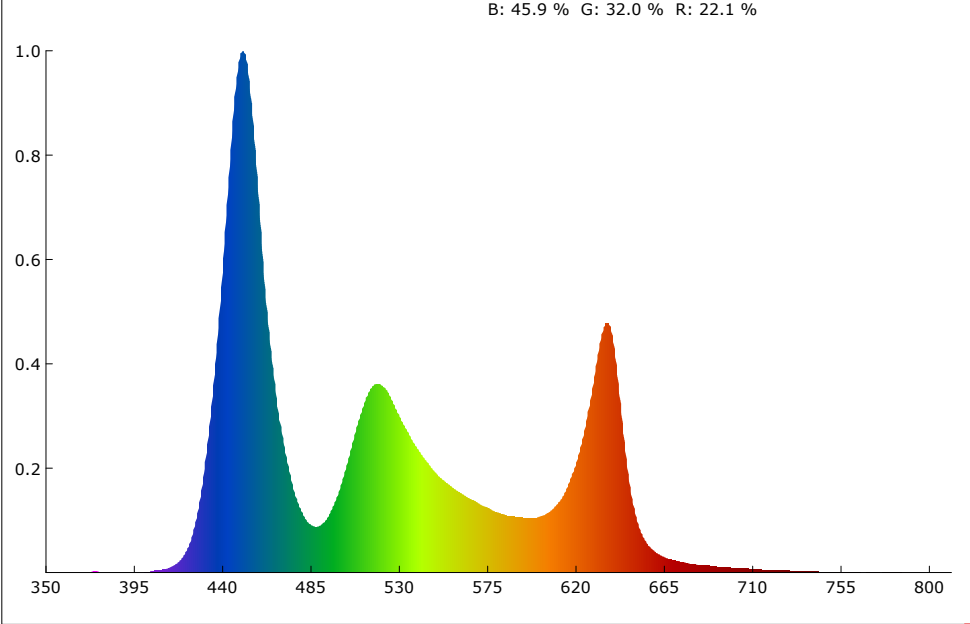
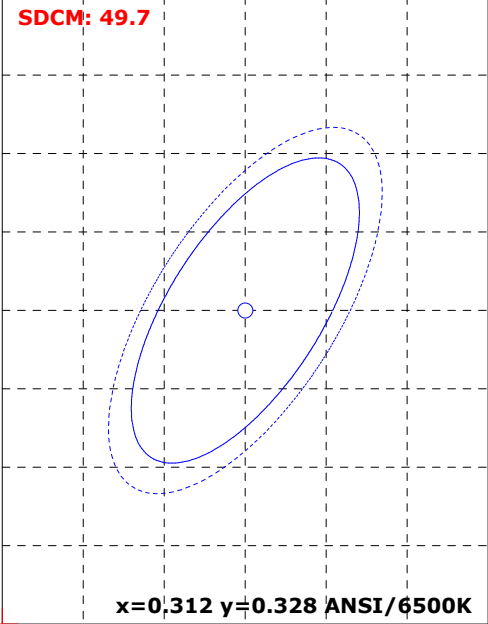


Spectrogram



SDCM



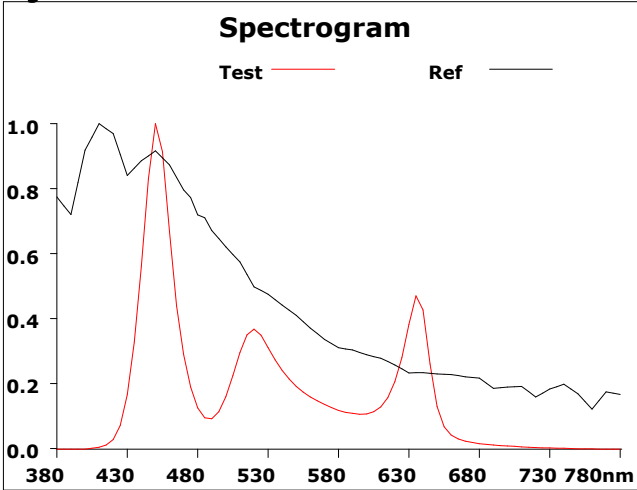
Color Parameter:

x: 0.2568	y: 0.2338	u: 0.1941	v: 0.2651	u': 0.1941	v': 0.3977		
R_ratio: 22.1 %	G_ratio: 32.0 %	B_ratio: 45.9 %	RedRatio: 16.8 %	GreenRatio: 76.6 %	BlueRatio: 6.7 %		
Ra: 69.8	AvgR: 57.1						
R1: 63.7	R2: 90.2	R3: 63.4	R4: 59.8	R5: 75.9	R6: 89.1	R7: 77.6	R8: 39.4
R9: -94.9	R10: 86.3	R11: 48.1	R12: 62.5	R13: 70.7	R14: 77.3	R15: 47.4	
CCT: 49750 K	Flux: 678.555 lm	PeakWave: 450.6 nm	SDCM: 49.7				
S/P: 3.2	CentralWave: 451.0 nm	DominantWave: 470.4 nm	CentroidWave: 522.0 nm				
HalfWidth: 23.9 nm	duv: -0.01325	purity: 36.4 %	CQS: 89.5				
LER(TM-30): 228.6	Ep: 2968.0 mw	Rg: 115.7	Rf: 72.2				
Red Ep: 652.1 mw	Near red Ep: 13.2 mw	Near infrared Ep: 0.4 mw					

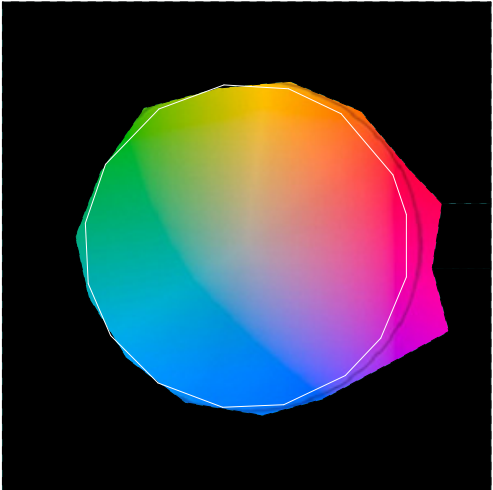
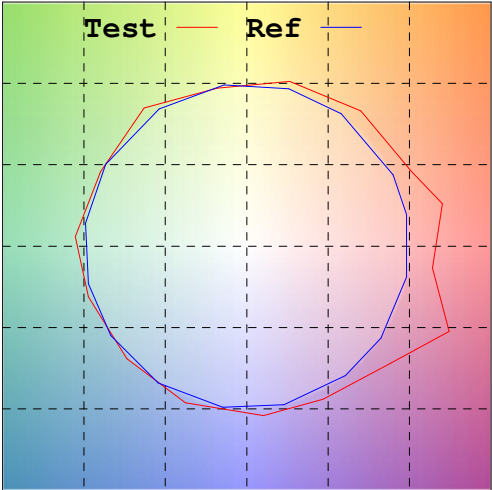
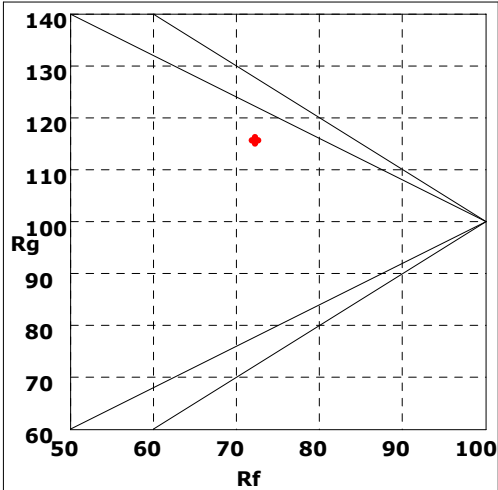
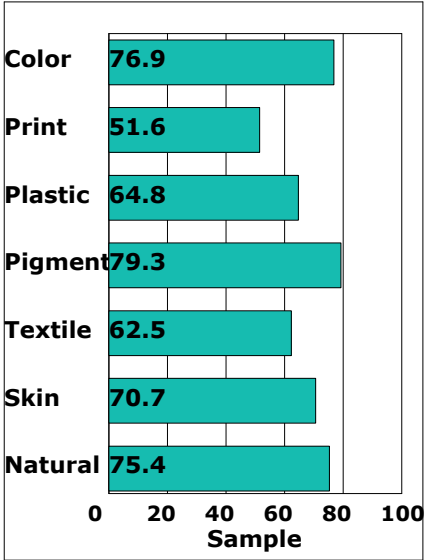
Electrical parameters:

Effic: 7.8 Lm/W	Energy: 8.5	Effi: G	
U: 222.3 V	I: 0.617 A	P: 87.000 W	Pf: 0.634

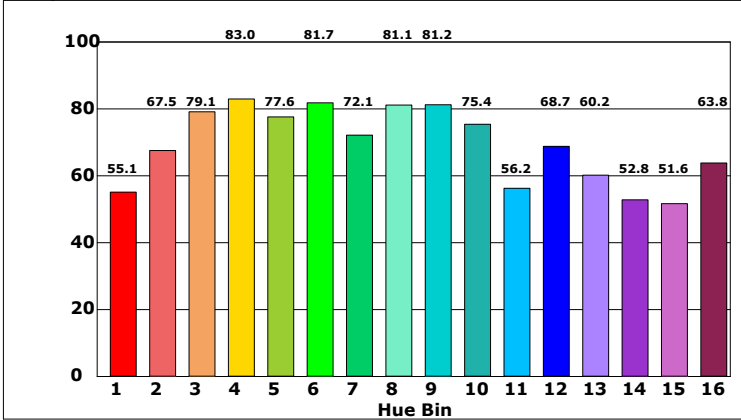
Rf: 72.2 CCT: 49750K u': 0.1941
Rg: 115.7 LER: 228.6 Duv: -0.01325 v': 0.3977



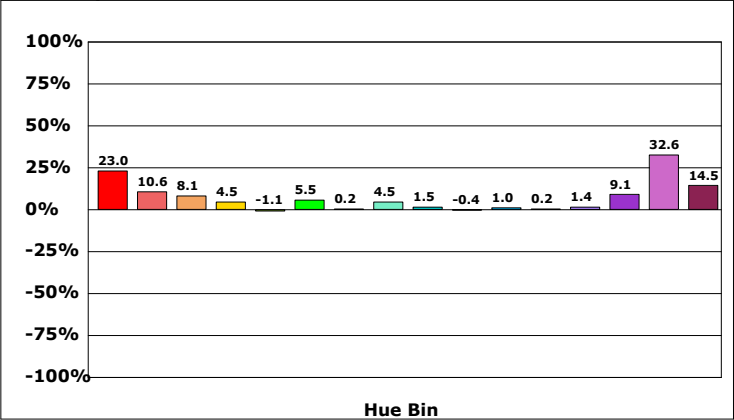
500			
Hue Bin	Rf	Chroma	Hue
1	55.1	23.0%	2.2%
2	67.5	10.6%	-4.7%
3	79.1	8.1%	-8.9%
4	83.0	4.5%	0.4%
5	77.6	-1.1%	4.5%
6	81.7	5.5%	7.4%
7	72.1	0.2%	5.4%
8	81.1	4.5%	9.2%
9	81.2	1.5%	8.0%
10	75.4	-0.4%	17.1%
11	56.2	1.0%	20.7%
12	68.7	0.2%	25.3%
13	60.2	1.4%	24.0%
14	52.8	9.1%	27.5%
15	51.6	32.6%	26.7%
16	63.8	14.5%	8.4%



Rf by Bue



Chroma by Bue



Product model: P19
Product number:
Tester:
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,
Test unit:
Date of observation: 08/10/12

