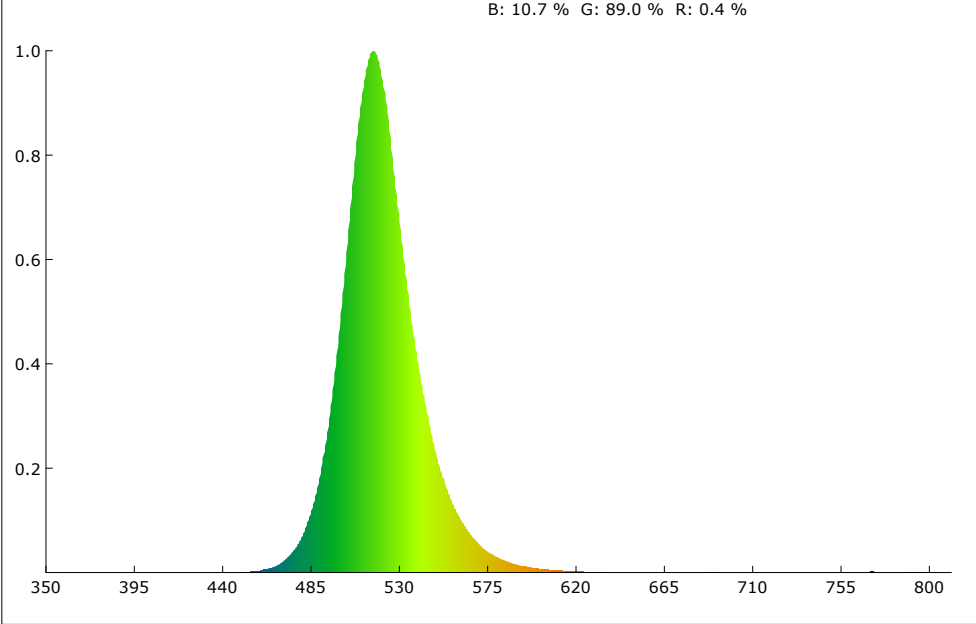
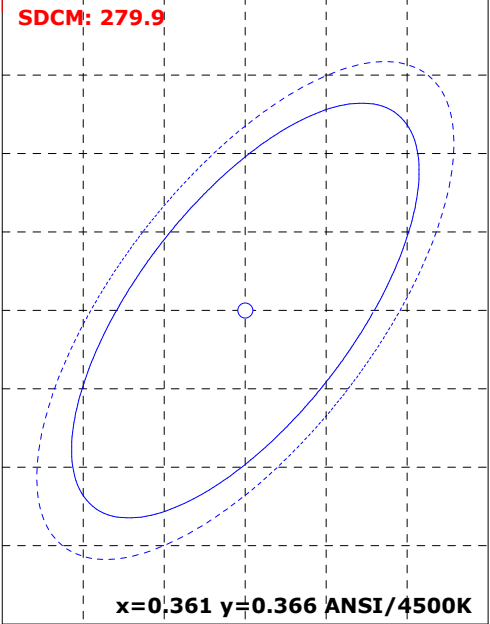


Spectrogram



SDCM



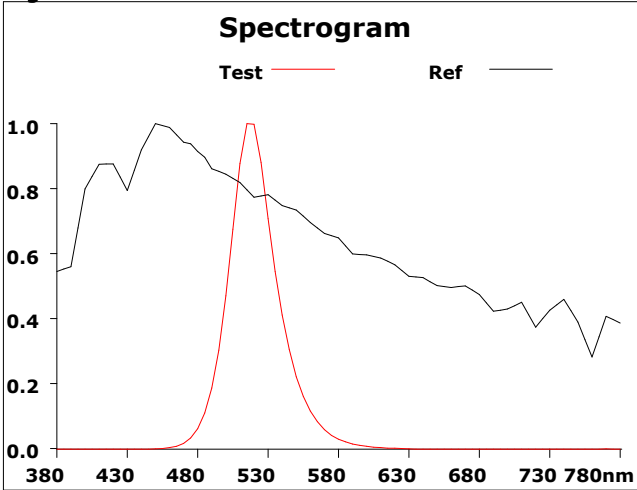
Color Parameter:

x: 0.1520	y: 0.7075	u: 0.0544	v: 0.3795	u': 0.0544	v': 0.5692		
R_ratio: 0.4 %	G_ratio: 89.0 %	B_ratio: 10.7 %	RedRatio: 0.2 %	GreenRatio: 98.8 %	BlueRatio: 1.0 %		
Ra: -21.8		AvgR: -34.6					
R1: -33.9	R2: -5.8	R3: -18.5	R4: -63.7	R5: -8.8	R6: -12.0	R7: -2.6	R8: -29.2
R9: -99.0	R10: -99.0	R11: -90.3	R12: -25.0	R13: -39.9	R14: 40.7	R15: -31.7	
CCT: 8270 K		Flux: 1119.606 lm	PeakWave: 516.5 nm	SDCM: 279.9			
S/P: 3.1		CentralWave: 518.5 nm	DominantWave: 522.2 nm	CentroidWave: 521.8 nm			
HalfWidth: 34.8 nm		duv: 0.16046	purity: 74.9 %	CQS: 0.3			
LER(TM-30): 454.2		Ep: 2464.8 mw	Rg: 8.8	Rf: 1.0			
Red Ep: 9.1 mw		Near red Ep: 1.1 mw	Near infrared Ep: 0.8 mw				

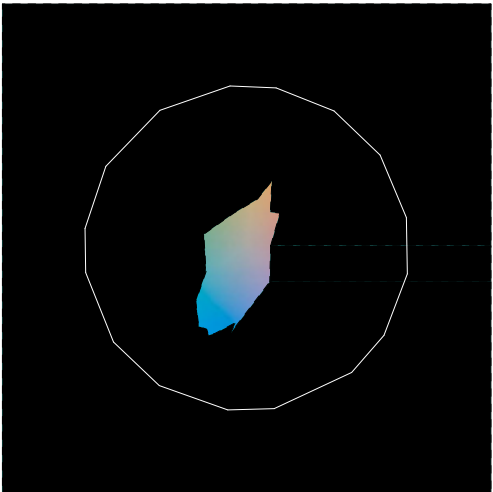
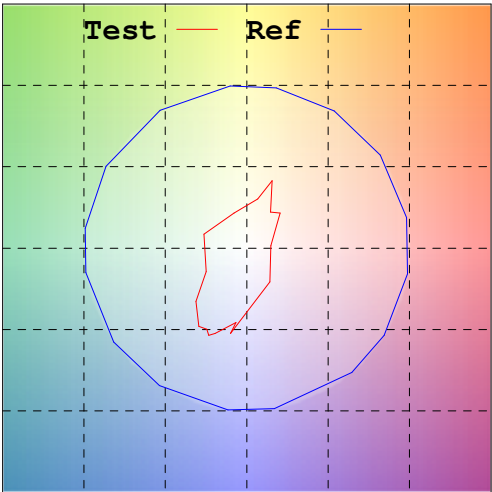
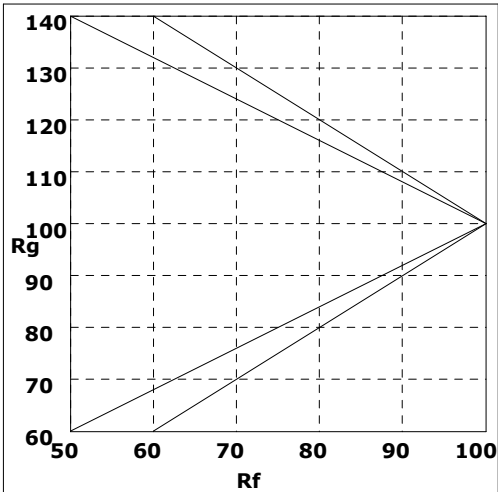
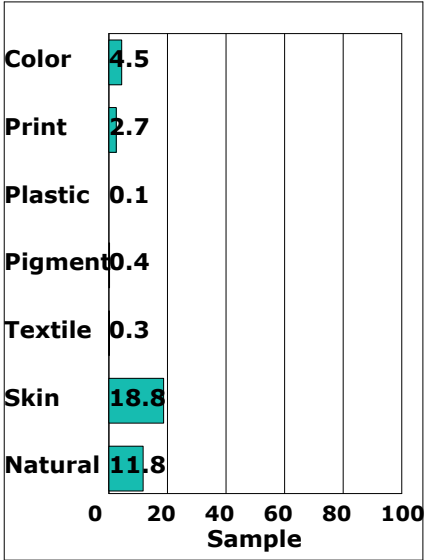
Electrical parameters:

Effic: 13.4 Lm/W	Energy: 14.6	Effi: G	
U: 222.0 V	I: 0.597 A	P: 83.680 W	Pf: 0.631

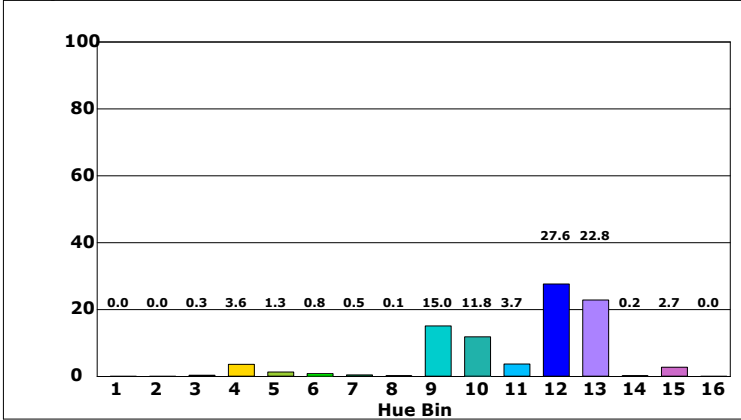
Rf: 1.0 CCT: 8270K u': 0.0544
Rg: 8.8 LER: 454.2 Duv: 0.16046 v': 0.5692



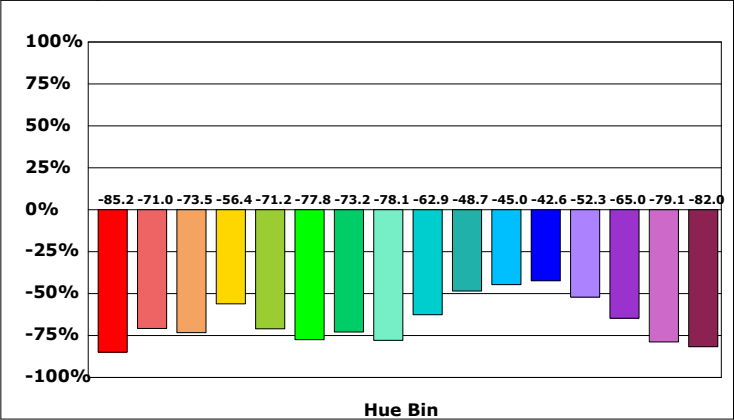
500			
Hue Bin	Rf	Chroma	Hue
1	0.0	-85.2%	-0.8%
2	0.0	-71.0%	4.7%
3	0.3	-73.5%	-2.0%
4	3.6	-56.4%	-8.7%
5	1.3	-71.2%	-3.1%
6	0.8	-77.8%	-2.5%
7	0.5	-73.2%	1.1%
8	0.1	-78.1%	11.4%
9	15.0	-62.9%	30.5%
10	11.8	-48.7%	20.9%
11	3.7	-45.0%	5.0%
12	27.6	-42.6%	-20.6%
13	22.8	-52.3%	-26.7%
14	0.2	-65.0%	-42.2%
15	2.7	-79.1%	-51.4%
16	0.0	-82.0%	-21.2%



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

