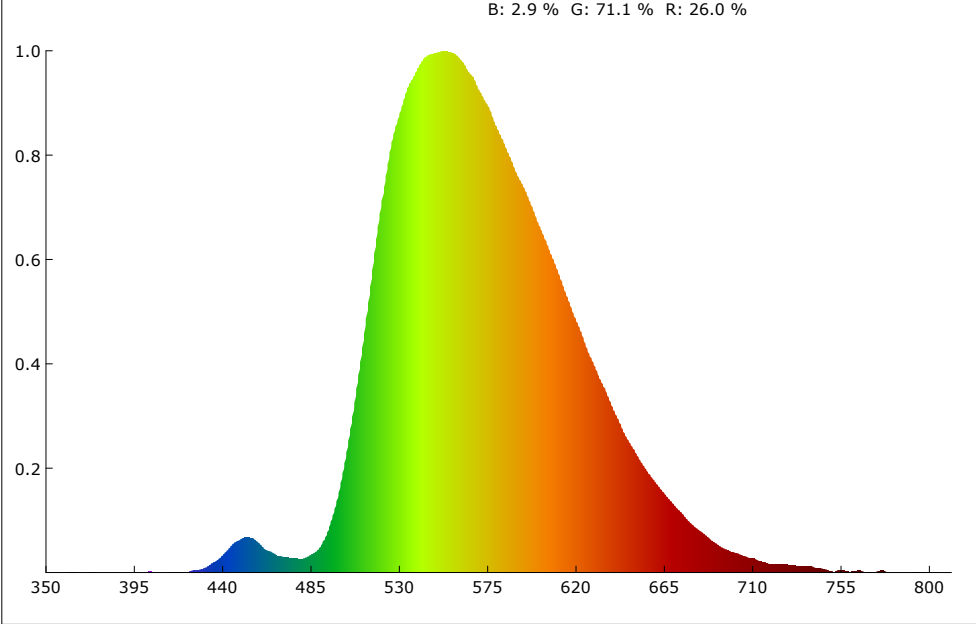
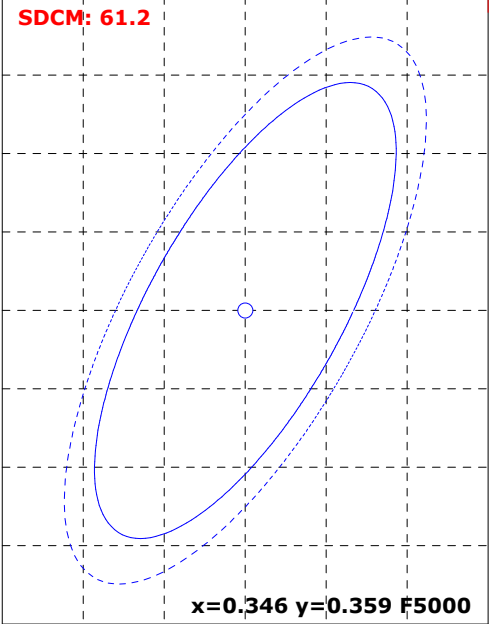


Spectrogram



SDCM



Color Parameter:

x: 0.4227 y: 0.5367 u: 0.1967 v: 0.3747 u': 0.1967 v': 0.5620
R_ratio: 26.0 % G_ratio: 71.1 % B_ratio: 2.9 % RedRatio: 11.2 % GreenRatio: 88.6 % BlueRatio: 0.2 %

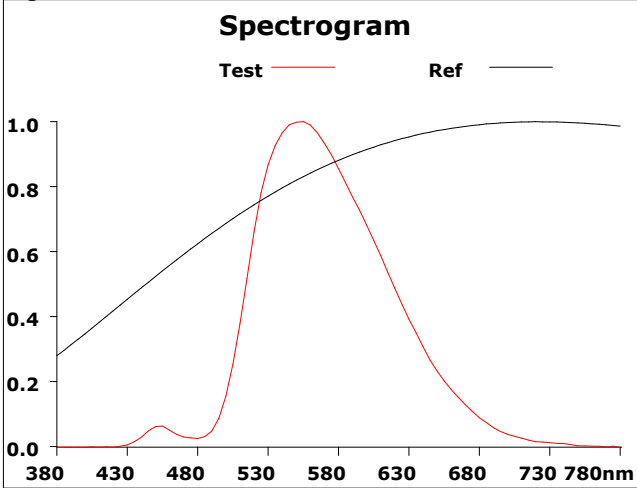
Ra: 49.4 AvgR: 32.0
R1: 40.4 R2: 56.8 R3: 71.5 R4: 36.2 R5: 39.0 R6: 46.3 R7: 76.3 R8: 28.8
R9: -99.0 R10: 6.6 R11: 18.9 R12: 2.8 R13: 42.1 R14: 85.7 R15: 27.0

CCT: 4012 K Flux: 1065.029 lm PeakWave: 556.5 nm SDCM: 61.2
S/P: 1.2 CentralWave: 566.2 nm DominantWave: 568.7 nm CentroidWave: 572.9 nm
HalfWidth: 104.0 nm duv: 0.04931 purity: 88.2 % CQS: 55.4
LER(TM-30): 473.6 Ep: 2248.8 mw Rg: 57.6 Rf: 51.6
Red Ep: 578.6 mw Near red Ep: 20.0 mw Near infrared Ep: 0.2 mw

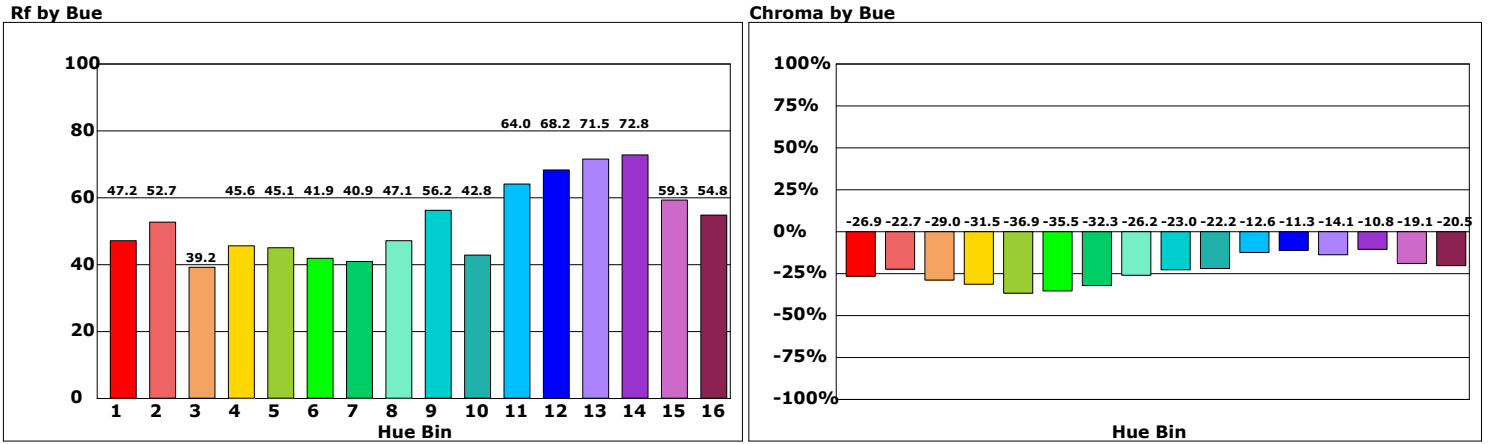
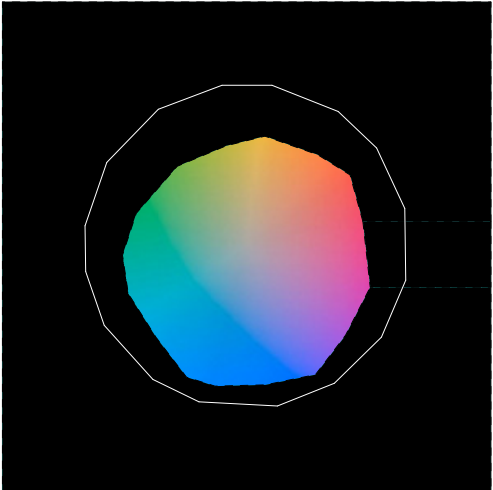
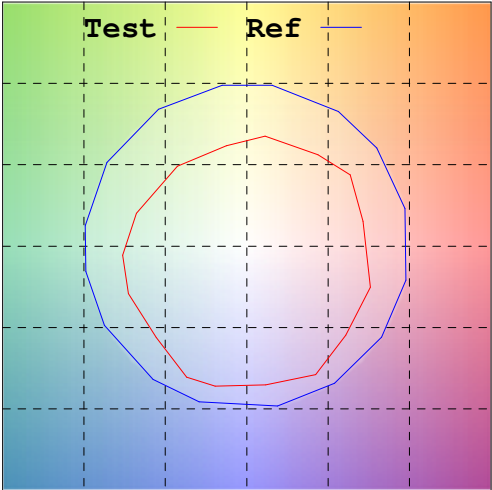
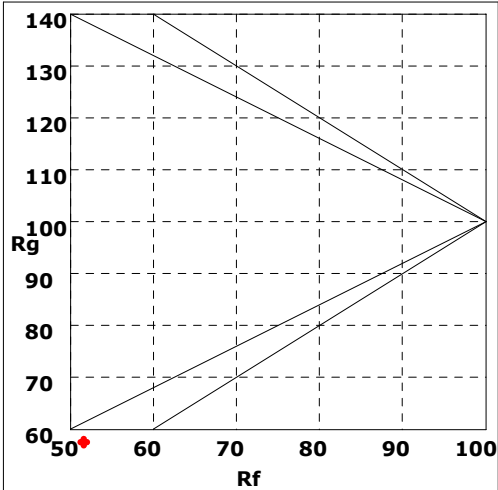
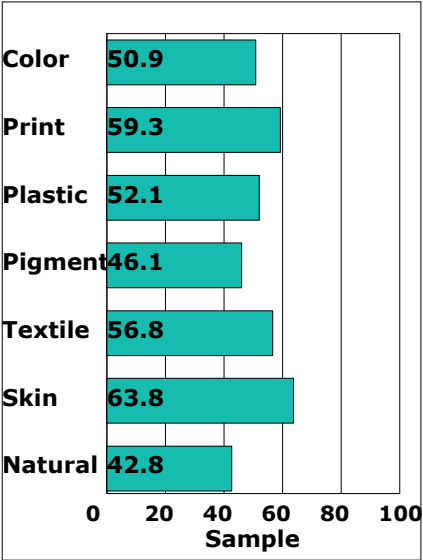
Electrical parameters:

Effic: 14.9 lm/W Energy: 16.2 Effi: G
U: 222.0 V I: 0.517 A P: 71.420 W Pf: 0.622

Rf: 51.6 CCT: 4012K u': 0.1967
Rg: 57.6 LER: 473.6 Duv: 0.04931 v': 0.5620



500			
Hue Bin	Rf	Chroma	Hue
1	47.2	-26.9%	-2.6%
2	52.7	-22.7%	-4.6%
3	39.2	-29.0%	-4.3%
4	45.6	-31.5%	-1.9%
5	45.1	-36.9%	4.9%
6	41.9	-35.5%	9.6%
7	40.9	-32.3%	16.0%
8	47.1	-26.2%	13.3%
9	56.2	-23.0%	18.4%
10	42.8	-22.2%	23.9%
11	64.0	-12.6%	16.5%
12	68.2	-11.3%	7.7%
13	71.5	-14.1%	-4.6%
14	72.8	-10.8%	-6.7%
15	59.3	-19.1%	-11.3%
16	54.8	-20.5%	-8.5%



Product model: P19
Product number:
Tester:
Remarks:

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

