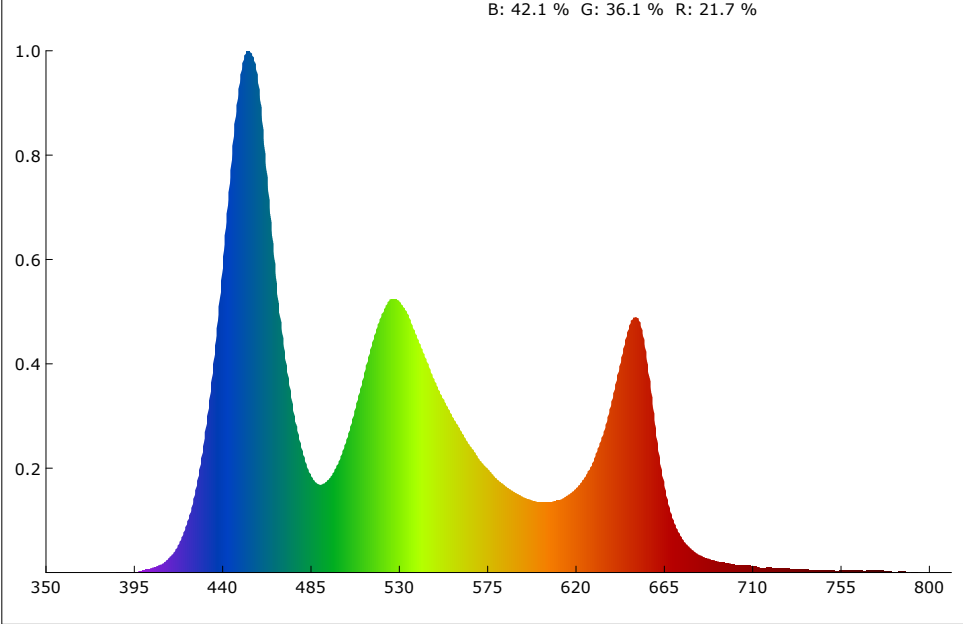
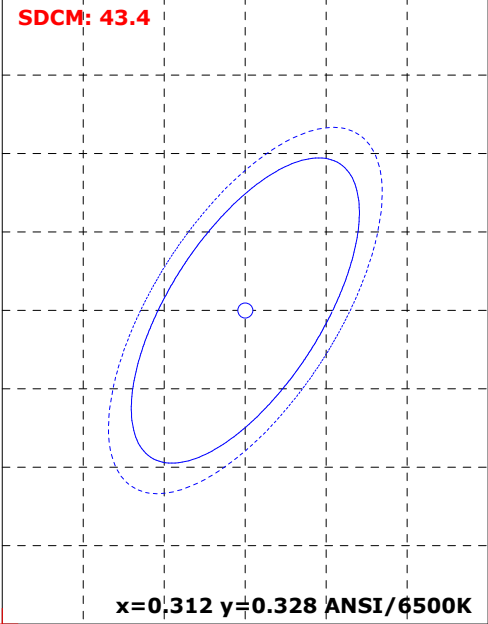


Spectrogram



SDCM



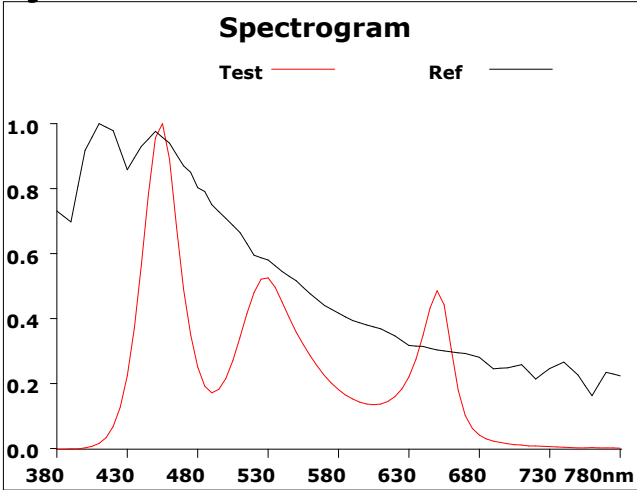
Color Parameter:

|                    |                       |                          |                        |                    |                  |
|--------------------|-----------------------|--------------------------|------------------------|--------------------|------------------|
| x: 0.2512          | y: 0.2729             | u: 0.1741                | v: 0.2837              | u': 0.1741         | v': 0.4255       |
| R_ratio: 21.7 %    | G_ratio: 36.1 %       | B_ratio: 42.1 %          | RedRatio: 11.2 %       | GreenRatio: 82.5 % | BlueRatio: 6.3 % |
| Ra: 84.9           | AvgR: 78.5            |                          |                        |                    |                  |
| R1: 92.1           | R2: 87.1              | R3: 73.3                 | R4: 87.6               | R5: 90.3           | R6: 81.0         |
| R7: 88.0           | R8: 79.8              | R9: 41.9                 | R10: 65.5              | R11: 78.1          | R12: 50.4        |
| R13: 88.3          | R14: 85.0             | R15: 89.6                |                        |                    |                  |
| CCT: 16952 K       | Flux: 3883.063 lm     | PeakWave: 453.3 nm       | SDCM: 43.4             |                    |                  |
| S/P: 3.0           | CentralWave: 454.1 nm | DominantWave: 481.5 nm   | CentroidWave: 529.1 nm |                    |                  |
| HalfWidth: 30.7 nm | duv: 0.01135          | purity: 33.1 %           | CQS: 85.7              |                    |                  |
| LER(TM-30): 247.8  | Ep: 15669.8 mw        | Rg: 100.0                | Rf: 80.2               |                    |                  |
| Red Ep: 3381.2 mw  | Near red Ep: 105.1 mw | Near infrared Ep: 5.7 mw |                        |                    |                  |

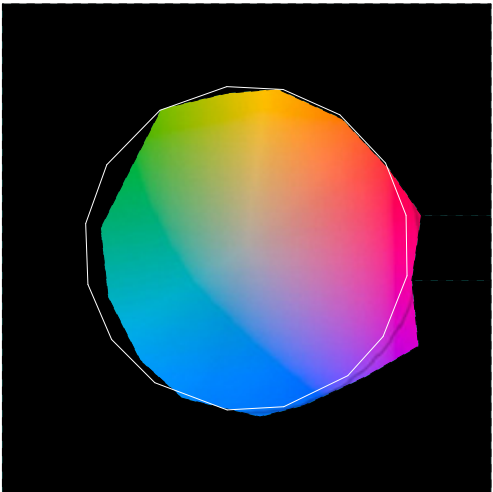
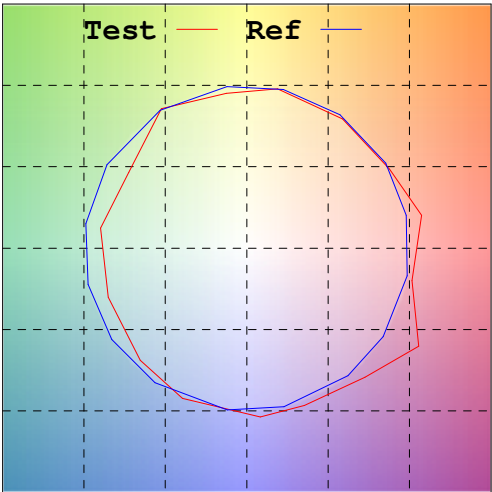
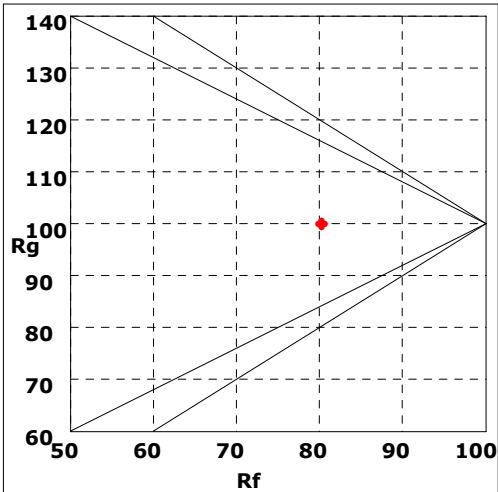
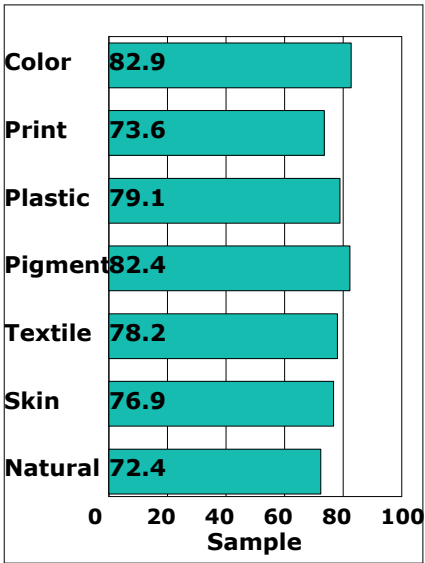
Electrical parameters:

|                  |              |              |           |
|------------------|--------------|--------------|-----------|
| Effic: 10.8 Lm/W | Energy: 11.8 | Effi: G      |           |
| U: 221.6 V       | I: 1.651 A   | P: 359.200 W | Pf: 0.981 |

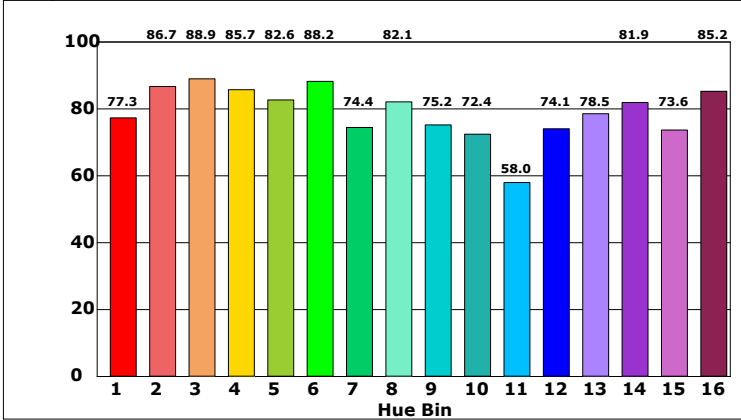
Rf: 80.2 CCT: 16952K u': 0.1741  
Rg: 100.0 LER: 247.8 Duv: 0.01135 v': 0.4255



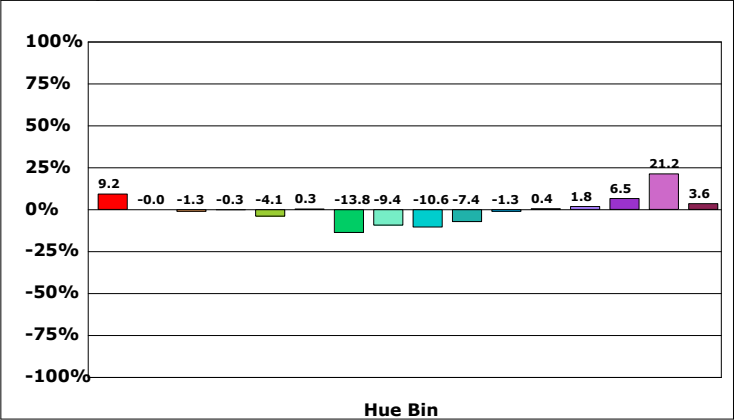
| 500     |      |        |       |
|---------|------|--------|-------|
| Hue Bin | Rf   | Chroma | Hue   |
| 1       | 77.3 | 9.2%   | -1.8% |
| 2       | 86.7 | -0.0%  | -4.4% |
| 3       | 88.9 | -1.3%  | -2.8% |
| 4       | 85.7 | -0.3%  | 3.6%  |
| 5       | 82.6 | -4.1%  | 1.2%  |
| 6       | 88.2 | 0.3%   | -1.1% |
| 7       | 74.4 | -13.8% | -3.5% |
| 8       | 82.1 | -9.4%  | 0.9%  |
| 9       | 75.2 | -10.6% | 10.0% |
| 10      | 72.4 | -7.4%  | 20.4% |
| 11      | 58.0 | -1.3%  | 19.5% |
| 12      | 74.1 | 0.4%   | 20.7% |
| 13      | 78.5 | 1.8%   | 12.4% |
| 14      | 81.9 | 6.5%   | 8.1%  |
| 15      | 73.6 | 21.2%  | 7.2%  |
| 16      | 85.2 | 3.6%   | -2.4% |



Rf by Bue

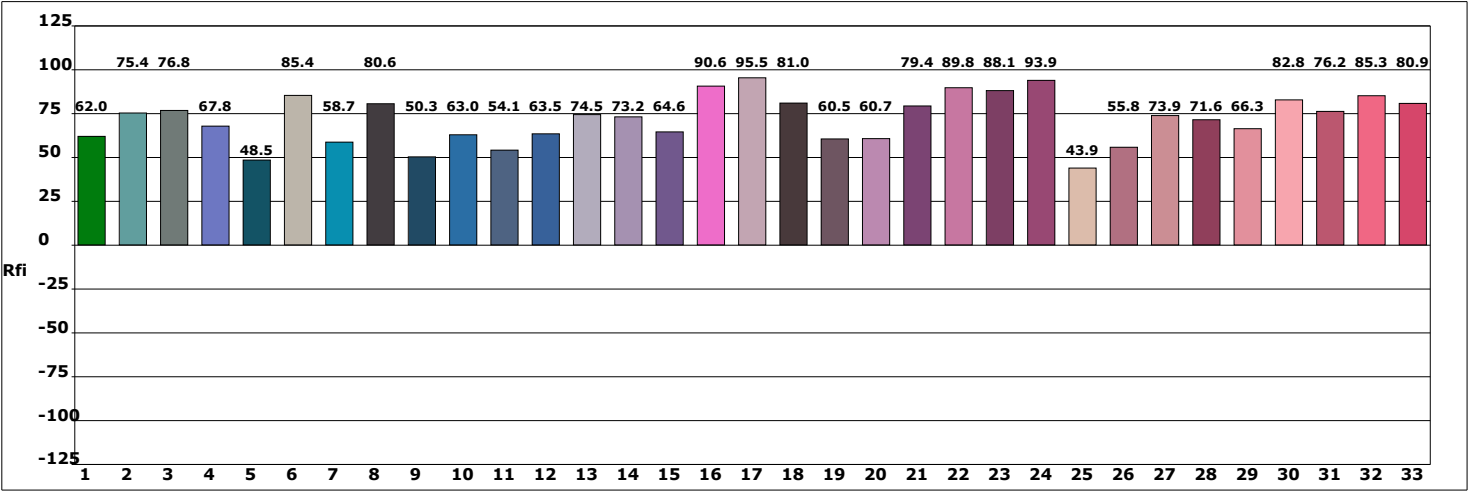
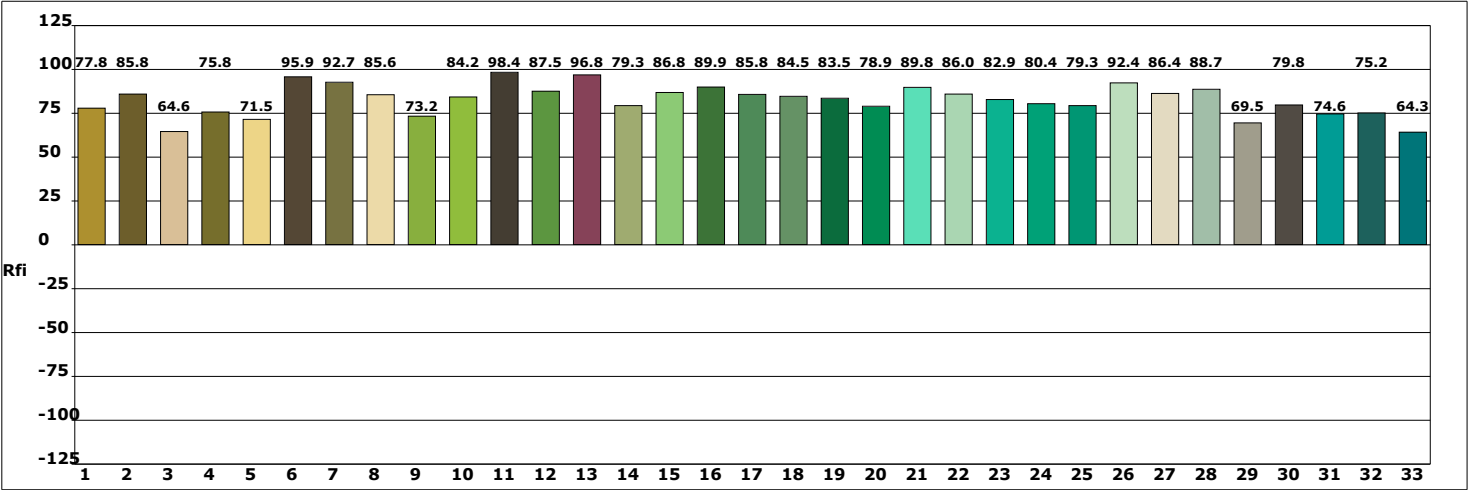
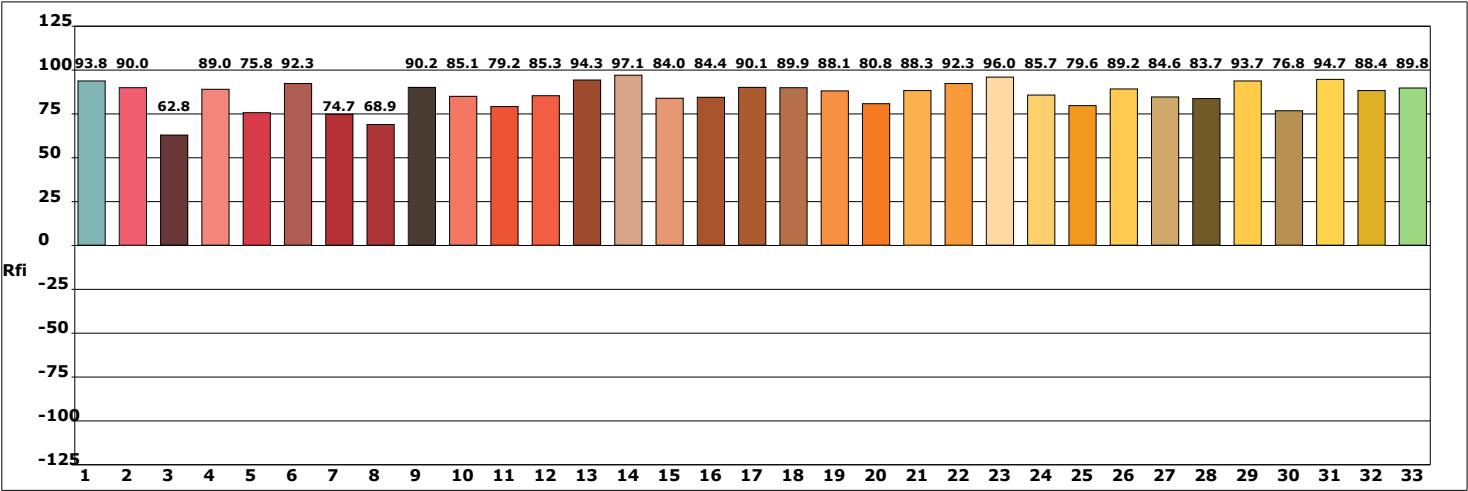


Chroma by Bue



Product model:  
Product number:  
Tester:  
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,  
Test unit:  
Date of observation: 07/15/14



Product model:  
Product number:  
Tester:  
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,  
Test unit:  
Date of observation: 07/15/14