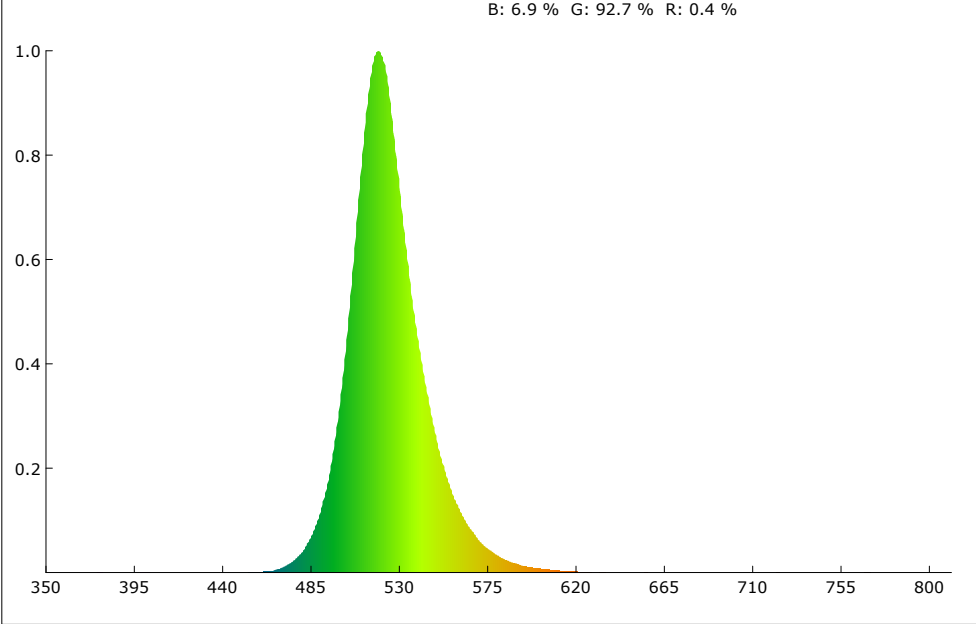
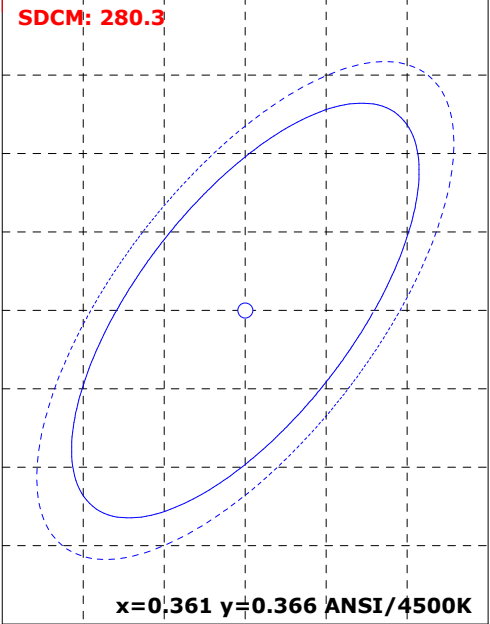


Spectrogram



SDCM



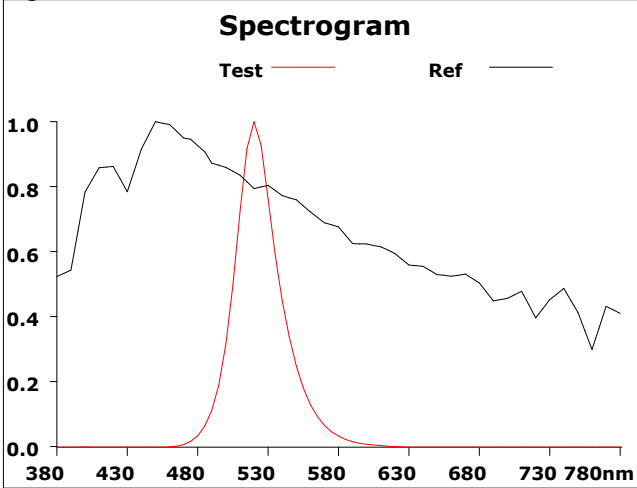
Color Parameter:

|                    |                       |                          |                        |                    |                  |
|--------------------|-----------------------|--------------------------|------------------------|--------------------|------------------|
| x: 0.1667          | y: 0.7252             | u: 0.0587                | v: 0.3827              | u': 0.0587         | v': 0.5741       |
| R_ratio: 0.4 %     | G_ratio: 92.7 %       | B_ratio: 6.9 %           | RedRatio: 0.2 %        | GreenRatio: 99.2 % | BlueRatio: 0.6 % |
| Ra: -25.0          | AvgR: -37.4           |                          |                        |                    |                  |
| R1: -35.0          | R2: -8.9              | R3: -23.7                | R4: -67.3              | R5: -10.1          | R6: -14.7        |
| R7: -7.5           | R8: -33.1             |                          |                        |                    |                  |
| R9: -99.0          | R10: -99.0            | R11: -96.0               | R12: -30.0             | R13: -40.8         | R14: 38.2        |
| R15: -33.5         |                       |                          |                        |                    |                  |
| CCT: 7879 K        | Flux: 1557.075 lm     | PeakWave: 519.6 nm       | SDCM: 280.3            |                    |                  |
| S/P: 2.8           | CentralWave: 521.4 nm | DominantWave: 526.4 nm   | CentroidWave: 524.8 nm |                    |                  |
| HalfWidth: 32.5 nm | duv: 0.15835          | purity: 80.3 %           | CQS: 0.2               |                    |                  |
| LER(TM-30): 484.6  | Ep: 3213.3 mw         | Rg: 7.5                  | Rf: 0.7                |                    |                  |
| Red Ep: 12.2 mw    | Near red Ep: 0.7 mw   | Near infrared Ep: 0.2 mw |                        |                    |                  |

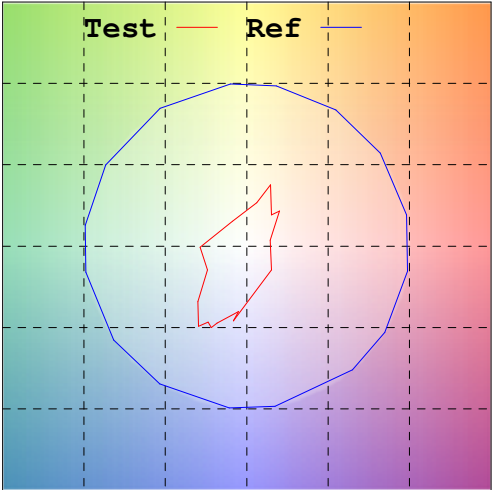
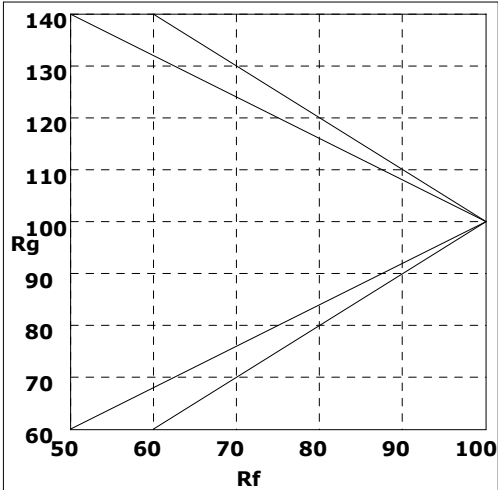
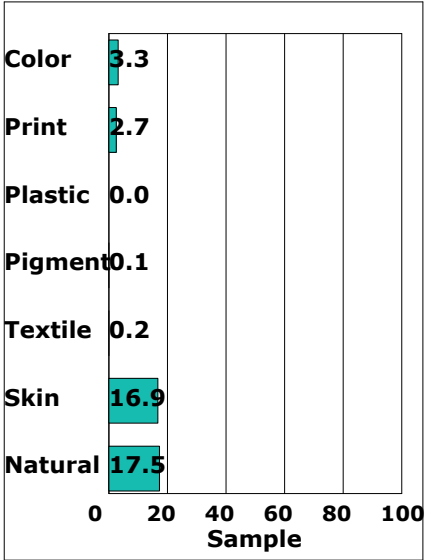
Electrical parameters:

|                  |              |             |           |
|------------------|--------------|-------------|-----------|
| Effic: 25.4 Lm/W | Energy: 27.6 | Effi: G     |           |
| U: 220.9 V       | I: 0.457 A   | P: 61.410 W | Pf: 0.608 |

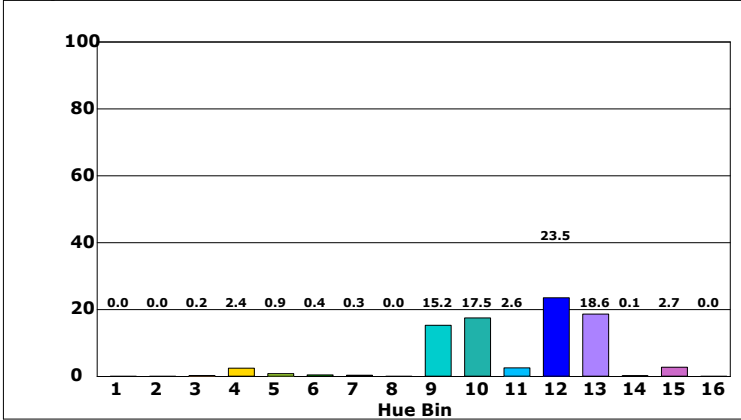
Rf: 0.7 CCT: 7879K u': 0.0587  
Rg: 7.5 LER: 484.6 Duv: 0.15835 v': 0.5741



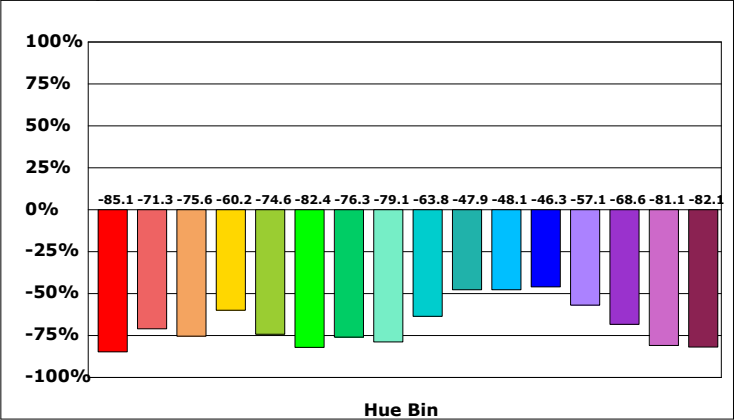
| 500     |      |        |        |
|---------|------|--------|--------|
| Hue Bin | Rf   | Chroma | Hue    |
| 1       | 0.0  | -85.1% | 1.3%   |
| 2       | 0.0  | -71.3% | 4.9%   |
| 3       | 0.2  | -75.6% | -3.2%  |
| 4       | 2.4  | -60.2% | -8.3%  |
| 5       | 0.9  | -74.6% | -1.6%  |
| 6       | 0.4  | -82.4% | 1.7%   |
| 7       | 0.3  | -76.3% | 9.7%   |
| 8       | 0.0  | -79.1% | 12.0%  |
| 9       | 15.2 | -63.8% | 31.2%  |
| 10      | 17.5 | -47.9% | 22.0%  |
| 11      | 2.6  | -48.1% | 3.6%   |
| 12      | 23.5 | -46.3% | -20.5% |
| 13      | 18.6 | -57.1% | -24.9% |
| 14      | 0.1  | -68.6% | -38.2% |
| 15      | 2.7  | -81.1% | -45.9% |
| 16      | 0.0  | -82.1% | -15.6% |



Rf by Bue

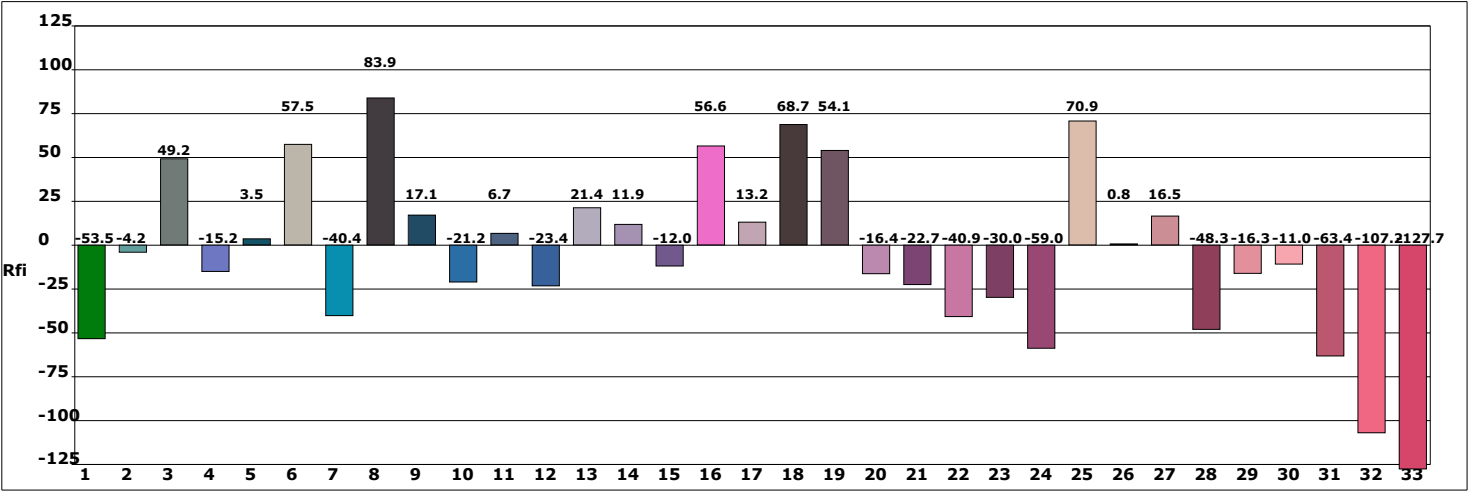
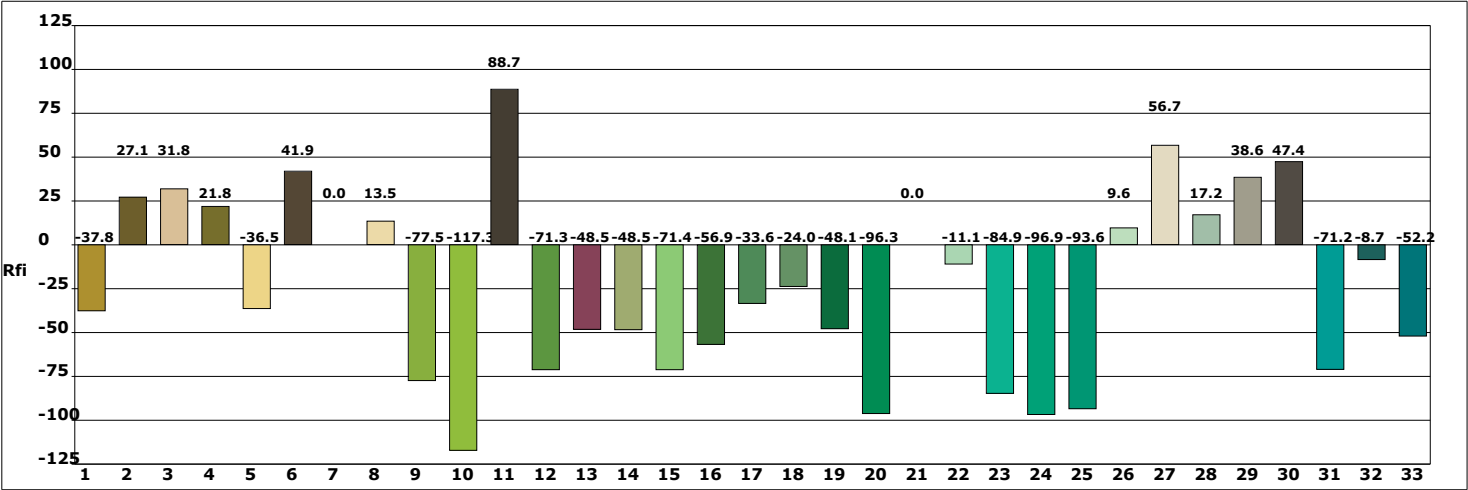
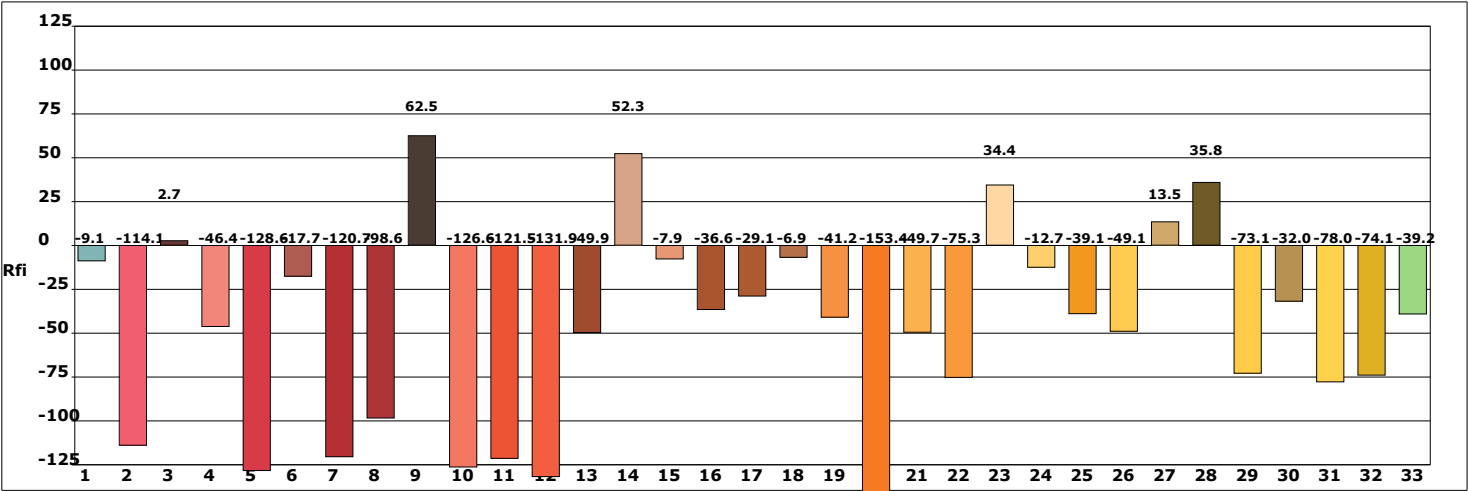


Chroma by Bue



Product model:  
Product number:  
Tester:  
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,  
Test unit:  
Date of observation: 03/17/14



Product model:  
Product number:  
Tester:  
Remarks:

Manufacturer: Guangzhou Hotion Technology Co.,  
Test unit:  
Date of observation: 03/17/14