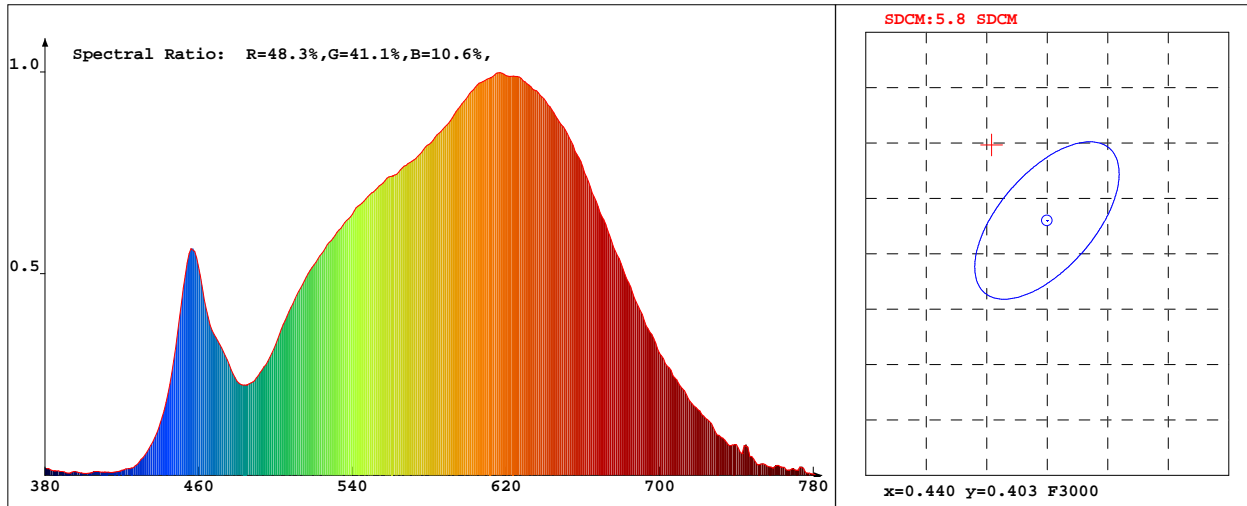


# LED Test Report

**Product Mark**

Product Type : 2110 Single led 3000k      Manufacturer : HULKLED TECHNOLOGY CO.,LTD  
 Temperature : 25'C      Humidity : 50%  
 Operator : 01      Test Date : 2018-09-14 10:06:18  
 Remark: BIN:



**Chroma Parameters**

Chro.Coor.:x=0.4354 y=0.4098      u=0.2472 v=0.3489      duv=0.0025  
 CCT: 3071K      Dominant Wave.:581.7nm      Purity:53.7%      Centre Wave:598.5nm  
 Flux RGB Ratio:R=22.6%,G=75.6%,B=1.8%      Peak Wave:614.6nm      Half Width:163.9nm

**Rendering Index:Ra= 90.4 CRI= 86.9**

R1 =90      R2 =94      R3 =95      R4 =90      R5 =89      R6 =91      R7 =93      R8 =81  
 R9 =54      R10=83      R11=89      R12=70      R13=91      R14=97      R15=87  
 Fidelity Index(Rf)=88.1      Gamut Index(Rg)=97.1

**Photo Parameters**

Flux:6.790lm      Effi.:119.6lm/W      Radiant:21.3mW      Iv:0.0mcd  
 Efficiency:0.002      Effi Level:A++ (EU 874-2012)

**Ele. Parameters**

Forward Current:If=20.0mA      Reverse Voltage:Vr=5.00V  
 Forward Voltage:Vf=2.84V      Reverse Current:Ir=0.00uA  
 Power:P=0.005W

**Instrument state**

Instrument:Hopoo HP8000S      Integral Time: 1000.000ms      VPeak: 12040  
 VDark: 1443      Scan Range: 380-780nm      Product ID: 201212248

# IES TM-30-2015 Test Report

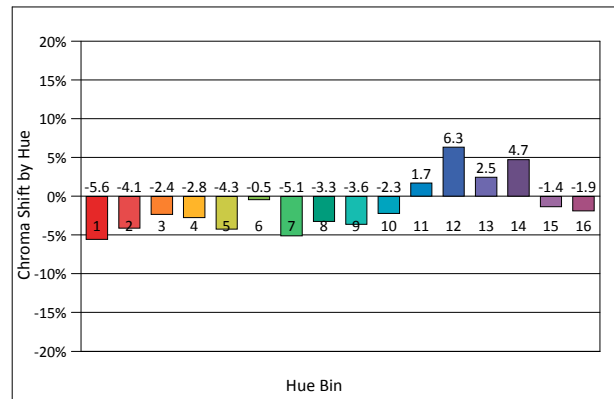
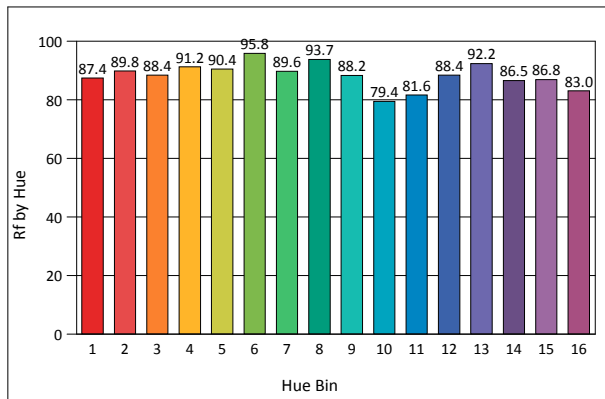
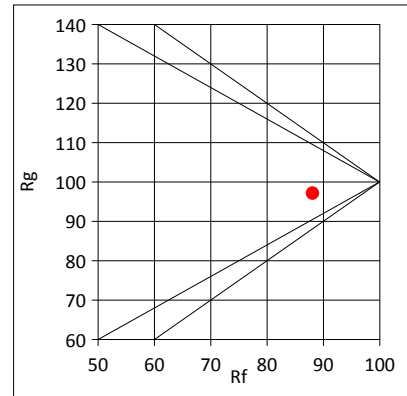
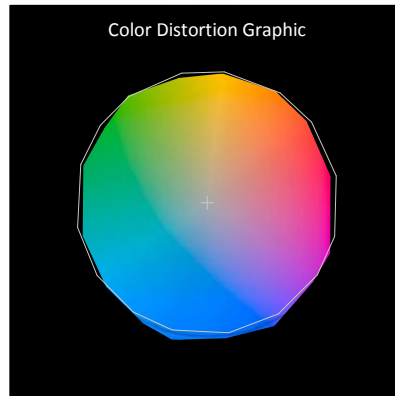
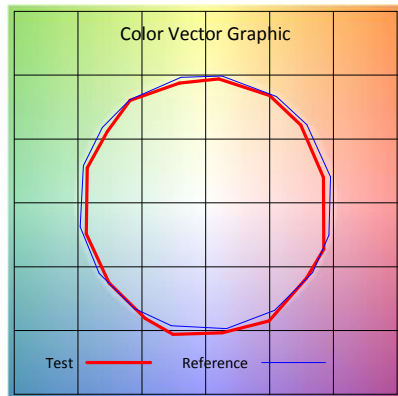
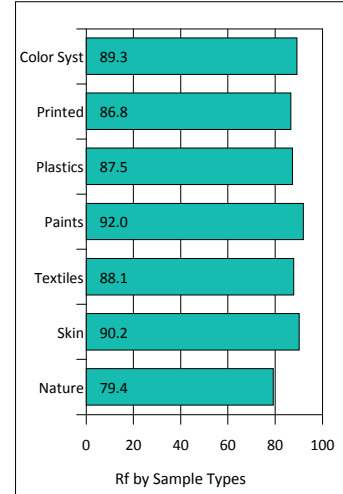
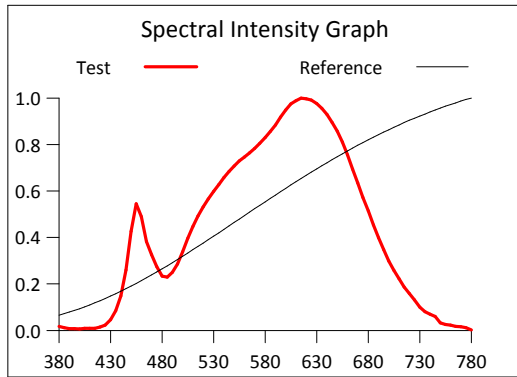
**Product Mark**

Product Type : 2110 Single led 3000k  
 Temperature : 25°C  
 Operator : 01  
 Remark: BIN:

Manufacturer : HULKLED TECHNOLOGY CO.,LTD  
 Humidity : 50%  
 Test Date : 2018-09-14 10:06:18

Rf: 88.1 CCT(K): 3071 u': 0.2472  
 Rg: 97.1 LER: 300.9 Duv: 0.0025 v': 0.3489

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	87.4	-5.6%	0.6%
2	89.8	-4.1%	2.4%
3	88.4	-2.4%	4.6%
4	91.2	-2.8%	2.0%
5	90.4	-4.3%	2.2%
6	95.8	-0.5%	-0.0%
7	89.6	-5.1%	0.2%
8	93.7	-3.3%	1.2%
9	88.2	-3.6%	6.3%
10	79.4	-2.3%	10.7%
11	81.6	1.7%	11.4%
12	88.4	6.3%	2.4%
13	92.2	2.5%	-3.7%
14	86.5	4.7%	-8.1%
15	86.8	-1.4%	-6.1%
16	83.0	-1.9%	-11.6%



# IES TM-30-2015 Test Report

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