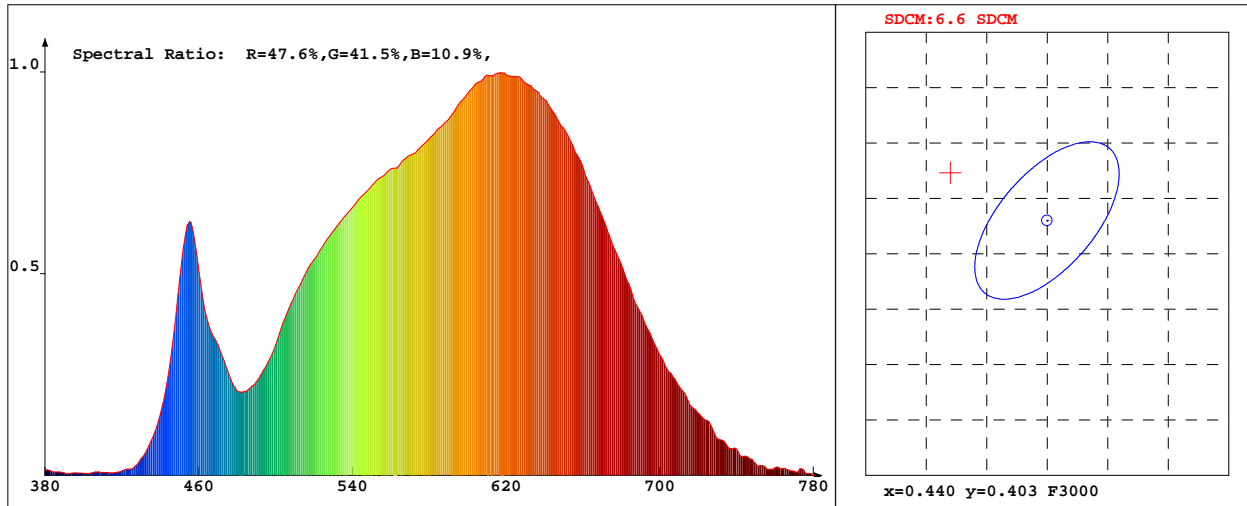


# LED Test Report

**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 10:04:28  
 Remark: BIN:



**Chroma Parameters**

Chro.Coor.:x=0.4320 y=0.4073      u=0.2460 v=0.3479      duv=0.0020  
 CCT: 3112K      Dominant Wave.:581.6nm      Purity:51.9%      Centre Wave:597.5nm  
 Flux RGB Ratio:R=22.3%,G=75.9%,B=1.7%      Peak Wave:614.6nm      Half Width:165.8nm

**Rendering Index:Ra= 89.8 CRI= 86.2**

R1 =90      R2 =93      R3 =94      R4 =90      R5 =88      R6 =90      R7 =93      R8 =81  
 R9 =53      R10=82      R11=89      R12=68      R13=90      R14=96      R15=86  
 Fidelity Index(Rf)=87.8      Gamut Index(Rg)=98.0

**Photo Parameters**

Flux:6.780lm      Effi.:118.6lm/W      Radiant:21.1mW      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=2.86V      Reverse Current:Ir=0.00uA  
 Power:P=0.005W

**Instrument state**

Instrument:Hopoo HP8000S      Integral Time: 1000.000ms      VPeak: 11880  
 VDark: 1447      Scan Range: 380-780nm      Product ID: 201212248

# IES TM-30-2015 Test Report

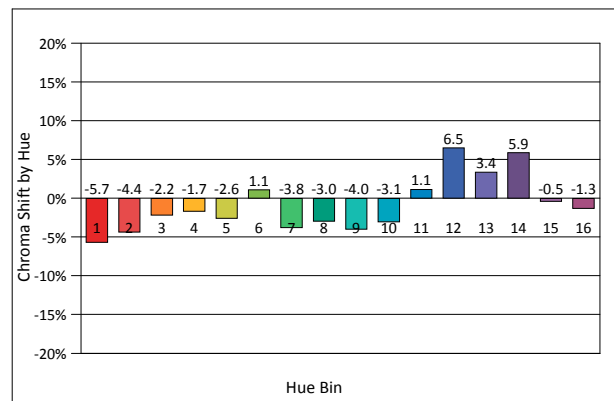
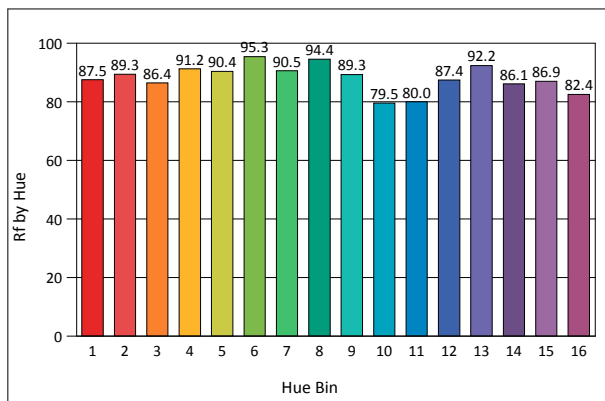
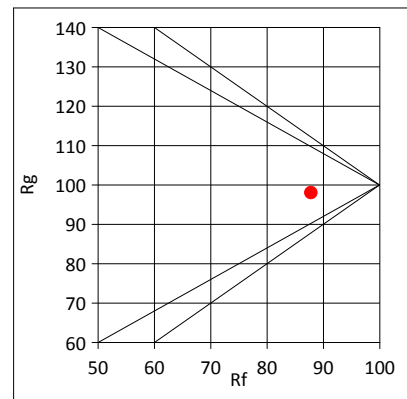
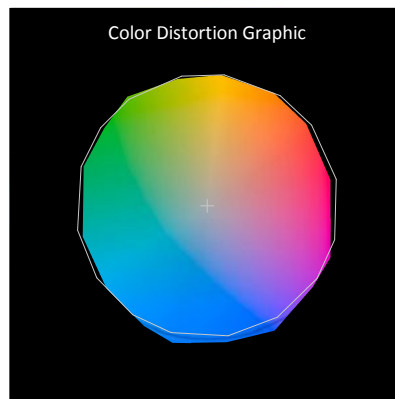
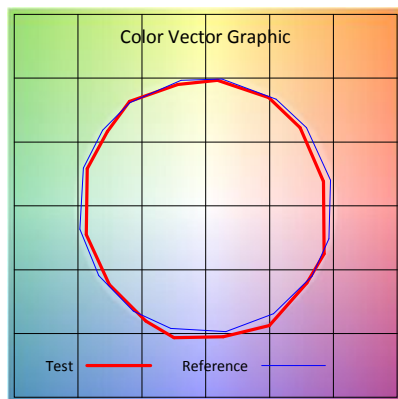
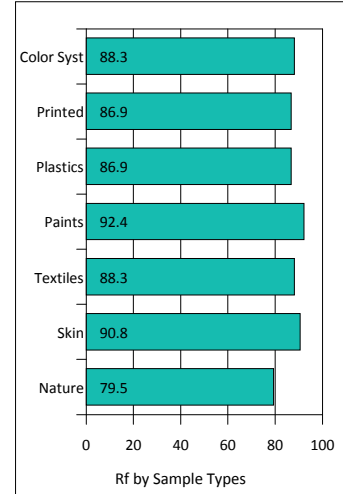
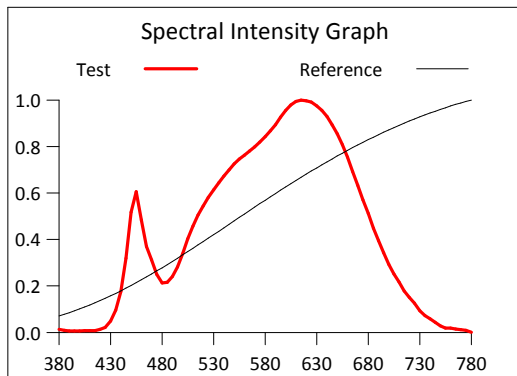
**Product Mark**

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 10:04:28

Rf: 87.8 CCT(K): 3112 u': 0.2460  
 Rg: 98.0 LER: 302.9 Duv: 0.0020 v': 0.3479

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	87.5	-5.7%	0.0%
2	89.3	-4.4%	2.8%
3	86.4	-2.2%	5.7%
4	91.2	-1.7%	3.3%
5	90.4	-2.6%	2.9%
6	95.3	1.1%	-0.4%
7	90.5	-3.8%	-1.3%
8	94.4	-3.0%	-0.1%
9	89.3	-4.0%	5.1%
10	79.5	-3.1%	10.4%
11	80.0	1.1%	12.4%
12	87.4	6.5%	3.8%
13	92.2	3.4%	-2.6%
14	86.1	5.9%	-7.7%
15	86.9	-0.5%	-6.8%
16	82.4	-1.3%	-12.4%



# IES TM-30-2015 Test Report

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