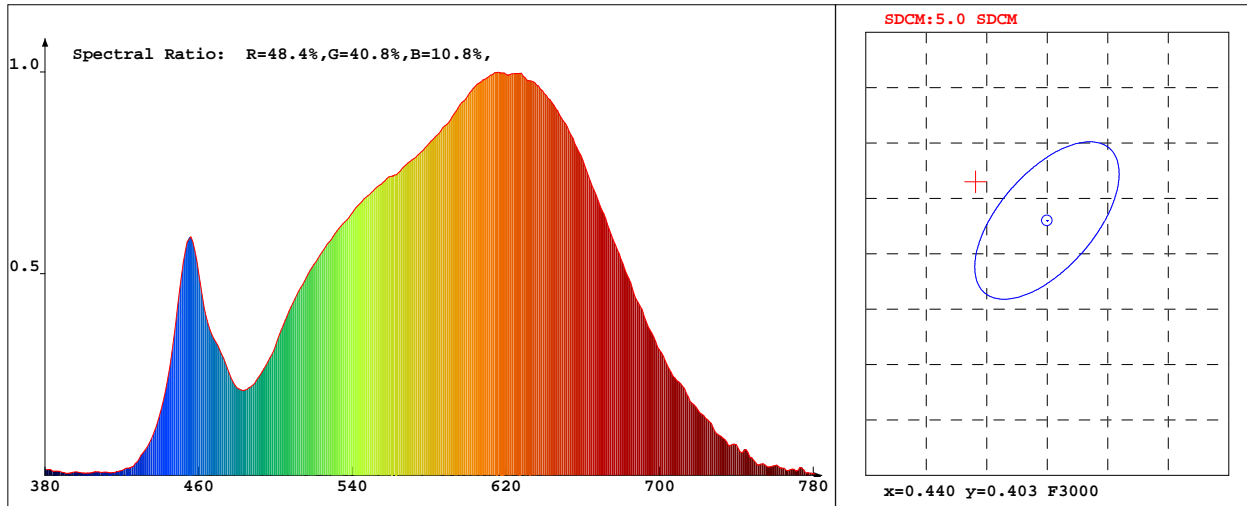


# LED Test Report

**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 10:03:20  
 Remark: BIN:



**Chroma Parameters**

Chro.Coor.:x=0.4341 y=0.4065      u=0.2477 v=0.3479      duv=0.0014  
 CCT: 3067K      Dominant Wave.:582.1nm      Purity:52.3%      Centre Wave:598.9nm  
 Flux RGB Ratio:R=22.7%,G=75.5%,B=1.8%      Peak Wave:614.6nm      Half Width:164.7nm

**Rendering Index:Ra= 90.6 CRI= 87.3**

R1 =91      R2 =94      R3 =95      R4 =91      R5 =89      R6 =91      R7 =93      R8 =82  
 R9 =57      R10=83      R11=90      R12=71      R13=91      R14=96      R15=88  
 Fidelity Index(Rf)=88.5      Gamut Index(Rg)=98.4

**Photo Parameters**

Flux:6.660lm      Effi.:116.0lm/W      Radiant:21.0mW      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=2.87V      Reverse Current:Ir=0.00uA  
 Power:P=0.005W

**Instrument state**

Instrument:Hopoo HP8000S      Integral Time: 1000.000ms      VPeak: 11560  
 VDark: 1272      Scan Range: 380-780nm      Product ID: 201212248

# IES TM-30-2015 Test Report

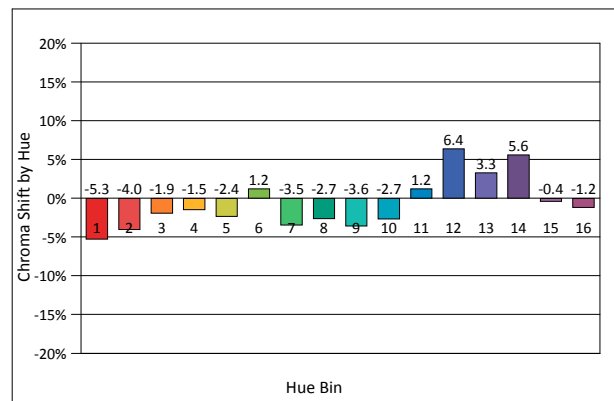
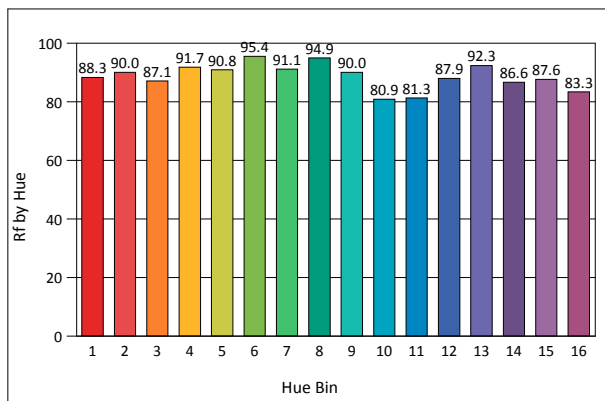
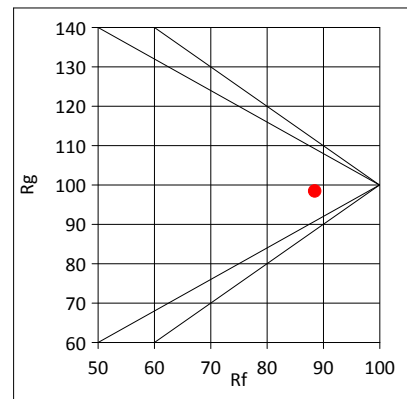
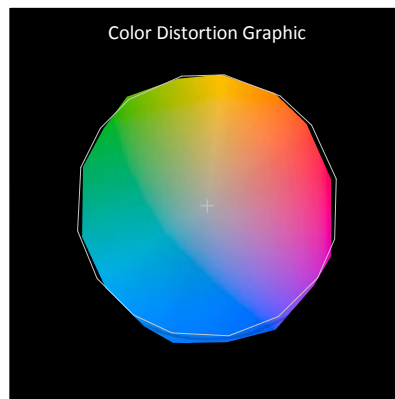
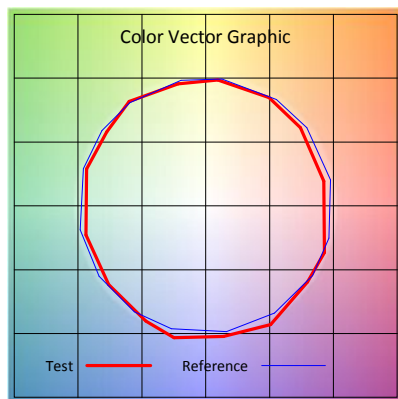
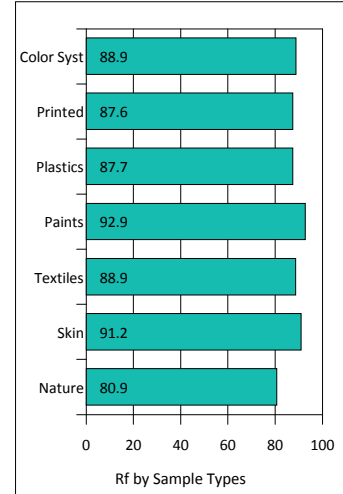
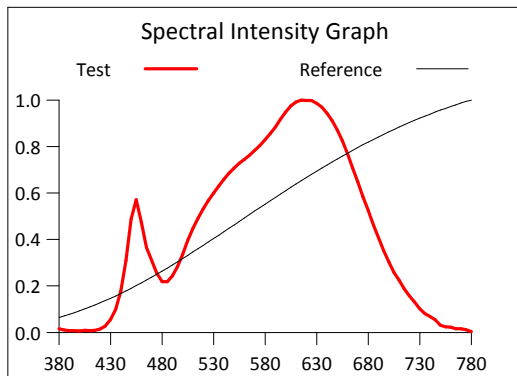
**Product Mark**

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 10:03:20

Rf: 88.5 CCT(K): 3067 u': 0.2477  
 Rg: 98.4 LER: 298.9 Duv: 0.0014 v': 0.3479

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	88.3	-5.3%	0.1%
2	90.0	-4.0%	2.7%
3	87.1	-1.9%	5.5%
4	91.7	-1.5%	3.1%
5	90.8	-2.4%	2.8%
6	95.4	1.2%	-0.3%
7	91.1	-3.5%	-1.2%
8	94.9	-2.7%	-0.2%
9	90.0	-3.6%	4.8%
10	80.9	-2.7%	9.7%
11	81.3	1.2%	11.6%
12	87.9	6.4%	3.3%
13	92.3	3.3%	-2.8%
14	86.6	5.6%	-7.5%
15	87.6	-0.4%	-6.4%
16	83.3	-1.2%	-11.8%



# IES TM-30-2015 Test Report

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