

LED Test Report

Product Mark

Product Type : F52-R300-060512 3000k

Manufacturer : -

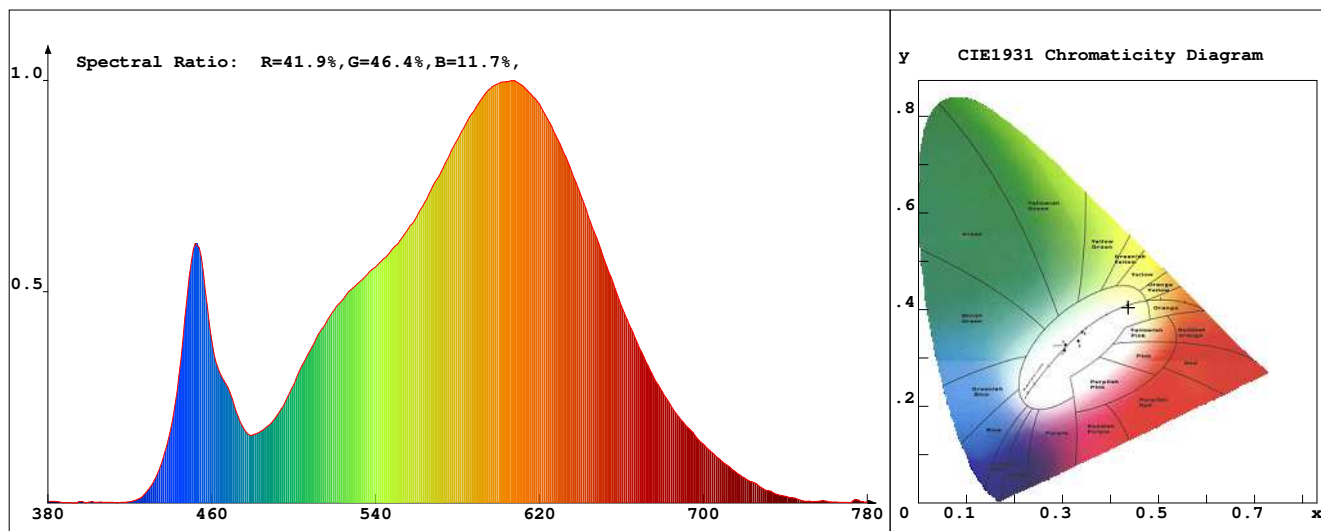
Temperature : -'C

Humidity : -%

Operator : -

Test Date : 2023-06-15

Remark :



Chroma Parameters

Chro.Coord.: $x=0.4372$ $y=0.4040$ $u=0.2508$ $v=0.3476$ $duv=-0.0001$

CCT: 2994K Dominant Wave.: 582.9nm Purity: 52.5% Centre Wave: 591.0nm

Flux RGB Ratio: $R=22.0\%$, $G=76.4\%$, $B=1.6\%$ Peak Wave: 606.7nm Half Width: 130.6nm

Rendering Index: $R_a=82.2$ CRI= 78.9

R1 =80	R2 =90	R3 =97	R4 =80	R5 =81	R6 =88	R7 =83	R8 =59
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R9 =7	R10=77	R11=79	R12=67	R13=83	R14=99	R15=73	
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PPF: 4.382 $\mu\text{mol/s}$ (400–700nm)

PRF: 0.9mW (400–700nm)

PAR: 0.8mW (400–700nm)

Photo Parameters

Flux: 333.39lm Effi.: 93.0lm/W Radiant: 925.1mW Iv: 0.0mcd

Scotopic Flux: 441.2Plm Effi.: 0.0Plm/W S/P: 1.3

Efficiency: 0.00

Effi Level: A++ (EU 874-2012) Photon Flux: 4484.270 $\mu\text{mol/s}$ (380–780nm)

Ele. Parameters

Forward Current: $I_f=150.0\text{mA}$ Reverse Voltage: $V_r=5.00\text{V}$ Forward Voltage: $V_f=23.91\text{V}$ Reverse Current: $I_r=0.00\mu\text{A}$ Power: $P=3.600\text{W}$

Instrument state

Instrument: Lisun

Integral Time: 449.401ms

VPeak: 13048

VDark: 1467

Scan Range: 380–780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : F52-R300-060512 3000k

Temperature : -'C

Operator : -

Remark :

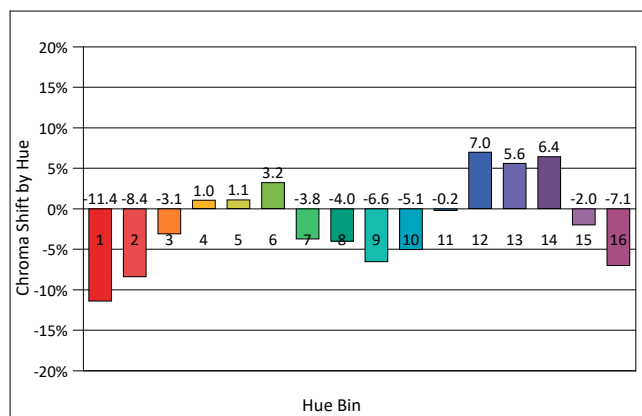
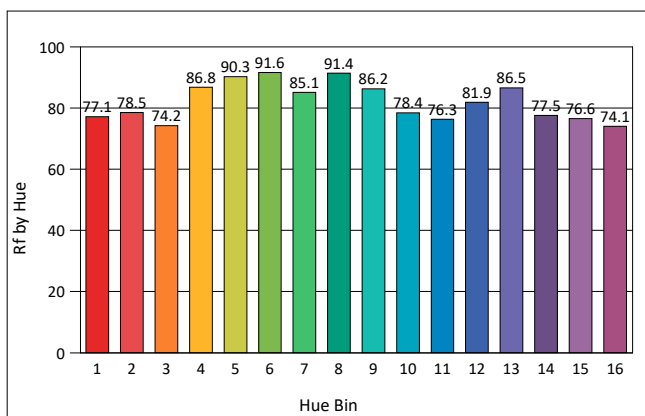
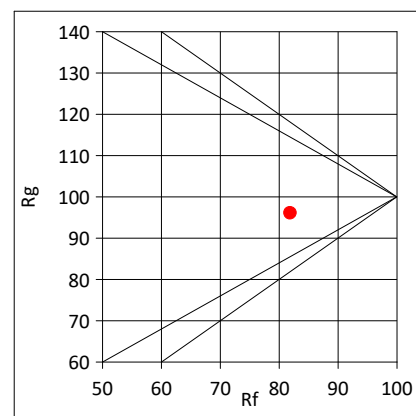
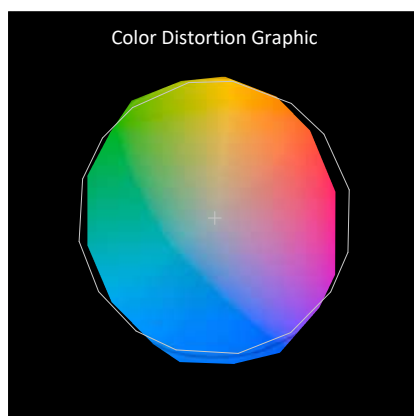
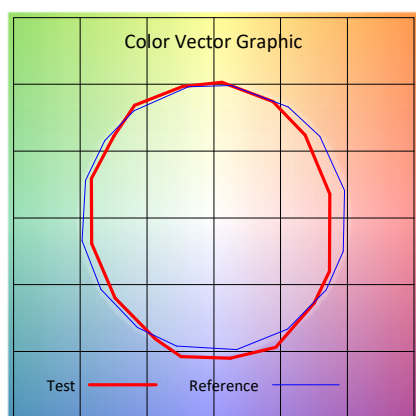
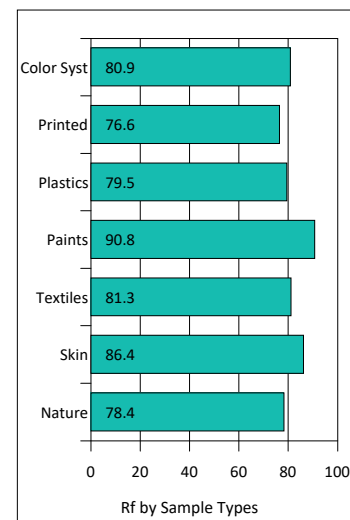
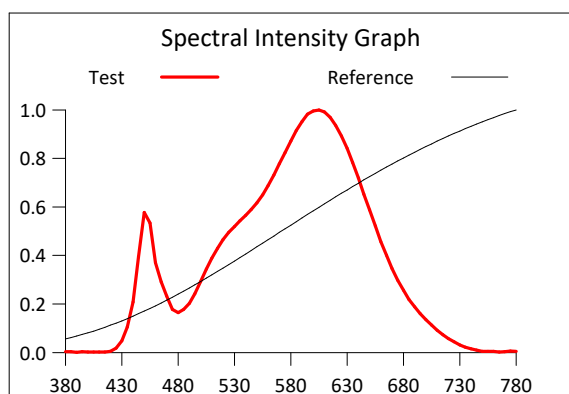
Manufacturer : -

Humidity : -%

Test Date : 2023-06-15

Rf: 81.9 CCT(K): 2994 u': 0.2508
Rg: 96.1 LER: 336.6 Duv: -0.0001 v': 0.3476

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	77.1	-11.4%	-0.4%
2	78.5	-8.4%	7.0%
3	74.2	-3.1%	11.8%
4	86.8	1.0%	7.3%
5	90.3	1.1%	4.3%
6	91.6	3.2%	-2.5%
7	85.1	-3.8%	-6.8%
8	91.4	-4.0%	-1.8%
9	86.2	-6.6%	3.6%
10	78.4	-5.1%	11.2%
11	76.3	-0.2%	15.5%
12	81.9	7.0%	4.9%
13	86.5	5.6%	-6.0%
14	77.5	6.4%	-15.0%
15	76.6	-2.0%	-13.5%
16	74.1	-7.1%	-16.8%



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Product Mark

Product Type : F52-R300-060512 3000k

Manufacturer : -

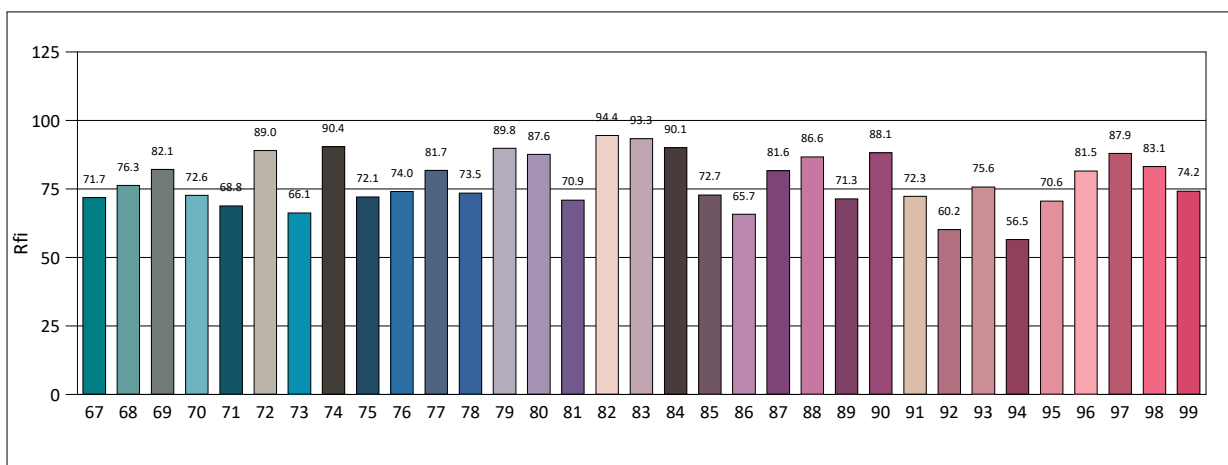
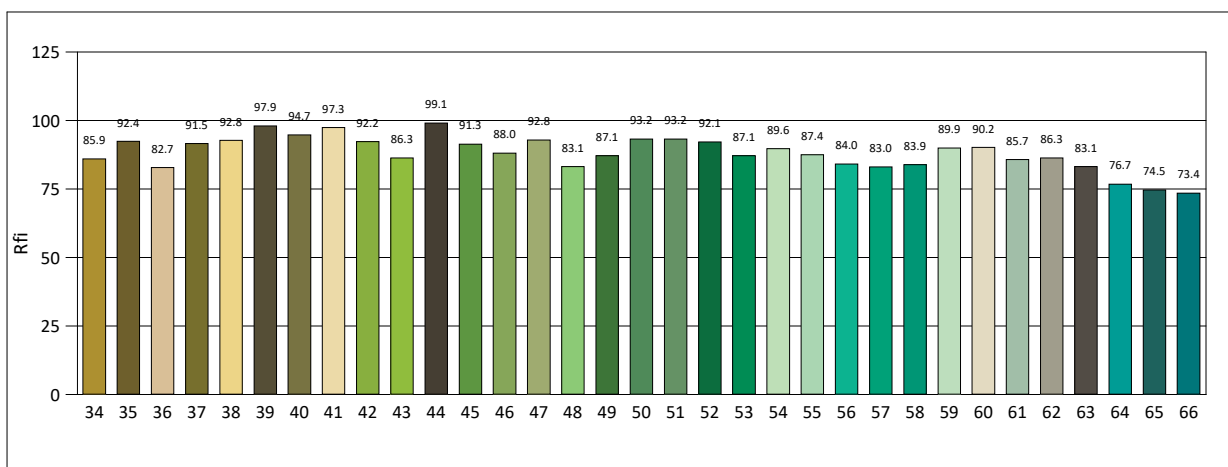
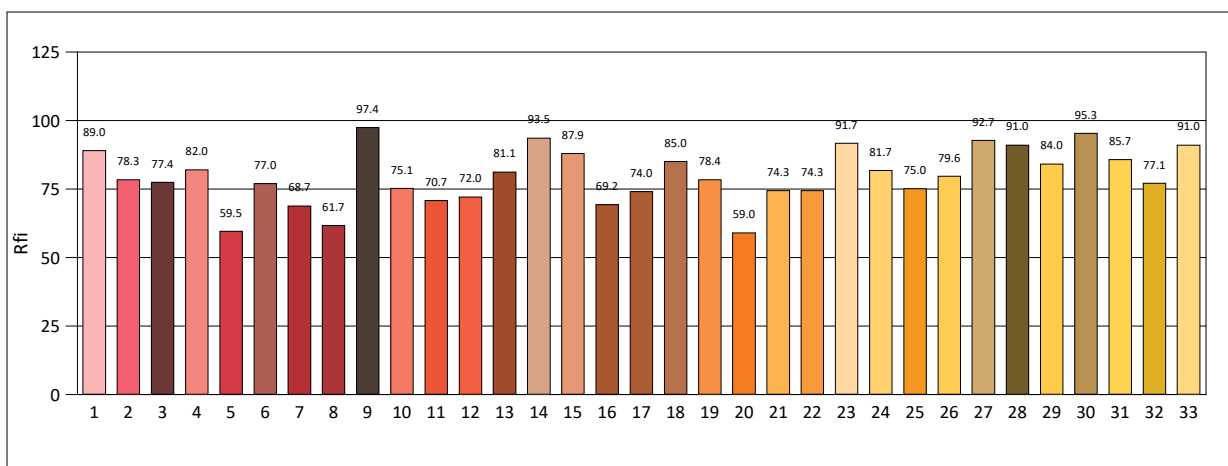
Temperature : -'C

Humidity : -%

Operator : -

Test Date : 2023-06-15

Remark :



LED Test Report

Product Mark

Product Type : F52-R300-060512 red

Manufacturer : -

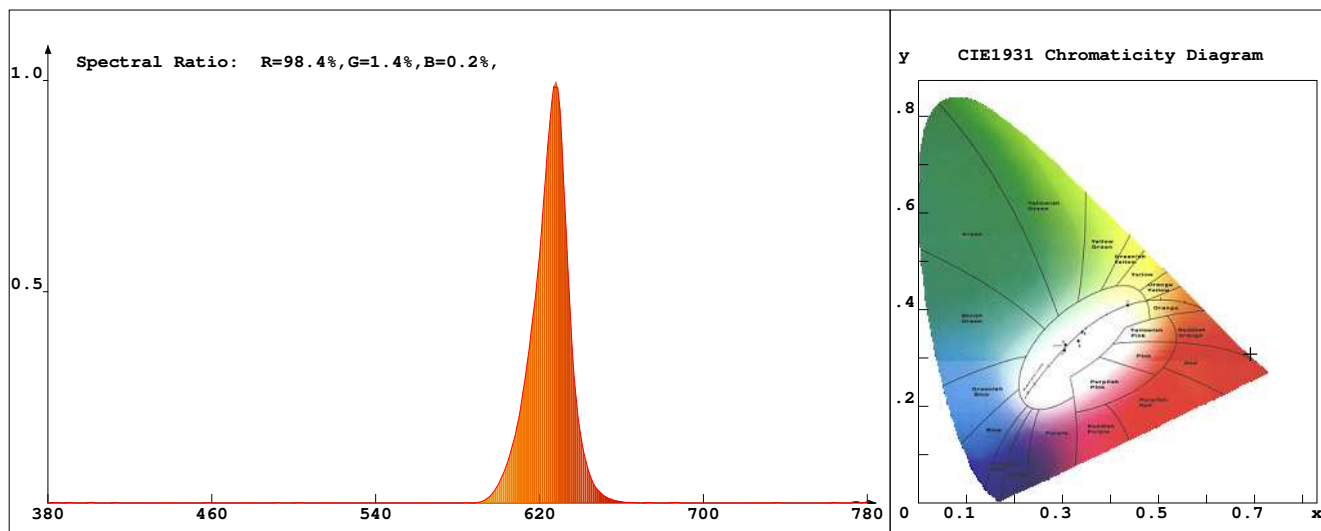
Temperature : -'C

Humidity : -%

Operator : -

Test Date : 2023-06-15

Remark :



Chroma Parameters

Chro.Coord.: $x=0.6914$ $y=0.3080$ $u=0.5205$ $v=0.3478$ $duv=-0.0006$

CCT: 1319K Dominant Wave.: 620.2nm Purity: 99.9% Centre Wave: 625.3nm

Flux RGB Ratio: $R=97.2\%$, $G=2.8\%$, $B=0.0\%$ Peak Wave: 626.5nm Half Width: 16.3nm

Rendering Index: $R_a=-21.4$ CRI=108.8

R1 = -63	R2 = 36	R3 = 26	R4 = -54	R5 = -18	R6 = 68	R7 = -34	R8 = -132
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R9 = -353	R10 = 19	R11 = -67	R12 = 36	R13 = -42	R14 = 51	R15 = -100
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PPF: 2.565 $\mu\text{mol/s}$ (400-700nm)

PRF: 0.5mW (400-700nm)

PAR: 0.5mW (400-700nm)

Photo Parameters

Flux: 114.01lm Effi.: 31.2lm/W Radiant: 493.5mW Iv: 0.0mcd

Scotopic Flux: 7.1Plm Effi.: 0.0Plm/W S/P: 0.1

Efficiency: 0.00

Effi Level: A++ (EU 874-2012) Photon Flux: 2574.020 $\mu\text{mol/s}$ (380-780nm)

Ele. Parameters

Forward Current: $I_f=153.0\text{mA}$ Reverse Voltage: $V_r=5.00\text{V}$ Forward Voltage: $V_f=23.91\text{V}$ Reverse Current: $I_r=0.00\mu\text{A}$ Power: $P=3.671\text{W}$

Instrument state

Instrument: Lisun

Integral Time: 121.339ms

VPeak: 13528

VDark: 1392

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : F52-R300-060512 red

Temperature : -'C

Operator : -

Remark :

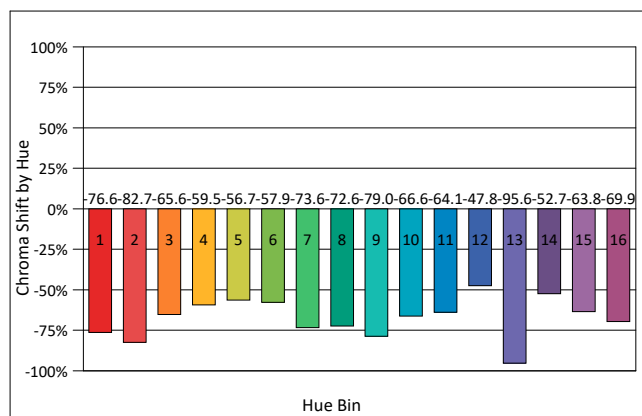
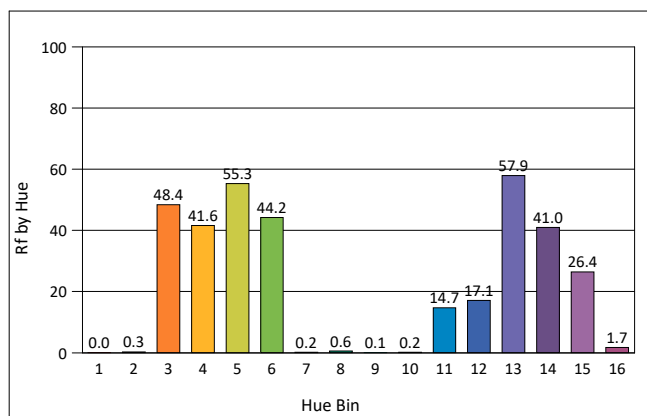
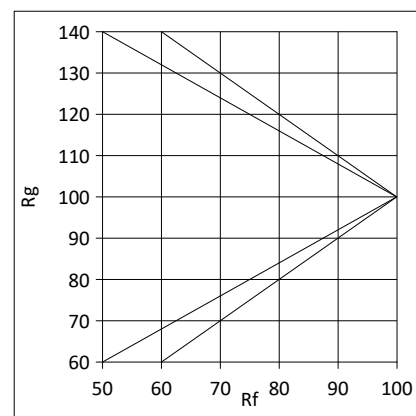
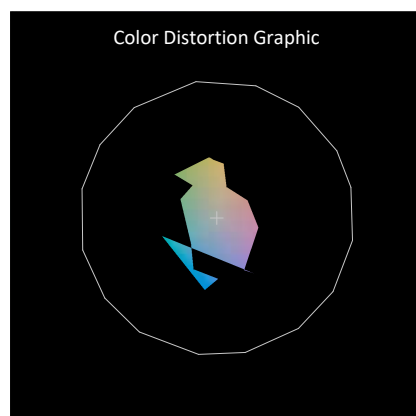
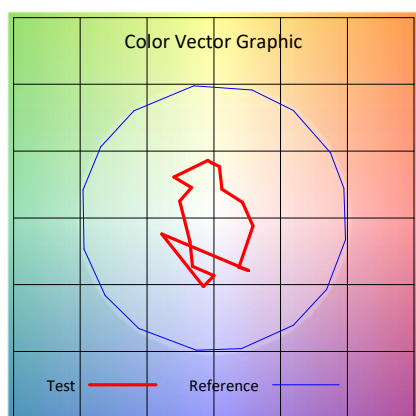
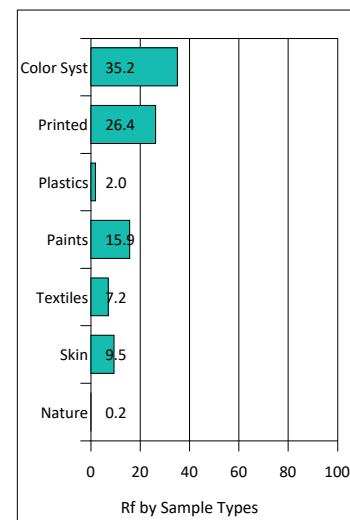
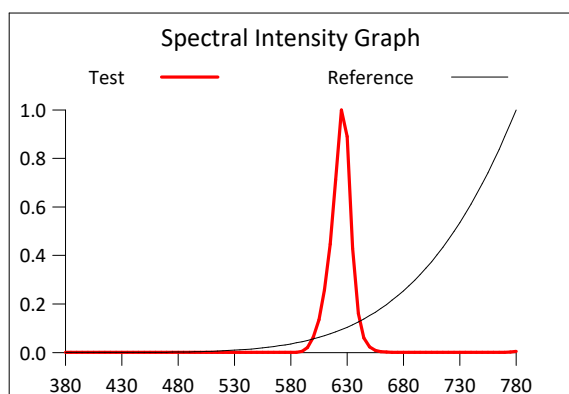
Manufacturer : -

Humidity : -%

Test Date : 2023-06-15

Rf: 2.9 CCT(K): 1319 u': 0.5205
Rg: 9.2 LER: 229.2 Duv: -0.0006 v': 0.3478

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-76.6%	4.6%
2	0.3	-82.7%	22.5%
3	48.4	-65.6%	22.9%
4	41.6	-59.5%	18.8%
5	55.3	-56.7%	0.7%
6	44.2	-57.9%	2.5%
7	0.2	-73.6%	-12.6%
8	0.6	-72.6%	-5.8%
9	0.1	-79.0%	10.0%
10	0.2	-66.6%	18.1%
11	14.7	-64.1%	24.8%
12	17.1	-47.8%	-4.0%
13	57.9	-95.6%	-41.8%
14	41.0	-52.7%	-5.0%
15	26.4	-63.8%	-22.6%
16	1.7	-69.9%	-3.5%



IES TM-30-2015 Test Report

Product Mark

Product Type : F52-R300-060512 red

Manufacturer : -

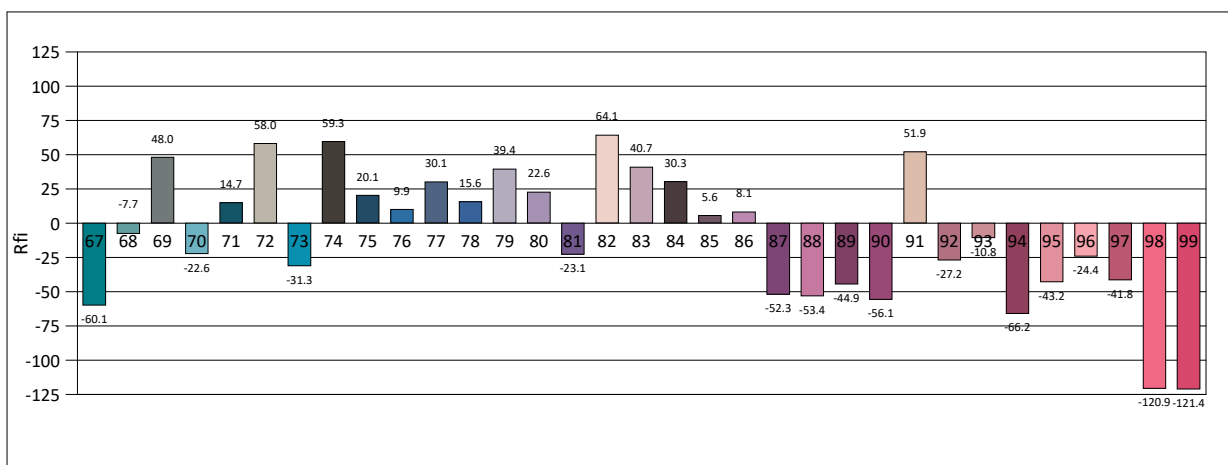
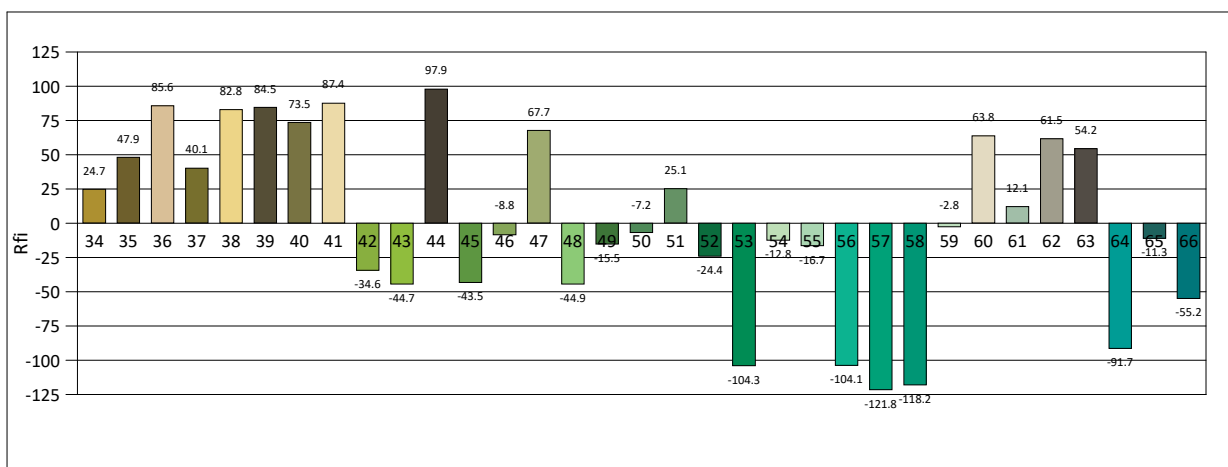
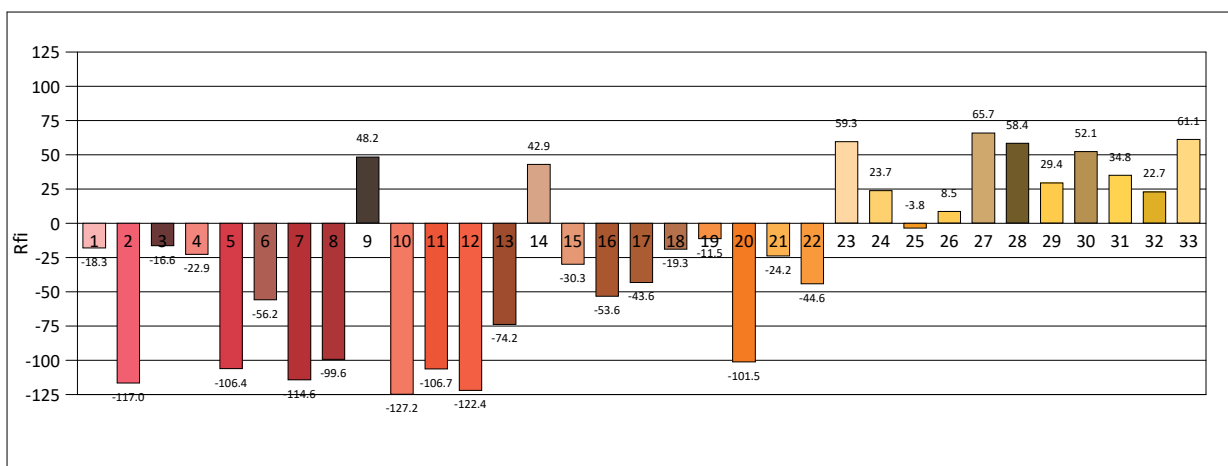
Temperature : -'C

Humidity : -%

Operator : -

Test Date : 2023-06-15

Remark :



LED Test Report

Product Mark

Product Type : F52-R300-060512 green

Manufacturer : -

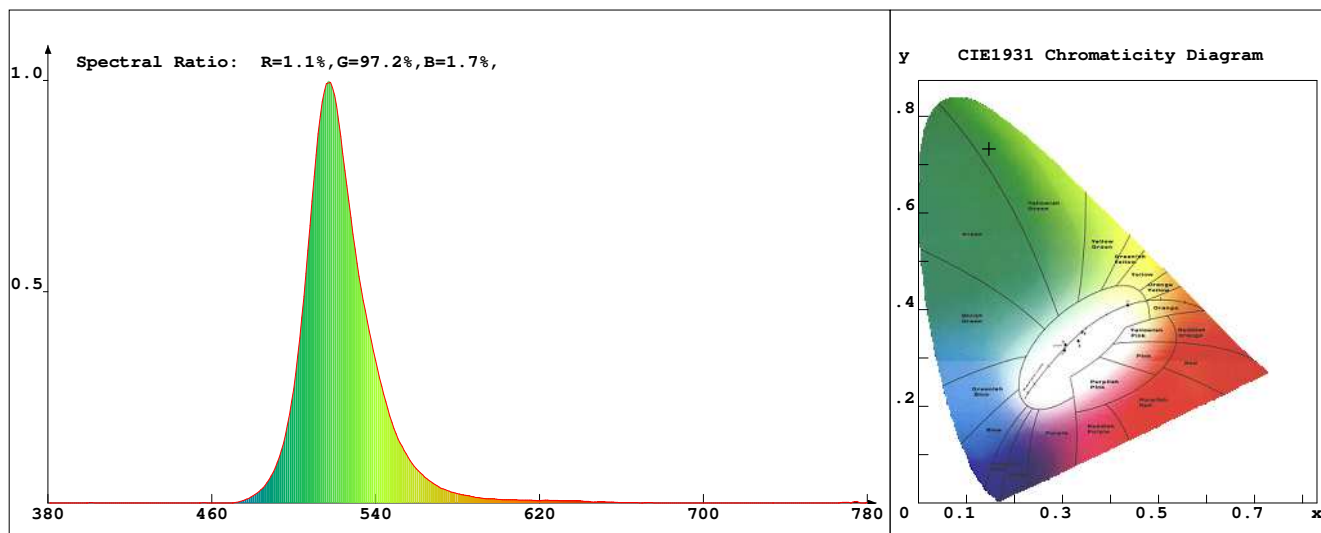
Temperature : -'C

Humidity : -%

Operator : -

Test Date : 2023-06-15

Remark :



Chroma Parameters

Chro.Coord.: $x=0.1473$ $y=0.7325$ $u=0.0513$ $v=0.3823$ $duv=0.1646$

CCT: 8258K Dominant Wave.: 523.5nm Purity: 80.3% Centre Wave: 518.2nm

Flux RGB Ratio: $R=0.5\%$, $G=99.1\%$, $B=0.4\%$ Peak Wave: 516.6nm Half Width: 27.9nm

Rendering Index: $R_a=-29.8$ CRI=102.1

R1 = -33 R2 = -16 R3 = -39 R4 = -71 R5 = -9 R6 = -22 R7 = -16 R8 = -33

R9 = -341 R10 = -122 R11 = -100 R12 = -41 R13 = -42 R14 = 31 R15 = -30

PPF: 2.476 $\mu\text{mol/s}$ (400-700nm)

PRF: 0.6mW (400-700nm)

PAR: 0.4mW (400-700nm)

Photo Parameters

Flux: 299.93lm Effi.: 82.0lm/W Radiant: 567.0mW Iv: 0.0mcd

Scotopic Flux: 930.9Plm Effi.: 0.0Plm/W S/P: 3.1

Efficiency: 0.00

Effi Level: A++ (EU 874-2012) Photon Flux: 2479.500 $\mu\text{mol/s}$ (380-780nm)

Ele. Parameters

Forward Current: $I_f=153.0\text{mA}$ Reverse Voltage: $V_r=5.00\text{V}$ Forward Voltage: $V_f=23.91\text{V}$ Reverse Current: $I_r=0.00\mu\text{A}$ Power: $P=3.671\text{W}$

Instrument state

Instrument: Lisun

Integral Time: 161.821ms

VPeak: 13480

VDark: 1417

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : F52-R300-060512 green

Manufacturer : -

Temperature : -'C

Humidity : -%

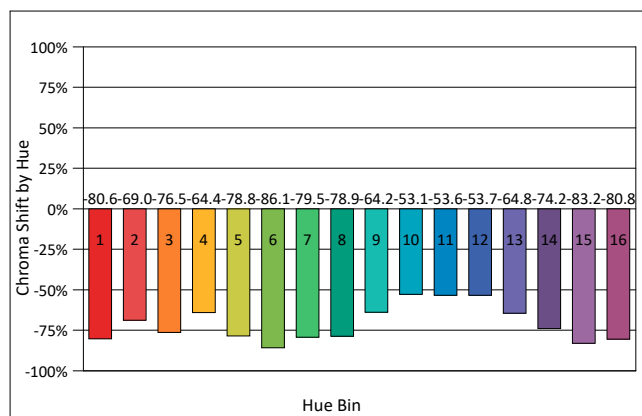
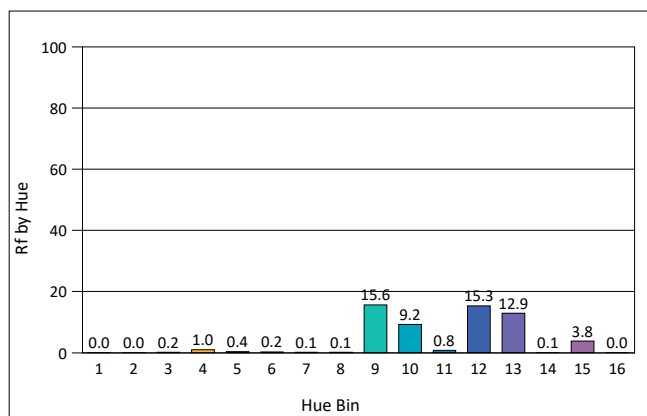
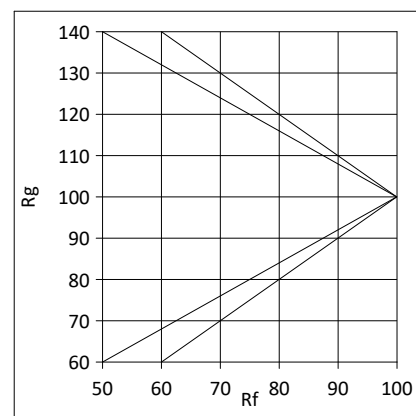
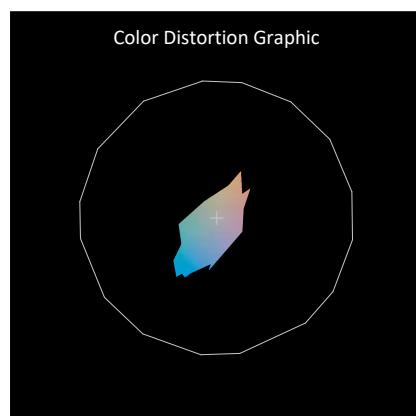
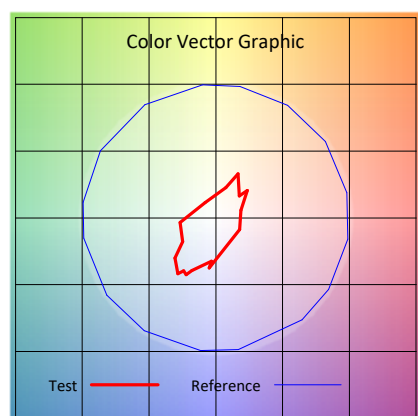
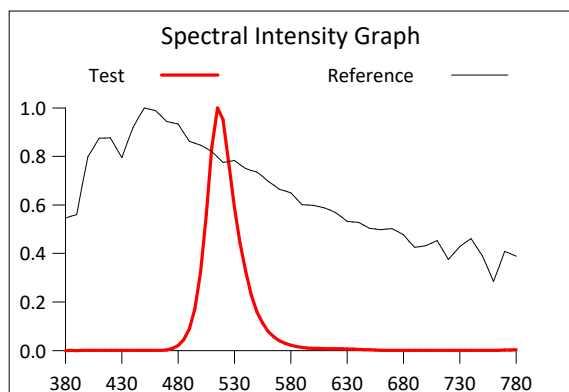
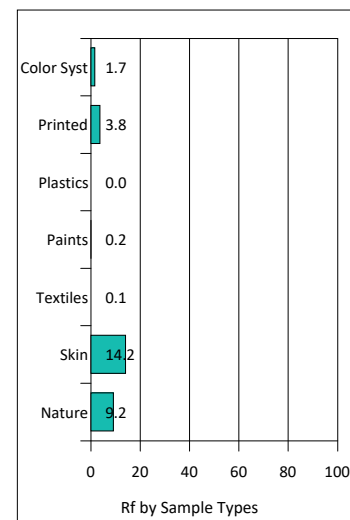
Operator : -

Test Date : 2023-06-15

Remark :

Rf: 0.5 CCT(K): 8258 u': 0.0513
 Rg: 6.4 LER: 461.4 Duv: 0.1646 v': 0.3823

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-80.6%	2.5%
2	0.0	-69.0%	2.0%
3	0.2	-76.5%	-7.4%
4	1.0	-64.4%	-11.1%
5	0.4	-78.8%	-2.2%
6	0.2	-86.1%	3.3%
7	0.1	-79.5%	11.6%
8	0.1	-78.9%	14.6%
9	15.6	-64.2%	28.1%
10	9.2	-53.1%	16.4%
11	0.8	-53.6%	-0.4%
12	15.3	-53.7%	-21.6%
13	12.9	-64.8%	-22.6%
14	0.1	-74.2%	-32.1%
15	3.8	-83.2%	-36.3%
16	0.0	-80.8%	-8.9%



IES TM-30-2015 Test Report

Product Mark

Product Type : F52-R300-060512 green

Manufacturer : -

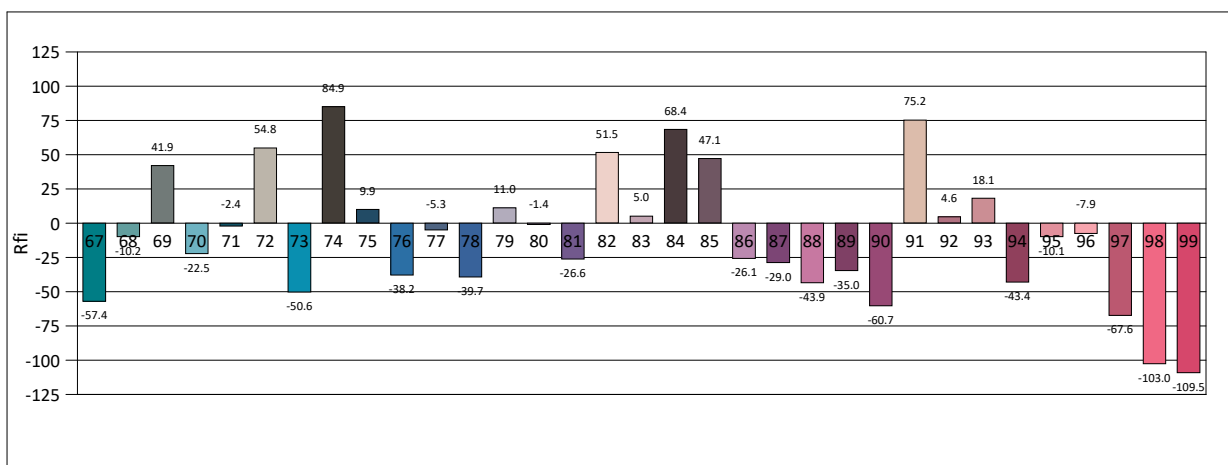
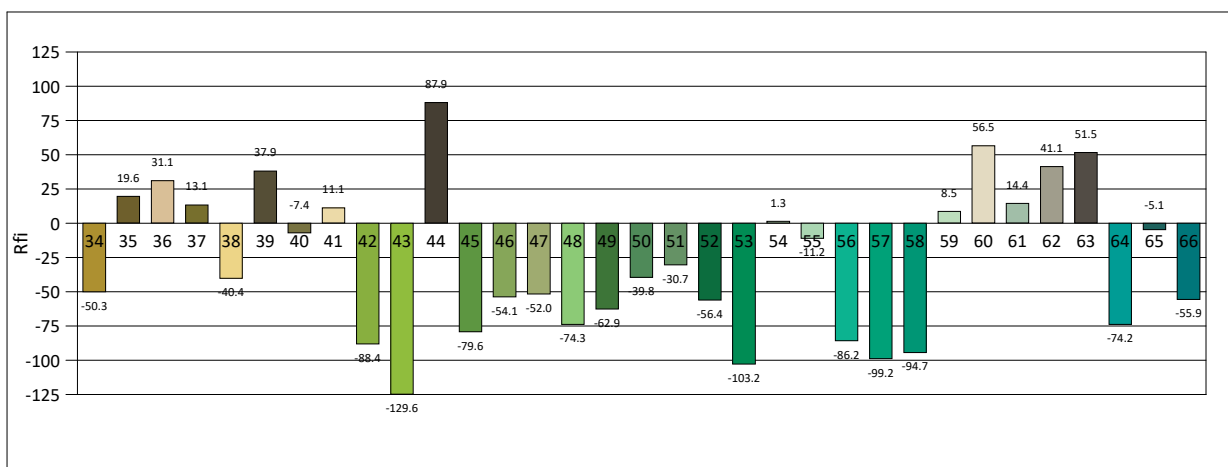
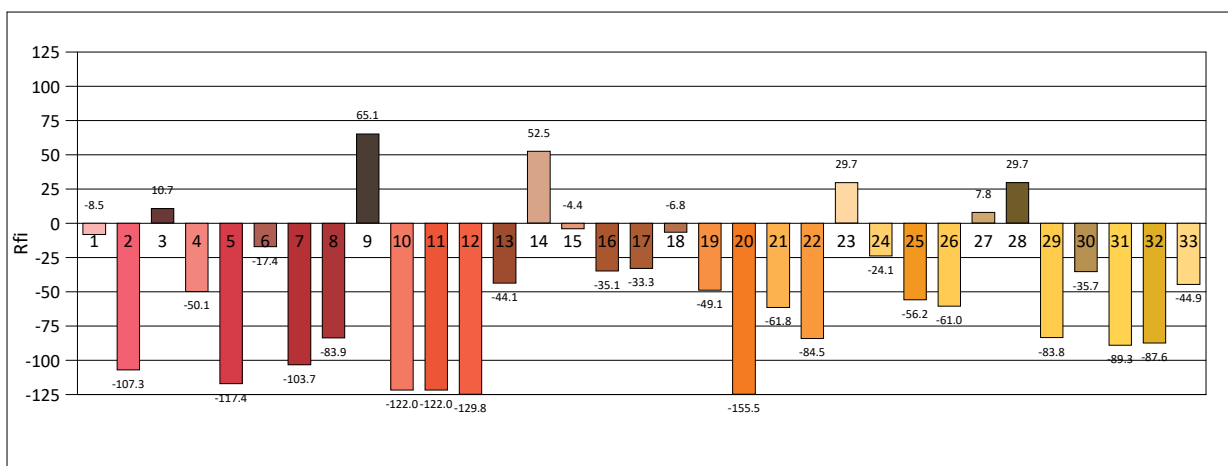
Temperature : -'C

Humidity : -%

Operator : -

Test Date : 2023-06-15

Remark :



LED Test Report

Product Mark

Product Type : F52-R300-060512 blu

Manufacturer : -

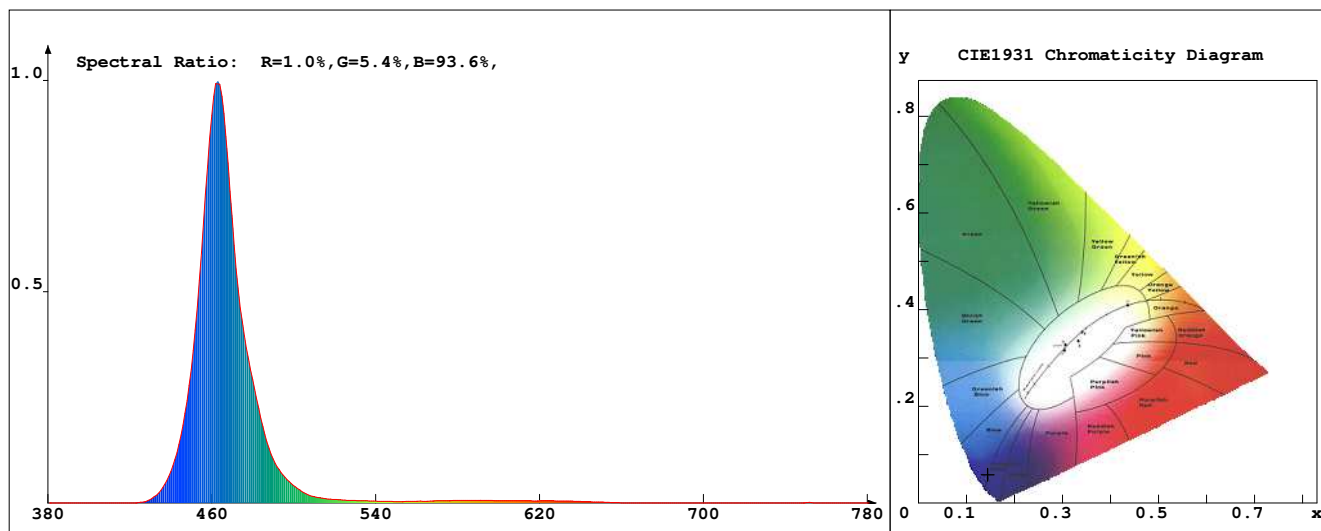
Temperature : -'C

Humidity : -%

Operator : -

Test Date : 2023-06-15

Remark:



Chroma Parameters

Chro.Coord.: $x=0.1442$ $y=0.0585$ $u=0.1690$ $v=0.1029$ $duv=-0.0292$

CCT:100000K Dominant Wave.:466.0nm Purity:94.6% Centre Wave:462.4nm

Flux RGB Ratio:R=3.4%,G=26.8%,B=69.7% Peak Wave:461.7nm Half Width:19.5nm

Rendering Index:Ra=-36.2 CRI= 87.9

R1 =35 R2 =-29 R3 =-147 R4 =-73 R5 =39 R6 =-33 R7 =-49 R8 =-32

R9 =-136 R10=-214 R11=-92 R12=-76 R13=12 R14=-31 R15=34

PPF:3.460 μ mol/s (400-700nm)

PRF:0.9mW (400-700nm)

PAR:0.6mW (400-700nm)

Photo Parameters

Flux:86.87lm Effi.:24.5lm/W Radiant:884.9mW Iv:0.0mcd

Scotopic Flux:1289.9Plm Effi.:0.0Plm/W S/P:14.8

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:3461.500 μ mol/s (380-780nm)

Ele. Parameters

Forward Current:If=148.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.91V

Reverse Current:Ir=0.00uA

Power:P=3.560W

Instrument state

Instrument:Lisun

Integral Time: 112.350ms

VPeak: 15832

VDark: 1297

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : F52-R300-060512 blu

Temperature : -'C

Operator : -

Remark :

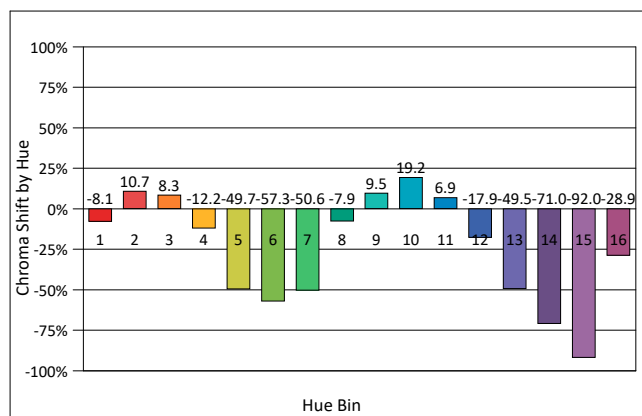
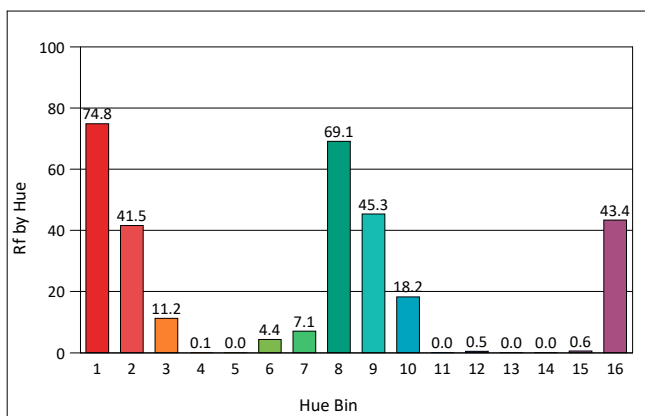
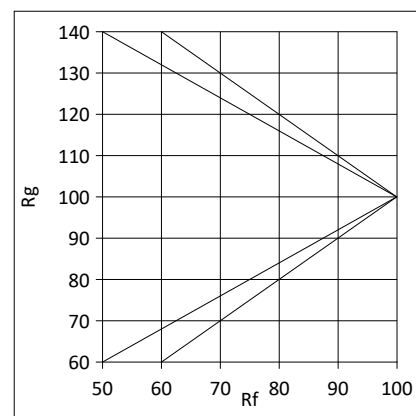
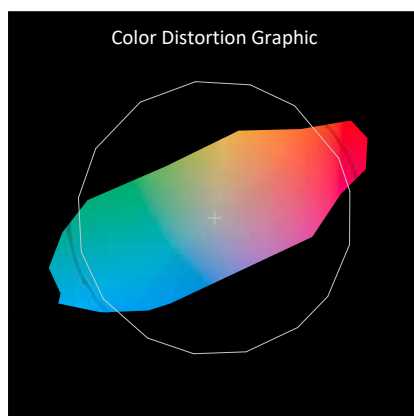
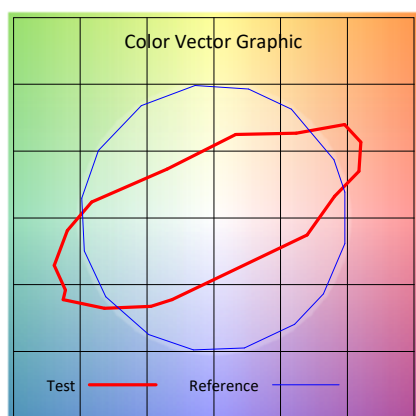
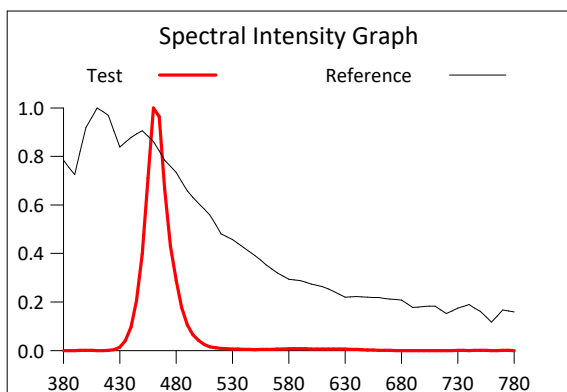
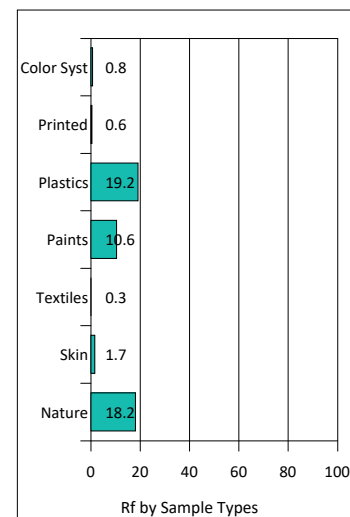
Manufacturer : -

Humidity : -%

Test Date : 2023-06-15

Rf: 5.9 CCT(K): 100000 u': 0.1690
 Rg: 59.3 LER: 69.2 Duv: -0.0292 v': 0.1029

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	74.8	-8.1%	-1.5%
2	41.5	10.7%	-17.6%
3	11.2	8.3%	-56.9%
4	0.1	-12.2%	-75.8%
5	0.0	-49.7%	-67.2%
6	4.4	-57.3%	-46.6%
7	7.1	-50.6%	-17.1%
8	69.1	-7.9%	1.3%
9	45.3	9.5%	-17.6%
10	18.2	19.2%	-41.1%
11	0.0	6.9%	-70.3%
12	0.5	-17.9%	-102.8%
13	0.0	-49.5%	-96.9%
14	0.0	-71.0%	-82.0%
15	0.6	-92.0%	-66.6%
16	43.4	-28.9%	0.9%



IES TM-30-2015 Test Report

Product Mark

Product Type : F52-R300-060512 blu

Manufacturer : -

Temperature : -'C

Humidity : -%

Operator : -

Test Date : 2023-06-15

Remark :

