

LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 WC

Manufacturer : -

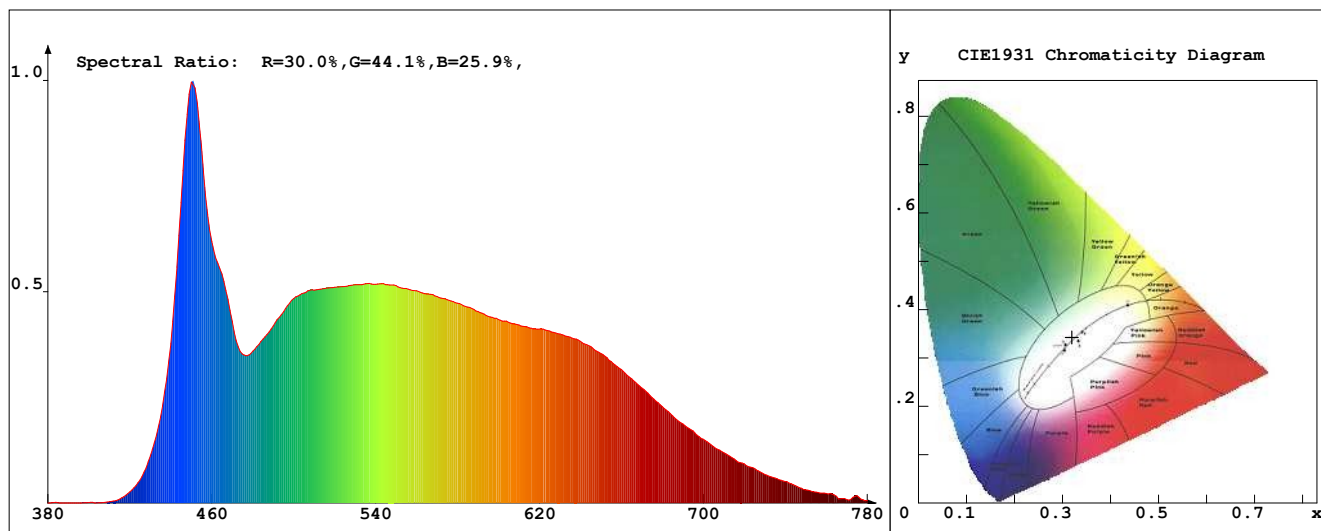
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 21-07-2026

Remark:



Chroma Parameters

Chro.Coord.: $x=0.3195$ $y=0.3430$ $u=0.1973$ $v=0.3177$ $duv=0.0069$

CCT: 6088K Dominant Wave.: 501.0nm Purity: 4.2% Centre Wave: 453.5nm

Flux RGB Ratio: R=14.3%, G=81.4%, B=4.3% Peak Wave: 449.6nm Half Width: 24.9nm

Rendering Index: Ra= 92.8 CRI= 89.9

R1 =92 R2 =95 R3 =97 R4 =92 R5 =91 R6 =92 R7 =96 R8 =88

R9 =66 R10=88 R11=92 R12=72 R13=93 R14=99 R15=89

PPF: 5.919 $\mu\text{mol/s}$ (400-700nm)

PRF: 1.3mW (400-700nm)

PAR: 1.1mW (400-700nm)

Photo Parameters

Flux: 409.28lm Effi.: 80.4lm/W Radiant: 1341.3mW Iv: 0.0mcd

Scotopic Flux: 950.9Plm Effi.: 0.0Plm/W S/P: 2.3

Efficiency: 0.00

Effi Level: A++ (EU 874-2012) Photon Flux: 6219.340 $\mu\text{mol/s}$ (380-780nm)

Ele. Parameters

Forward Current: $I_f=212.0\text{mA}$ Reverse Voltage: $V_r=5.00\text{V}$ Forward Voltage: $V_f=24.00\text{V}$ Reverse Current: $I_r=0.00\mu\text{A}$ Power: $P=5.10\text{W}$

Instrument state

Instrument: Lisun LMS-8000

Integral Time: 314.570ms

VPeak: 15272

VDark: 1282

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCTT-F52-8400R2 WC

Manufacturer : -

Temperature : 'C

Humidity : -%

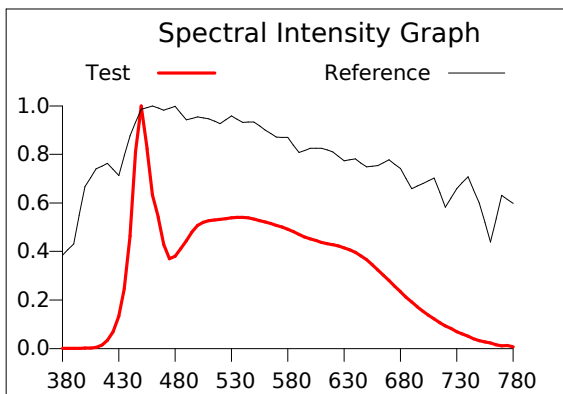
Operator : -

Test Date : 21-07-2026

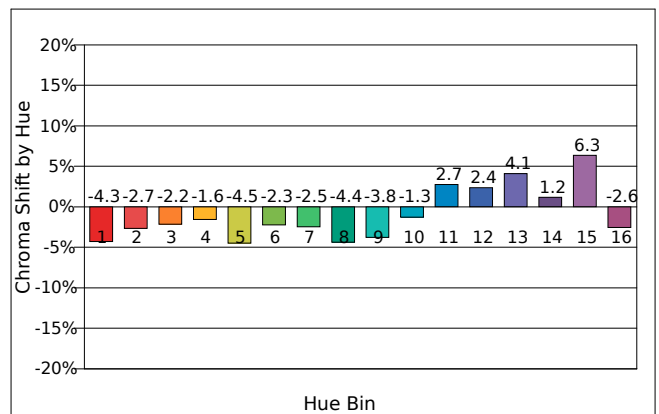
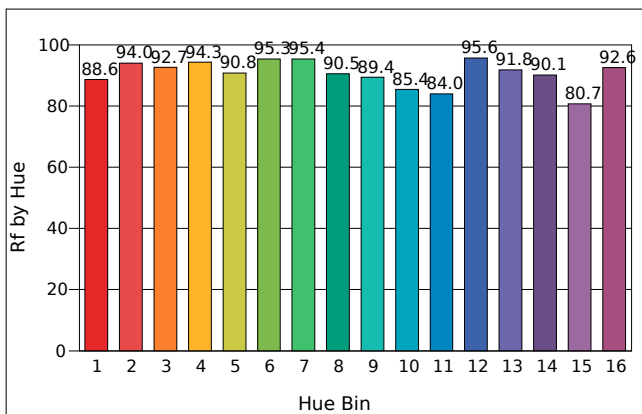
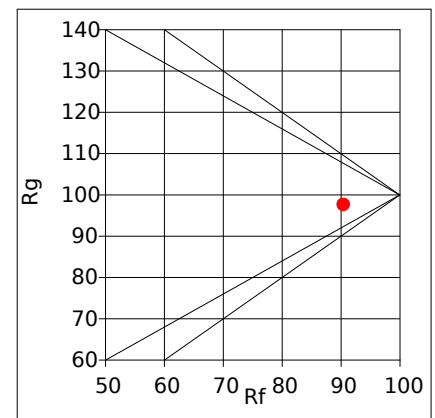
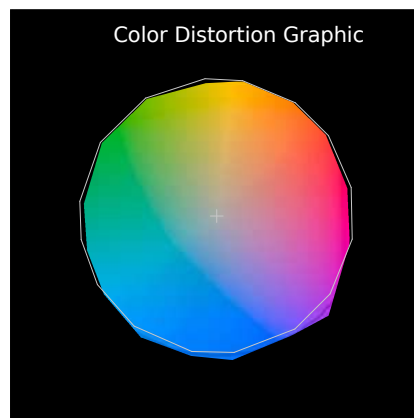
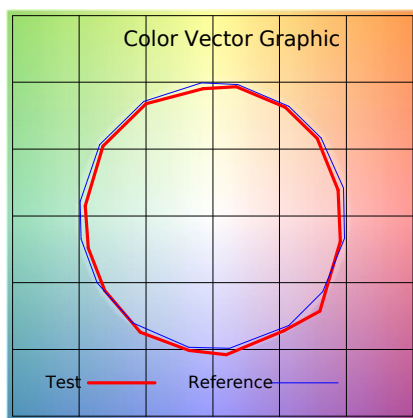
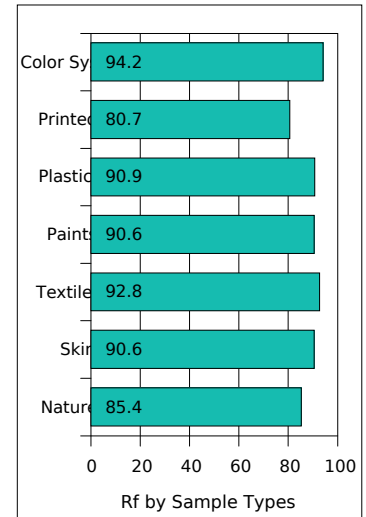
Remark :

Rf: 90.4 CCT(K): 6088 u': 0.1973

Rg: 97.6 LER: 283.3 Duv: 0.0069 v': 0.3177



Hue Bin	Graphic Shifts (%)		
	Rf	Chroma	Hue
1	88.6	-4.3%	-0.5%
2	94.0	-2.7%	1.3%
3	92.7	-2.2%	1.9%
4	94.3	-1.6%	0.7%
5	90.8	-4.5%	-0.5%
6	95.3	-2.3%	-0.6%
7	95.4	-2.5%	-0.3%
8	90.5	-4.4%	2.2%
9	89.4	-3.8%	7.6%
10	85.4	-1.3%	8.2%
11	84.0	2.7%	8.7%
12	95.6	2.4%	0.8%
13	91.8	4.1%	-3.2%
14	90.1	1.2%	-5.0%
15	80.7	6.3%	-13.5%
16	92.6	-2.6%	-2.5%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCTT-F52-8400R2 WC

Manufacturer : -

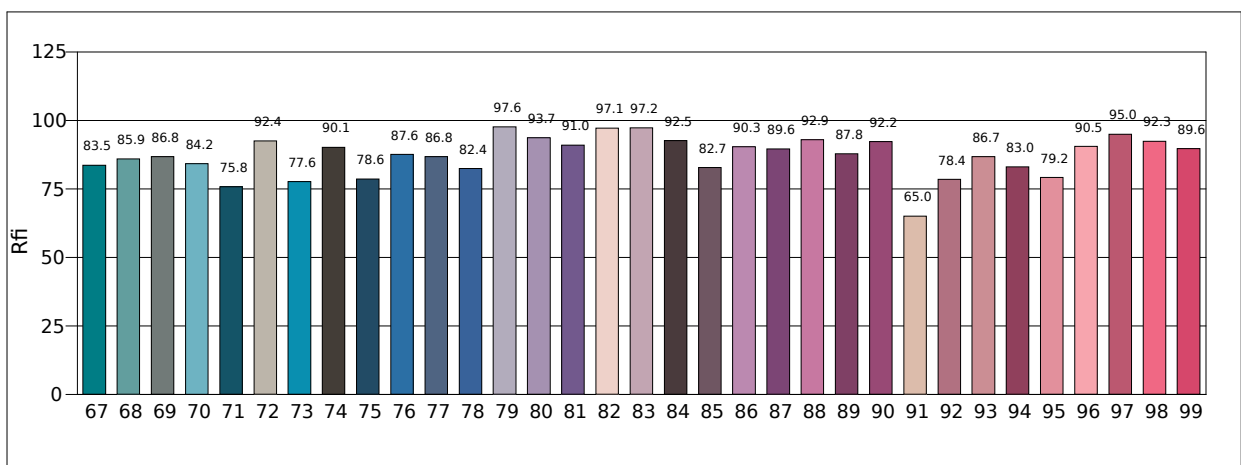
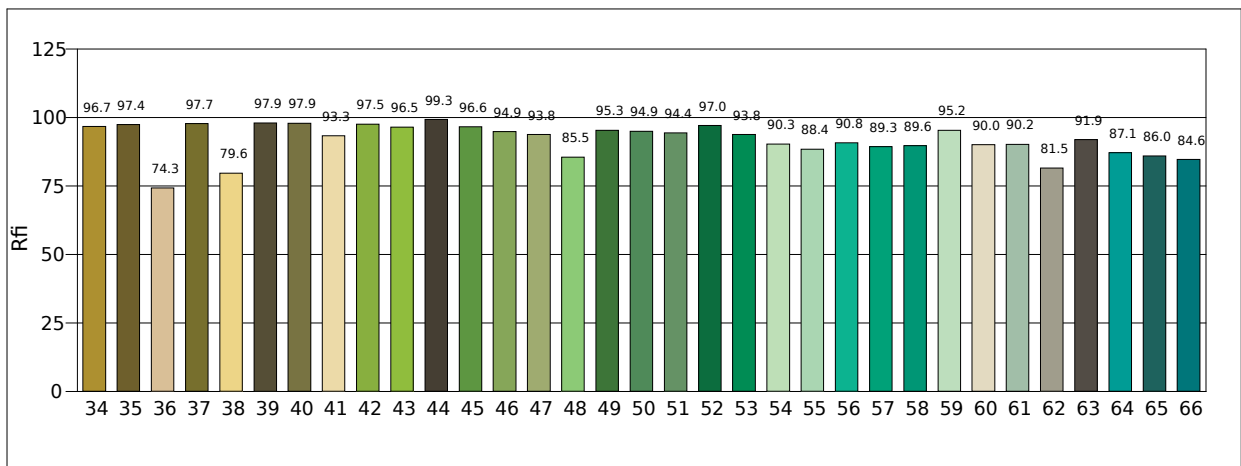
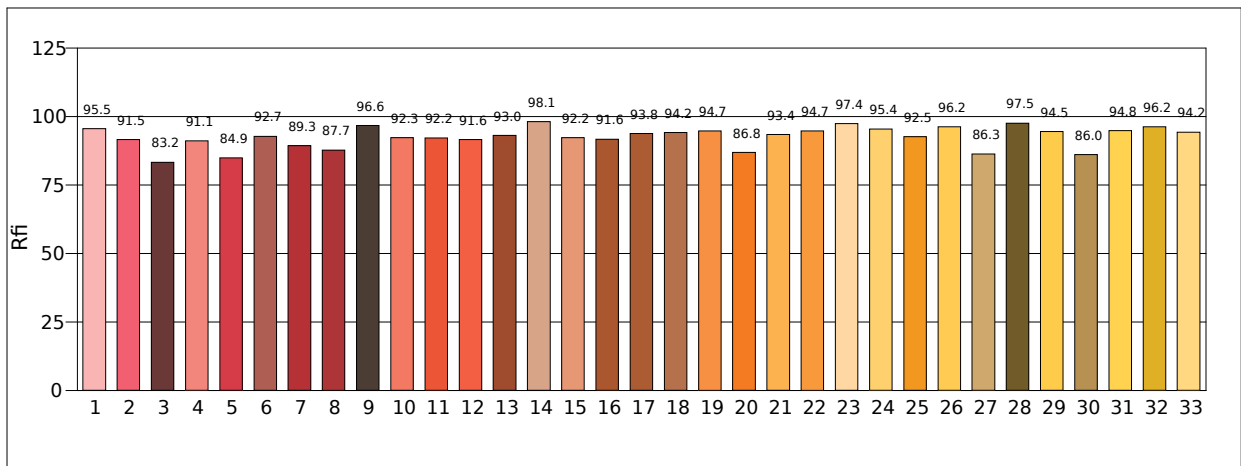
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 21-07-2026

Remark:



LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-840OR2 WW

Manufacturer : -

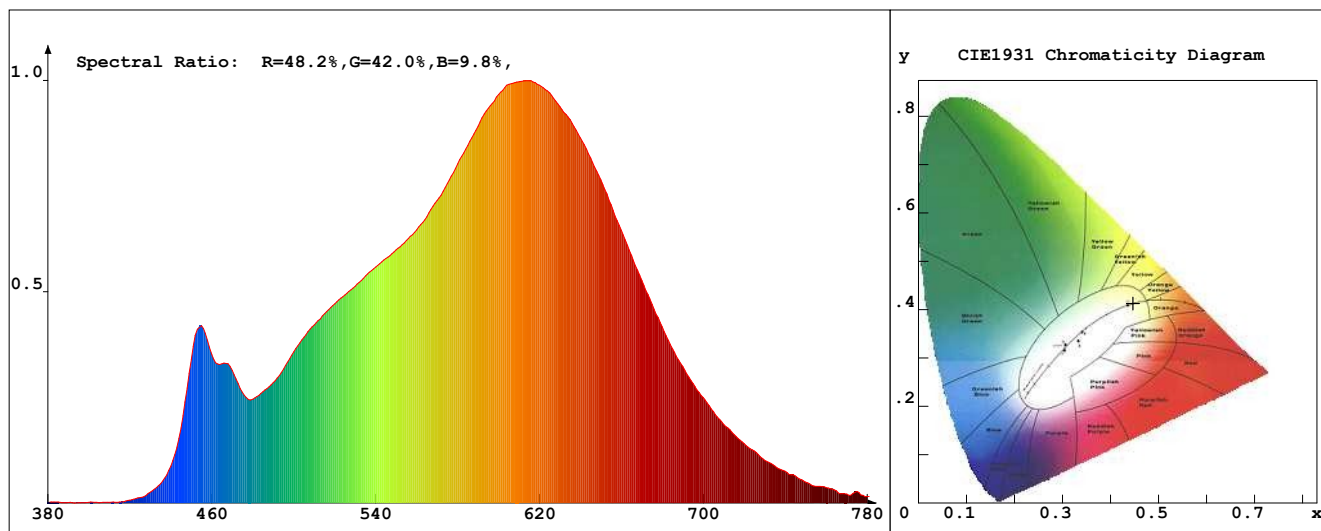
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 21-07-2026

Remark:



Chroma Parameters

Chro.Coord.:x=0.4471 y=0.4129 u=0.2533 v=0.3509 duv=0.0021

CCT: 2906K Dominant Wave.:582.5nm Purity:58.2% Centre Wave:598.7nm

Flux RGB Ratio:R=23.6%,G=74.6%,B=1.8% Peak Wave:614.6nm Half Width:145.1nm

Rendering Index:Ra= 89.6 CRI= 87.1

R1 =89 R2 =96 R3 =97 R4 =89 R5 =90 R6 =97 R7 =88 R8 =72

R9 =39 R10=91 R11=90 R12=80 R13=91 R14=99 R15=83

PPF:6.007umol/s (400-700nm)

PRF:1.2mW (400-700nm)

PAR:1.1mW (400-700nm)

Photo Parameters

Flux:417.82lm Effi.:80.8lm/W Radiant:1286.9mW Iv:0.0mcd

Scotopic Flux:573.0Plm Effi.:0.0Plm/W S/P:1.4

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:6354.460umol/s (380-780nm)

Ele. Parameters

Forward Current:If=215.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.05V

Reverse Current:Ir=0.00uA

Power:P=5.180W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 436.904ms

VPeak: 14392

VDark: 1427

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCT-F52-840R2 WW

Manufacturer : -

Temperature : 'C

Humidity : -%

Operator : -

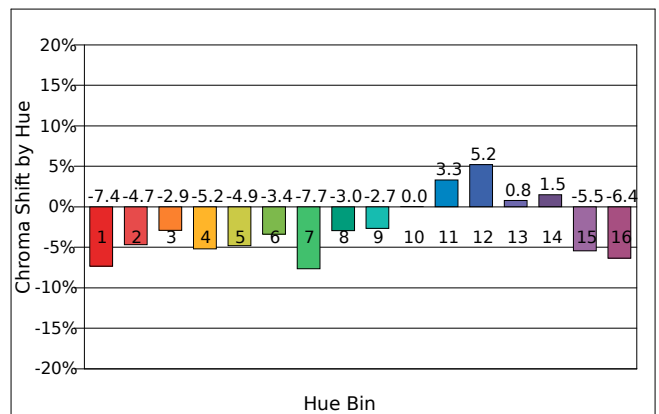
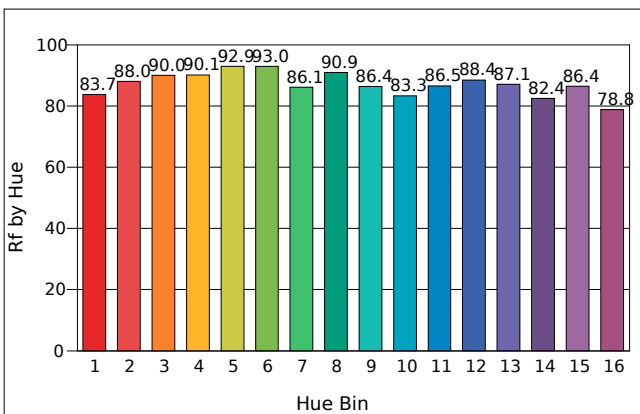
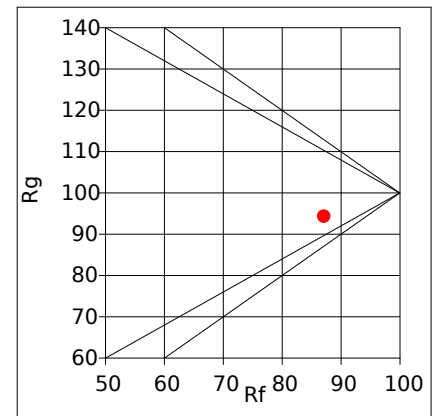
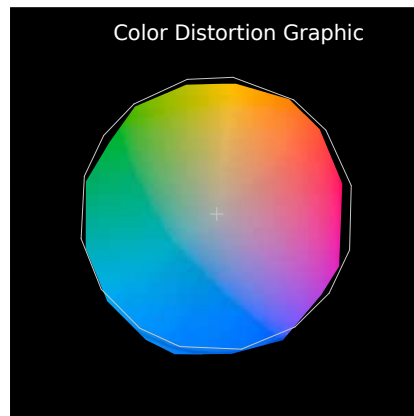
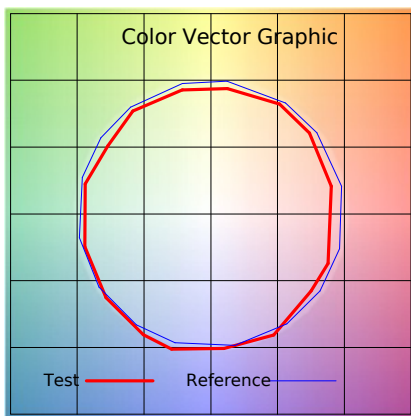
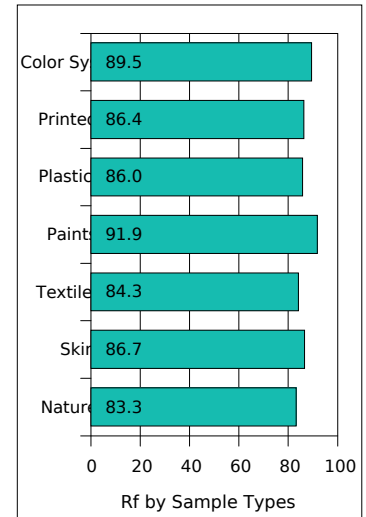
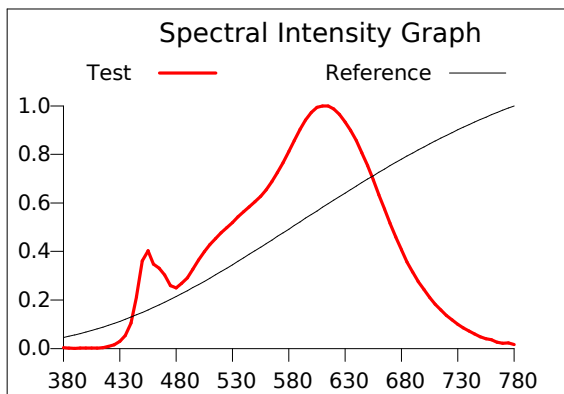
Test Date : 21-07-2026

Remark:

Rf: 87.1 CCT(K): 2906 u': 0.2533

Rg: 94.3 LER: 307.2 Duv: 0.0021 v': 0.3509

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	83.7	-7.4%	1.7%
2	88.0	-4.7%	3.0%
3	90.0	-2.9%	3.4%
4	90.1	-5.2%	-1.3%
5	92.9	-4.9%	0.8%
6	93.0	-3.4%	0.2%
7	86.1	-7.7%	2.1%
8	90.9	-3.0%	4.3%
9	86.4	-2.7%	7.3%
10	83.3	0.0%	9.7%
11	86.5	3.3%	8.5%
12	88.4	5.2%	-1.8%
13	87.1	0.8%	-8.8%
14	82.4	1.5%	-12.8%
15	86.4	-5.5%	-3.6%
16	78.8	-6.4%	-12.5%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCT-F52-840OR2 WW

Manufacturer : -

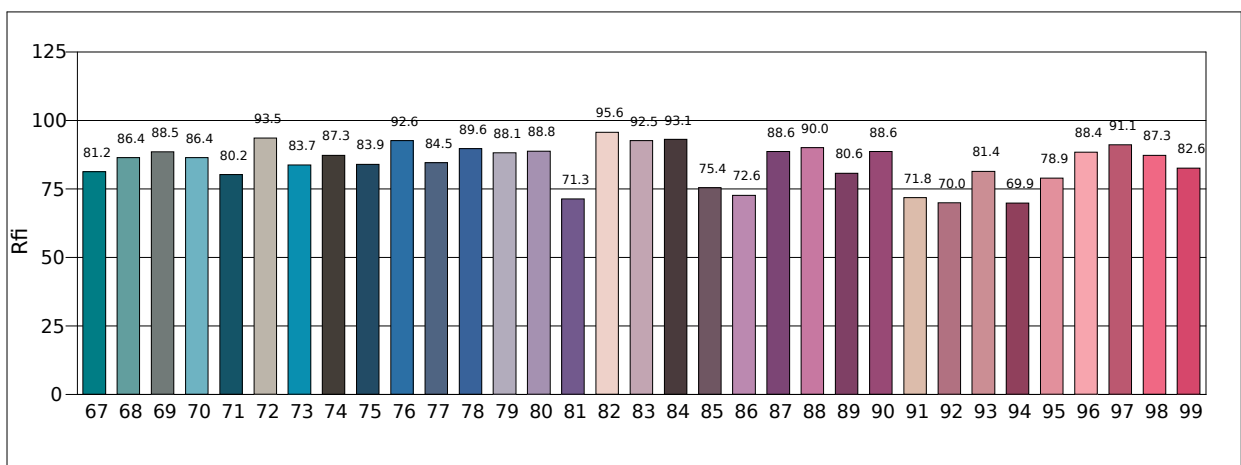
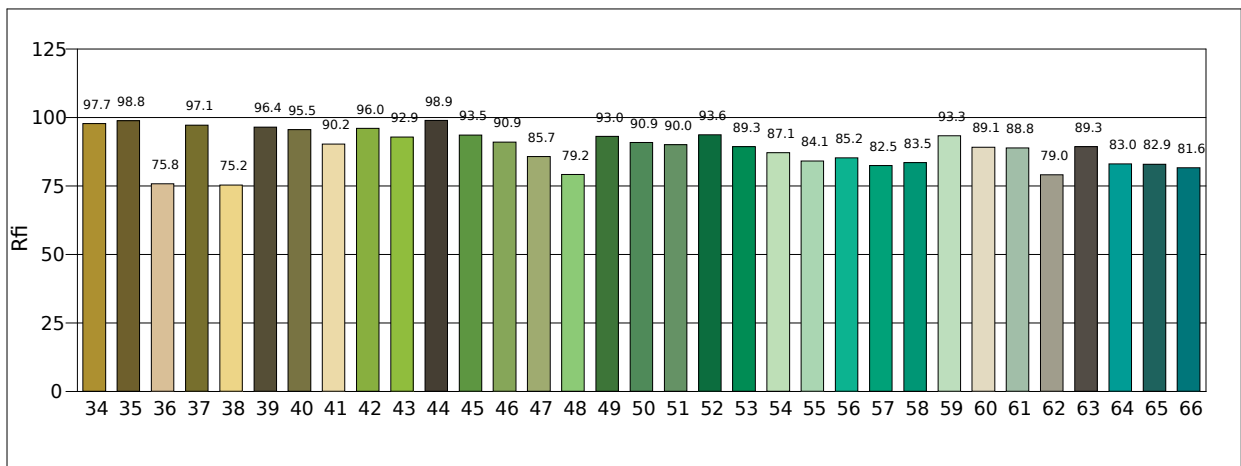
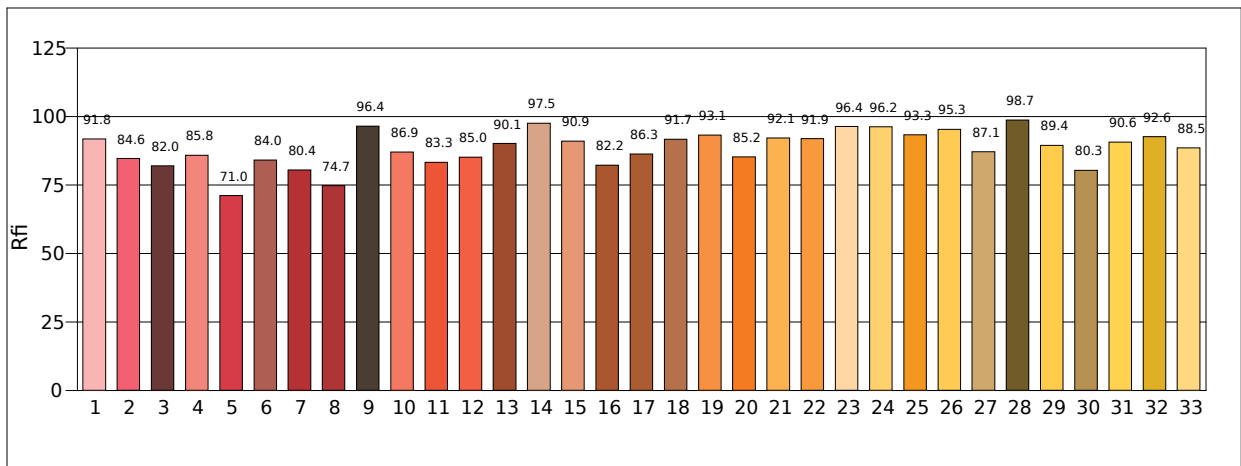
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 21-07-2026

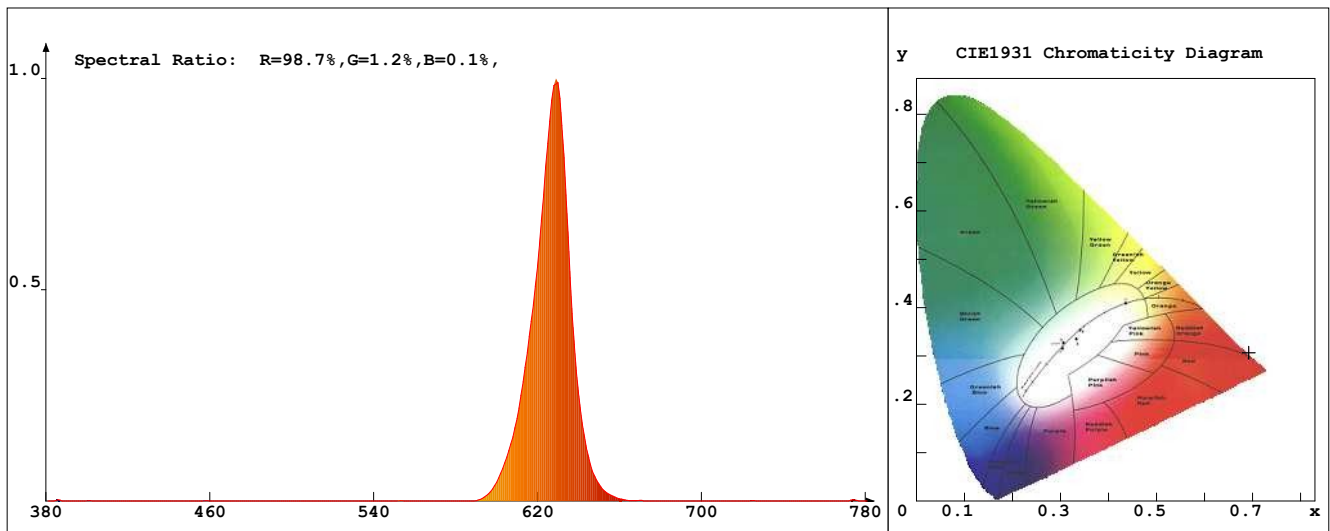
Remark:



LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-840OR2 Red Manufacturer : -
 Temperature : 'C Humidity : -%
 Operator : - Test Date : 21-07-2026
 Remark :



Chroma Parameters

Chro.Coor.: $x=0.6925$ $y=0.3068$ $u=0.5230$ $v=0.3476$ $duv=-0.0007$
 CCT: 1330K Dominant Wave.: 620.8nm Purity: 99.8% Centre Wave: 626.5nm
 Flux RGB Ratio: R=97.5%, G=2.5%, B=0.0% Peak Wave: 628.6nm Half Width: 17.6nm

Rendering Index: Ra=-19.7 CRI=104.3

R1 = -51	R2 = 49	R3 = 15	R4 = -69	R5 = -33	R6 = 62	R7 = -15	R8 = -114
R9 = -341	R10 = 34	R11 = -82	R12 = 30	R13 = -26	R14 = 43	R15 = -86	
PPF: 3.138 $\mu\text{mol/s}$ (400-700nm)			PRF: 0.6mW (400-700nm)			PAR: 0.6mW (400-700nm)	

Photo Parameters

Flux: 136.80lm Effi.: 25.3lm/W Radiant: 601.2mW Iv: 0.0mcd
 Scotopic Flux: 7.4Plm Effi.: 0.0Plm/W S/P: 0.1
 Efficiency: 0.00 Effi Level: A++ (EU 874-2012) Photon Flux: 3142.610 $\mu\text{mol/s}$ (380-780nm)

Ele. Parameters

Forward Current: $I_f=225.0\text{mA}$ Reverse Voltage: $V_r=5.00\text{V}$
 Forward Voltage: $V_f=24.04\text{V}$ Reverse Current: $I_r=0.00\mu\text{A}$
 Power: $P=5.401\text{W}$

Instrument state

Instrument: Lisun LMS-8000	Integral Time: 112.566ms	VPeak: 13912
VDark: 1308	Scan Range: 380-780nm	Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCTT-F52-8400R2 Red

Manufacturer : -

Temperature : 'C

Humidity : -%

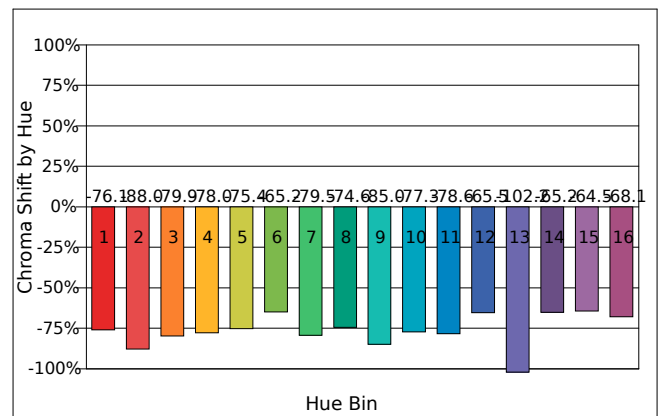
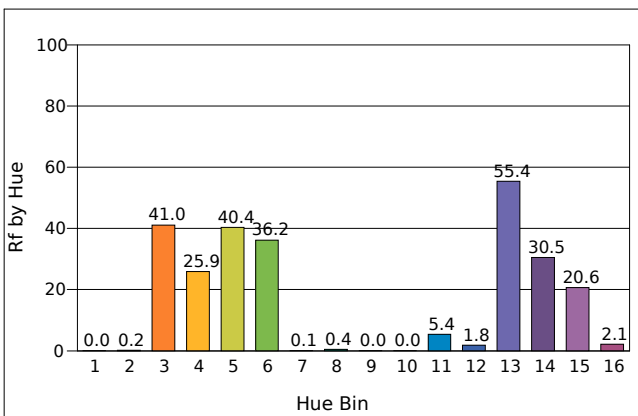
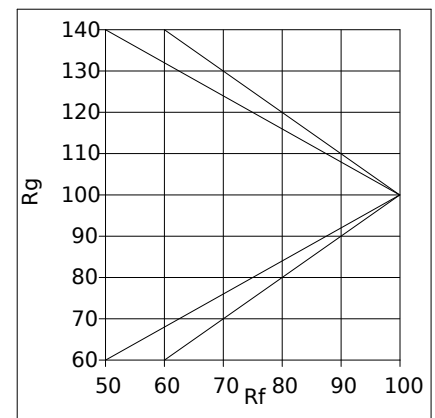
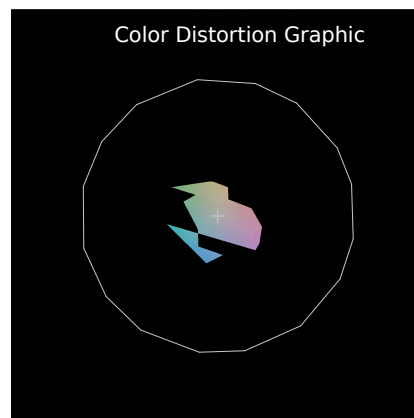
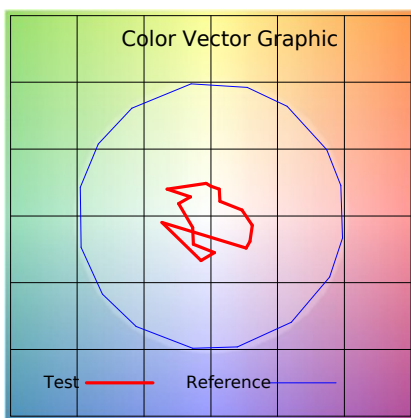
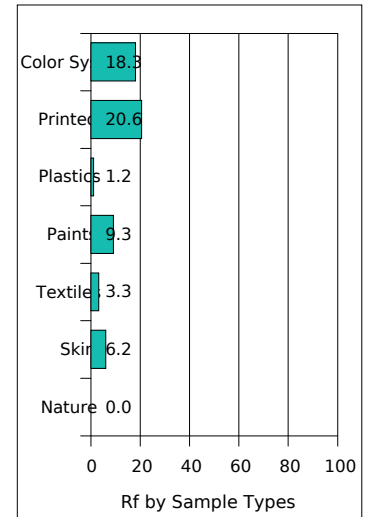
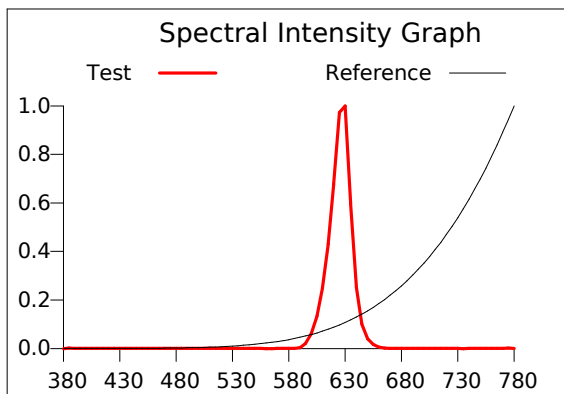
Operator : -

Test Date : 21-07-2026

Remark:

Rf: 1.4 CCT(K): 1330 u': 0.5230
 Rg: 4.9 LER: 220.3 Duv: -0.0007 v': 0.3476

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-76.1%	-3.6%
2	0.2	-88.0%	12.5%
3	41.0	-79.9%	7.8%
4	25.9	-78.0%	12.1%
5	40.4	-75.4%	3.5%
6	36.2	-65.2%	11.9%
7	0.1	-79.5%	-5.4%
8	0.4	-74.6%	-2.3%
9	0.0	-85.0%	2.0%
10	0.0	-77.3%	6.9%
11	5.4	-78.6%	18.1%
12	1.8	-65.5%	-6.6%
13	55.4	-102.2%	-36.9%
14	30.5	-65.2%	2.8%
15	20.6	-64.5%	-10.8%
16	2.1	-68.1%	-3.6%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCCT-F52-840OR2 Red

Manufacturer : -

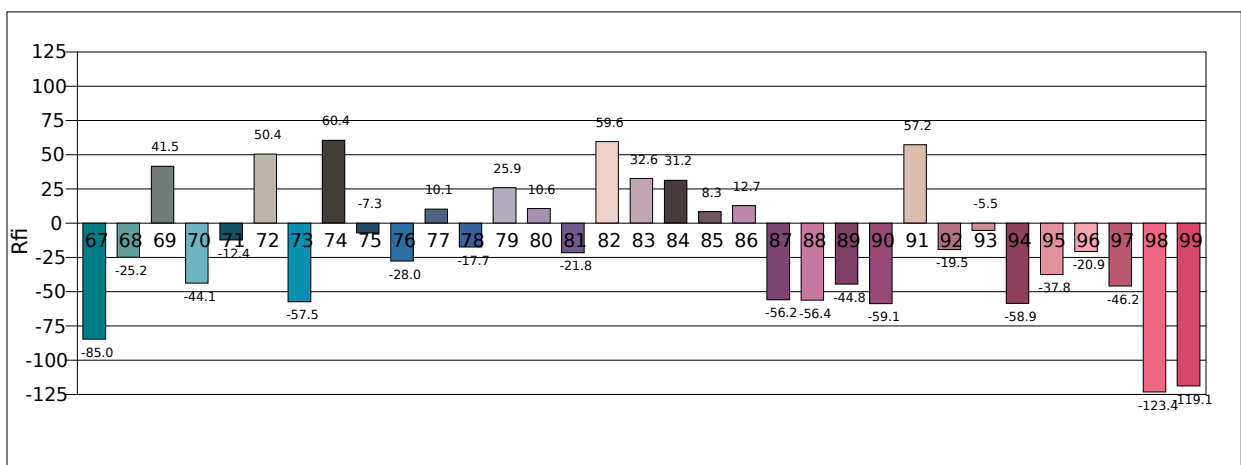
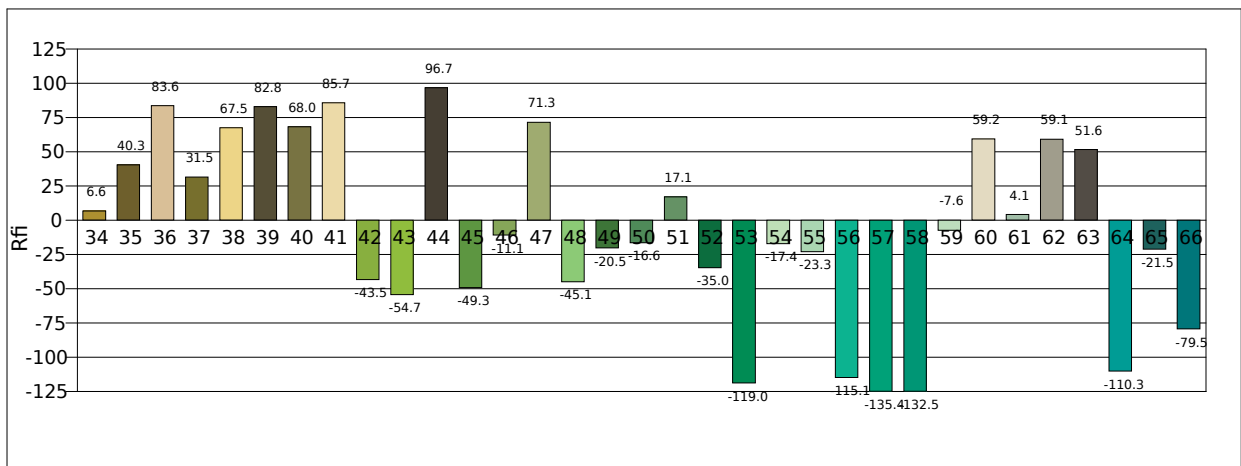
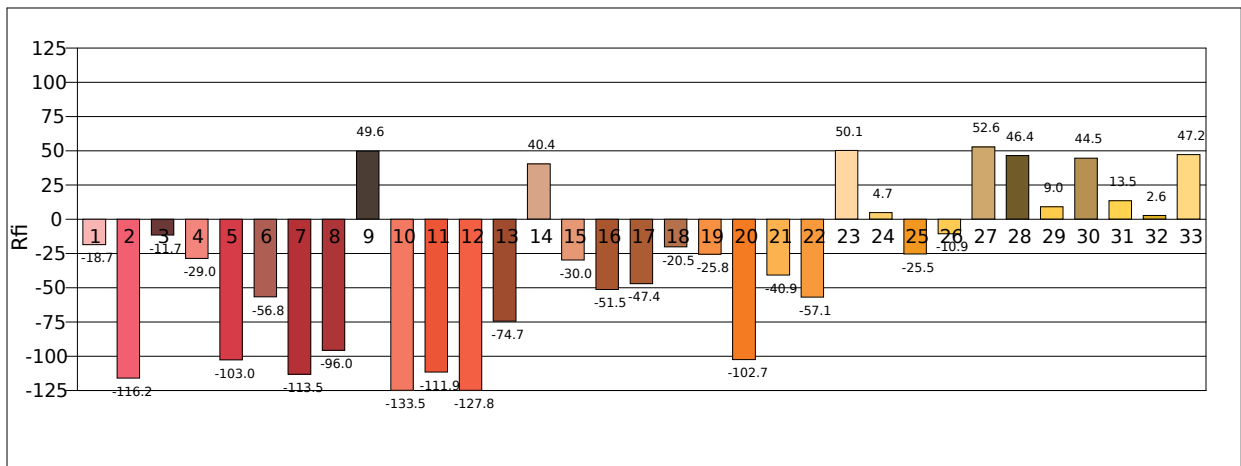
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 21-07-2026

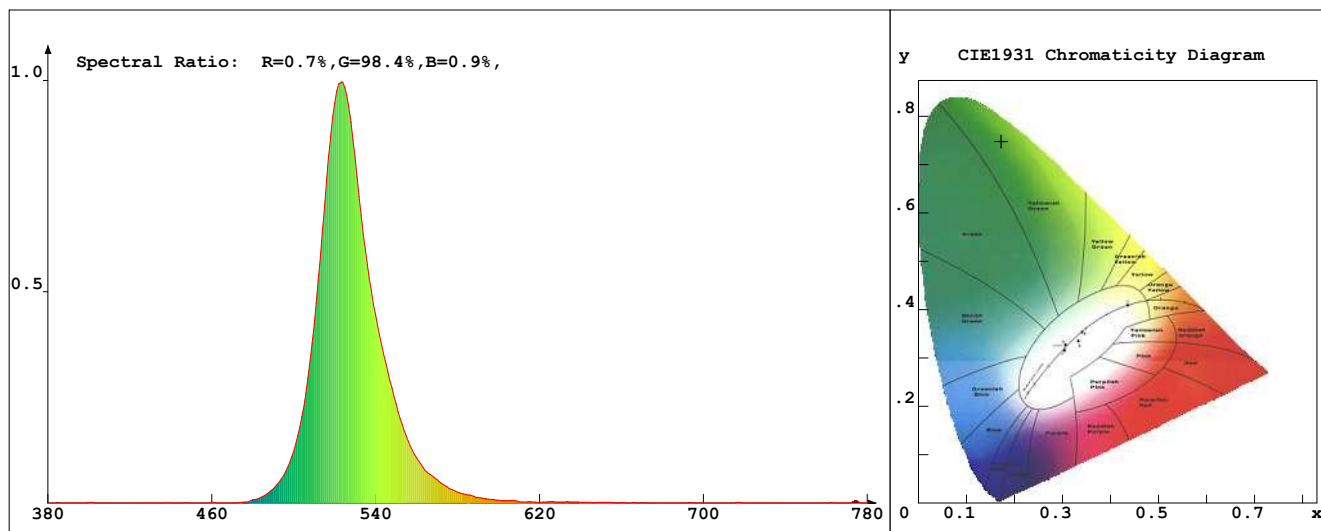
Remark :



LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-840OR2 Green Manufacturer : -
 Temperature : 'C Humidity : -%
 Operator : - Test Date : 21-07-2026
 Remark:



Chroma Parameters

Chro.Coord.:x=0.1721 y=0.7482 u=0.0592 v=0.3859 duv=0.1596
 CCT: 7690K Dominant Wave.:529.2nm Purity:87.1% Centre Wave:523.7nm
 Flux RGB Ratio:R=0.3%,G=99.6%,B=0.2% Peak Wave:522.6nm Half Width:26.5nm

Rendering Index:Ra=-31.7 CRI=107.8

R1 =-37 R2 =-17 R3 =-39 R4 =-73 R5 =-12 R6 =-23 R7 =-15 R8 =-36
 R9 =-361 R10=-127 R11=-105 R12=-46 R13=-45 R14=30 R15=-35
 PPF:2.714umol/s (400-700nm) PRF:0.6mW (400-700nm) PAR:0.5mW (400-700nm)

Photo Parameters

Flux:348.80lm Effi.:134.5lm/W Radiant:616.4mW Iv:0.0mcd
 Scotopic Flux:924.3Plm Effi.:0.0Plm/W S/P:2.6
 Efficiency:0.00 Effi Level:A++ (EU 874-2012) Photon Flux:2719.910umol/s (380-780nm)

Ele. Parameters

Forward Current:If=108.0mA Reverse Voltage:Vr=5.00V
 Forward Voltage:Vf=24.02V Reverse Current:Ir=0.00uA
 Power:P=2.621W

Instrument state

Instrument:Lisun LMS-8000 Integral Time: 136.325ms VPeak: 13672
 VDark: 1311 Scan Range: 380-780nm Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCTT-F52-8400R2 Green Manufacturer : -

Temperature : 'C

Humidity : -%

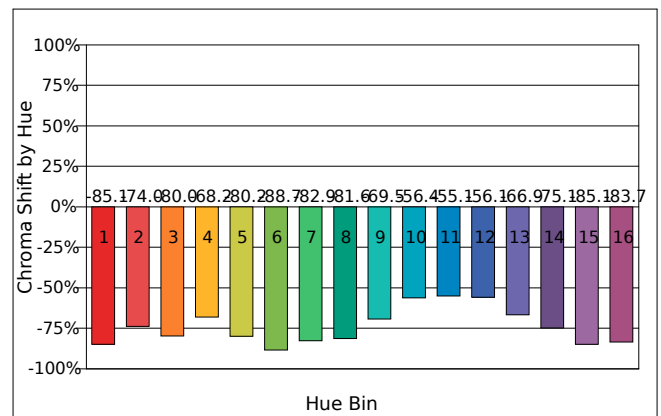
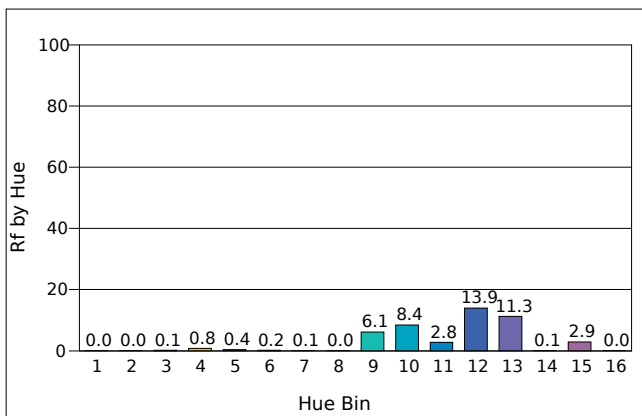
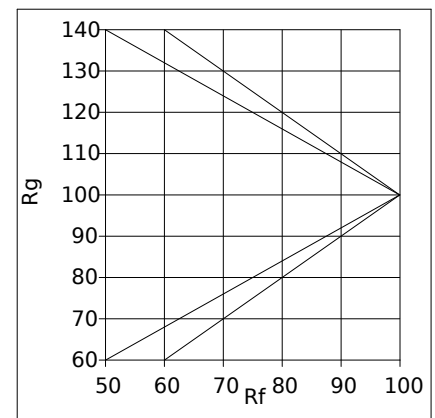
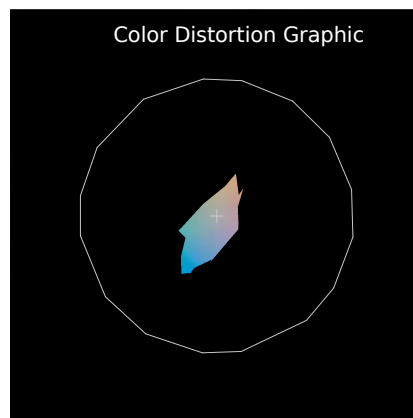
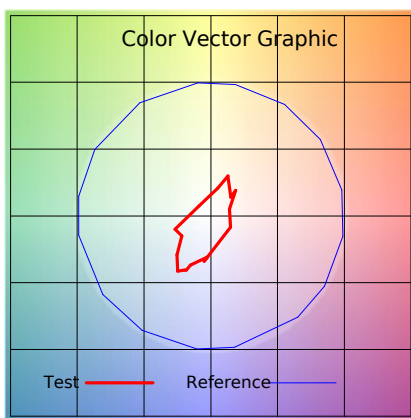
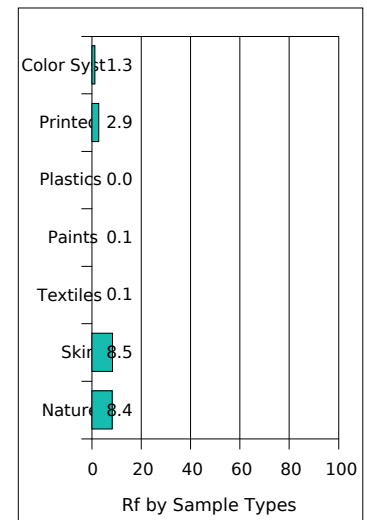
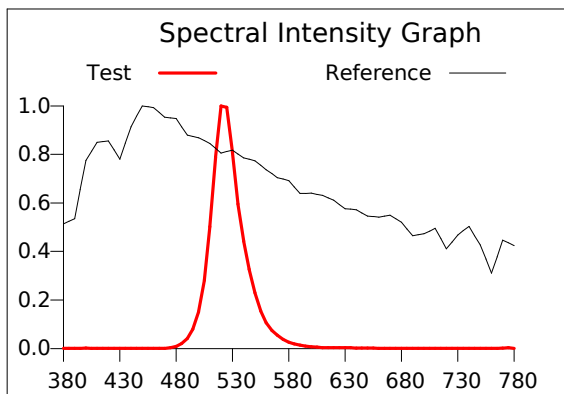
Operator : -

Test Date : 21-07-2026

Remark:

Rf: 0.3 CCT(K): 7690 u': 0.0592
Rg: 5.0 LER: 513.5 Duv: 0.1596 v': 0.3859

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-85.1%	2.6%
2	0.0	-74.0%	3.6%
3	0.1	-80.0%	-5.1%
4	0.8	-68.2%	-8.0%
5	0.4	-80.2%	0.8%
6	0.2	-88.7%	5.9%
7	0.1	-82.9%	16.1%
8	0.0	-81.6%	13.9%
9	6.1	-69.5%	28.8%
10	8.4	-56.4%	16.6%
11	2.8	-55.1%	1.3%
12	13.9	-56.1%	-19.1%
13	11.3	-66.9%	-20.3%
14	0.1	-75.1%	-31.2%
15	2.9	-85.1%	-34.5%
16	0.0	-83.7%	-9.8%



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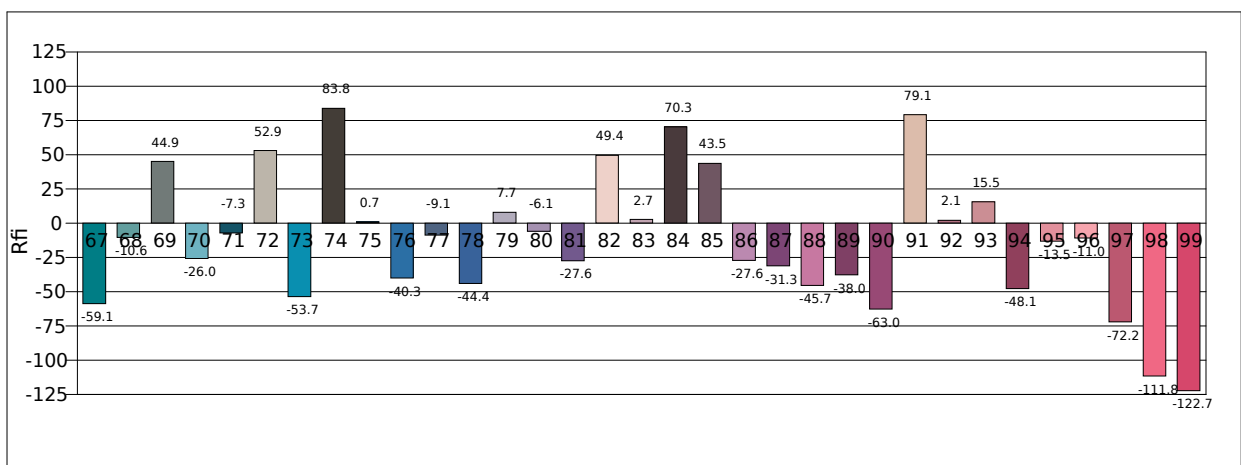
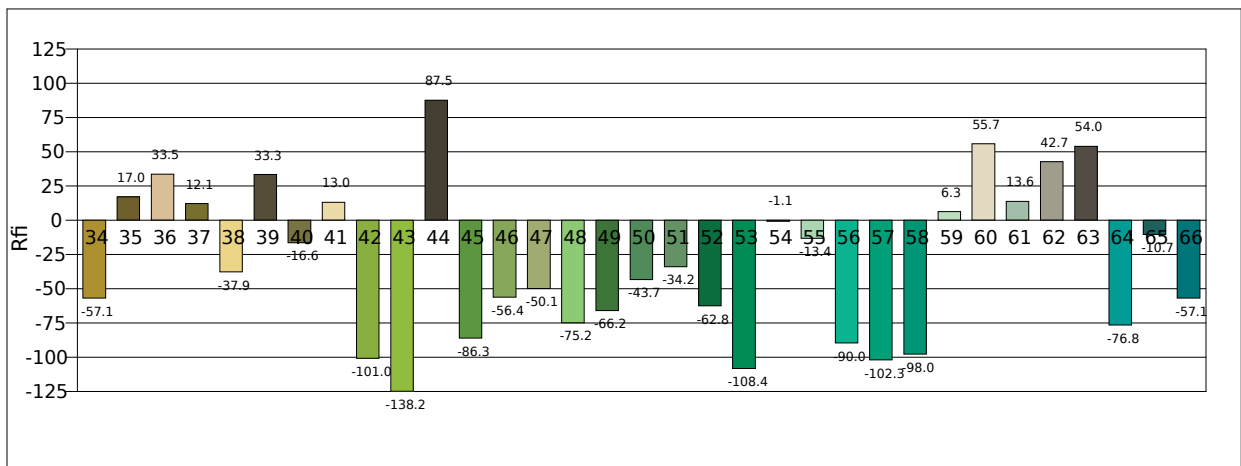
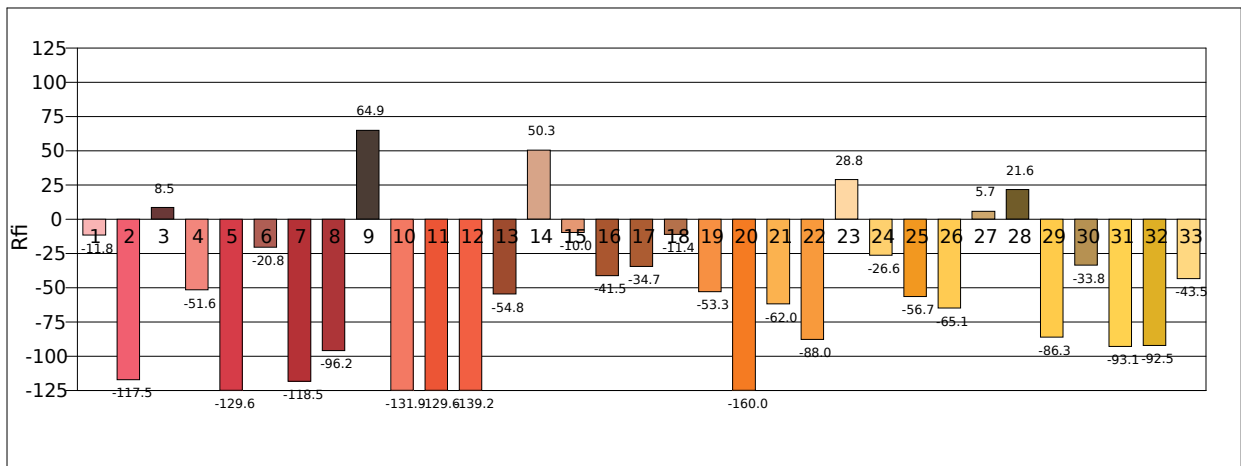
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 21-07-2026

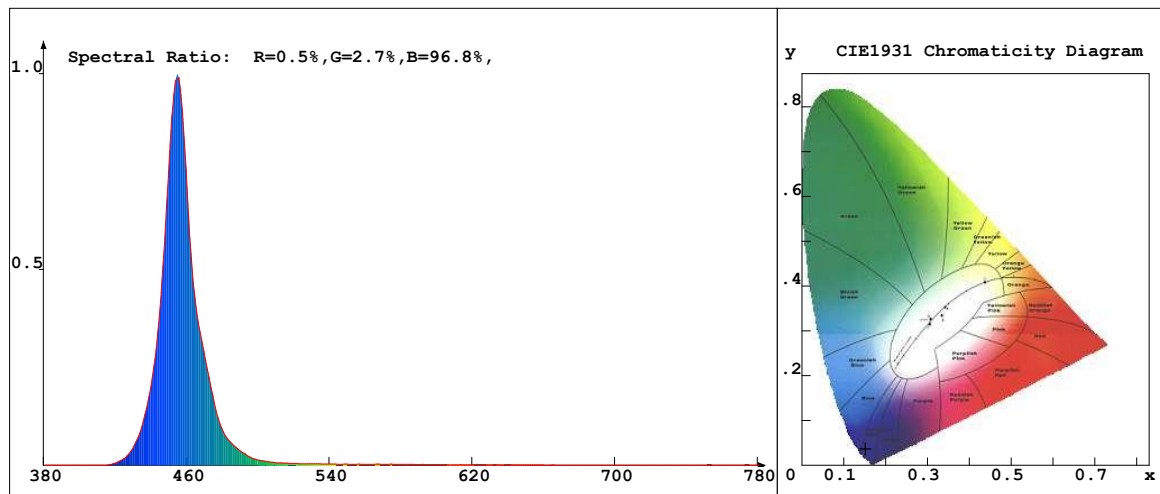
Remark :



LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-840OR2 B1 Manufacturer : -
 Temperature : 'C Humidity : -%
 Operator : - Test Date : 21-07-2026
 Remark:



Chroma Parameters

Chro.Coord.:x=0.1518 y=0.0366 u=0.1937 v=0.0701 duv=-0.0612
 CCT:100000K Dominant Wave.:458.5nm Purity:97.0% Centre Wave:454.1nm
 Flux RGB Ratio:R=1.8%,G=22.2%,B=76.0% Peak Wave:453.8nm Half Width:16.5nm

Rendering Index:Ra=-49.0 CRI=101.1

R1 =1 R2 =-34 R3 =-151 R4 =-85 R5 =38 R6 =-40 R7 =-65 R8 =-56
 R9 =-210 R10=-213 R11=-108 R12=-95 R13=-13 R14=-31 R15=13
 PPF:3.747umol/s(400-700nm) PRF:1.0mW(400-700nm) PAR:0.7mW(400-700nm)

Photo Parameters

Flux:58.53lm Effi.:20.1lm/W Radiant:978.8mW Iv:0.0mcd
 Scotopic Flux:1083.8PlmEffi.:0.0Plm/W S/P:18.5
 Efficiency:0.00 Effi Level:A++ (EU 874-2012) Photon Flux:3750.960umol/s(380-780nm)

Ele. Parameters

Forward Current:If=121.0mA Reverse Voltage:Vr=5.00V
 Forward Voltage:Vf=24.00V Reverse Current:Ir=0.00uA
 Power:P=2.911W

Instrument state

Instrument:Lisun LMS-8000 Integral Time: 80.340ms VPeak: 15496
 VDark: 1189 Scan Range: 380-780nm Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCCT-F52-840R2 B1Manufacturer : -

Temperature : 'C

Humidity : -%

Operator : -

Test Date : 21-07-2026

Remark:

