

LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 WC

Manufacturer : -

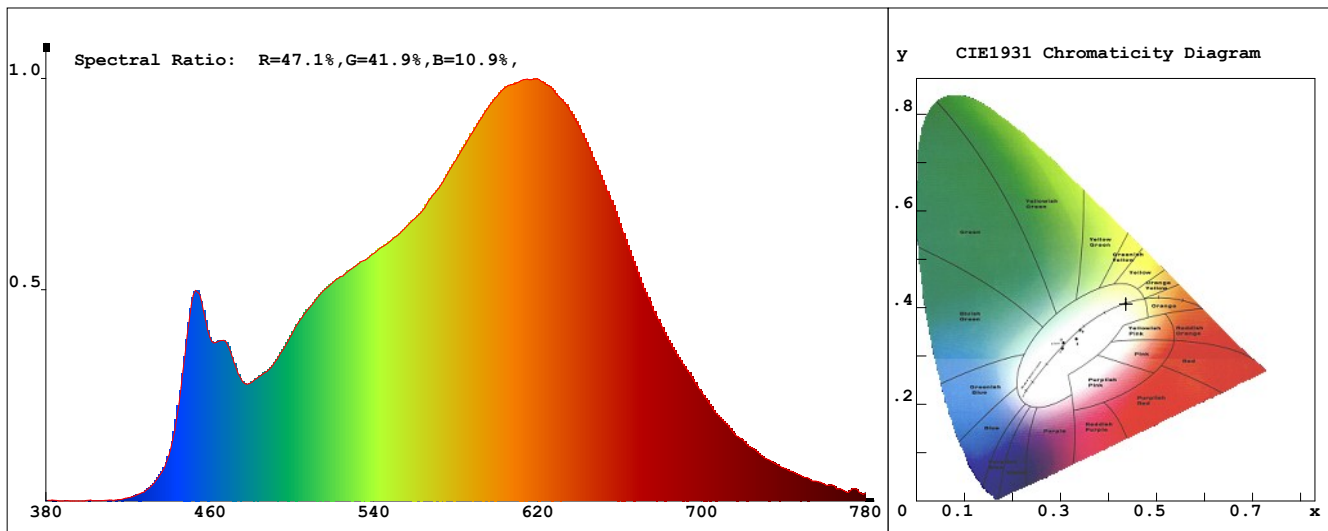
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark:



Chroma Parameters

Chro.Coord.:x=0.4364 y=0.4077 u=0.2487 v=0.3485 duv=0.0015

CCT: 3039K Dominant Wave.:582.1nm Purity:53.4% Centre Wave:593.5nm

Flux RGB Ratio:R=23.1%,G=74.9%,B=2.0% Peak Wave:618.5nm Half Width:155.2nm

Rendering Index:Ra= 91.6 CRI= 89.4

R1 =92 R2 =97 R3 =97 R4 =91 R5 =92 R6 =97 R7 =89 R8 =77

R9 =49 R10=93 R11=93 R12=80 R13=94 R14=99 R15=86

PPF:4.839umol/s (400-700nm)

PRF:1.0mW (400-700nm)

PAR:0.9mW (400-700nm)

Photo Parameters

Flux:324.44lm Effi.:70.2lm/W Radiant:1041.7mW Iv:0.0mcd

Scotopic Flux:470.5Plm Effi.:0.0Plm/W S/P:1.5

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:5123.880umol/s (380-780nm)

Ele. Parameters

Forward Current:If=194.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.83V

Reverse Current:Ir=0.00uA

Power:P=4.631W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 497.277ms

VPeak: 13752

VDark: 1460

Scan Range: 380-780nm

Product ID: 201508924

www.orizzonteled.com

IES TM-30-2015 Test Report

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Product Type : ORRGBCCT-F52-8400R2 WC

Manufacturer : -

Temperature : 'C

Humidity : -%

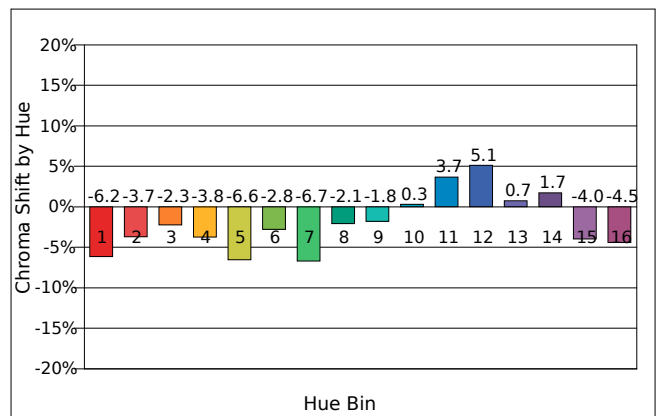
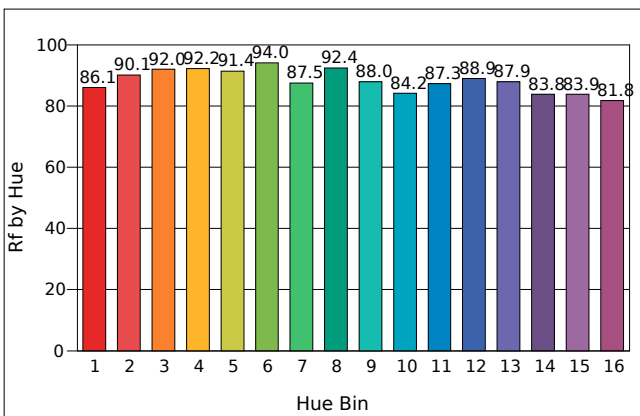
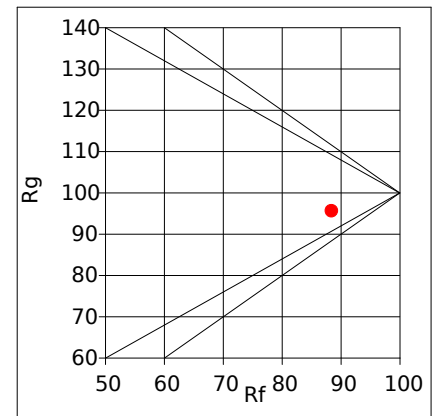
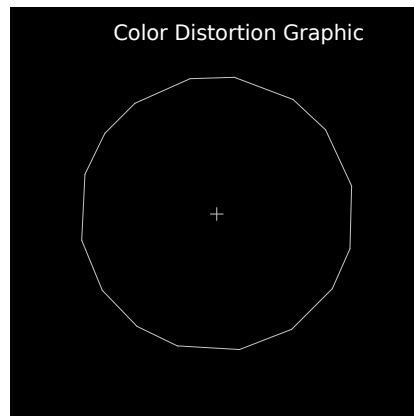
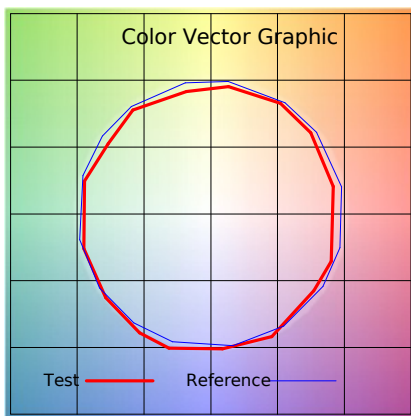
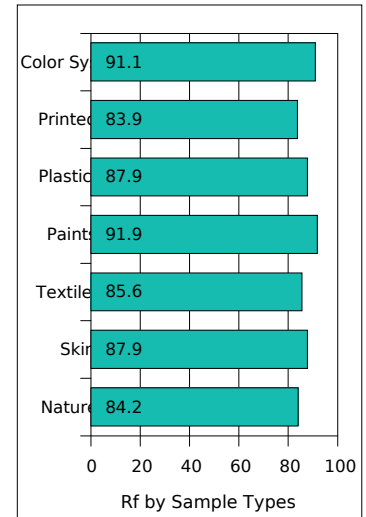
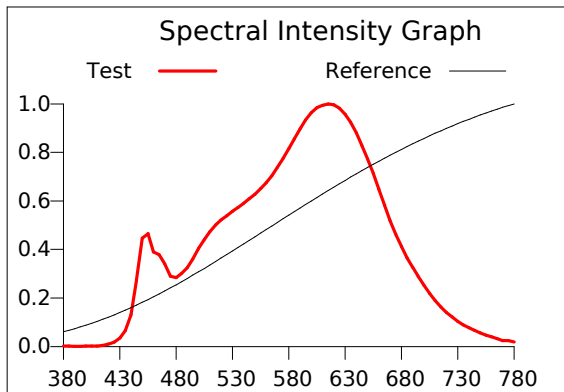
Operator : -

Test Date : 2025-02-12

Remark :

Rf: 88.4 CCT(K): 3039 u': 0.2487
 Rg: 95.6 LER: 303.7 Duv: 0.0015 v': 0.3485

Hue Bin	Graphic Shifts (%)		
	Rf	Chroma	Hue
1	86.1	-6.2%	1.5%
2	90.1	-3.7%	2.4%
3	92.0	-2.3%	2.6%
4	92.2	-3.8%	-1.2%
5	91.4	-6.6%	0.3%
6	94.0	-2.8%	0.4%
7	87.5	-6.7%	2.4%
8	92.4	-2.1%	3.8%
9	88.0	-1.8%	7.3%
10	84.2	0.3%	8.4%
11	87.3	3.7%	7.8%
12	88.9	5.1%	-1.8%
13	87.9	0.7%	-8.2%
14	83.8	1.7%	-11.7%
15	83.9	-4.0%	-6.5%
16	81.8	-4.5%	-11.1%



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Product Type : ORRGBCCT-F52-8400R2 WC

Manufacturer : -

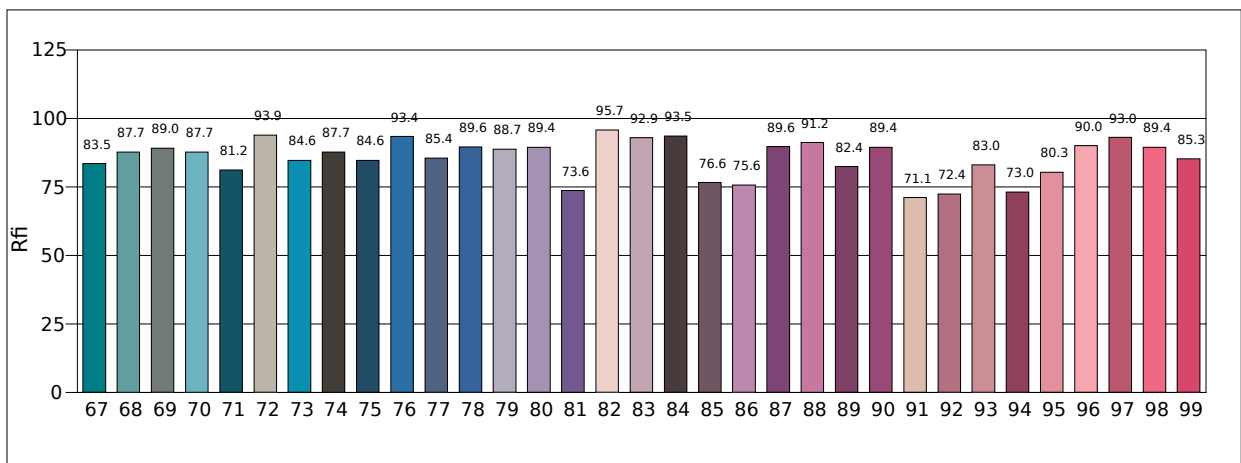
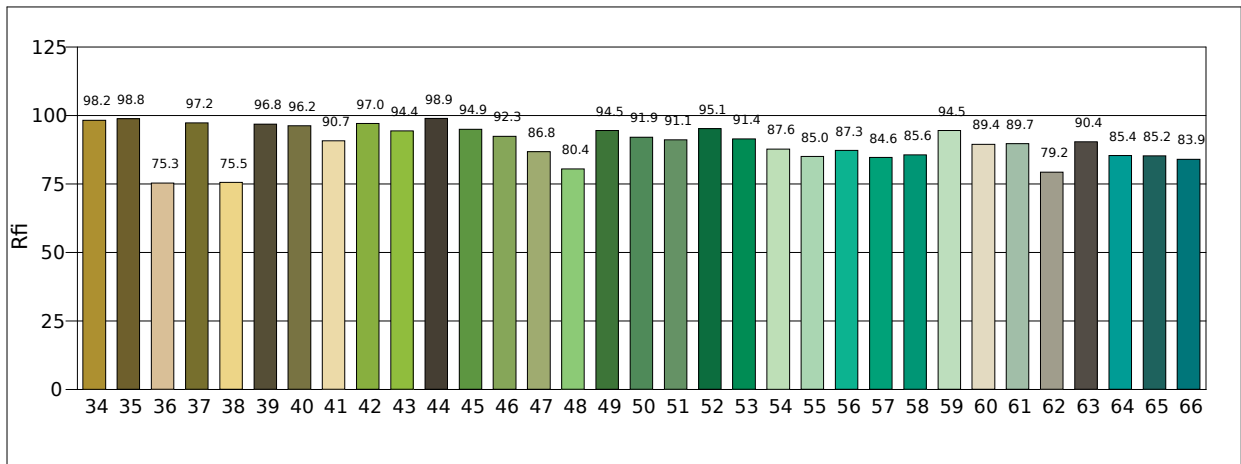
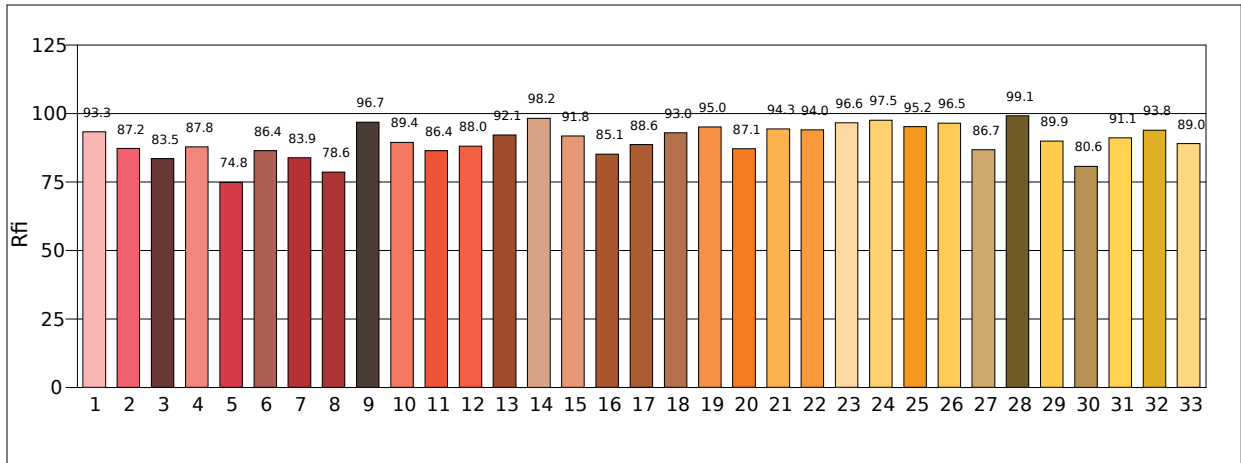
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark:



LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 WW

Manufacturer : -

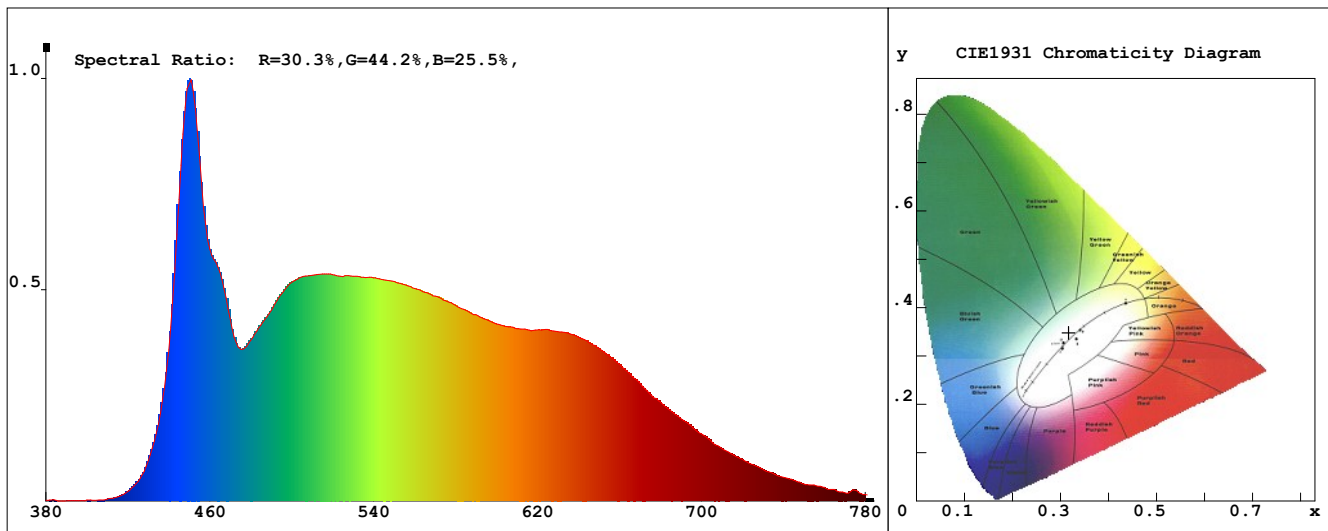
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark:



Chroma Parameters

Chro.Coord.:x=0.3170 y=0.3477 u=0.1939 v=0.3191 duv=0.0104

CCT: 6185K Dominant Wave.:503.6nm Purity:5.0% Centre Wave:453.6nm

Flux RGB Ratio:R=14.0%,G=81.6%,B=4.3% Peak Wave:449.6nm Half Width:24.7nm

Rendering Index:Ra= 92.8 CRI= 89.8

R1 =92 R2 =95 R3 =99 R4 =91 R5 =90 R6 =91 R7 =97 R8 =89

R9 =68 R10=90 R11=91 R12=71 R13=92 R14=99 R15=88

PPF:4.734umol/s (400-700nm)

PRF:1.0mW (400-700nm)

PAR:0.9mW (400-700nm)

Photo Parameters

Flux:316.47lm Effi.:69.9lm/W Radiant:1078.0mW Iv:0.0mcd

Scotopic Flux:749.7Plm Effi.:0.0Plm/W S/P:2.4

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:5007.160umol/s (380-780nm)

Ele. Parameters

Forward Current:If=190.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.83V

Reverse Current:Ir=0.00uA

Power:P=4.551W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 386.559ms

VPeak: 15960

VDark: 1432

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 WW

Manufacturer : -

Temperature : 'C

Humidity : -%

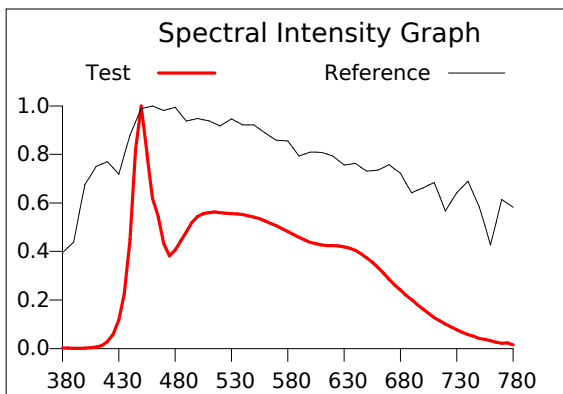
Operator : -

Test Date : 2025-02-12

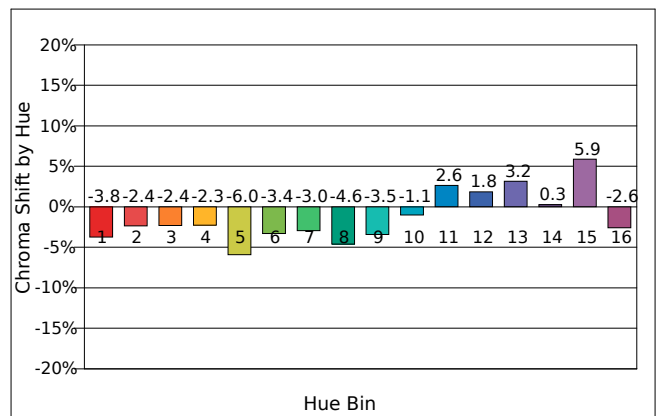
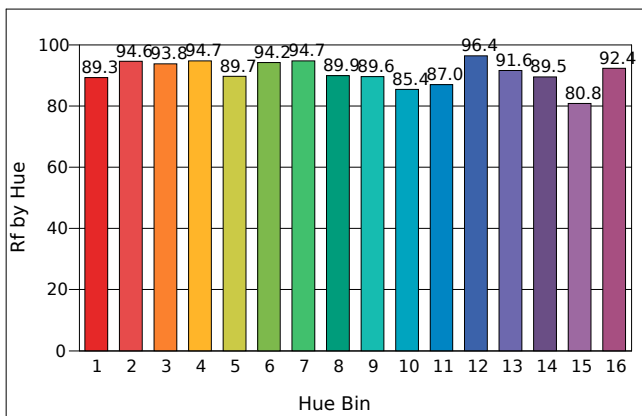
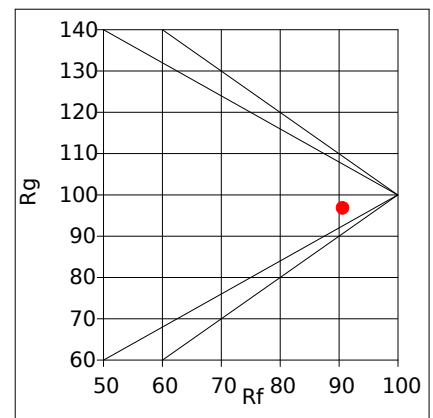
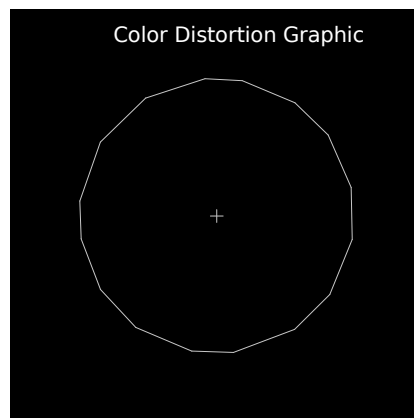
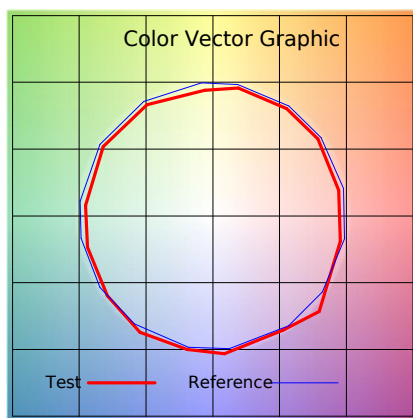
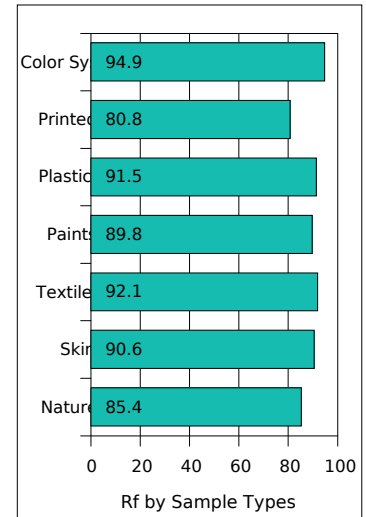
Remark :

Rf: 90.6 CCT(K): 6185 u': 0.1939

Rg: 96.8 LER: 281.7 Duv: 0.0104 v': 0.3191



Hue Bin	Graphic Shifts (%)		
	Rf	Chroma	Hue
1	89.3	-3.8%	-0.7%
2	94.6	-2.4%	0.4%
3	93.8	-2.4%	0.4%
4	94.7	-2.3%	-0.9%
5	89.7	-6.0%	-1.6%
6	94.2	-3.4%	-0.7%
7	94.7	-3.0%	-0.1%
8	89.9	-4.6%	2.4%
9	89.6	-3.5%	7.5%
10	85.4	-1.1%	8.2%
11	87.0	2.6%	6.9%
12	96.4	1.8%	-0.5%
13	91.6	3.2%	-4.1%
14	89.5	0.3%	-5.6%
15	80.8	5.9%	-13.4%
16	92.4	-2.6%	-2.5%



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Manufacturer : -

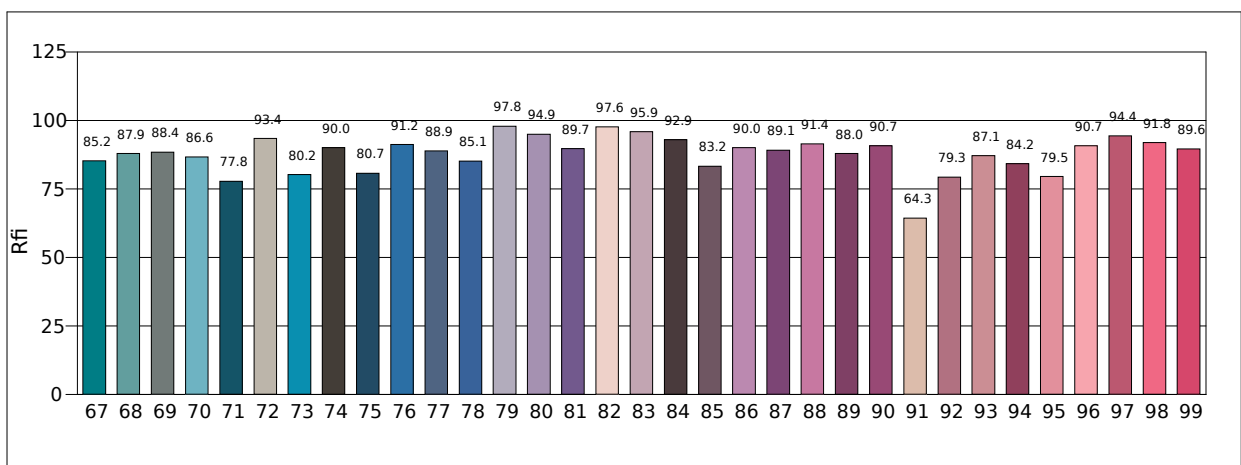
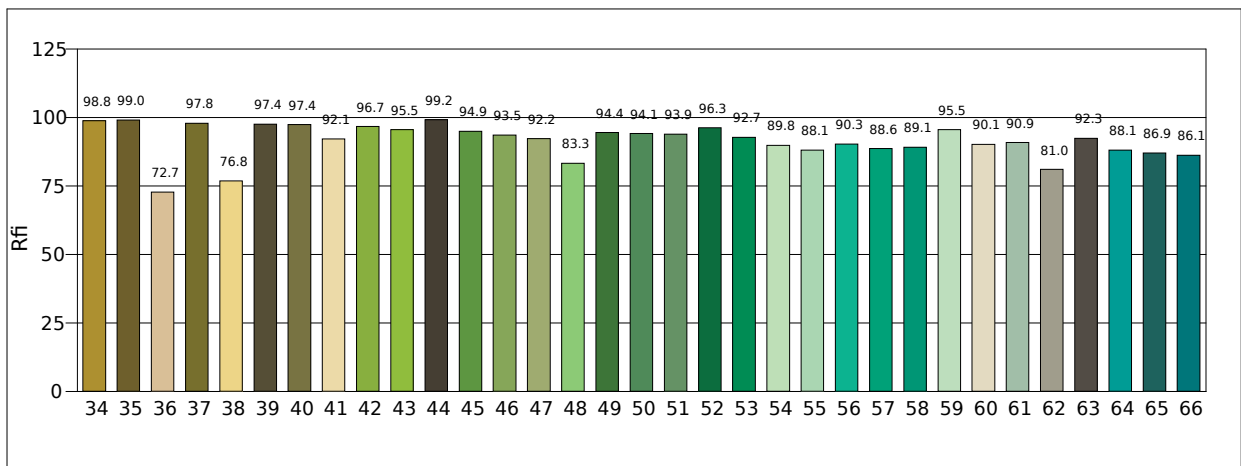
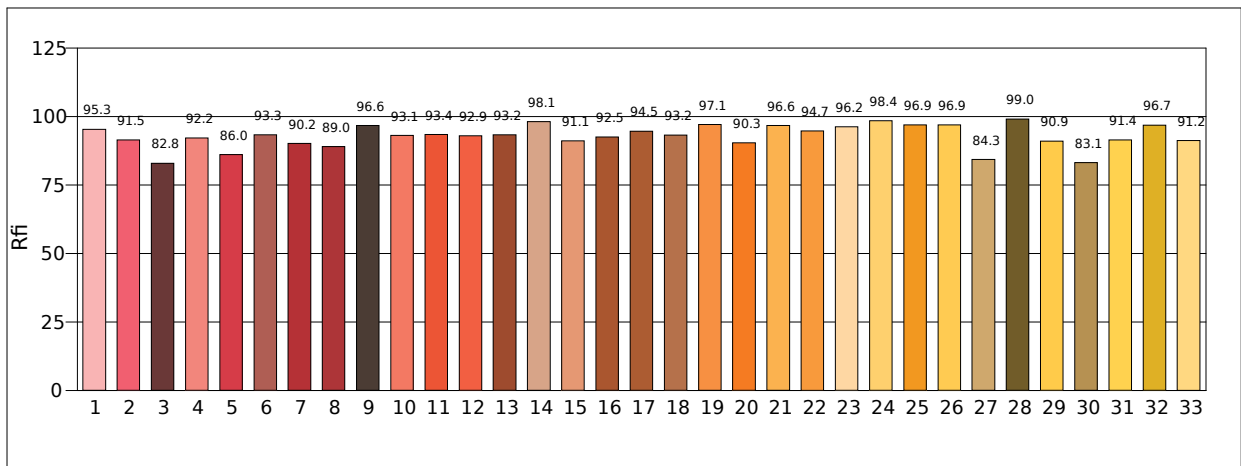
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark :



LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 RGB

Manufacturer : -

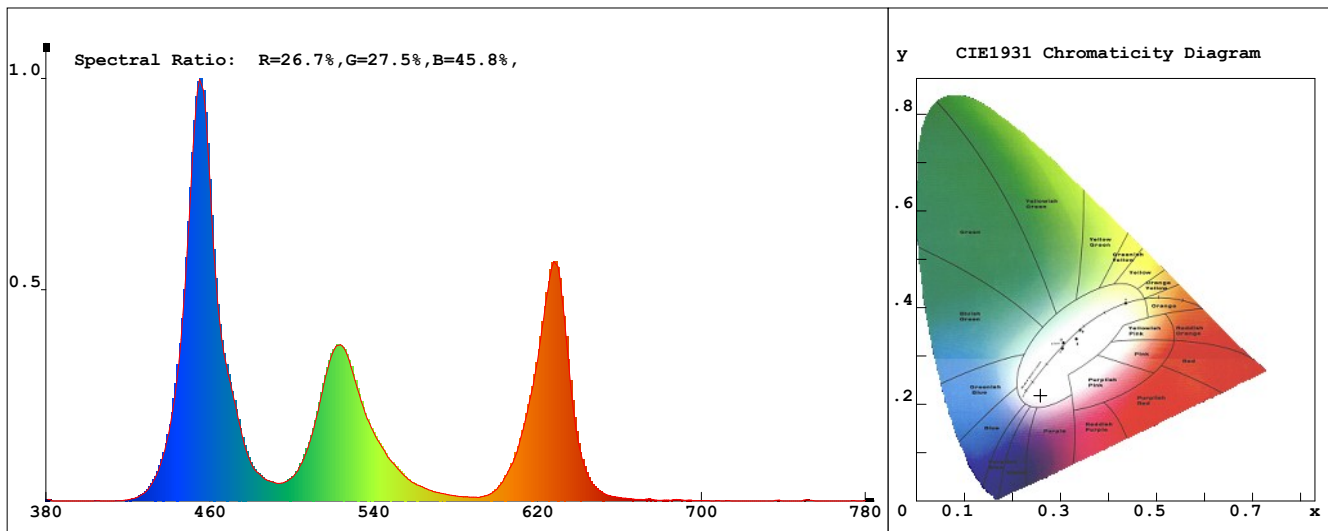
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark:



Chroma Parameters

Chro.Coord.:x=0.2585 y=0.2181 u=0.2027 v=0.2566 duv=-0.0237

CCT:100000K Dominant Wave.:462.8nm Purity:38.6% Centre Wave:454.6nm

Flux RGB Ratio:R=26.7%,G=65.2%,B=8.1% Peak Wave:454.8nm Half Width:15.5nm

Rendering Index:Ra= 34.5 CRI= 78.5

R1 =6 R2 =62 R3 =58 R4 =11 R5 =33 R6 =61 R7 =61 R8 =-17

R9 =-258 R10=28 R11=-13 R12=60 R13=18 R14=68 R15=-16

PPF:8.257umol/s (400-700nm)

PRF:1.9mW (400-700nm)

PAR:1.5mW (400-700nm)

Photo Parameters

Flux:434.82lm Effi.:42.3lm/W Radiant:1897.8mW Iv:0.0mcd

Scotopic Flux:1566.6Plm Effi.:0.0Plm/W S/P:3.6

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:8274.300umol/s (380-780nm)

Ele. Parameters

Forward Current:If=431.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.83V

Reverse Current:Ir=0.00uA

Power:P=10.270W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 64.902ms

VPeak: 13208

VDark: 1267

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 RGB

Manufacturer : -

Temperature : 'C

Humidity : -%

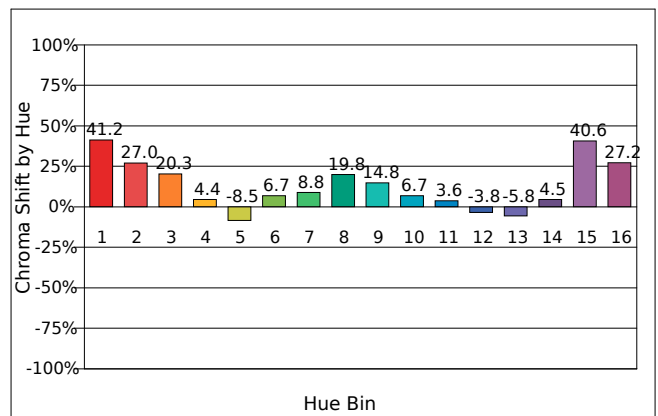
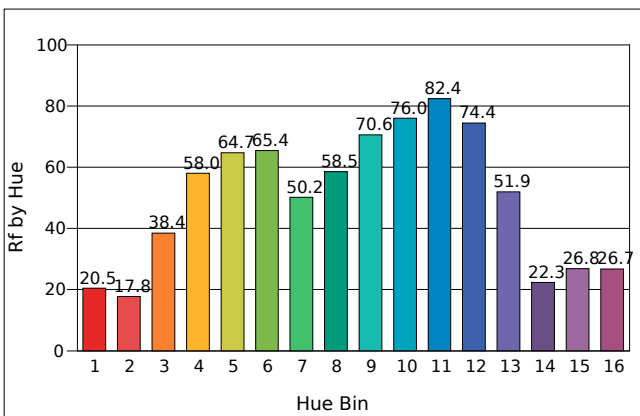
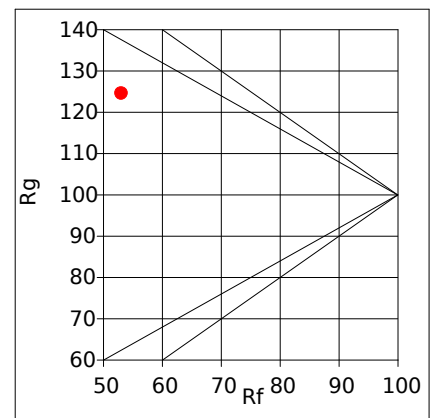
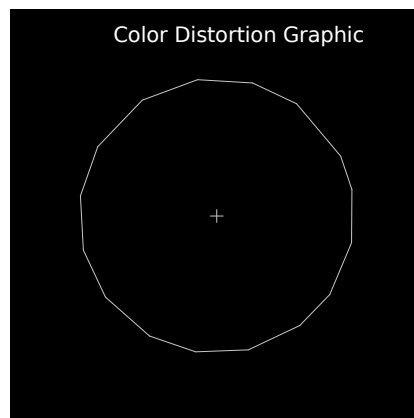
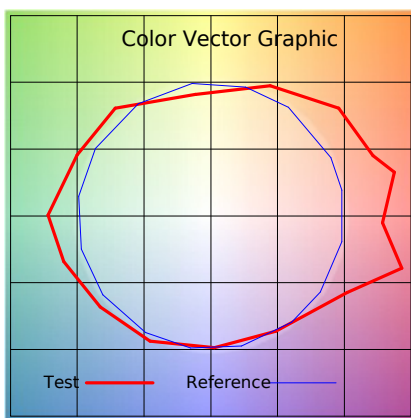
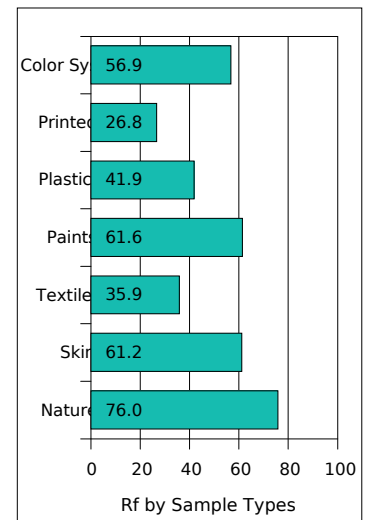
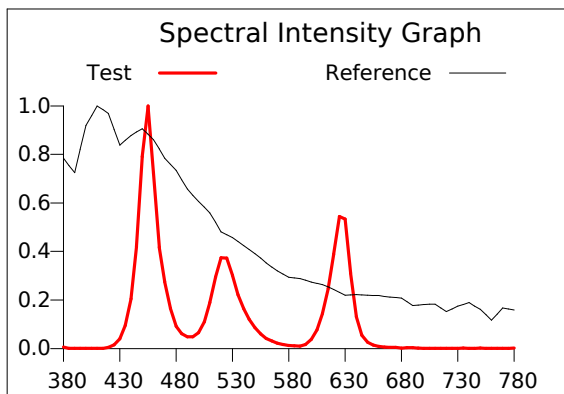
Operator : -

Test Date : 2025-02-12

Remark :

Rf: 53.0 CCT(K): 100000u': 0.2027
 Rg: 124.6 LER: 216.7 Duv: -0.0237 v': 0.2566

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	20.5	41.2%	5.5%
2	17.8	27.0%	-15.9%
3	38.4	20.3%	-31.7%
4	58.0	4.4%	-18.0%
5	64.7	-8.5%	-1.0%
6	65.4	6.7%	16.3%
7	50.2	8.8%	11.5%
8	58.5	19.8%	18.2%
9	70.6	14.8%	6.5%
10	76.0	6.7%	6.4%
11	82.4	3.6%	6.4%
12	74.4	-3.8%	17.6%
13	51.9	-5.8%	27.4%
14	22.3	4.5%	46.9%
15	26.8	40.6%	48.4%
16	26.7	27.2%	20.0%



IES TM-30-2015 Test Report

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Product Type : ORRGBCCT-F52-8400R2 RGB

Manufacturer : -

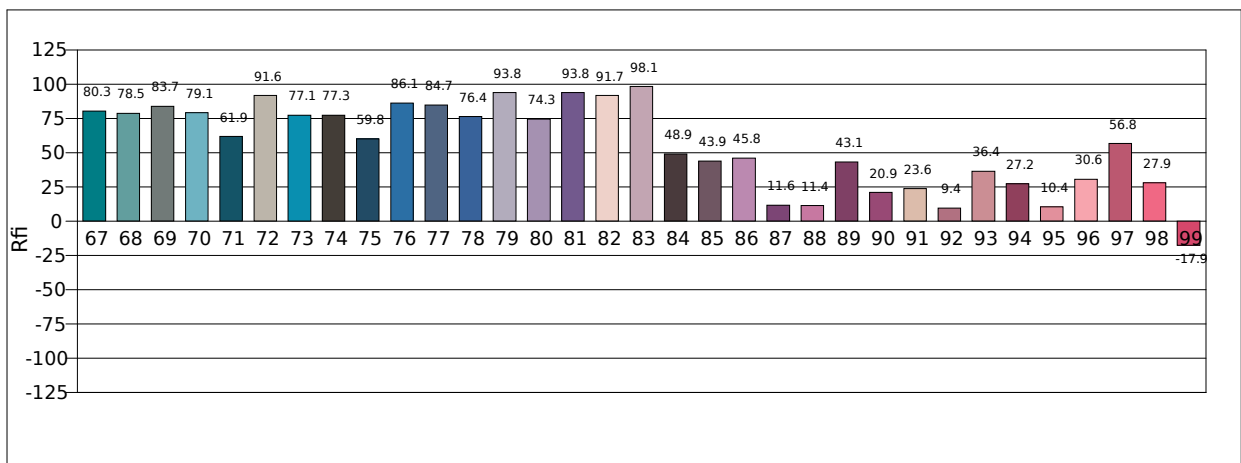
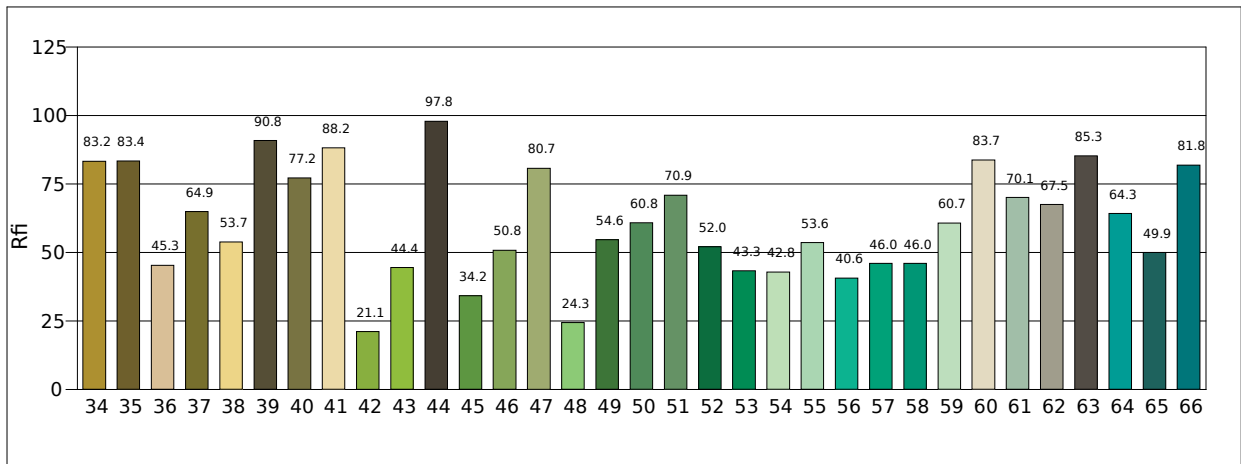
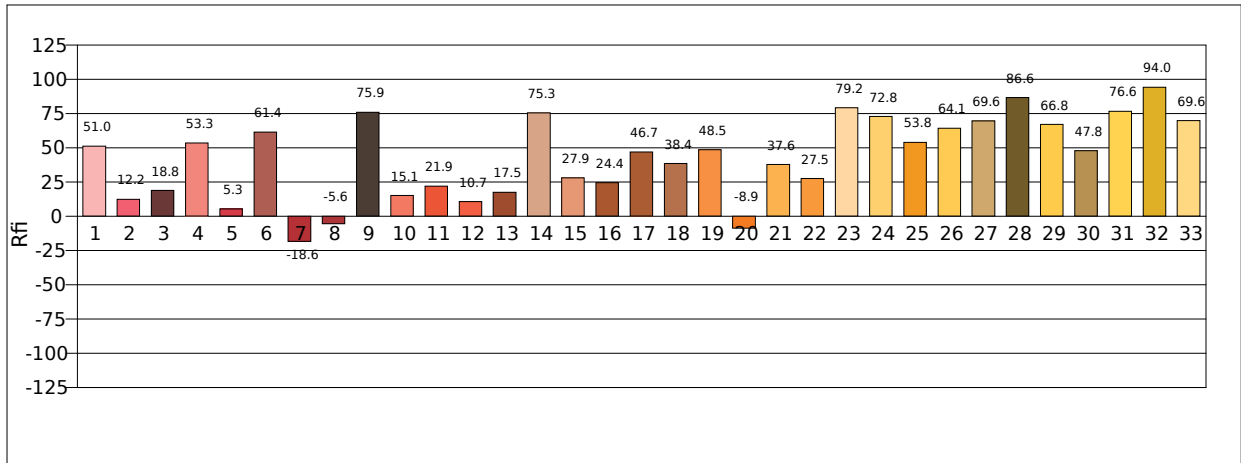
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark :



LED Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 G

Manufacturer : -

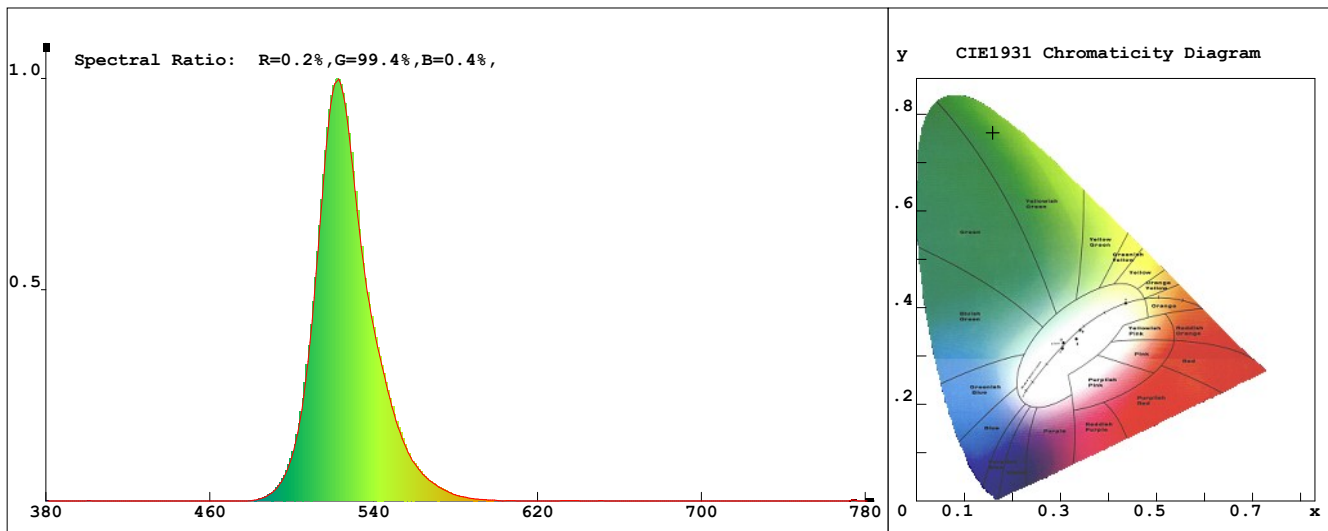
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark:



Chroma Parameters

Chro.Coord.:x=0.1591 y=0.7619 u=0.0538 v=0.3866 duv=0.1645

CCT: 7810K Dominant Wave.:527.8nm Purity:88.9% Centre Wave:523.0nm

Flux RGB Ratio:R=0.1%,G=99.9%,B=0.1% Peak Wave:521.6nm Half Width:25.1nm

Rendering Index:Ra=-37.4 CRI=112.8

R1 =-41 R2 =-23 R3 =-49 R4 =-79 R5 =-15 R6 =-30 R7 =-22 R8 =-40

R9 =-370 R10=-140 R11=-112 R12=-56 R13=-50 R14=25 R15=-37

PPF:2.167umol/s (400-700nm)

PRF:0.5mW (400-700nm)

PAR:0.4mW (400-700nm)

Photo Parameters

Flux:285.72lm Effi.:115.3lm/W Radiant:492.9mW Iv:0.0mcd

Scotopic Flux:774.2Plm Effi.:0.0Plm/W S/P:2.7

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:2169.330umol/s (380-780nm)

Ele. Parameters

Forward Current:If=104.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.83V

Reverse Current:Ir=0.00uA

Power:P=2.491W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 165.322ms

VPeak: 14552

VDark: 1266

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 G

Manufacturer : -

Temperature : 'C

Humidity : -%

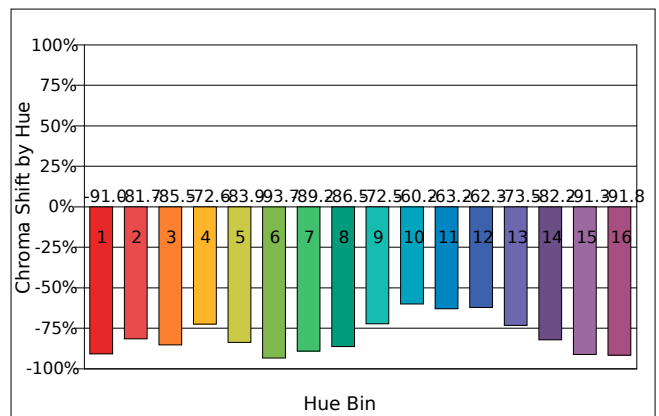
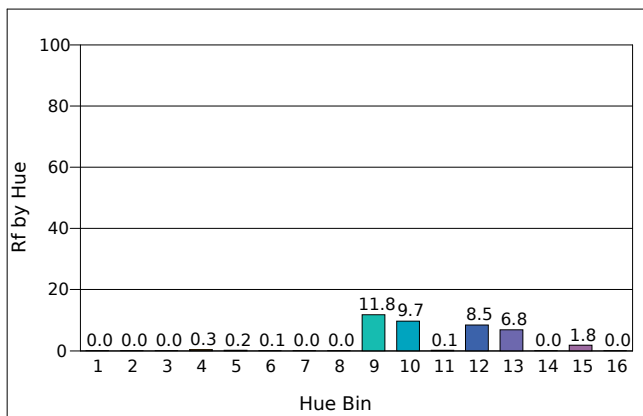
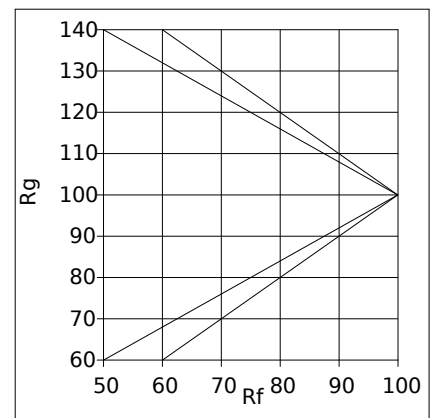
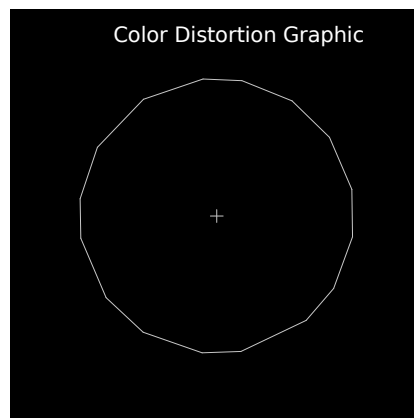
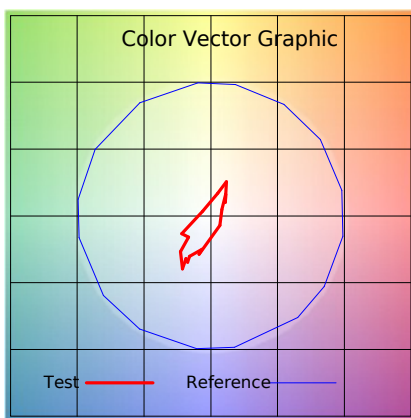
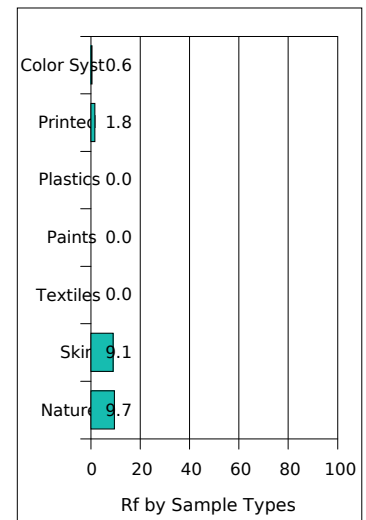
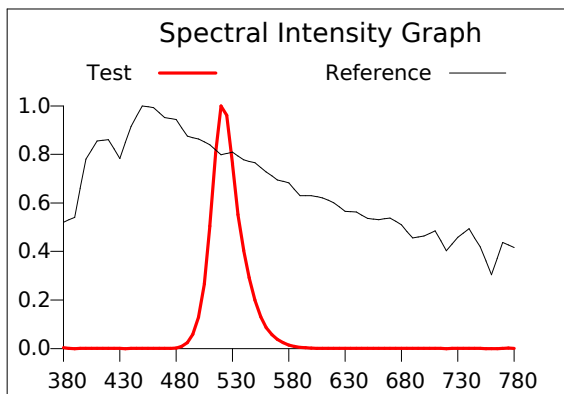
Operator : -

Test Date : 2025-02-12

Remark :

Rf: 0.1 CCT(K): 7810 u': 0.0538
 Rg: 2.4 LER: 514.3 Duv: 0.1645 v': 0.3866

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-91.0%	3.3%
2	0.0	-81.7%	5.2%
3	0.0	-85.5%	-4.2%
4	0.3	-72.6%	-7.6%
5	0.2	-83.9%	1.5%
6	0.1	-93.7%	6.0%
7	0.0	-89.2%	16.4%
8	0.0	-86.5%	11.7%
9	11.8	-72.5%	25.3%
10	9.7	-60.2%	16.4%
11	0.1	-63.2%	-0.4%
12	8.5	-62.3%	-19.2%
13	6.8	-73.5%	-19.6%
14	0.0	-82.2%	-31.2%
15	1.8	-91.3%	-31.9%
16	0.0	-91.8%	-9.9%



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Product Mark

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Manufacturer : -

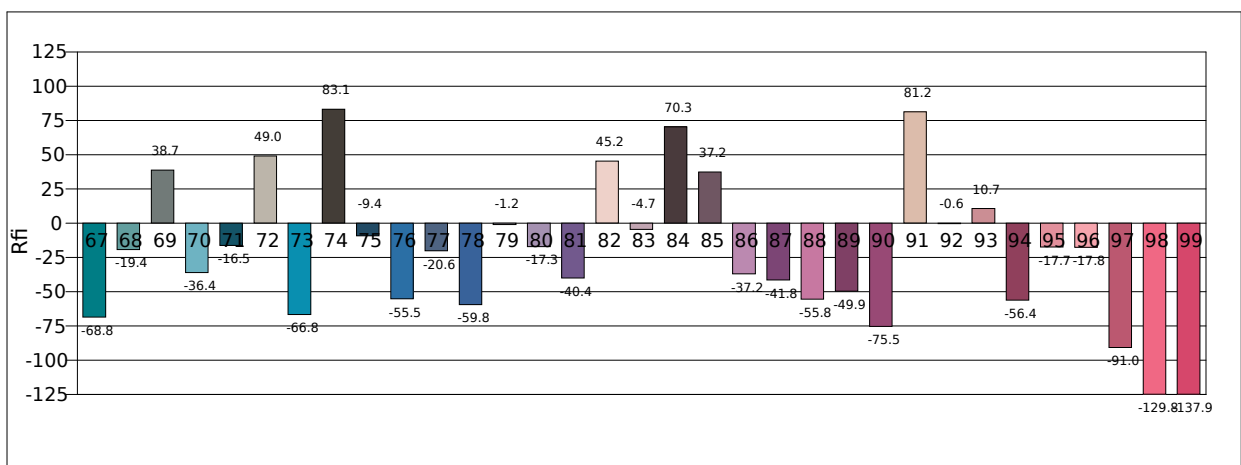
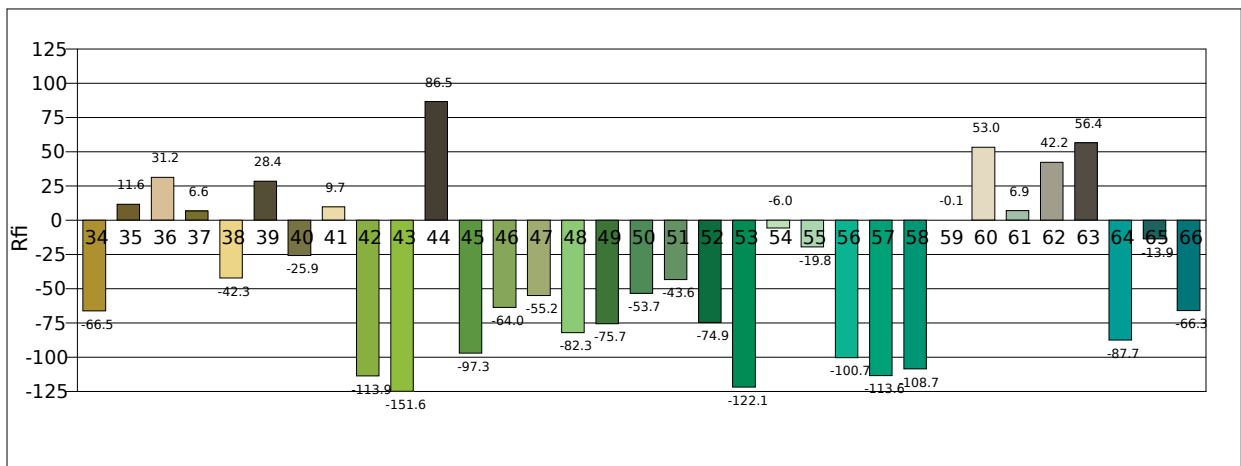
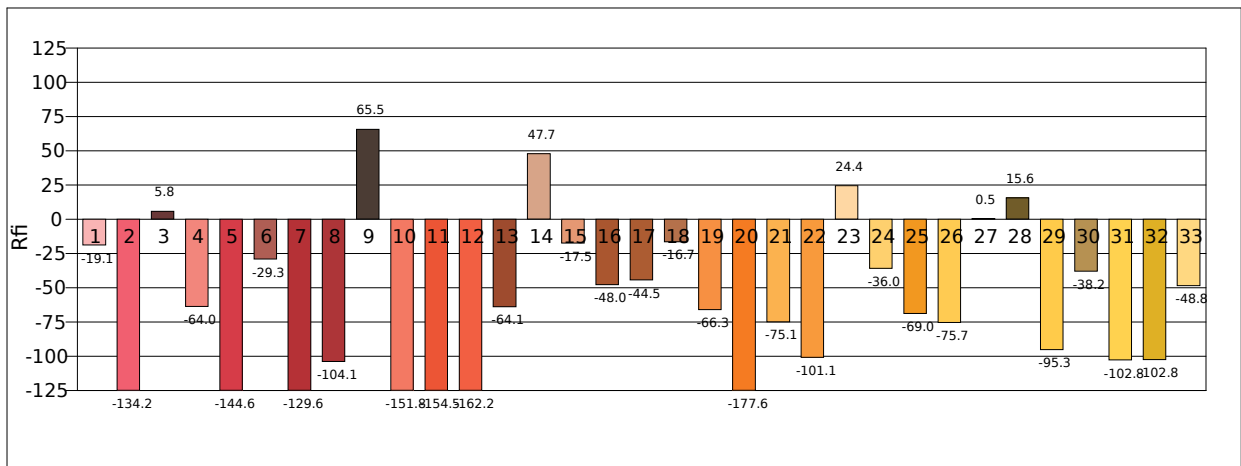
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark :



LED Test Report

Product Mark

Product Type : ORRGCCT-F52-8400R2 R

Manufacturer : -

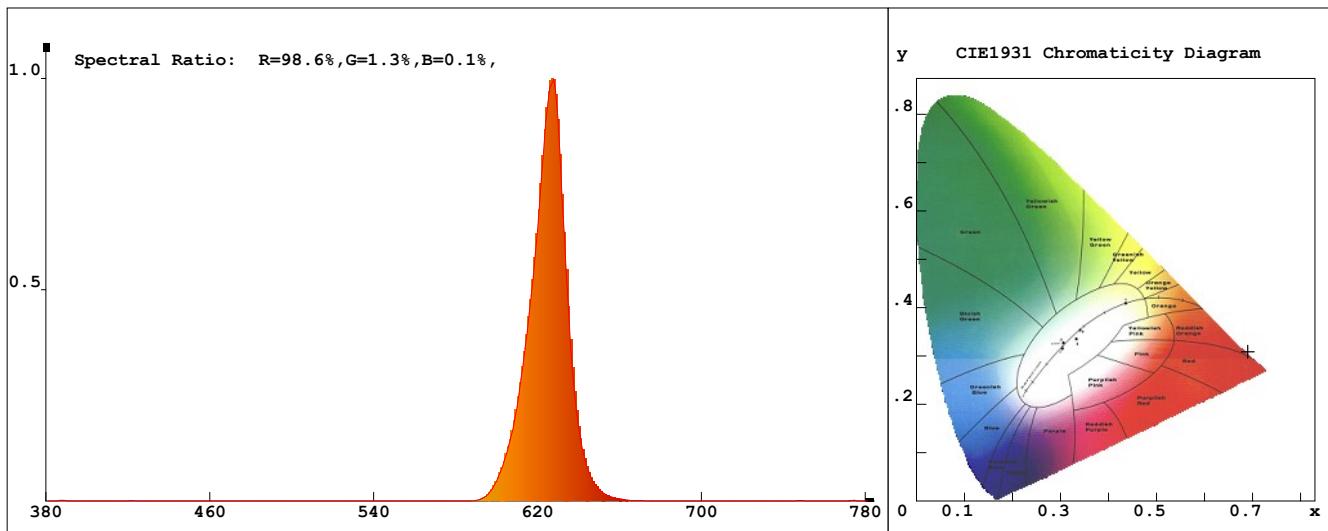
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark:



Chroma Parameters

Chro.Coord.:x=0.6904 y=0.3088 u=0.5186 v=0.3480 duv=-0.0007

CCT: 1311K Dominant Wave.:619.8nm Purity:99.8% Centre Wave:624.9nm

Flux RGB Ratio:R=97.5%,G=2.5%,B=0.0% Peak Wave:626.5nm Half Width:17.2nm

Rendering Index:Ra=-20.3 CRI=104.9

R1 =-48 R2 =52 R3 =11 R4 =-72 R5 =-36 R6 =62 R7 =-15 R8 =-116

R9 =-343 R10=38 R11=-84 R12=29 R13=-22 R14=41 R15=-85

PPF:2.592umol/s (400-700nm)

PRF:0.5mW (400-700nm)

PAR:0.5mW (400-700nm)

Photo Parameters

Flux:111.34lm Effi.:22.8lm/W Radiant:497.5mW Iv:0.0mcd

Scotopic Flux:6.0Plm Effi.:0.0Plm/W S/P:0.1

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:2594.930umol/s (380-780nm)

Ele. Parameters

Forward Current:If=205.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.83V

Reverse Current:Ir=0.00uA

Power:P=4.901W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 132.257ms

VPeak: 14248

VDark: 1400

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCT-F52-8400R2 R

Manufacturer : -

Temperature : 'C

Humidity : -%

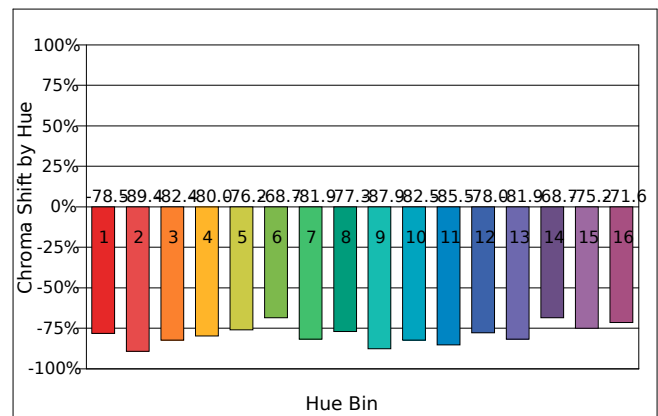
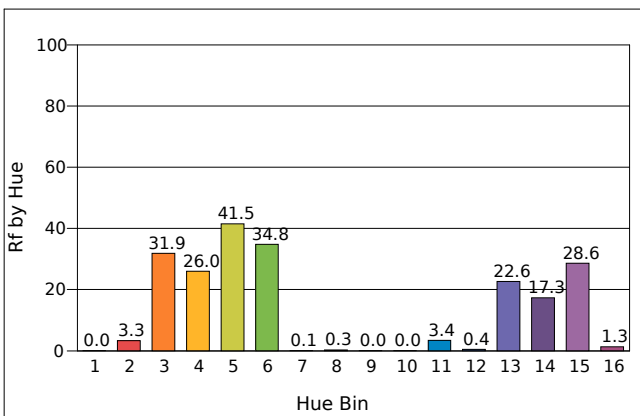
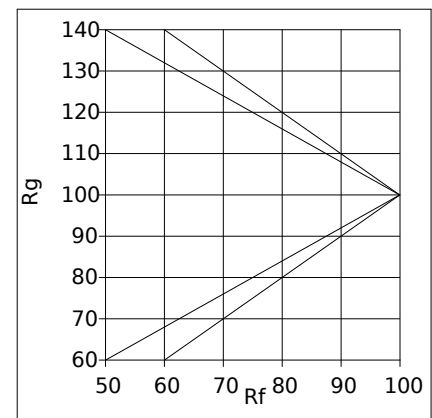
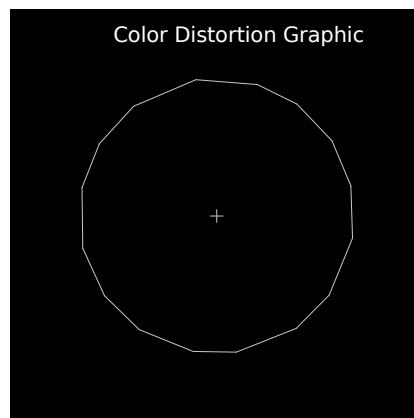
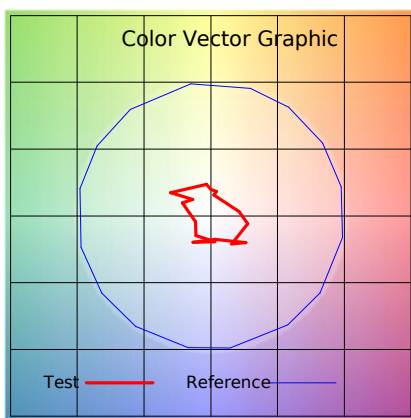
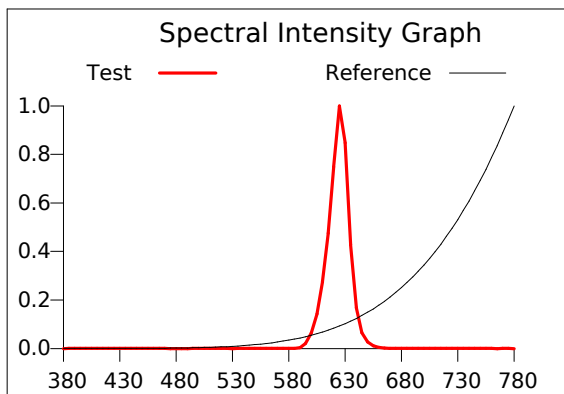
Operator : -

Test Date : 2025-02-12

Remark :

Rf: 1.0 CCT(K): 1311 u': 0.5186
 Rg: 3.8 LER: 230.9 Duv: -0.0007 v': 0.3480

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-78.5%	-3.2%
2	3.3	-89.4%	13.0%
3	31.9	-82.4%	10.0%
4	26.0	-80.0%	14.1%
5	41.5	-76.2%	3.1%
6	34.8	-68.7%	9.4%
7	0.1	-81.9%	-6.4%
8	0.3	-77.3%	-4.3%
9	0.0	-87.9%	-1.9%
10	0.0	-82.5%	3.0%
11	3.4	-85.5%	13.9%
12	0.4	-78.0%	-11.8%
13	22.6	-81.9%	4.8%
14	17.3	-68.7%	8.0%
15	28.6	-75.2%	-6.4%
16	1.3	-71.6%	-3.6%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 R

Manufacturer : -

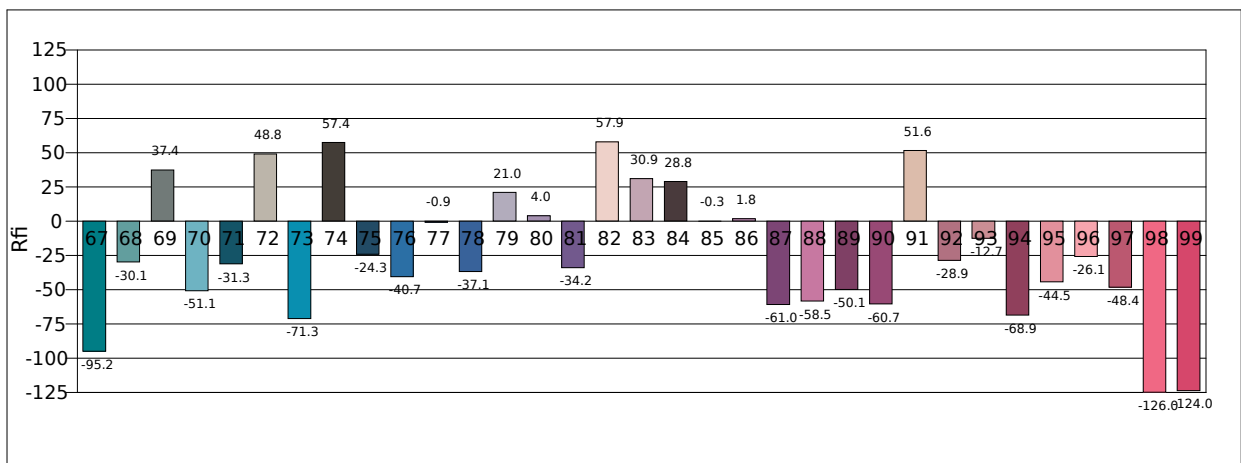
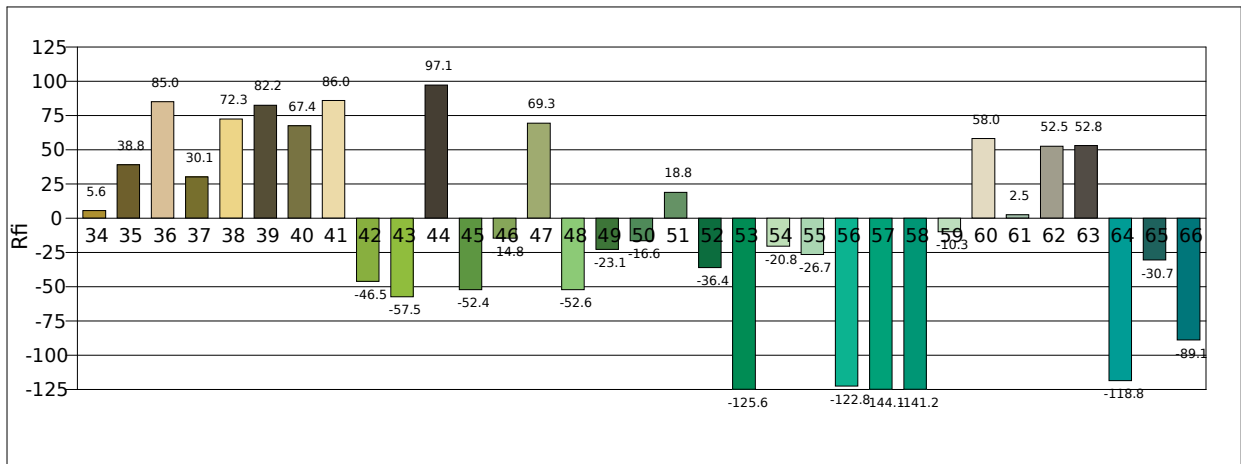
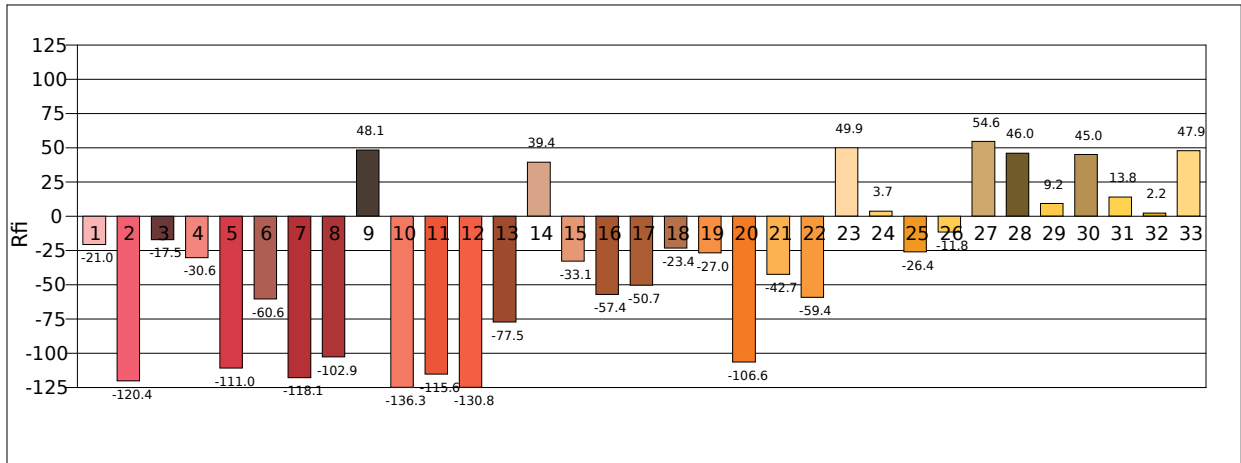
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark :



LED Test Report

Product Mark

Product Type : ORRGCCT-F52-8400R2 B

Manufacturer : -

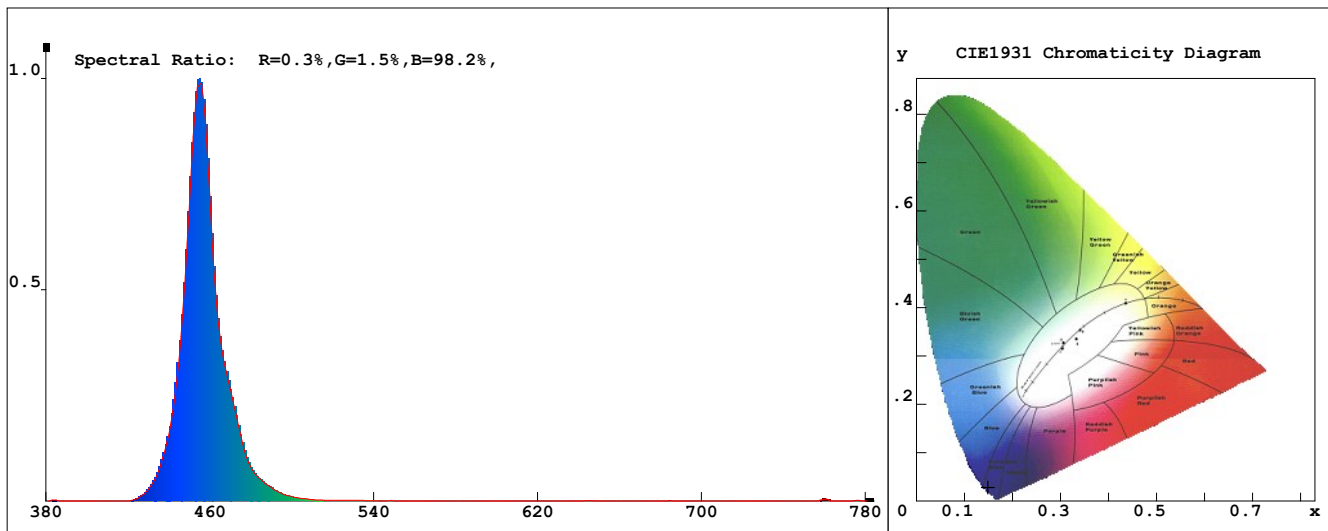
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark:



Chroma Parameters

Chro.Coord.: $x=0.1488$ $y=0.0283$ $u=0.1956$ $v=0.0558$ $duv=-0.0666$

CCT:100000K Dominant Wave.:457.6nm Purity:99.3% Centre Wave:454.2nm

Flux RGB Ratio:R=0.4%,G=10.7%,B=88.9% Peak Wave:454.0nm Half Width:15.5nm

Rendering Index:Ra=-72.4 CRI=127.9

R1 =19 R2 =-43 R3 =-161 R4 =-117 R5 =-47 R6 =-109 R7 =-81 R8 =-40

R9 =-261 R10=-252 R11=-145 R12=-161 R13=1 R14=-37 R15=34

PPF:3.536 $\mu\text{mol/s}$ (400-700nm)

PRF:0.9mW (400-700nm)

PAR:0.7mW (400-700nm)

Photo Parameters

Flux:52.28lm Effi.:18.6lm/W Radiant:927.9mW Iv:0.0mcd

Scotopic Flux:1120.3Plm Effi.:0.0Plm/W S/P:21.4

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:3548.510 $\mu\text{mol/s}$ (380-780nm)

Ele. Parameters

Forward Current:If=118.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.83V

Reverse Current:Ir=0.00uA

Power:P=2.821W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 60.292ms

VPeak: 13368

VDark: 1336

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGBCCT-F52-8400R2 B

Manufacturer : -

Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-02-12

Remark :

