

LED Test Report

Product Mark

Product Type : ORR400-F52-060512 White

Manufacturer : -

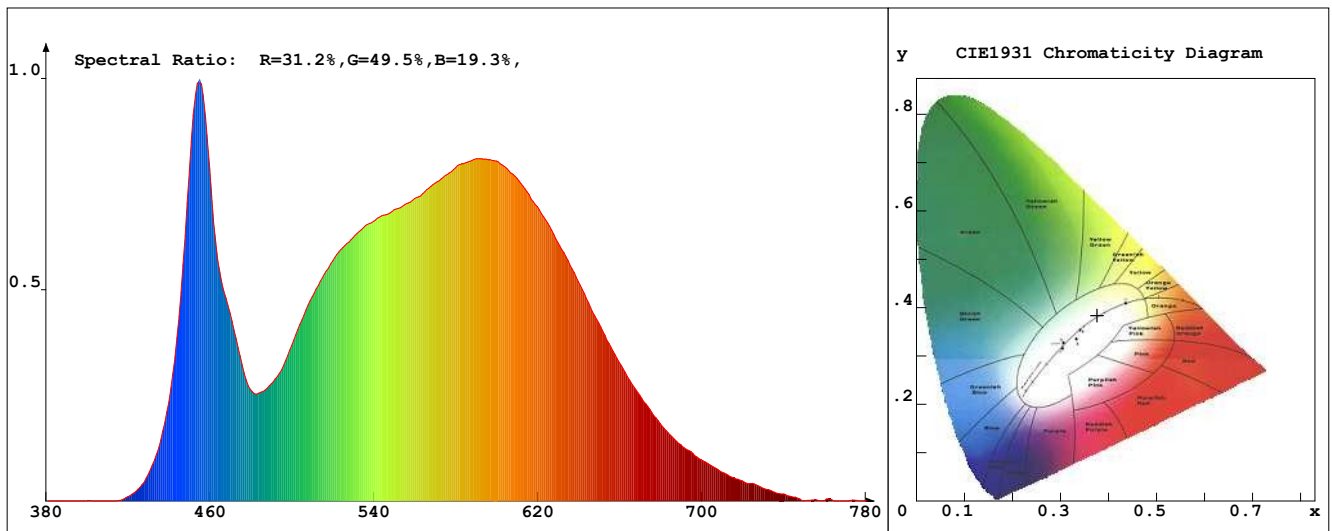
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark:



Chroma Parameters

Chro.Coord.: $x=0.3765$ $y=0.3837$ $u=0.2198$ $v=0.3360$ $duv=0.0044$

CCT: 4155K Dominant Wave.: 576.2nm Purity: 28.2% Centre Wave: 455.4nm

Flux RGB Ratio: $R=16.8\%$, $G=80.6\%$, $B=2.6\%$ Peak Wave: 453.8nm Half Width: 20.7nm

Rendering Index: $R_a=81.9$ CRI= 77.5

 $R_1=80$ $R_2=89$ $R_3=95$ $R_4=80$ $R_5=79$ $R_6=82$ $R_7=86$ $R_8=64$ $R_9=5$ $R_{10}=73$ $R_{11}=78$ $R_{12}=53$ $R_{13}=83$ $R_{14}=98$ $R_{15}=74$ PPF: 4.594 $\mu\text{mol/s}$ (400-700nm)

PRF: 1.0mW (400-700nm)

PAR: 0.8mW (400-700nm)

Photo Parameters

Flux: 361.01lm Effi.: 99.0lm/W Radiant: 997.5mW Iv: 0.0mcd

Scotopic Flux: 624.6Plm Effi.: 0.0Plm/W S/P: 1.7

Efficiency: 0.00

Effi Level: A++ (EU 874-2012) Photon Flux: 4679.770 $\mu\text{mol/s}$ (380-780nm)

Ele. Parameters

Forward Current: $I_f=152.0\text{mA}$ 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: $P=3.651\text{W}$

Instrument state

Instrument: Lisun LMS-8000

Integral Time: 425.304ms

VPeak: 13544

VDark: 1428

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-060512 White

Manufacturer : -

Temperature : 'C

Humidity : -%

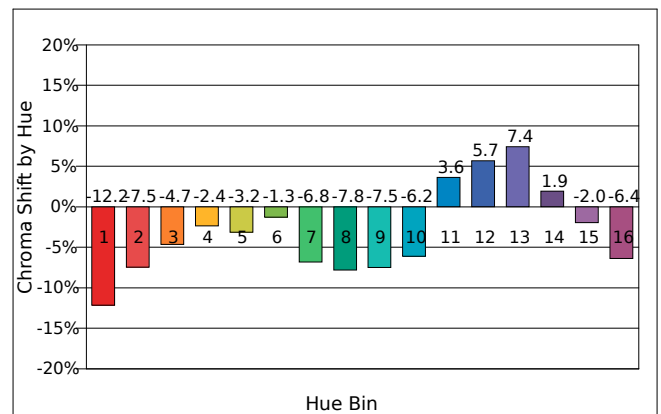
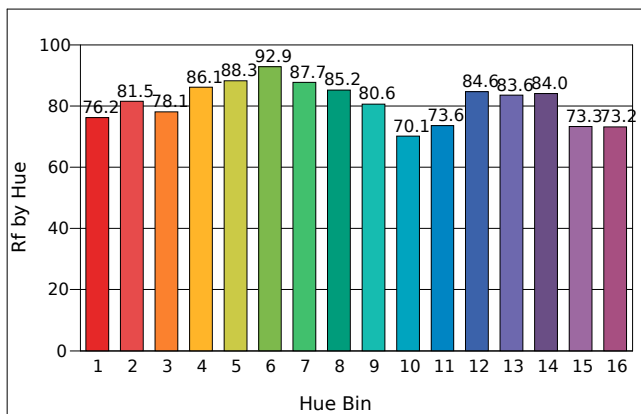
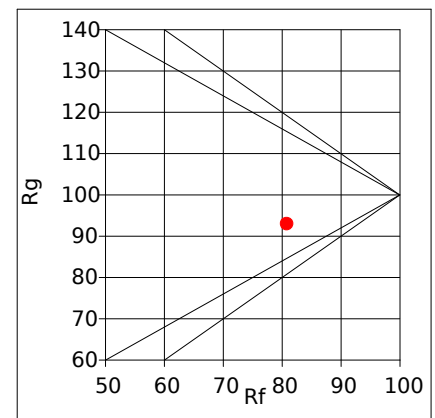
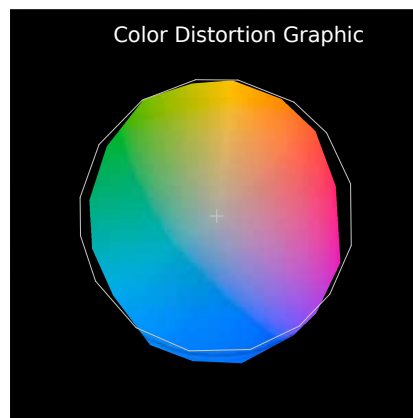
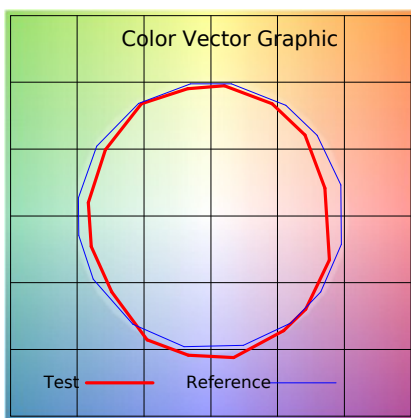
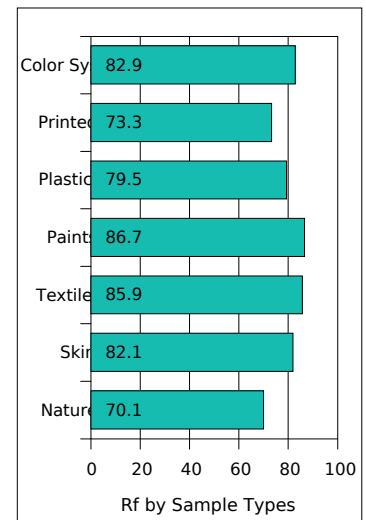
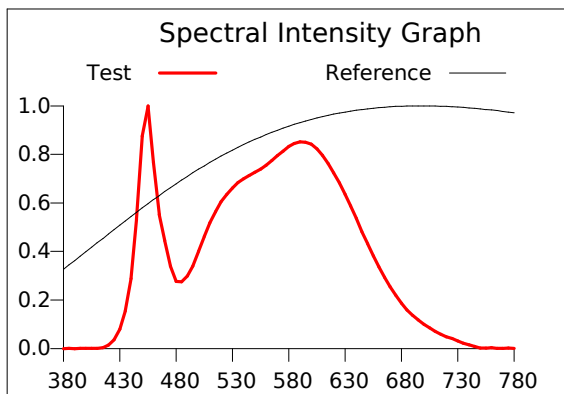
Operator : -

Test Date : 2026-05-20

Remark:

Rf: 80.8 CCT(K): 4155 u': 0.2198
 Rg: 93.0 LER: 337.5 Duv: 0.0044 v': 0.3360

Hue Bin	Graphic Shifts (%)		
	Rf	Chroma	Hue
1	76.2	-12.2%	0.0%
2	81.5	-7.5%	5.2%
3	78.1	-4.7%	9.1%
4	86.1	-2.4%	4.9%
5	88.3	-3.2%	2.6%
6	92.9	-1.3%	-1.6%
7	87.7	-6.8%	-1.5%
8	85.2	-7.8%	1.9%
9	80.6	-7.5%	10.1%
10	70.1	-6.2%	15.6%
11	73.6	3.6%	15.5%
12	84.6	5.7%	4.6%
13	83.6	7.4%	-8.8%
14	84.0	1.9%	-7.7%
15	73.3	-2.0%	-17.1%
16	73.2	-6.4%	-12.9%



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Product Mark

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Manufacturer : -

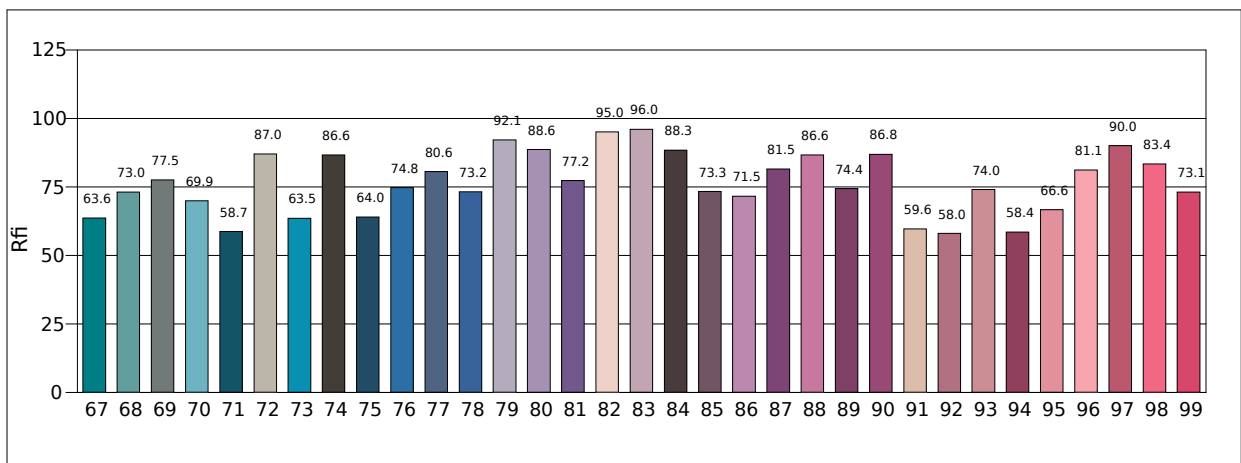
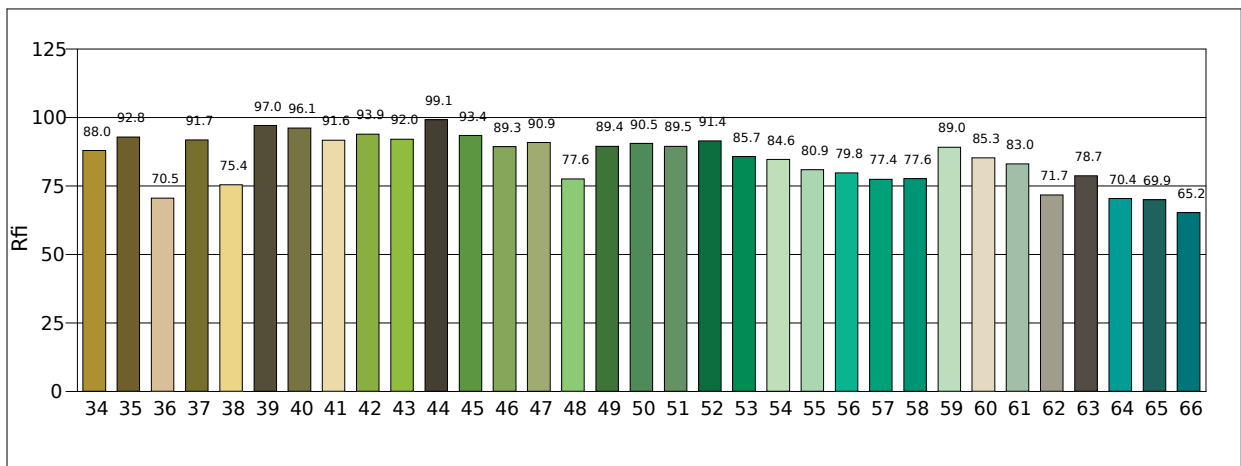
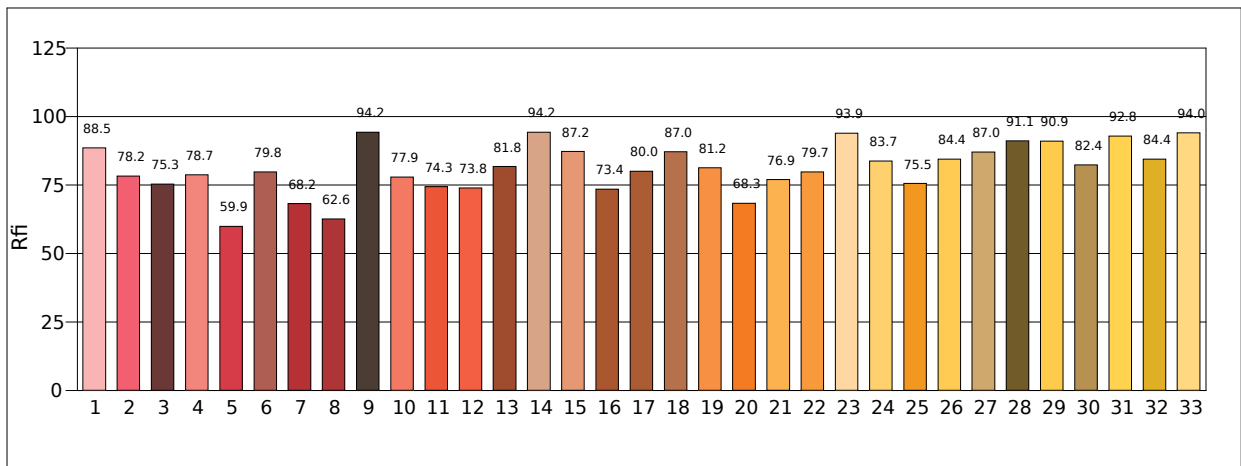
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark:



LED Test Report

Product Mark

Product Type : ORR400-F52-060512 RGB

Manufacturer : -

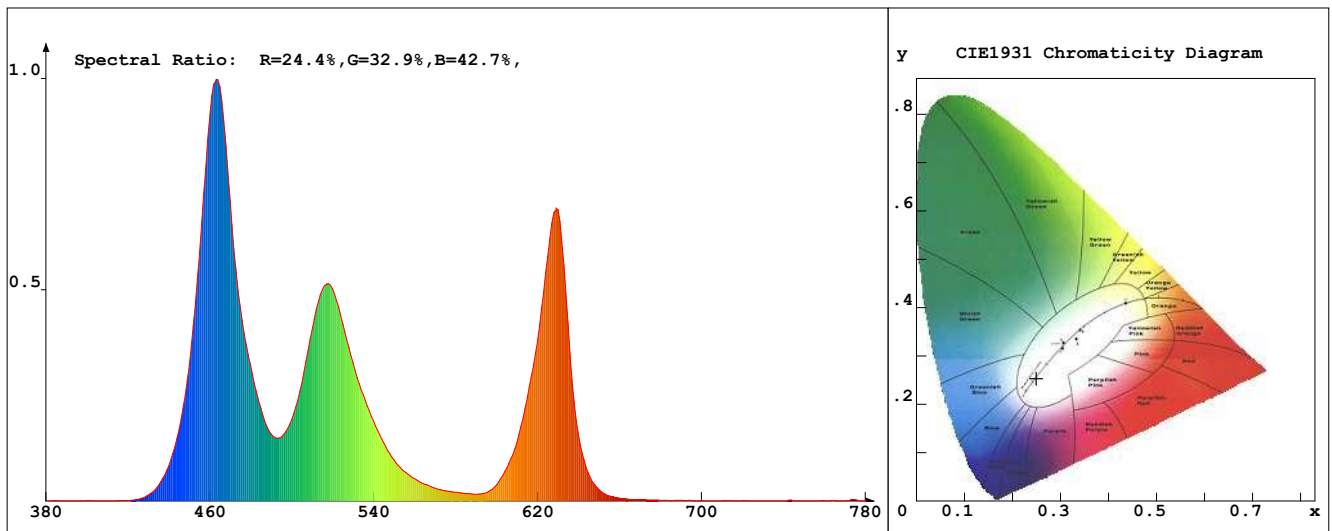
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.2496 y=0.2531 u=0.1803 v=0.2742 duv=0.0025

CCT:26457K Dominant Wave.:477.8nm Purity:35.9% Centre Wave:462.7nm

Flux RGB Ratio:R=23.3%,G=66.8%,B=9.9% Peak Wave:462.7nm Half Width:20.1nm

Rendering Index:Ra= 44.1 CRI= 69.2

R1 =23 R2 =55 R3 =73 R4 =45 R5 =49 R6 =53 R7 =55 R8 =0

R9 =-202 R10=-6 R11=29 R12=61 R13=28 R14=80 R15=7

PPF:8.746umol/s (400-700nm)

PRF:2.0mW (400-700nm)

PAR:1.6mW (400-700nm)

Photo Parameters

Flux:509.07lm Effi.:45.5lm/W Radiant:2003.8mW Iv:0.0mcd

Scotopic Flux:2023.2Plm Effi.:0.0Plm/W S/P:4.0

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:8760.750umol/s (380-780nm)

Ele. Parameters

Forward Current:If=466.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=11.191W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 101.607ms

VPeak: 13704

VDark: 1350

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-060512 RGB

Manufacturer : -

Temperature : 'C

Humidity : -%

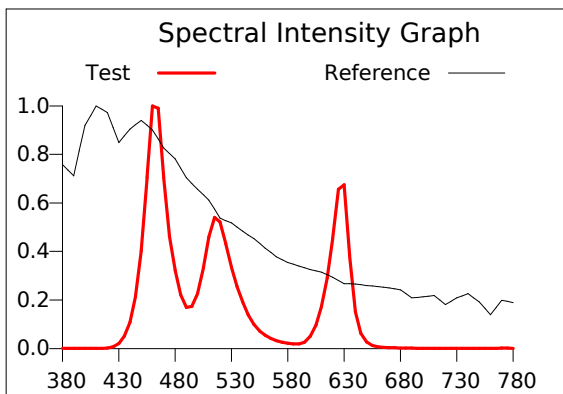
Operator : -

Test Date : 2026-05-20

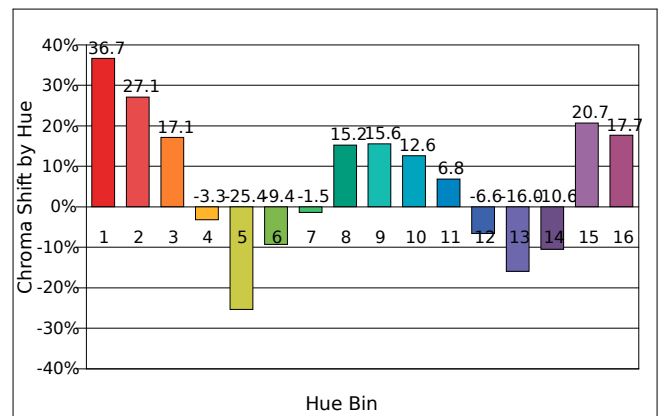
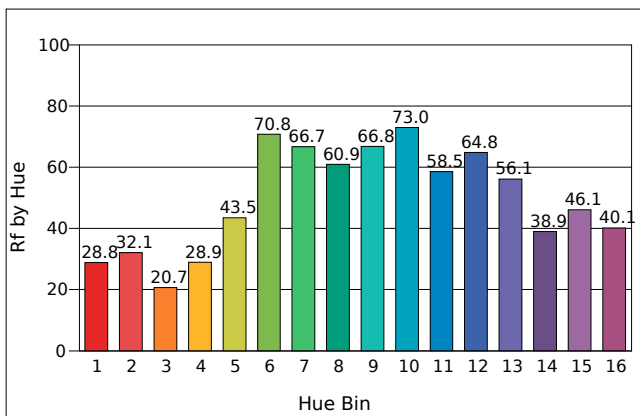
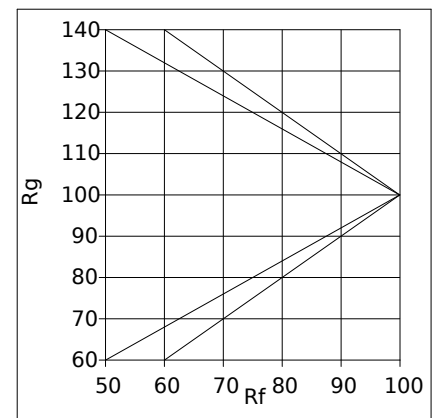
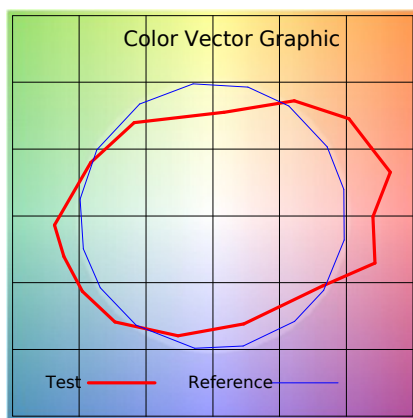
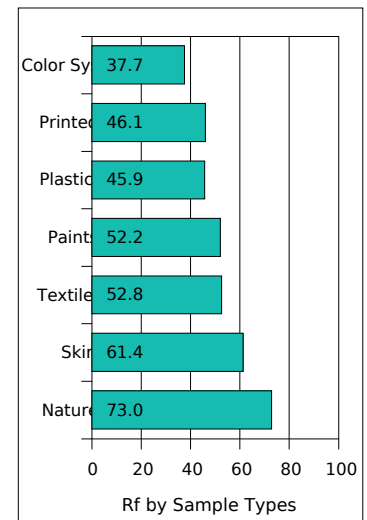
Remark:

Rf: 49.8 CCT(K): 26457 u': 0.1803

Rg: 104.8 LER: 228.1 Duv: 0.0025 v': 0.2742



Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	28.8	36.7%	6.0%
2	32.1	27.1%	-18.8%
3	20.7	17.1%	-42.7%
4	28.9	-3.3%	-36.2%
5	43.5	-25.4%	-18.5%
6	70.8	-9.4%	11.1%
7	66.7	-1.5%	10.5%
8	60.9	15.2%	22.9%
9	66.8	15.6%	2.8%
10	73.0	12.6%	-5.4%
11	58.5	6.8%	-14.5%
12	64.8	-6.6%	-14.0%
13	56.1	-16.0%	3.5%
14	38.9	-10.6%	32.4%
15	46.1	20.7%	38.2%
16	40.1	17.7%	21.5%



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Product Mark

Product Type : ORR400-F52-060512 RGB

Manufacturer : -

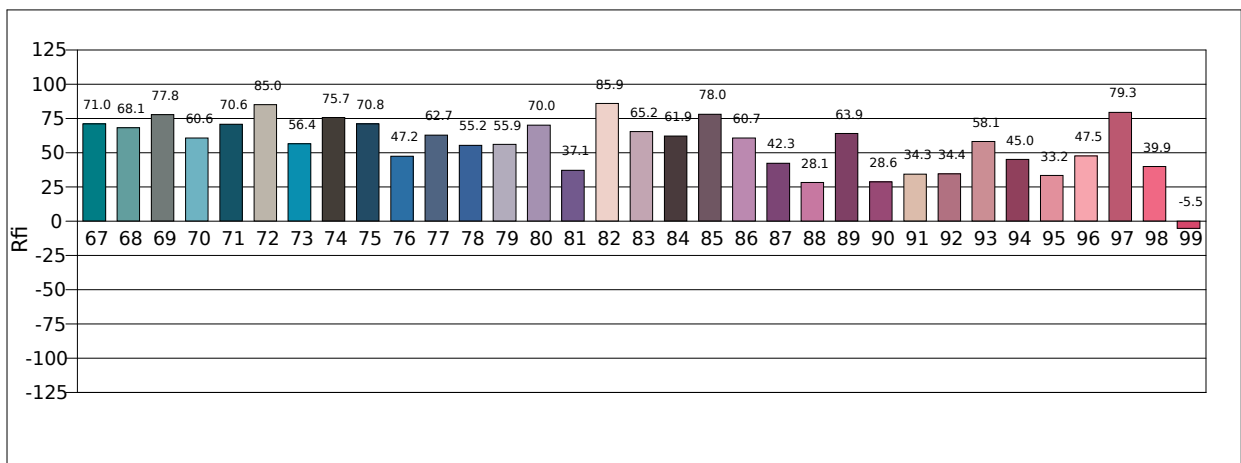
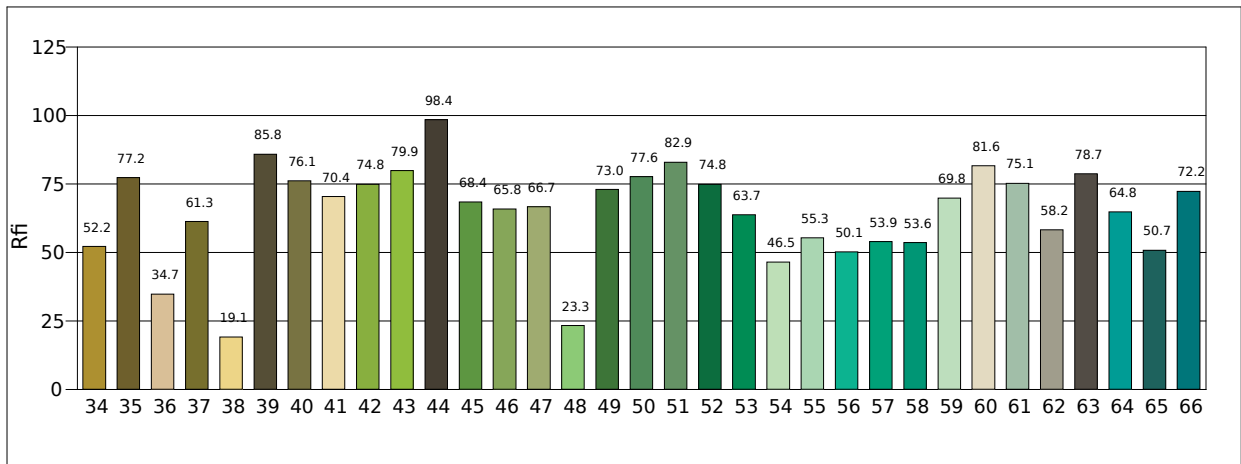
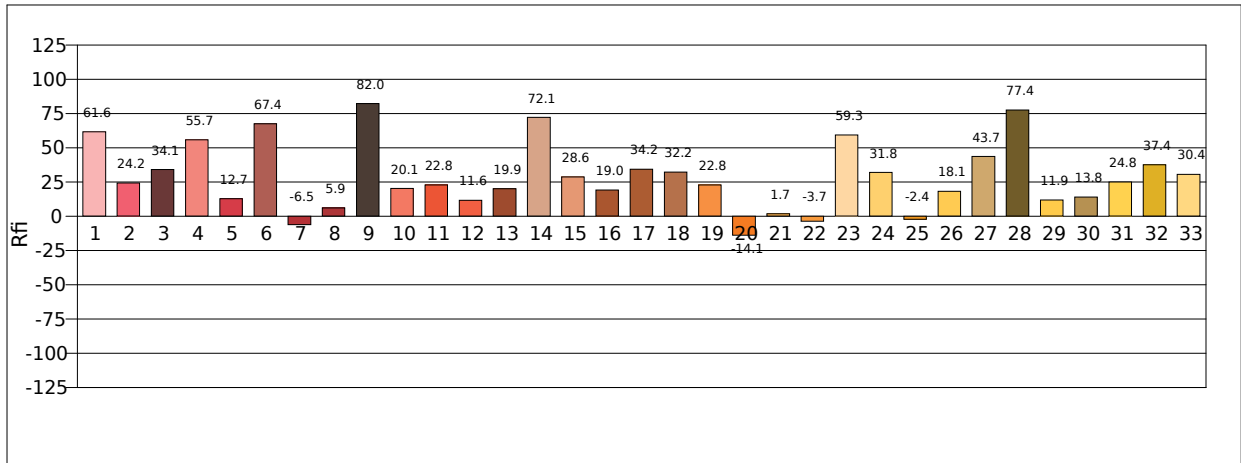
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark :



LED Test Report

Product Mark

Product Type : ORR400-F52-060512 Red

Manufacturer : -

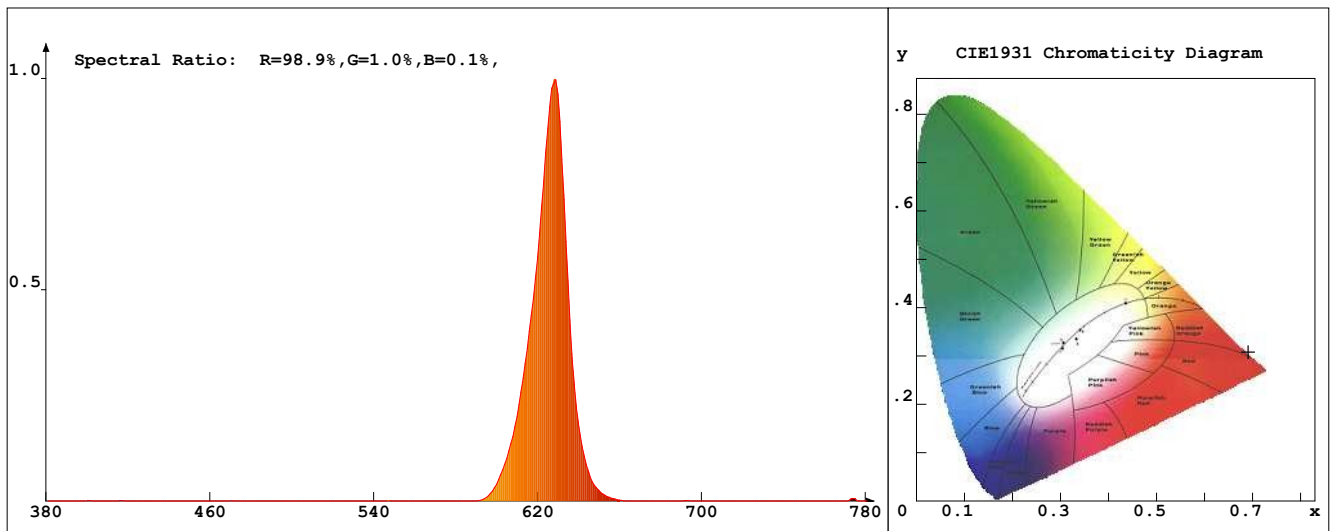
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark:



Chroma Parameters

Chro.Coor.:x=0.6911 y=0.3082 u=0.5201 v=0.3478 duv=-0.0007

CCT: 1317K Dominant Wave.:620.1nm Purity:99.8% Centre Wave:625.7nm

Flux RGB Ratio:R=97.9%,G=2.1%,B=0.0% Peak Wave:627.5nm Half Width:16.8nm

Rendering Index:Ra=-19.4 CRI=102.8

R1 =-37 R2 =61 R3 =3 R4 =-80 R5 =-44 R6 =53 R7 =-5 R8 =-106

R9 =-335 R10=51 R11=-89 R12=28 R13=-8 R14=36 R15=-75

PPF:2.562umol/s (400-700nm)

PRF:0.5mW (400-700nm)

PAR:0.5mW (400-700nm)

Photo Parameters

Flux:113.87lm Effi.:31.0lm/W Radiant:491.5mW 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:2566.440umol/s (380-780nm)

Ele. Parameters

Forward Current:If=153.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=3.701W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 142.284ms

VPeak: 15032

VDark: 1355

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-060512 Red

Manufacturer : -

Temperature : 'C

Humidity : -%

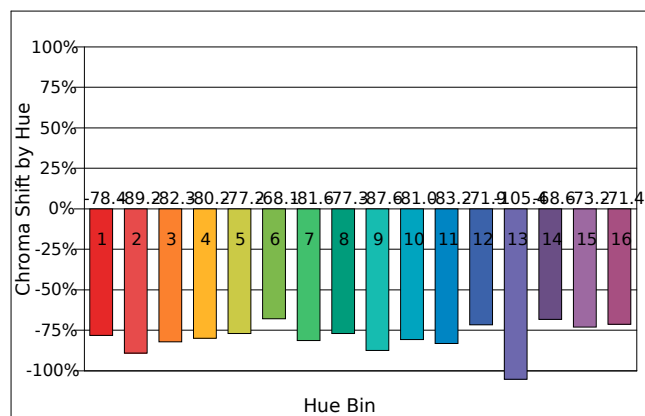
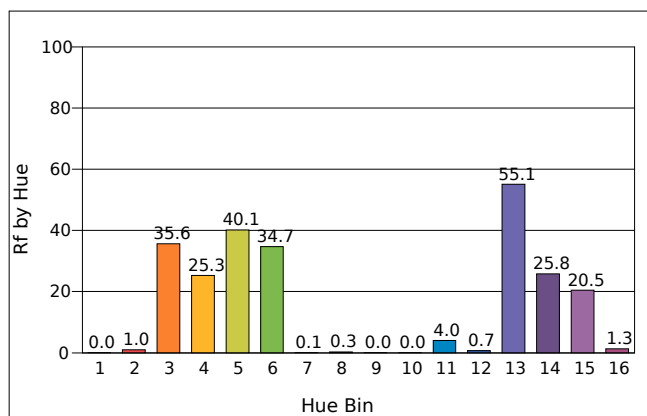
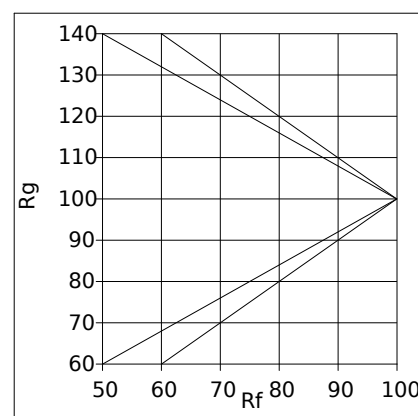
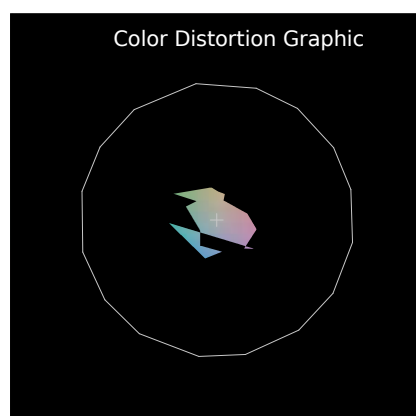
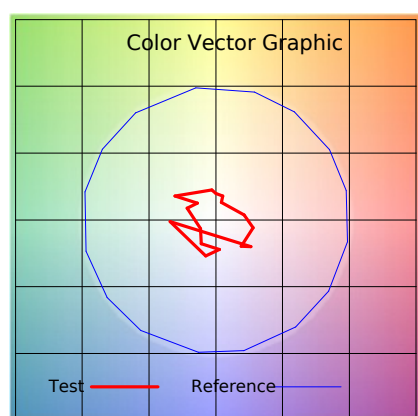
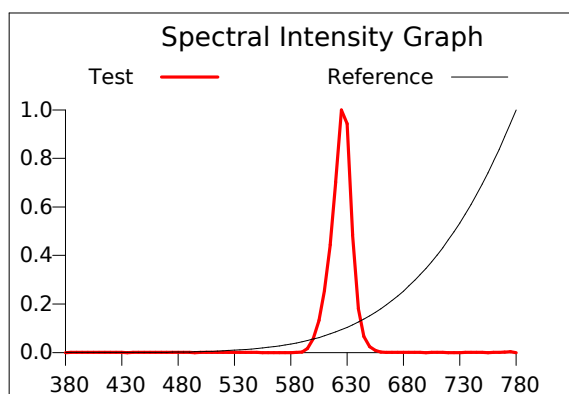
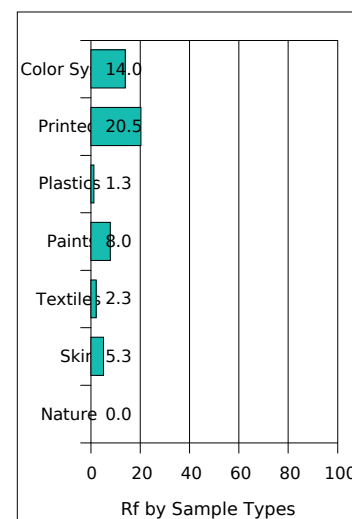
Operator : -

Test Date : 2026-05-20

Remark:

Rf: 1.0 CCT(K): 1317 u': 0.5201
 Rg: 3.4 LER: 226.5 Duv: -0.0007 v': 0.3478

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-78.4%	-3.1%
2	1.0	-89.2%	12.2%
3	35.6	-82.3%	9.5%
4	25.3	-80.2%	13.3%
5	40.1	-77.2%	3.2%
6	34.7	-68.1%	10.1%
7	0.1	-81.6%	-6.0%
8	0.3	-77.3%	-3.0%
9	0.0	-87.6%	0.3%
10	0.0	-81.0%	5.6%
11	4.0	-83.2%	15.3%
12	0.7	-71.9%	-8.7%
13	55.1	-105.4%	-35.1%
14	25.8	-68.6%	5.7%
15	20.5	-73.2%	-8.5%
16	1.3	-71.4%	-3.5%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-060512 Red

Manufacturer : -

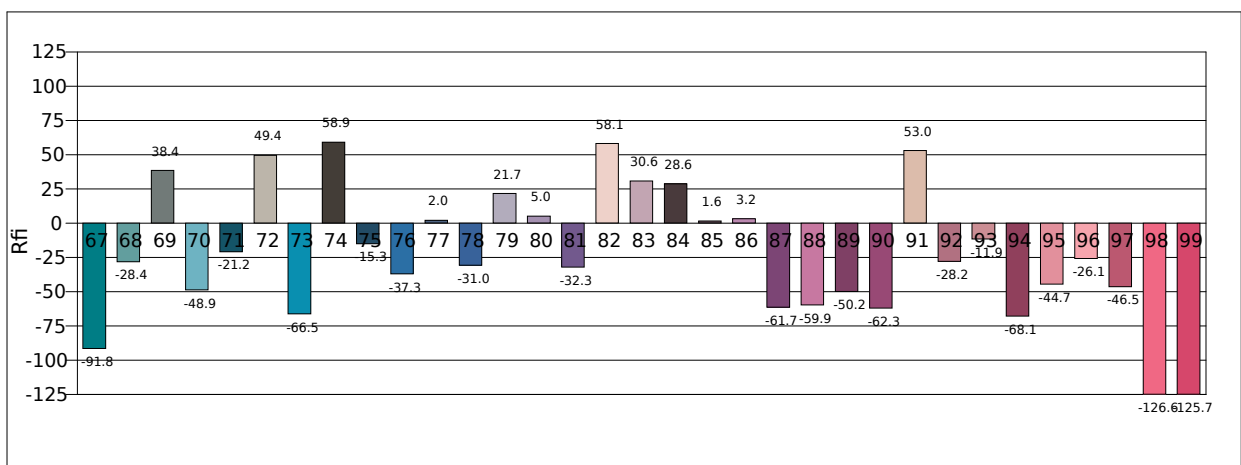
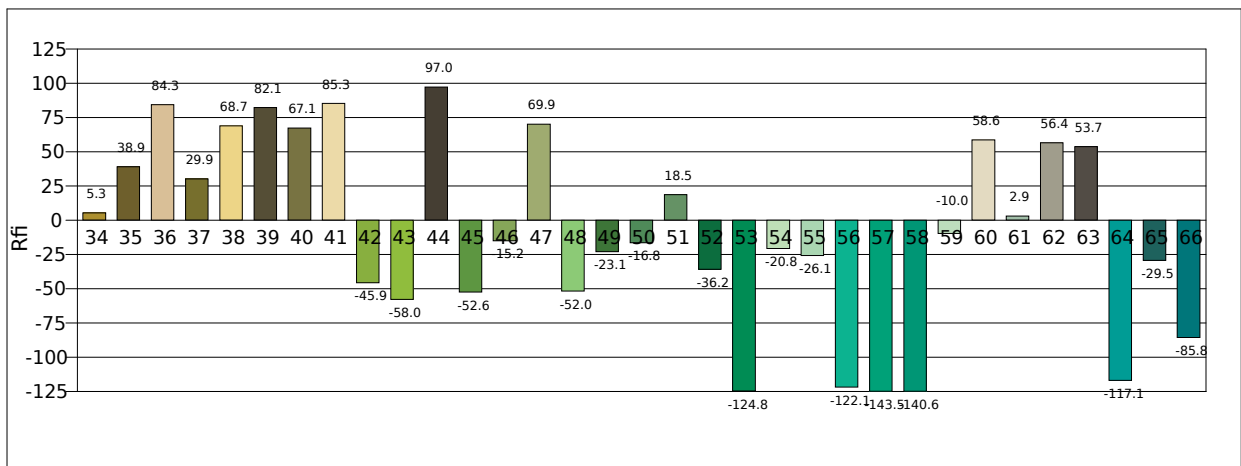
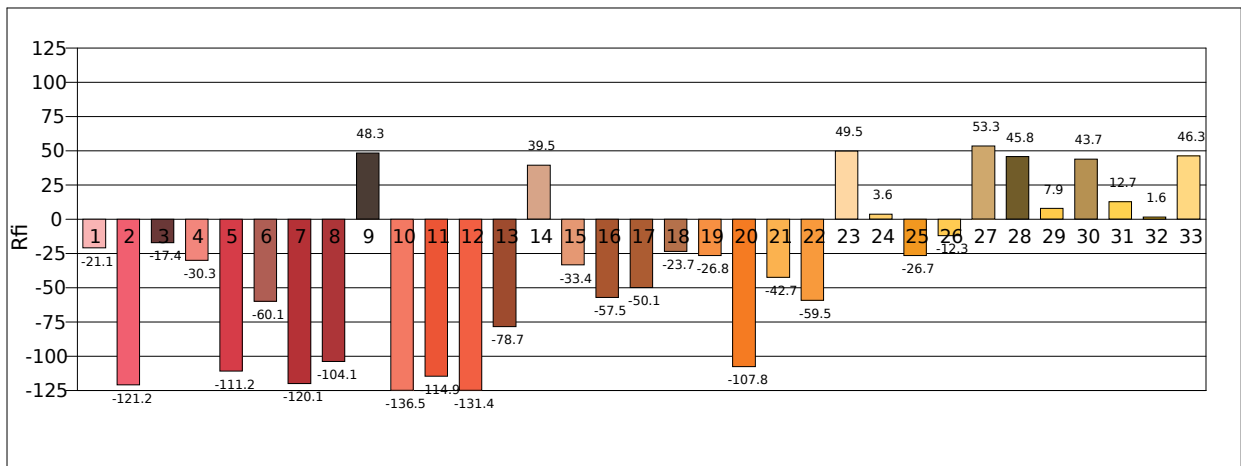
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark :



LED Test Report

Product Mark

Product Type : ORR400-F52-060512 Green

Manufacturer : -

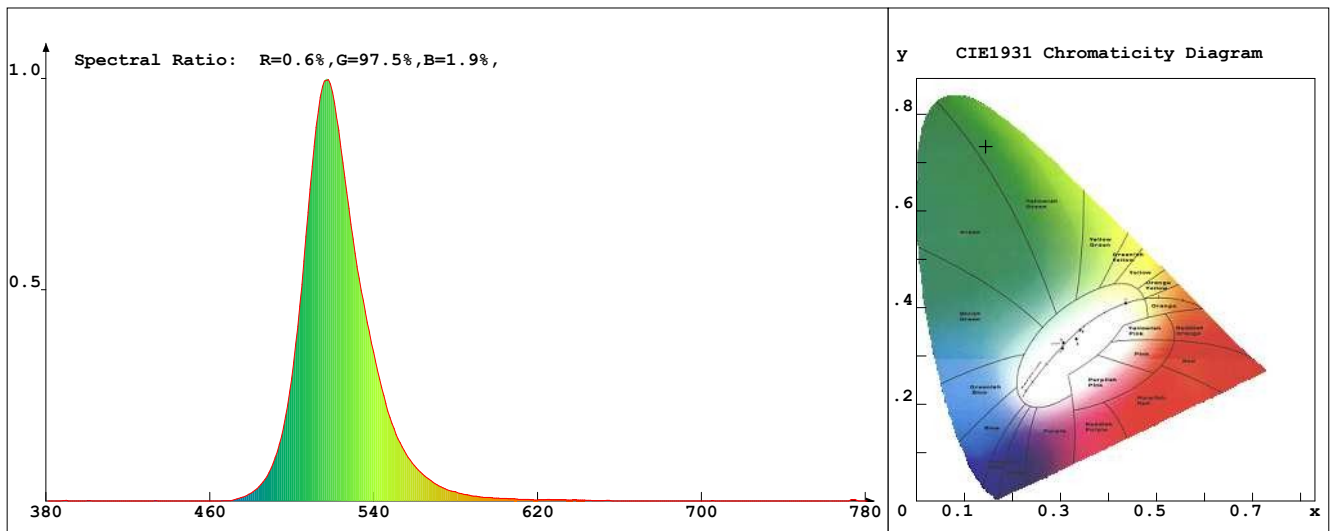
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.1441 y=0.7332 u=0.0501 v=0.3822 duv=0.1656

CCT: 8313K Dominant Wave.:522.9nm Purity:80.2% Centre Wave:518.2nm

Flux RGB Ratio:R=0.3%,G=99.2%,B=0.5% Peak Wave:516.6nm Half Width:28.7nm

Rendering Index:Ra=-30.2 CRI=104.5

R1 =-35 R2 =-16 R3 =-38 R4 =-72 R5 =-10 R6 =-22 R7 =-15 R8 =-34

R9 =-351 R10=-122 R11=-101 R12=-40 R13=-44 R14=31 R15=-32

PPF:2.638umol/s (400-700nm)

PRF:0.6mW (400-700nm)

PAR:0.5mW (400-700nm)

Photo Parameters

Flux:322.76lm Effi.:81.0lm/W Radiant:604.9mW Iv:0.0mcd

Scotopic Flux:1006.5Plm Effi.:0.0Plm/W S/P:3.1

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:2641.710umol/s (380-780nm)

Ele. Parameters

Forward Current:If=166.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=3.981W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 177.855ms

VPeak: 14808

VDark: 1364

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-060512 Green

Manufacturer : -

Temperature : 'C

Humidity : -%

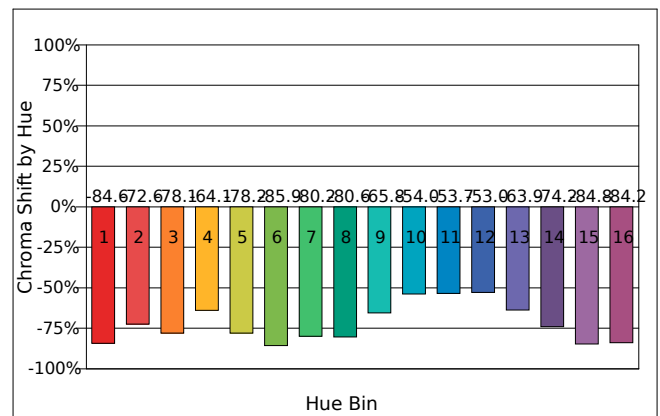
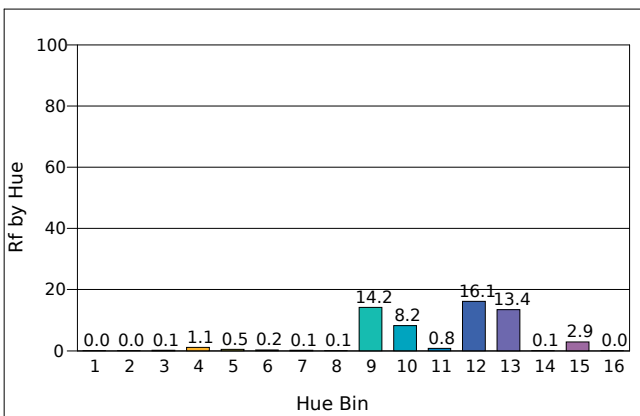
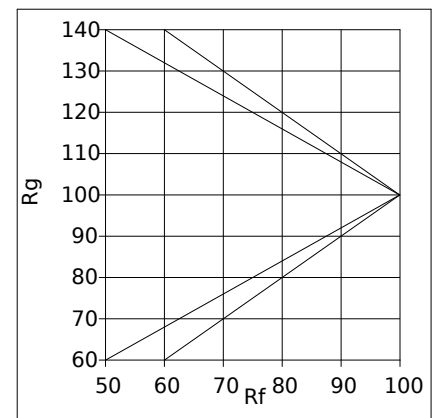
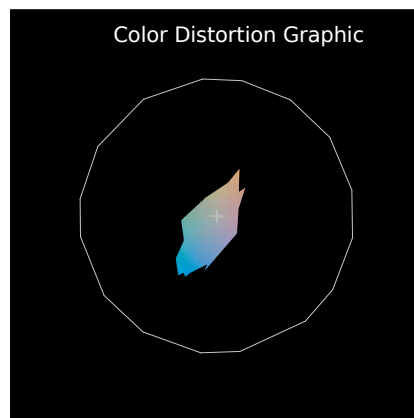
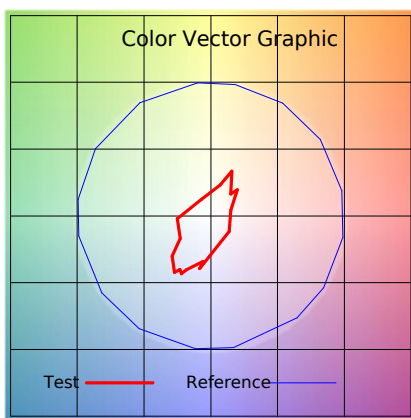
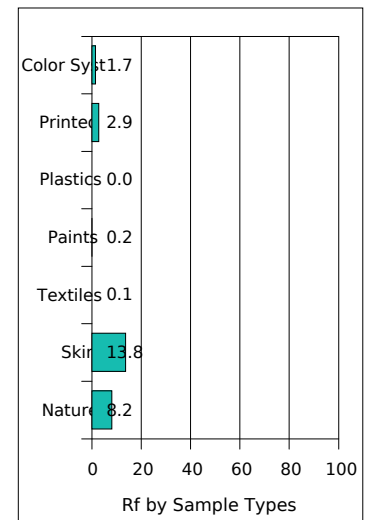
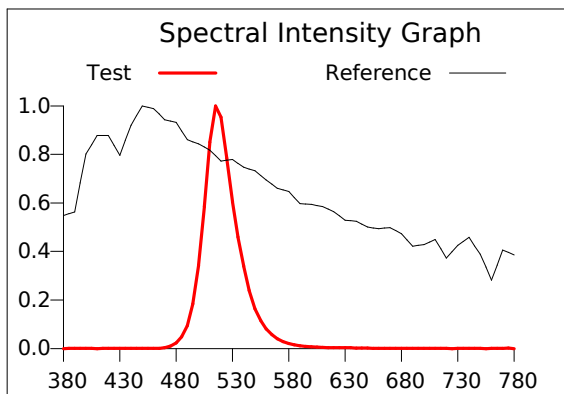
Operator : -

Test Date : 2026-05-20

Remark :

Rf: 0.4 CCT(K): 8313 u': 0.0501
 Rg: 5.8 LER: 461.4 Duv: 0.1656 v': 0.3822

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-84.6%	2.0%
2	0.0	-72.6%	3.4%
3	0.1	-78.1%	-5.6%
4	1.1	-64.1%	-10.1%
5	0.5	-78.2%	-2.0%
6	0.2	-85.9%	1.9%
7	0.1	-80.2%	9.4%
8	0.1	-80.6%	13.7%
9	14.2	-65.8%	28.4%
10	8.2	-54.0%	17.4%
11	0.8	-53.7%	0.9%
12	16.1	-53.0%	-21.1%
13	13.4	-63.9%	-23.3%
14	0.1	-74.2%	-35.0%
15	2.9	-84.8%	-39.6%
16	0.0	-84.2%	-12.4%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-060512 Green

Manufacturer : -

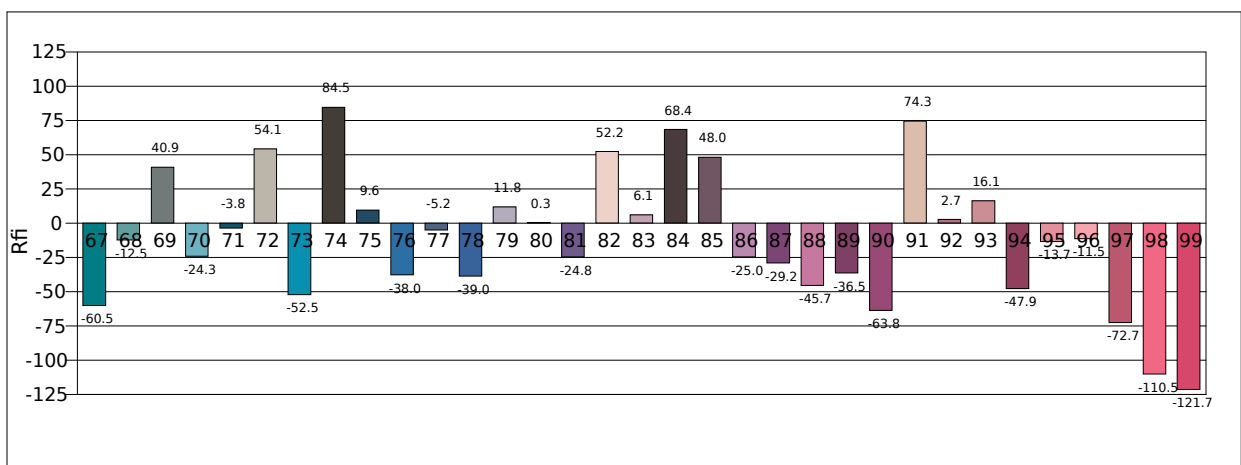
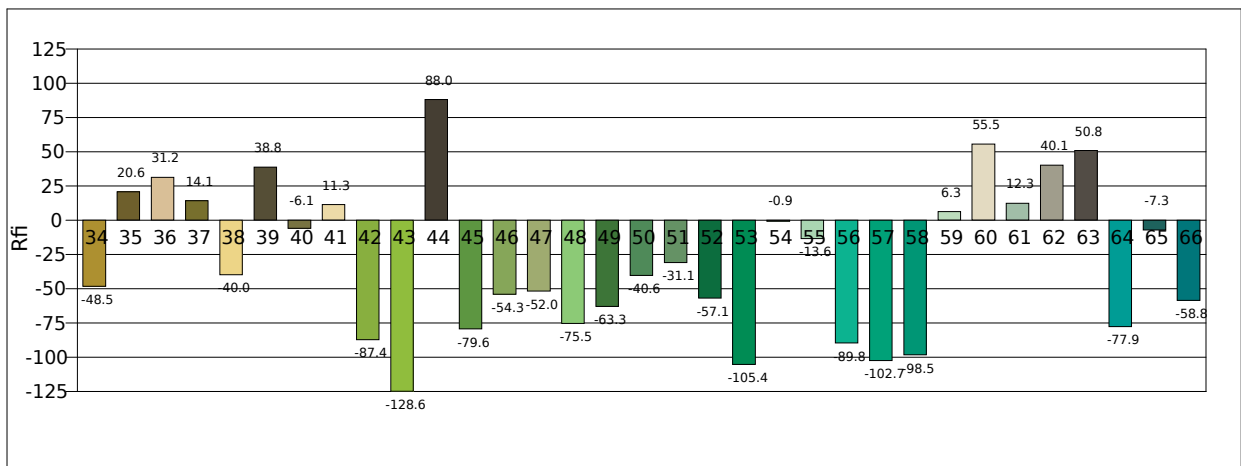
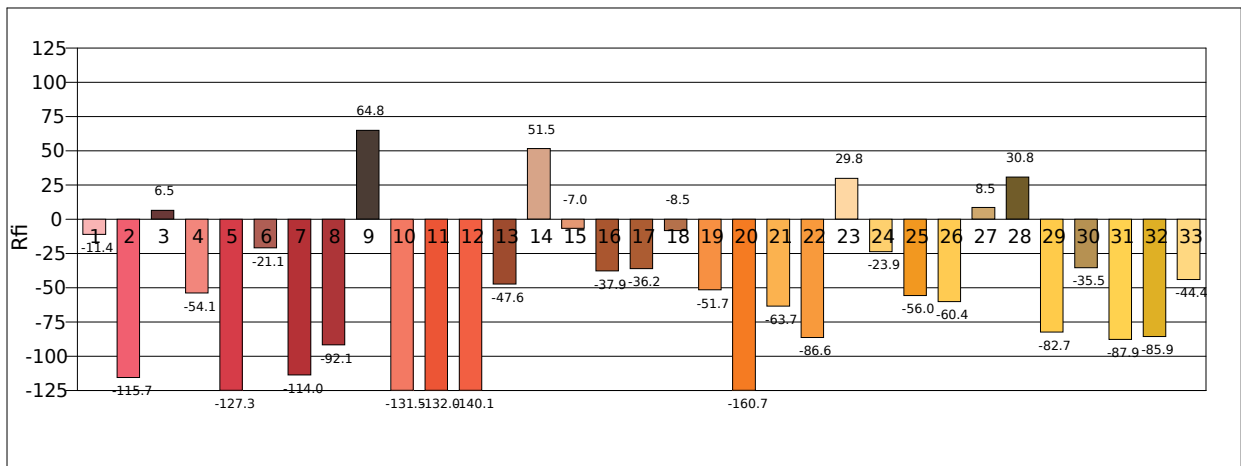
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark :



LED Test Report

Product Mark

Product Type : ORR400-F52-060512 Blu

Manufacturer : -

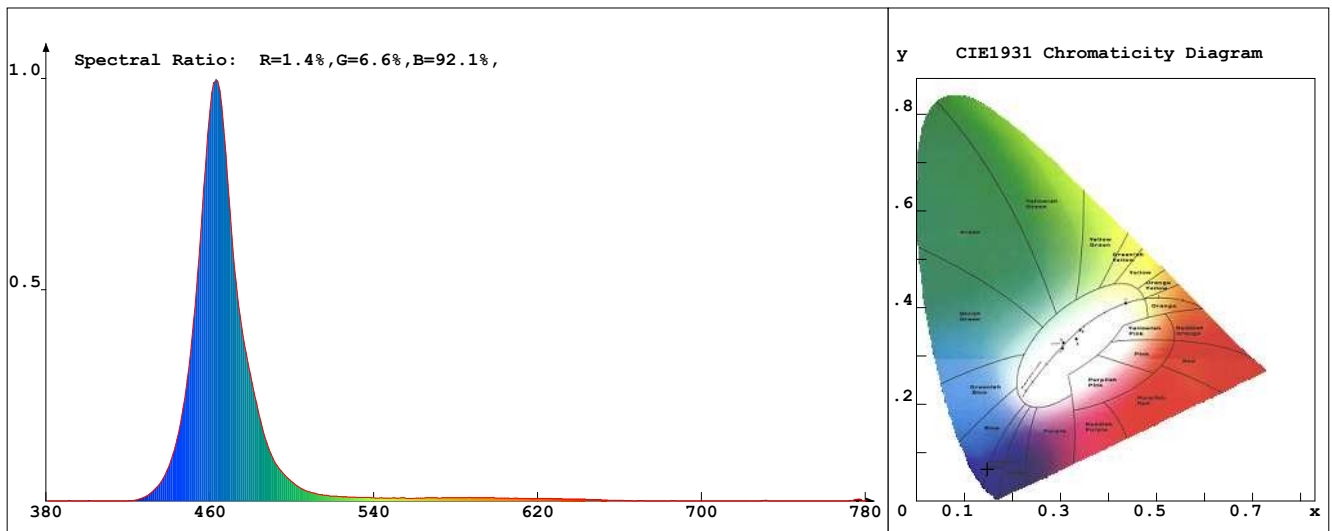
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark:



Chroma Parameters

Chro.Coord.: $x=0.1475$ $y=0.0656$ $u=0.1690$ $v=0.1127$ $duv=-0.0267$

CCT:100000K Dominant Wave.:466.4nm Purity:92.5% Centre Wave:462.4nm

Flux RGB Ratio:R=3.7%,G=32.8%,B=63.5% Peak Wave:461.7nm Half Width:19.9nm

Rendering Index:Ra=-28.8 CRI= 79.8

R1 =25 R2 =-20 R3 =-133 R4 =-57 R5 =65 R6 =-20 R7 =-49 R8 =-40

R9 =-133 R10=-192 R11=-74 R12=-62 R13=8 R14=-23 R15=24

PPF:3.715 μ mol/s (400-700nm)

PRF:0.9mW (400-700nm)

PAR:0.7mW (400-700nm)

Photo Parameters

Flux:85.79lm

Effi.:23.7lm/W

Radiant:948.9mW

Iv:0.0mcd

Scotopic Flux:1174.4Plm

Effi.:0.0Plm/W

S/P:13.7

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:3723.280 μ mol/s (380-780nm)

Ele. Parameters

Forward Current:If=151.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=3.651W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 95.095ms

VPeak: 13512

VDark: 1337

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-060512 Blu

Manufacturer : -

Temperature : 'C

Humidity : -%

Operator : -

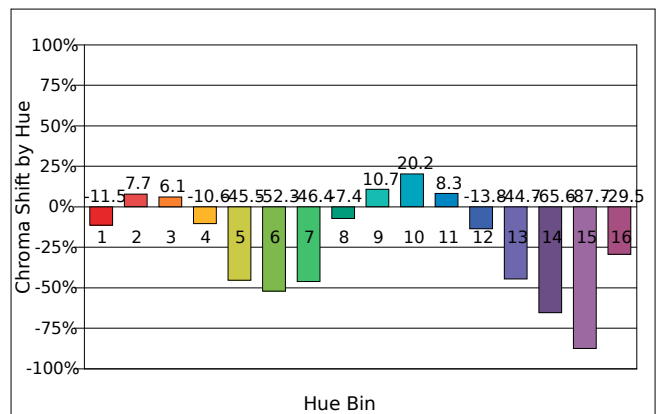
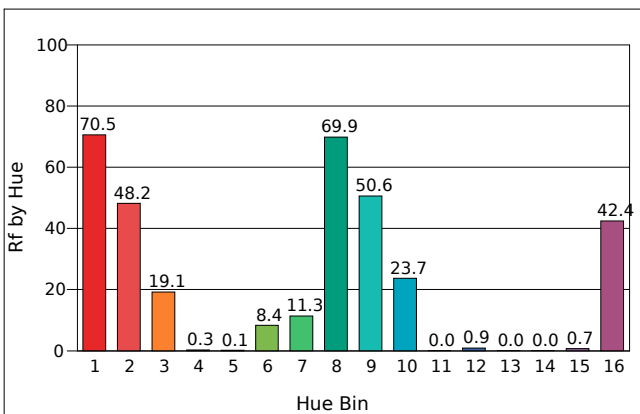
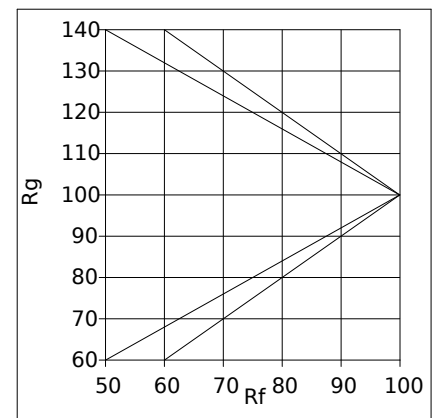
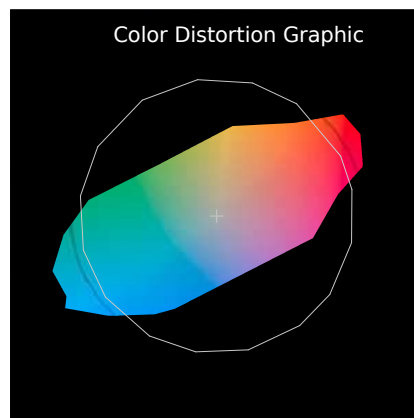
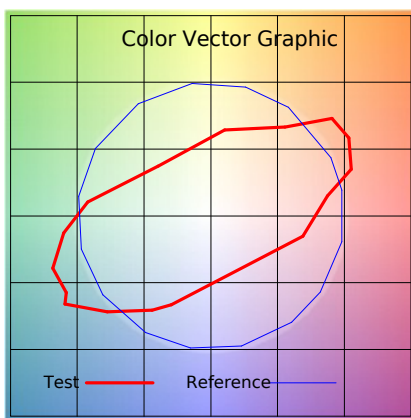
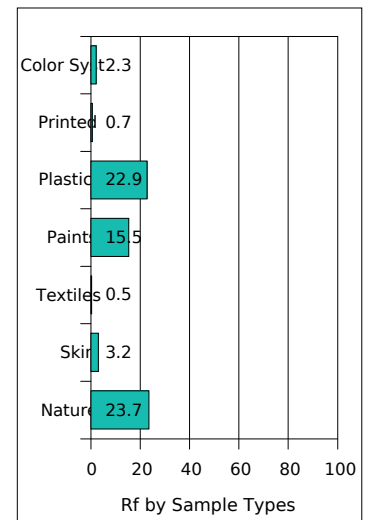
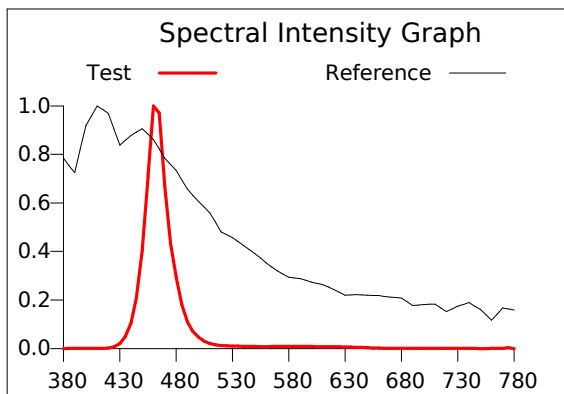
Test Date : 2026-05-20

Remark:

Rf: 9.5 CCT(K): 100000u': 0.1690

Rg: 62.2 LER: 74.7 Duv: -0.0267 v': 0.1127

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	70.5	-11.5%	-2.0%
2	48.2	7.7%	-15.4%
3	19.1	6.1%	-50.4%
4	0.3	-10.6%	-68.1%
5	0.1	-45.5%	-61.6%
6	8.4	-52.3%	-42.7%
7	11.3	-46.4%	-15.2%
8	69.9	-7.4%	2.8%
9	50.6	10.7%	-14.5%
10	23.7	20.2%	-37.3%
11	0.0	8.3%	-66.0%
12	0.9	-13.8%	-98.5%
13	0.0	-44.7%	-93.5%
14	0.0	-65.6%	-81.6%
15	0.7	-87.7%	-70.2%
16	42.4	-29.5%	-1.6%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-060512 Blu

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Humidity : -%

Operator : -

Test Date : 2026-05-20

Remark:

