

LED Test Report

Product Mark

Product Type : ORR400-F52-784OR2 RGB+WN

Manufacturer : -

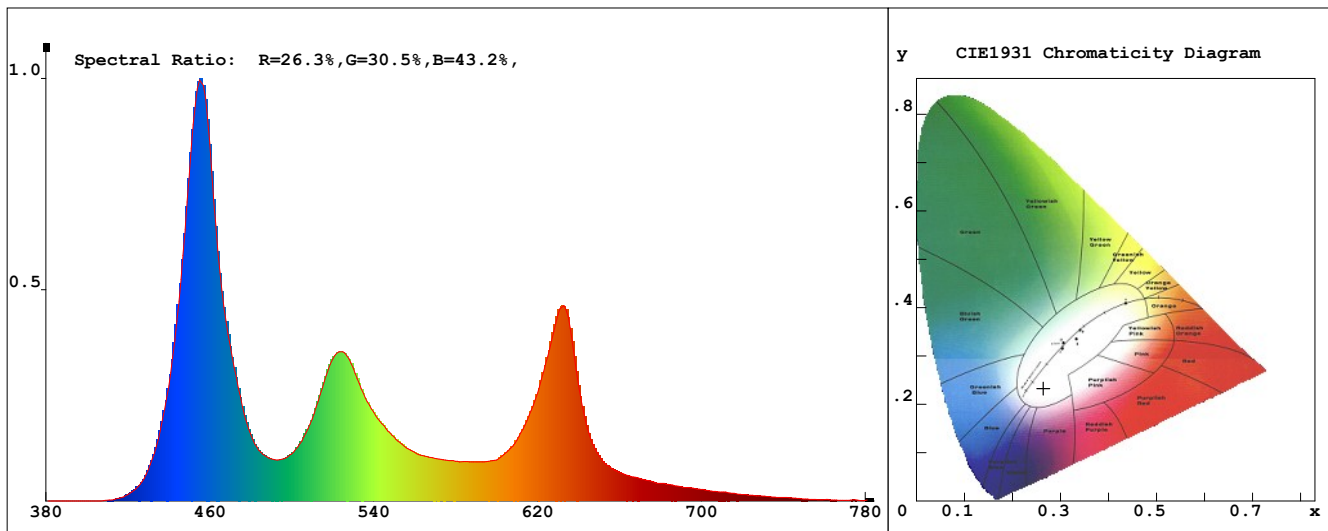
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.: $x=0.2645$ $y=0.2329$ $u=0.2009$ $v=0.2654$ $duv=-0.0197$

CCT: 35454K Dominant Wave.: 465.8nm Purity: 34.5% Centre Wave: 454.7nm

Flux RGB Ratio: R=20.2%, G=72.1%, B=7.7% Peak Wave: 454.8nm Half Width: 20.5nm

Rendering Index: Ra= 60.0 CRI= 68.1

R1 =44 R2 =78 R3 =68 R4 =49 R5 =60 R6 =78 R7 =77 R8 =26

R9 =-140 R10=64 R11=35 R12=61 R13=52 R14=77 R15=27

PPF: 17.725 $\mu\text{mol/s}$ (400-700nm)

PRF: 4.0mW (400-700nm)

PAR: 3.3mW (400-700nm)

Photo Parameters

Flux: 959.60lm Effi.: 50.4lm/W Radiant: 4083.3mW Iv: 0.0mcd

Scotopic Flux: 3160.3Plm Effi.: 0.0Plm/W S/P: 3.3

Efficiency: 0.00

Effi Level: A++ (EU 874-2012) Photon Flux: 18056.500 $\mu\text{mol/s}$ (380-780nm)

Ele. Parameters

Forward Current: $I_f=793.0\text{mA}$ 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: $P=19.050\text{W}$

Instrument state

Instrument: Lisun LMS-8000

Integral Time: 45.286ms

VPeak: 14712

VDark: 1325

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-784OR2 RGB+WN

Manufacturer : -

Temperature : 'C

Humidity : -%

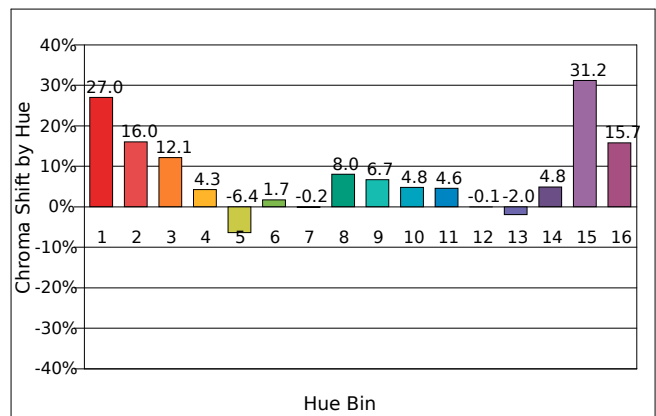
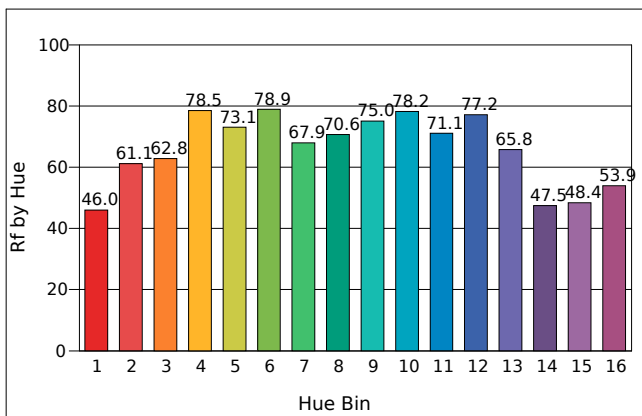
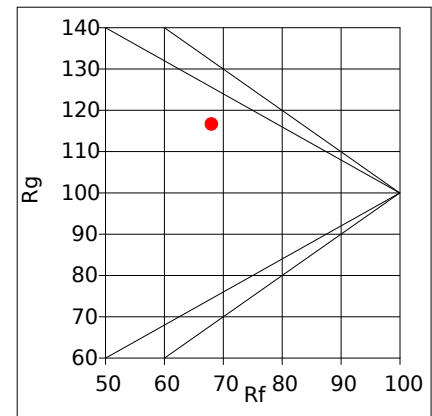
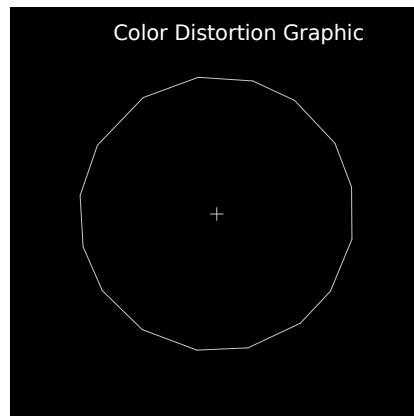
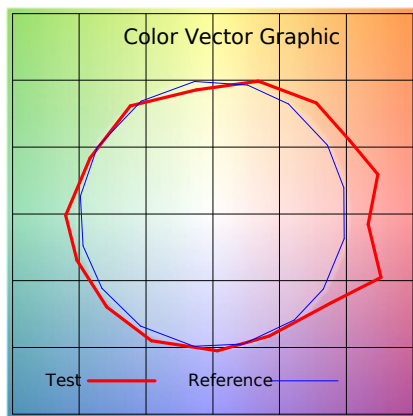
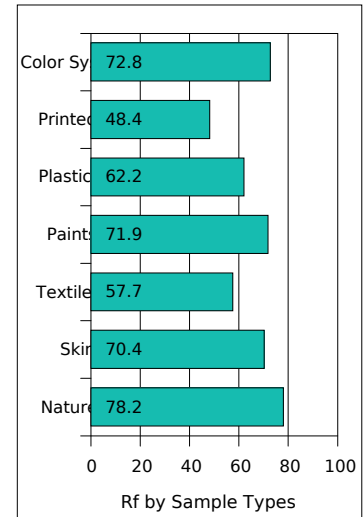
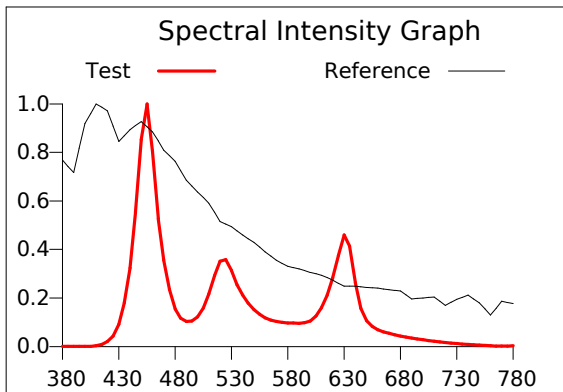
Operator : -

Test Date : 2025-03-20

Remark :

Rf: 68.0 CCT(K): 35454 u': 0.2009
 Rg: 116.6 LER: 221.3 Duv: -0.0197 v': 0.2654

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	46.0	27.0%	5.0%
2	61.1	16.0%	-6.1%
3	62.8	12.1%	-16.8%
4	78.5	4.3%	-7.3%
5	73.1	-6.4%	-0.1%
6	78.9	1.7%	8.9%
7	67.9	-0.2%	9.5%
8	70.6	8.0%	16.4%
9	75.0	6.7%	9.7%
10	78.2	4.8%	13.7%
11	71.1	4.6%	12.9%
12	77.2	-0.1%	18.1%
13	65.8	-2.0%	20.3%
14	47.5	4.8%	30.9%
15	48.4	31.2%	31.2%
16	53.9	15.7%	14.2%



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Manufacturer : -

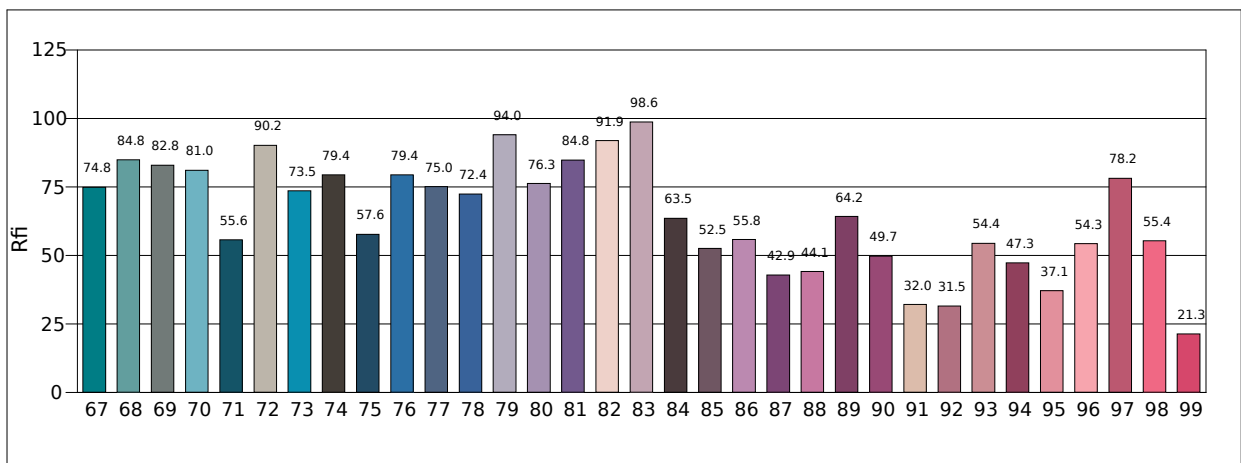
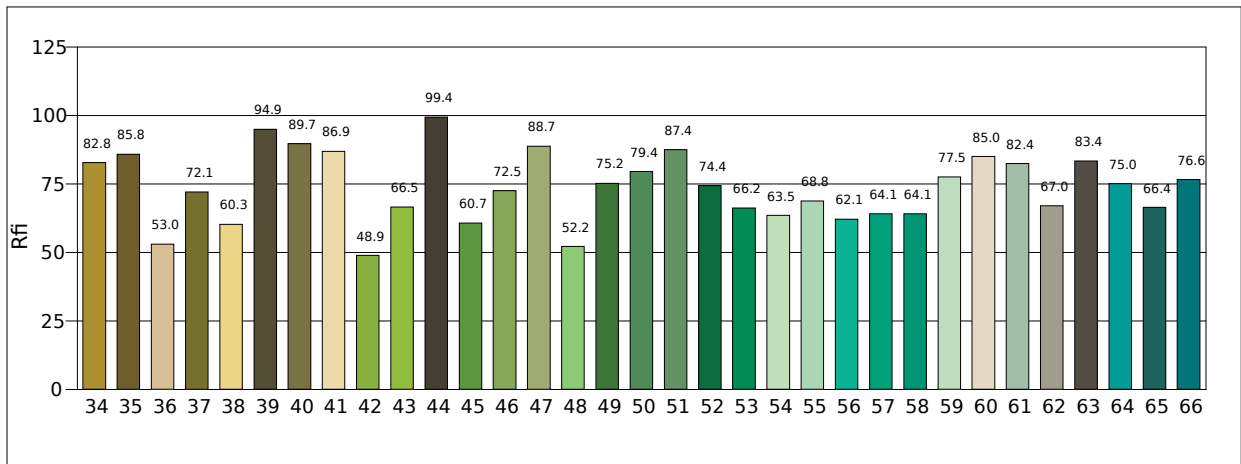
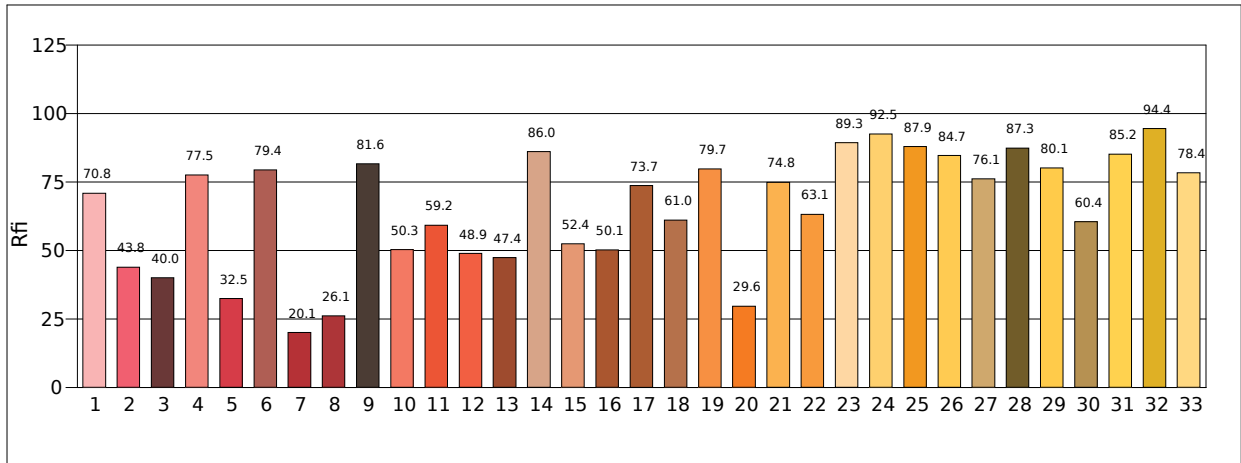
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



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Product Type : ORR400-F52-784OR2 RGB

Manufacturer : -

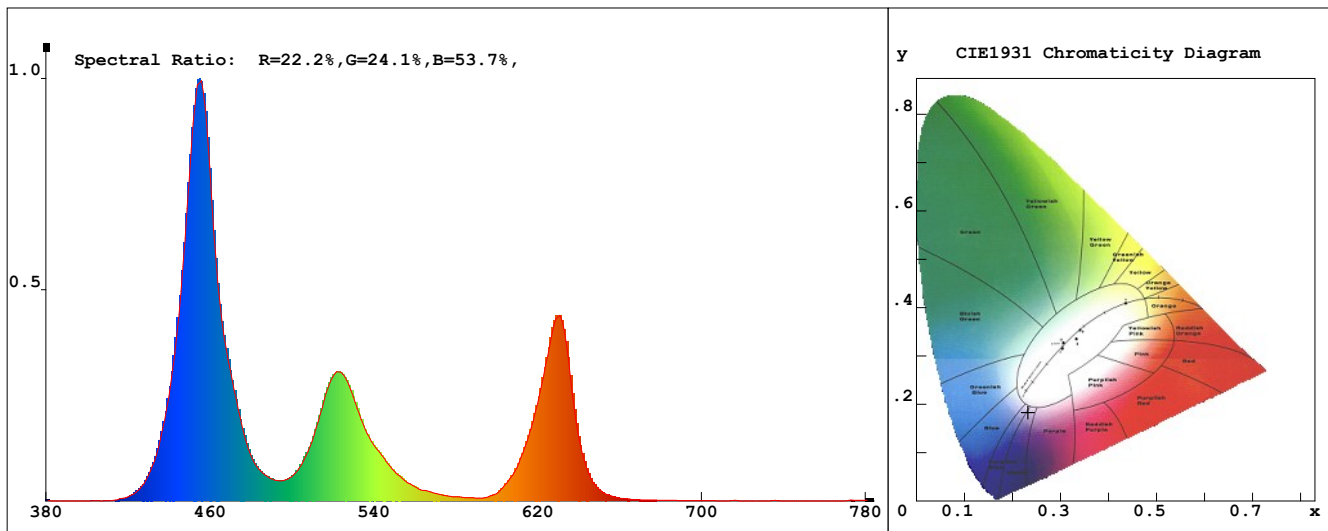
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.2326 y=0.1830 u=0.1967 v=0.2321 duv=-0.0239

CCT:100000K Dominant Wave.:464.7nm Purity:51.1% Centre Wave:454.2nm

Flux RGB Ratio:R=24.3%,G=65.0%,B=10.7% Peak Wave:454.8nm Half Width:18.3nm

Rendering Index:Ra= 45.5 CRI= 79.0

R1 =14 R2 =50 R3 =86 R4 =43 R5 =44 R6 =57 R7 =72 R8 =-2

R9 =-245 R10=-3 R11=22 R12=59 R13=17 R14=84 R15=-11

PPF:12.387umol/s (400-700nm)

PRF:2.9mW (400-700nm)

PAR:2.3mW (400-700nm)

Photo Parameters

Flux:585.87lm Effi.:43.3lm/W Radiant:2907.0mW Iv:0.0mcd

Scotopic Flux:2489.7Plm Effi.:0.0Plm/W S/P:4.2

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:12417.600umol/s (380-780nm)

Ele. Parameters

Forward Current:If=564.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=13.551W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 44.786ms

VPeak: 14520

VDark: 1323

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

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Temperature : 'C

Operator : -

Remark :

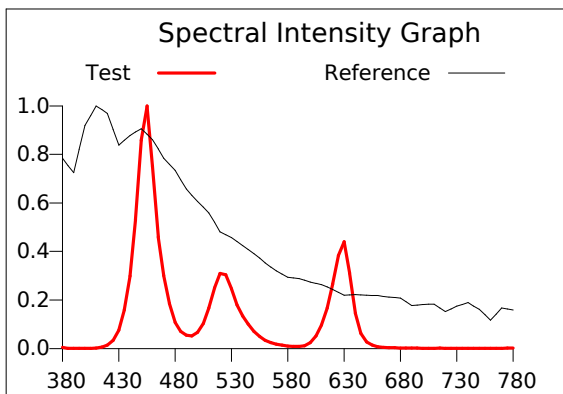
Manufacturer : -

Humidity : -%

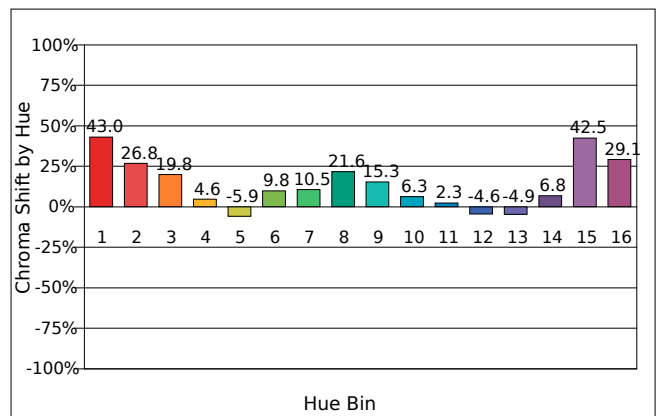
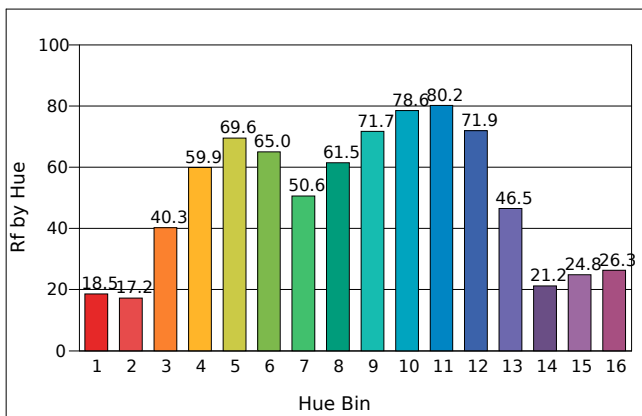
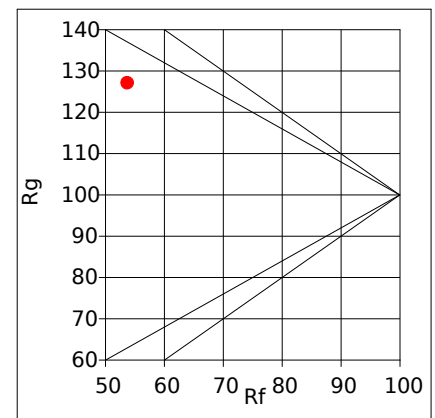
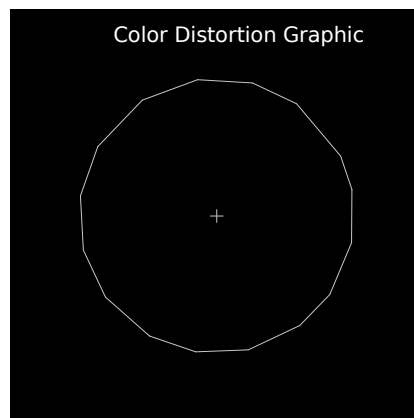
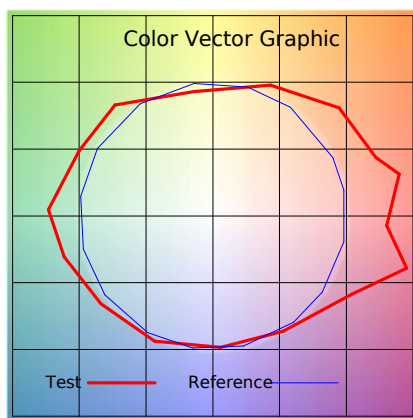
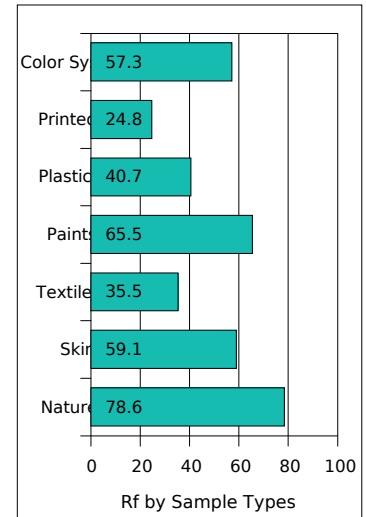
Test Date : 2025-03-20

Rf: 53.7 CCT(K): 100000u': 0.1967

Rg: 127.1 LER: 187.8 Duv: -0.0239 v': 0.2321



Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	18.5	43.0%	3.9%
2	17.2	26.8%	-17.7%
3	40.3	19.8%	-30.6%
4	59.9	4.6%	-16.7%
5	69.6	-5.9%	1.1%
6	65.0	9.8%	16.4%
7	50.6	10.5%	8.8%
8	61.5	21.6%	14.4%
9	71.7	15.3%	2.7%
10	78.6	6.3%	3.9%
11	80.2	2.3%	8.0%
12	71.9	-4.6%	20.6%
13	46.5	-4.9%	31.3%
14	21.2	6.8%	48.0%
15	24.8	42.5%	49.7%
16	26.3	29.1%	18.0%



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Manufacturer : -

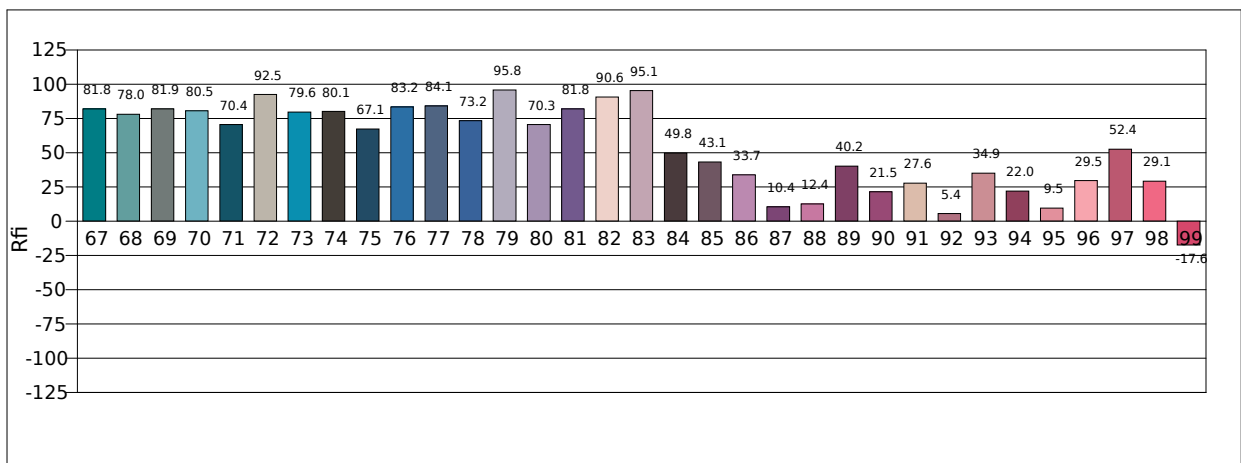
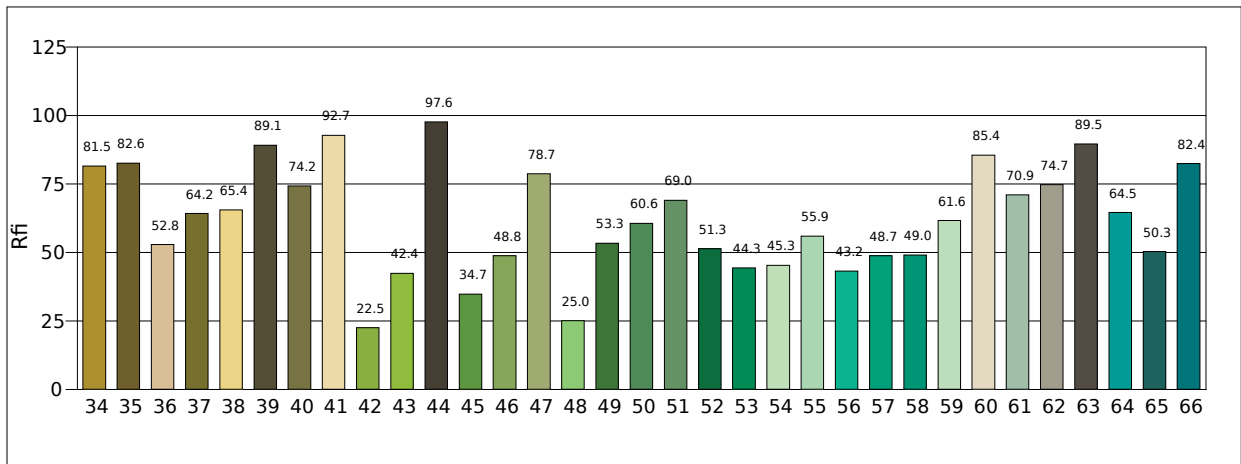
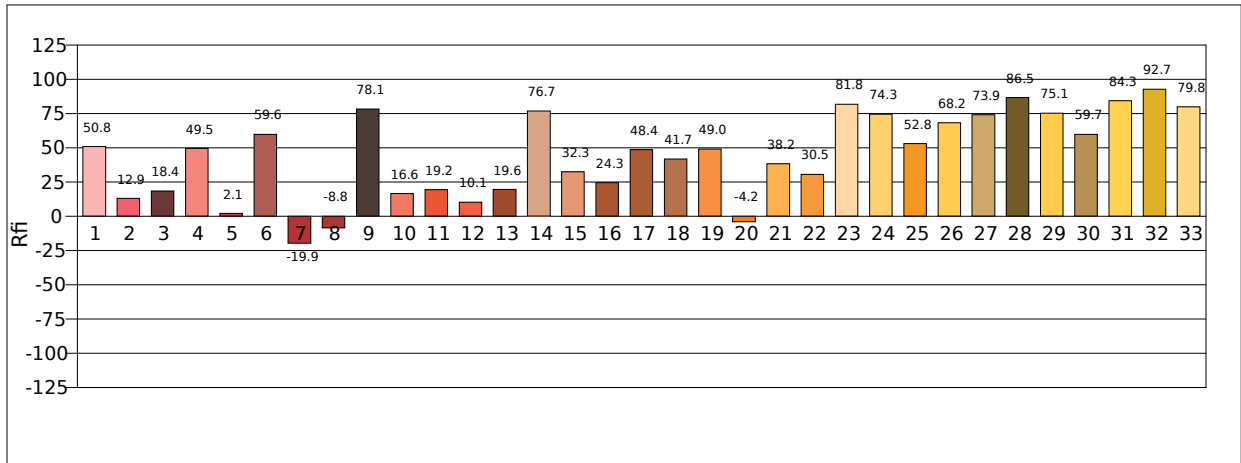
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORR400-F52-784OR2 WN

Manufacturer : -

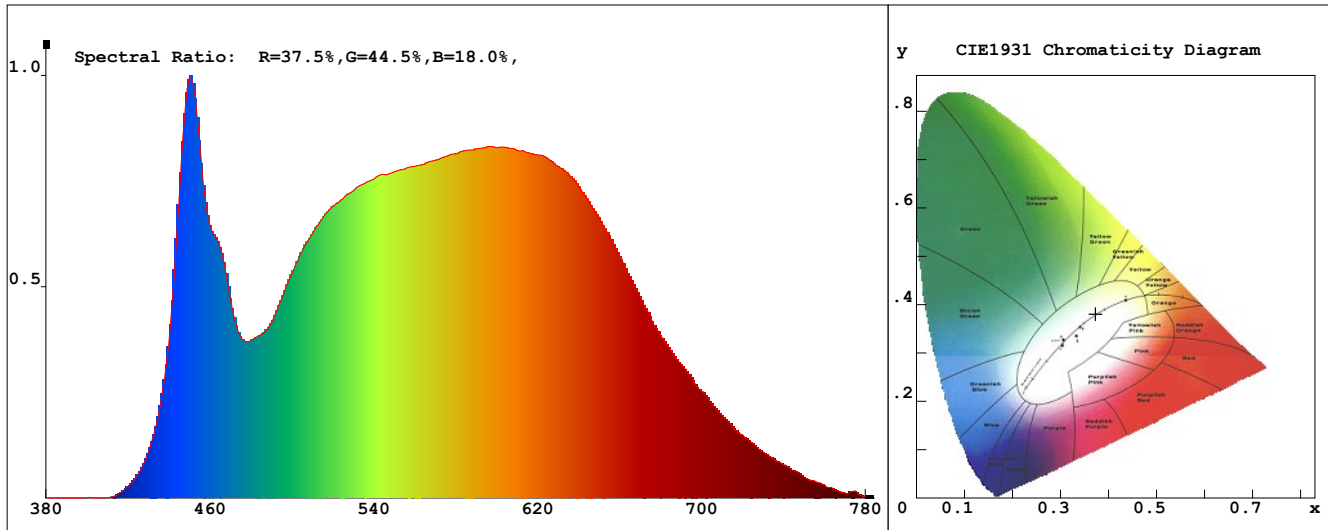
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.3732 y=0.3804 u=0.2189 v=0.3347 duv=0.0039

CCT: 4227K Dominant Wave.:576.0nm Purity:26.2% Centre Wave:454.6nm

Flux RGB Ratio:R=17.8%,G=79.4%,B=2.8% Peak Wave:449.6nm Half Width:26.7nm

Rendering Index:Ra= 90.7 CRI= 87.1

R1 =90 R2 =93 R3 =96 R4 =90 R5 =89 R6 =89 R7 =94 R8 =83

R9 =55 R10=84 R11=90 R12=68 R13=91 R14=98 R15=87

PPF:6.106umol/s (400-700nm)

PRF:1.3mW (400-700nm)

PAR:1.1mW (400-700nm)

Photo Parameters

Flux:425.12lm Effi.:78.7lm/W Radiant:1348.1mW Iv:0.0mcd

Scotopic Flux:777.1Plm Effi.:0.0Plm/W S/P:1.8

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:6432.630umol/s (380-780nm)

Ele. Parameters

Forward Current:If=225.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=5.421W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 361.520ms

VPeak: 13208

VDark: 1412

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

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Temperature : 'C

Operator : -

Remark:

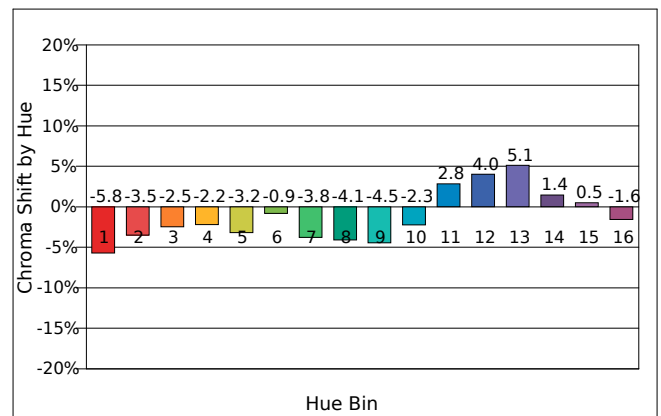
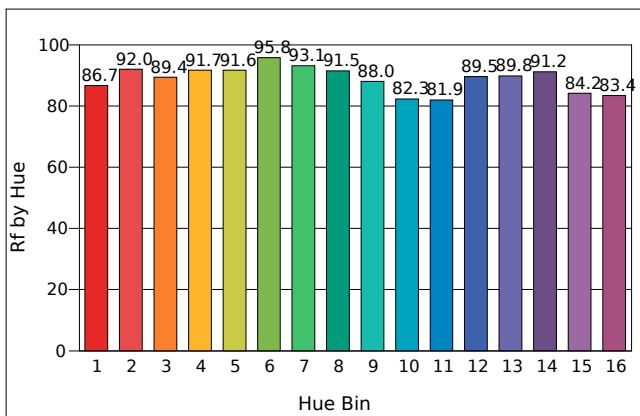
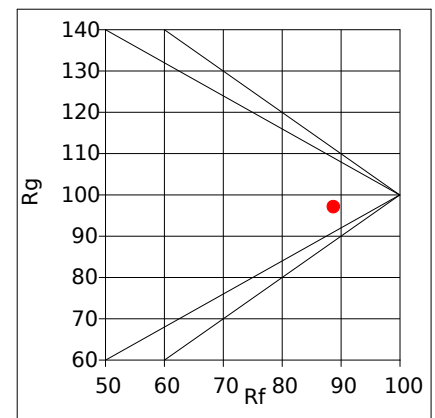
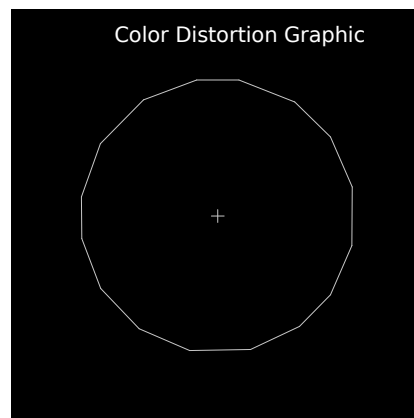
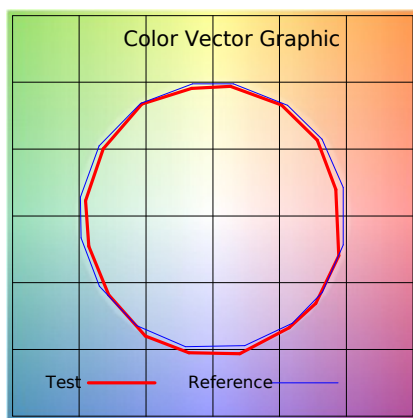
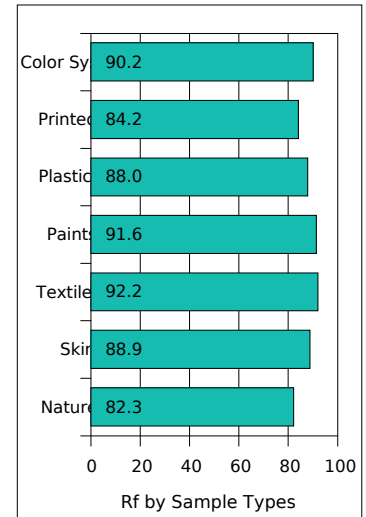
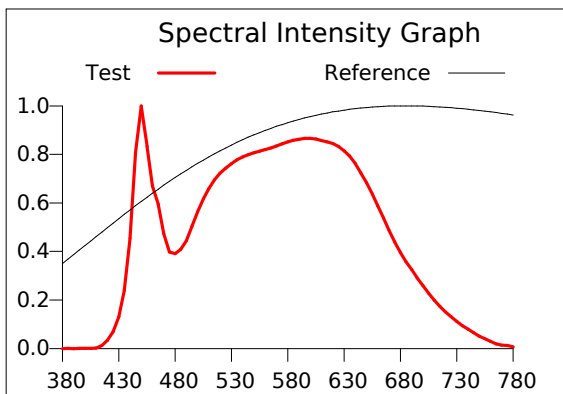
Manufacturer : -

Humidity : -%

Test Date : 2025-03-20

Rf: 88.7 CCT(K): 4227 u': 0.2189
 Rg: 97.1 LER: 302.0 Duv: 0.0039 v': 0.3347

Hue Bin	Graphic Shifts (%)		
	Rf	Chroma	Hue
1	86.7	-5.8%	-0.2%
2	92.0	-3.5%	1.5%
3	89.4	-2.5%	4.0%
4	91.7	-2.2%	1.7%
5	91.6	-3.2%	1.2%
6	95.8	-0.9%	-0.3%
7	93.1	-3.8%	-0.0%
8	91.5	-4.1%	1.8%
9	88.0	-4.5%	7.3%
10	82.3	-2.3%	9.1%
11	81.9	2.8%	10.1%
12	89.5	4.0%	3.3%
13	89.8	5.1%	-4.6%
14	91.2	1.4%	-3.8%
15	84.2	0.5%	-9.7%
16	83.4	-1.6%	-8.8%



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Manufacturer : -

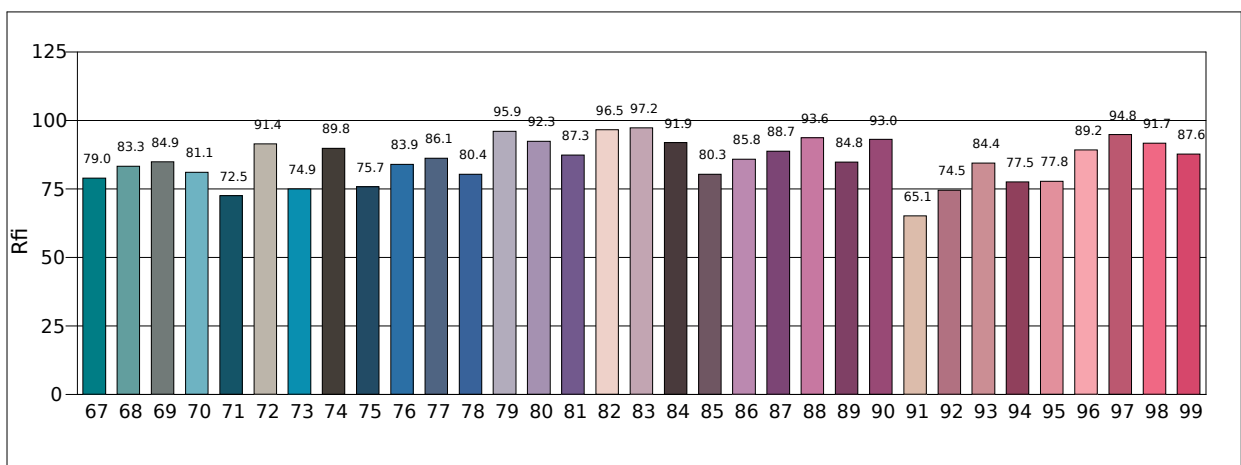
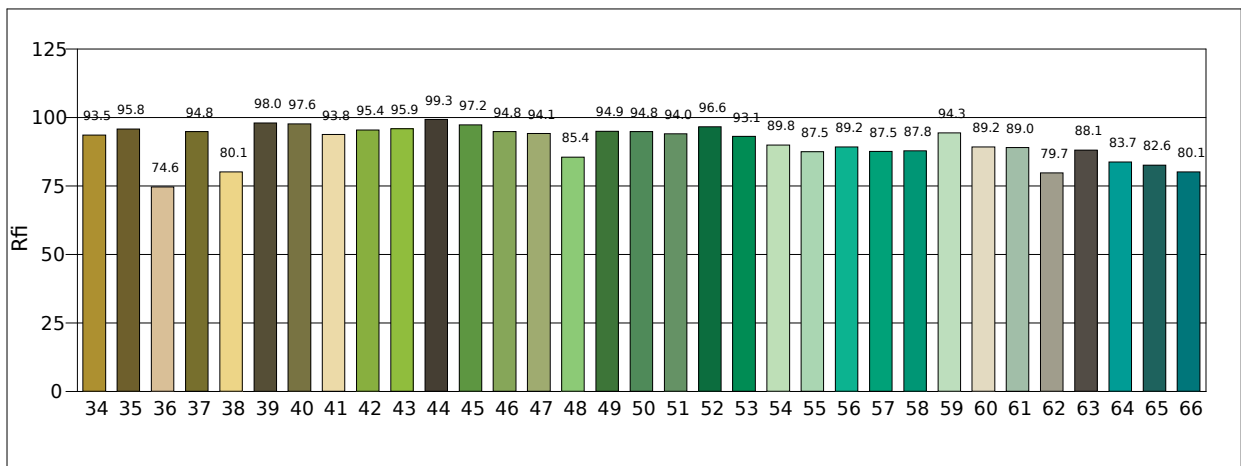
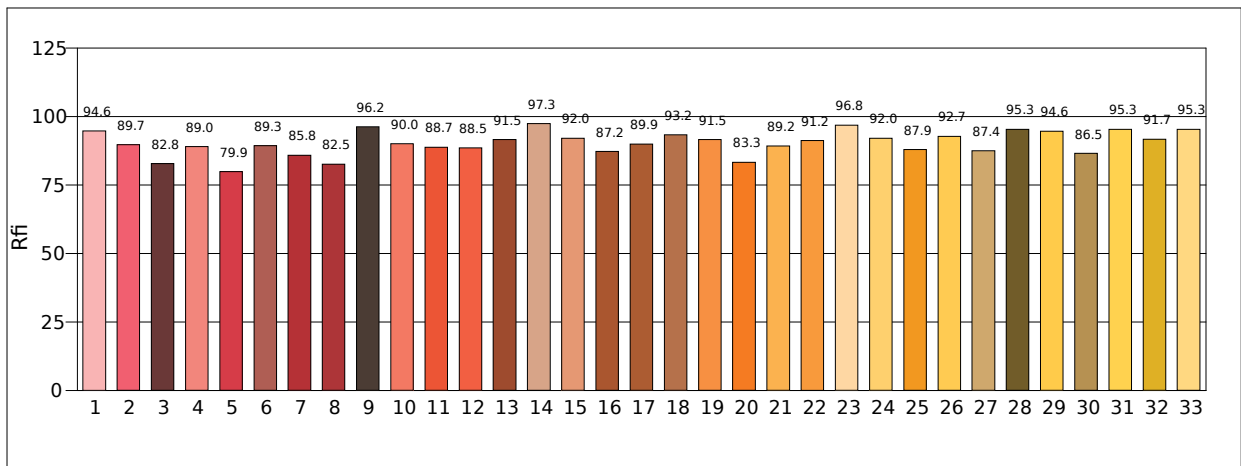
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORR400-F52-784OR2 G

Manufacturer : -

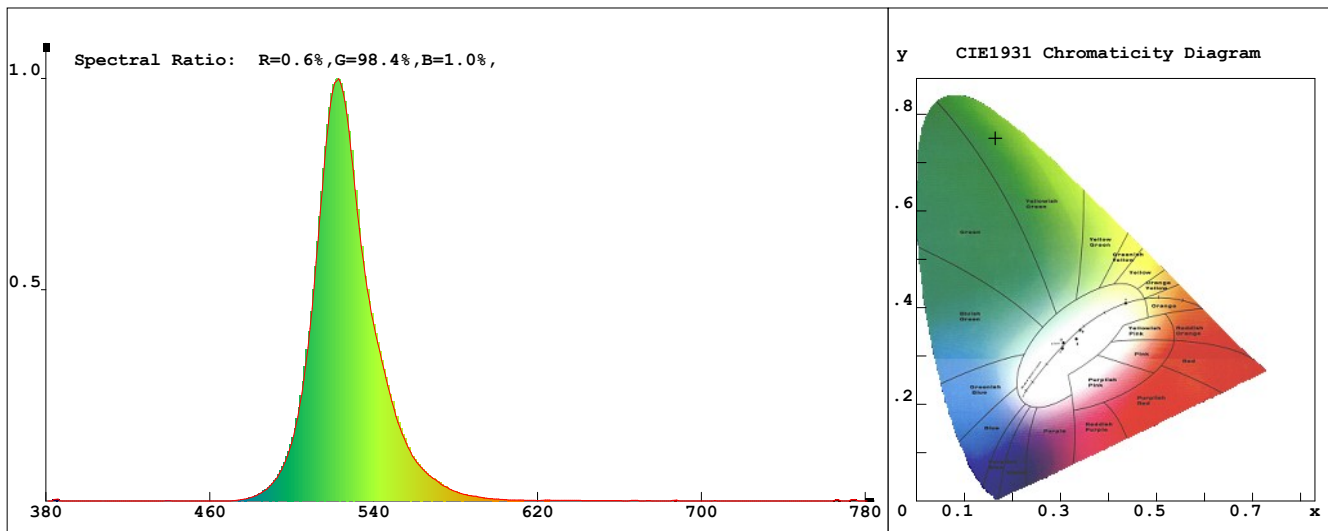
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.1640 y=0.7509 u=0.0561 v=0.3856 duv=0.1620

CCT: 7823K Dominant Wave.:527.9nm Purity:86.7% Centre Wave:522.9nm

Flux RGB Ratio:R=0.2%,G=99.6%,B=0.2% Peak Wave:521.6nm Half Width:26.1nm

Rendering Index:Ra=-32.5 CRI=108.7

R1 =-37 R2 =-19 R3 =-41 R4 =-76 R5 =-14 R6 =-23 R7 =-14 R8 =-35

R9 =-363 R10=-128 R11=-107 R12=-45 R13=-46 R14=29 R15=-35

PPF:3.036umol/s (400-700nm)

PRF:0.7mW (400-700nm)

PAR:0.5mW (400-700nm)

Photo Parameters

Flux:383.41lm Effi.:129.9lm/W Radiant:691.1mW Iv:0.0mcd

Scotopic Flux:1044.5Plm Effi.:0.0Plm/W S/P:2.7

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:3042.860umol/s (380-780nm)

Ele. Parameters

Forward Current:If=123.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=2.971W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 111.966ms

VPeak: 13368

VDark: 1355

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-784OR2 G

Temperature : 'C

Operator : -

Remark:

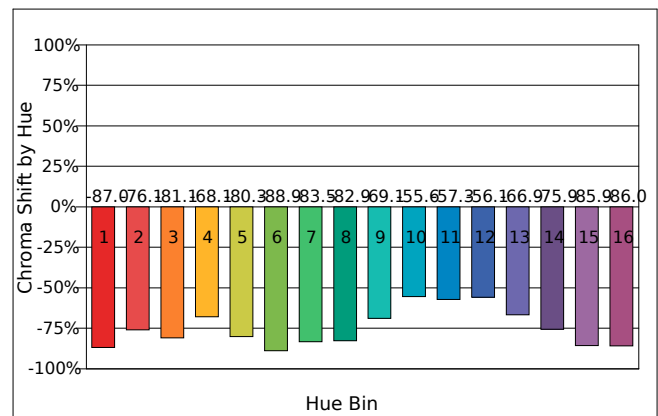
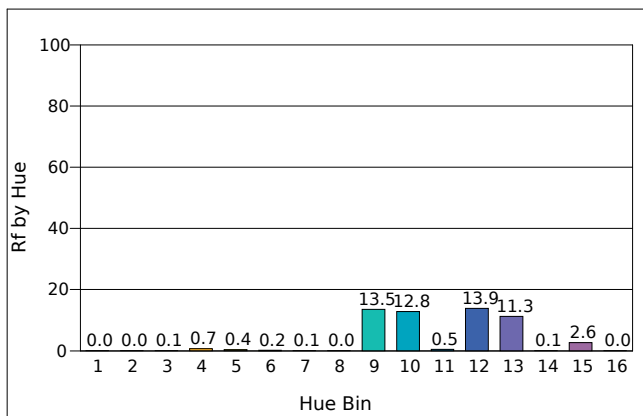
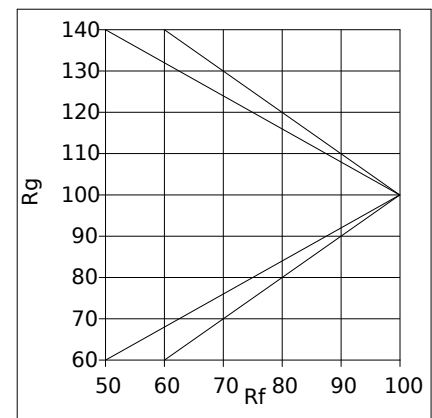
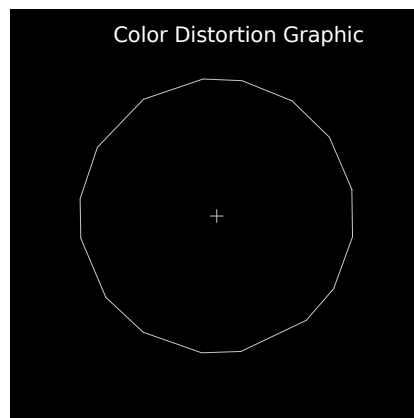
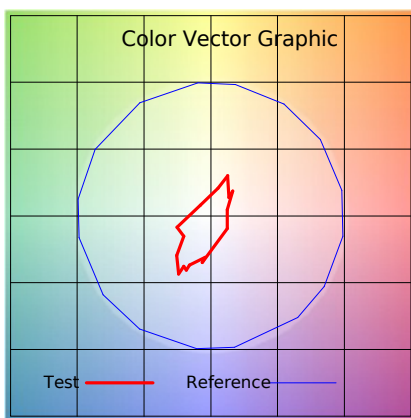
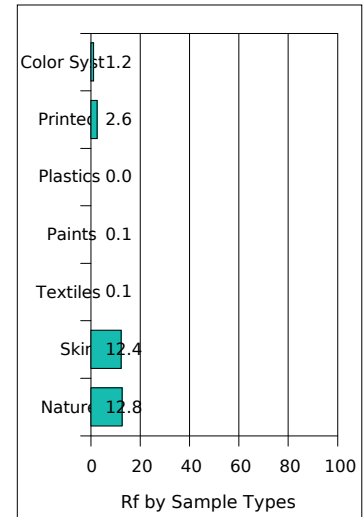
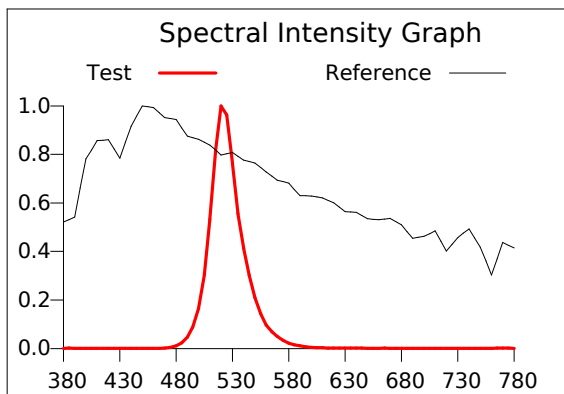
Manufacturer : -

Humidity : -%

Test Date : 2025-03-20

Rf: 0.3 CCT(K): 7823 u': 0.0561
 Rg: 4.5 LER: 506.3 Duv: 0.1620 v': 0.3856

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-87.0%	2.5%
2	0.0	-76.1%	4.4%
3	0.1	-81.1%	-4.5%
4	0.7	-68.1%	-7.8%
5	0.4	-80.3%	0.6%
6	0.2	-88.9%	4.9%
7	0.1	-83.5%	14.4%
8	0.0	-82.9%	11.8%
9	13.5	-69.1%	27.3%
10	12.8	-55.6%	18.5%
11	0.5	-57.3%	1.4%
12	13.9	-56.1%	-19.0%
13	11.3	-66.9%	-20.7%
14	0.1	-75.9%	-32.6%
15	2.6	-85.9%	-35.8%
16	0.0	-86.0%	-11.2%



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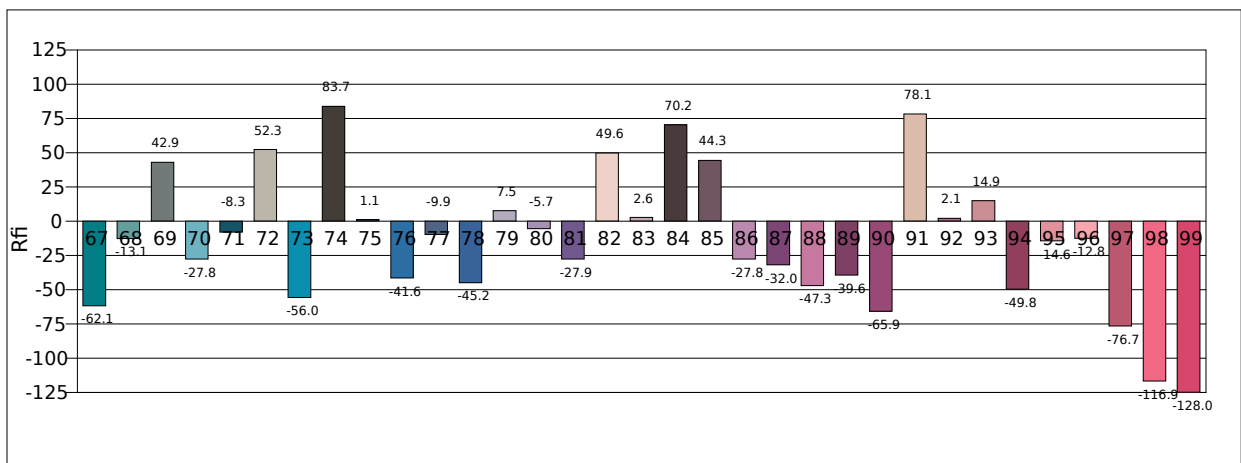
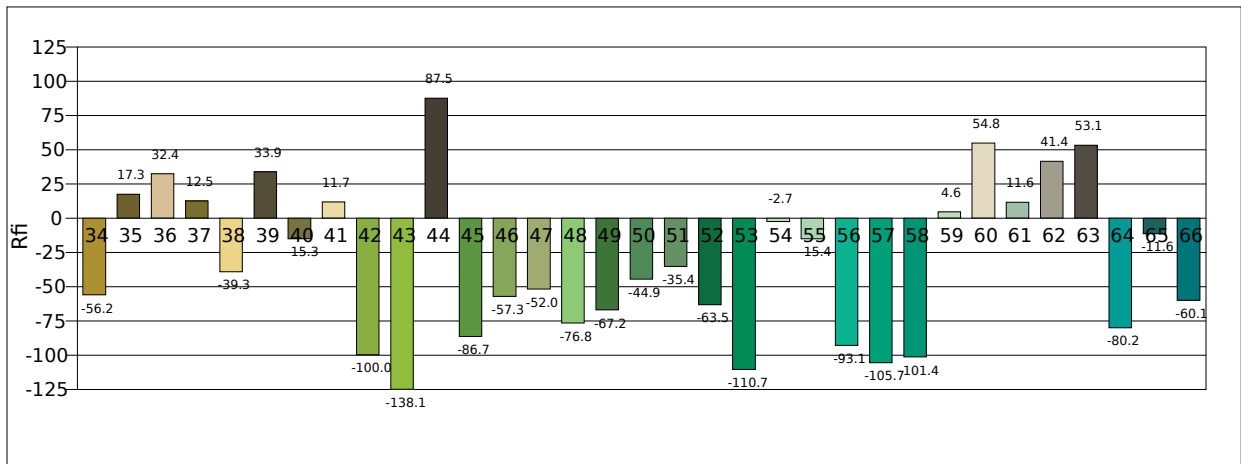
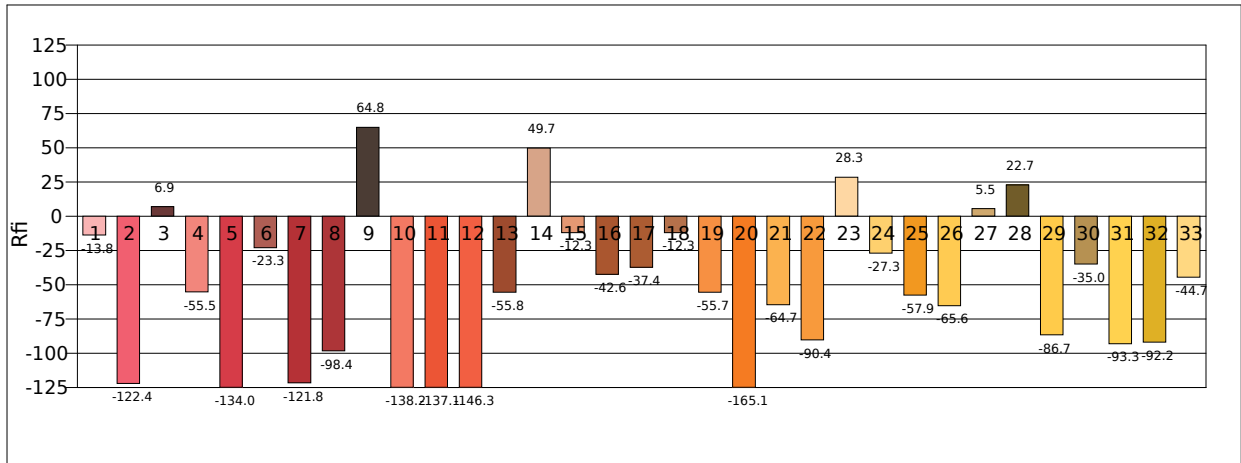
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORR400-F52-784OR2 R

Manufacturer : -

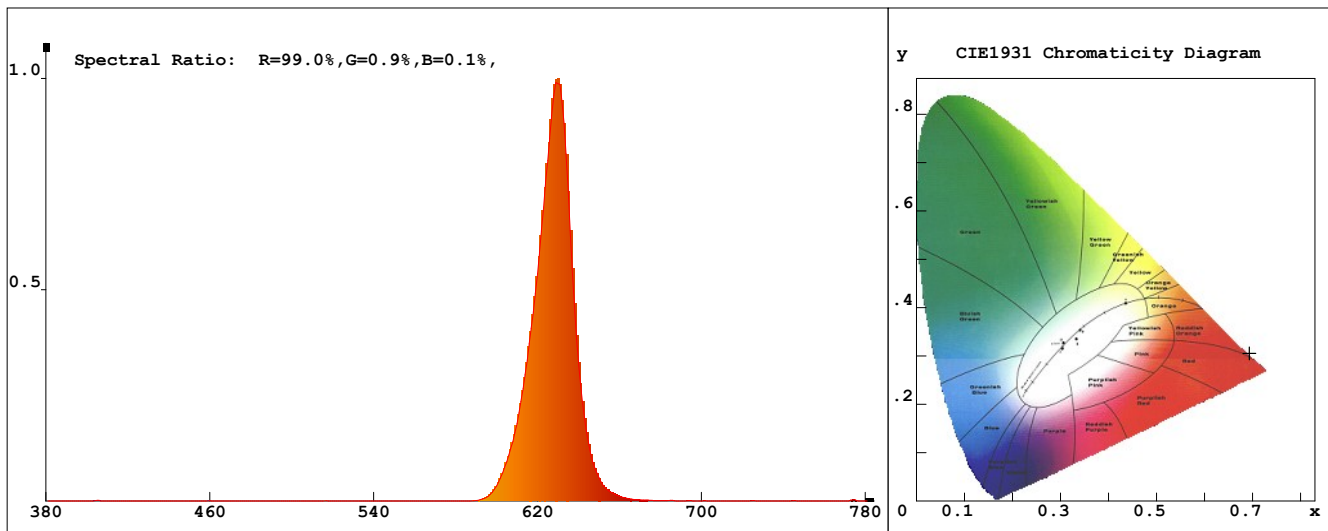
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.6937 y=0.3056 u=0.5255 v=0.3473 duv=-0.0008

CCT: 1341K Dominant Wave.:621.4nm Purity:99.8% Centre Wave:627.4nm

Flux RGB Ratio:R=98.0%,G=2.0%,B=0.0% Peak Wave:628.6nm Half Width:18.4nm

Rendering Index:Ra=-19.7 CRI=102.8

R1 =-44 R2 =55 R3 =8 R4 =-75 R5 =-40 R6 =54 R7 =-7 R8 =-107

R9 =-337 R10=43 R11=-87 R12=25 R13=-17 R14=39 R15=-79

PPF:3.375umol/s (400-700nm)

PRF:0.6mW (400-700nm)

PAR:0.6mW (400-700nm)

Photo Parameters

Flux:133.74lm Effi.:21.2lm/W Radiant:645.4mW Iv:0.0mcd

Scotopic Flux:6.9Plm Effi.:0.0Plm/W S/P:0.1

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:3380.730umol/s (380-780nm)

Ele. Parameters

Forward Current:If=263.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=6.330W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 111.966ms

VPeak: 15000

VDark: 1354

Scan Range: 380-780nm

Product ID: 201508924

IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-784OR2 R

Temperature : 'C

Operator : -

Remark:

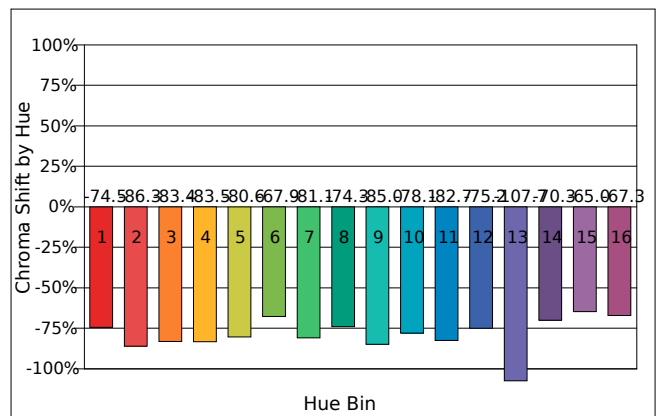
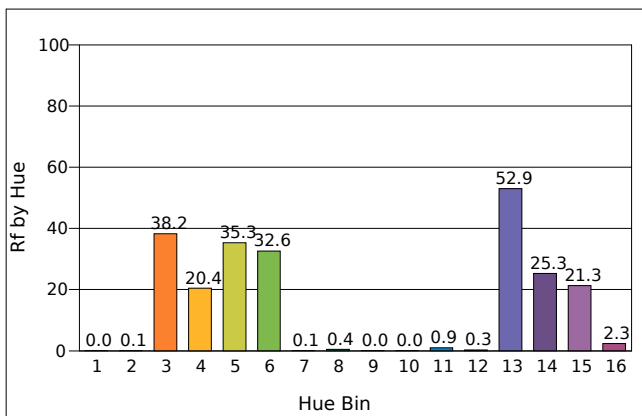
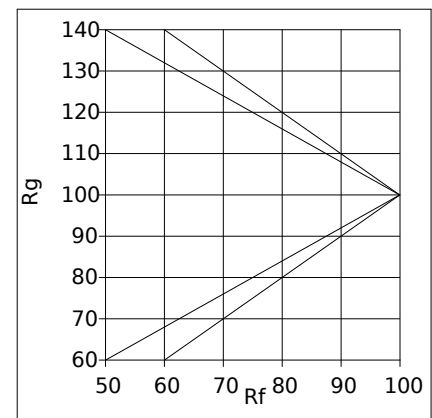
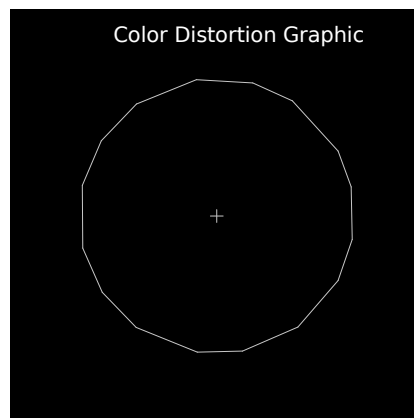
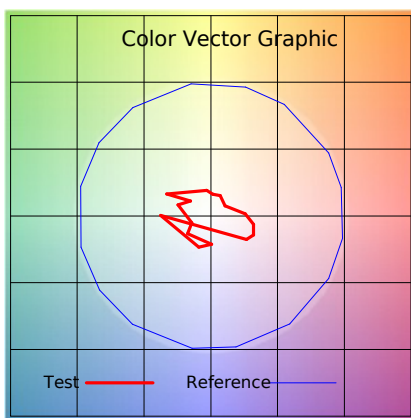
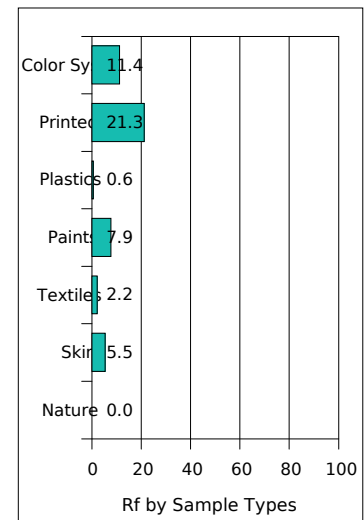
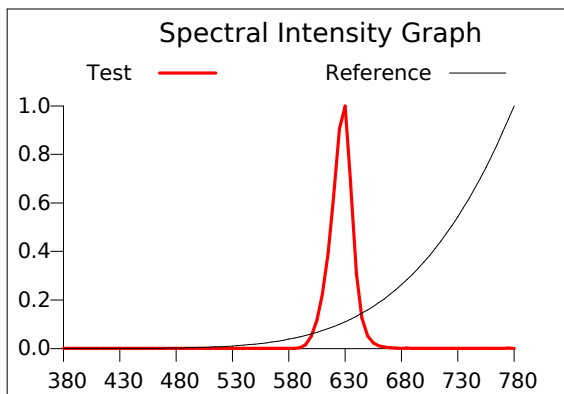
Manufacturer : -

Humidity : -%

Test Date : 2025-03-20

Rf: 1.1 CCT(K): 1341 u': 0.5255
 Rg: 3.7 LER: 212.5 Duv: -0.0008 v': 0.3473

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-74.5%	-5.2%
2	0.1	-86.3%	10.2%
3	38.2	-83.4%	1.7%
4	20.4	-83.5%	8.4%
5	35.3	-80.6%	4.2%
6	32.6	-67.9%	15.0%
7	0.1	-81.1%	-1.8%
8	0.4	-74.3%	-0.6%
9	0.0	-85.0%	-1.7%
10	0.0	-78.1%	1.6%
11	0.9	-82.7%	16.0%
12	0.3	-75.2%	-9.8%
13	52.9	-107.7%	-36.0%
14	25.3	-70.3%	8.3%
15	21.3	-65.0%	-4.1%
16	2.3	-67.3%	-2.6%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-784OR2 R

Manufacturer : -

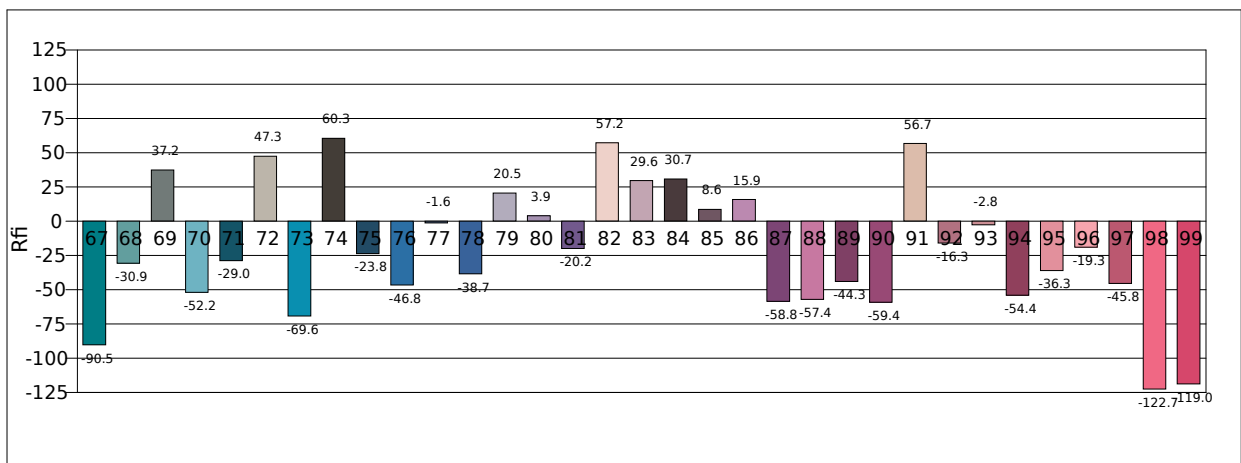
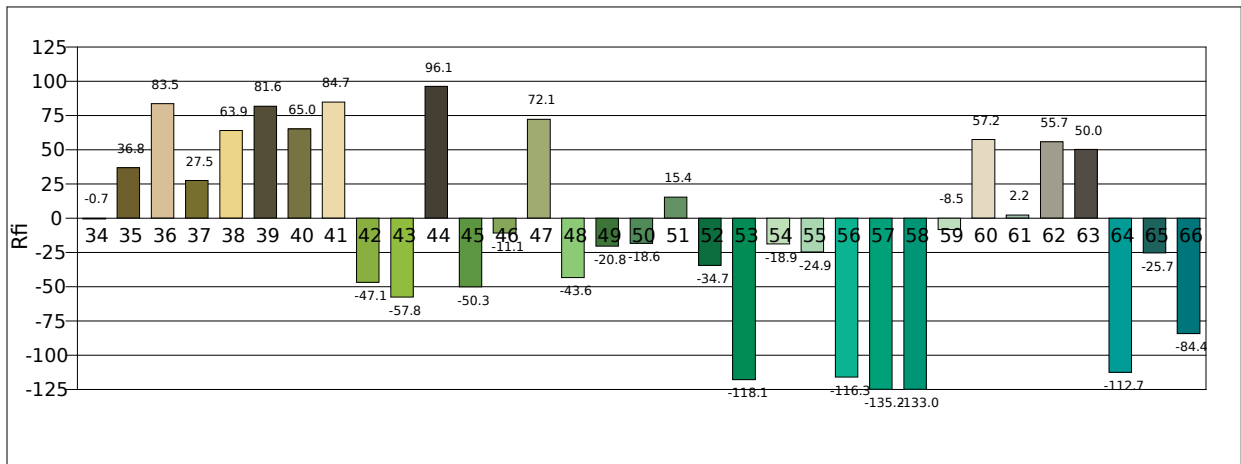
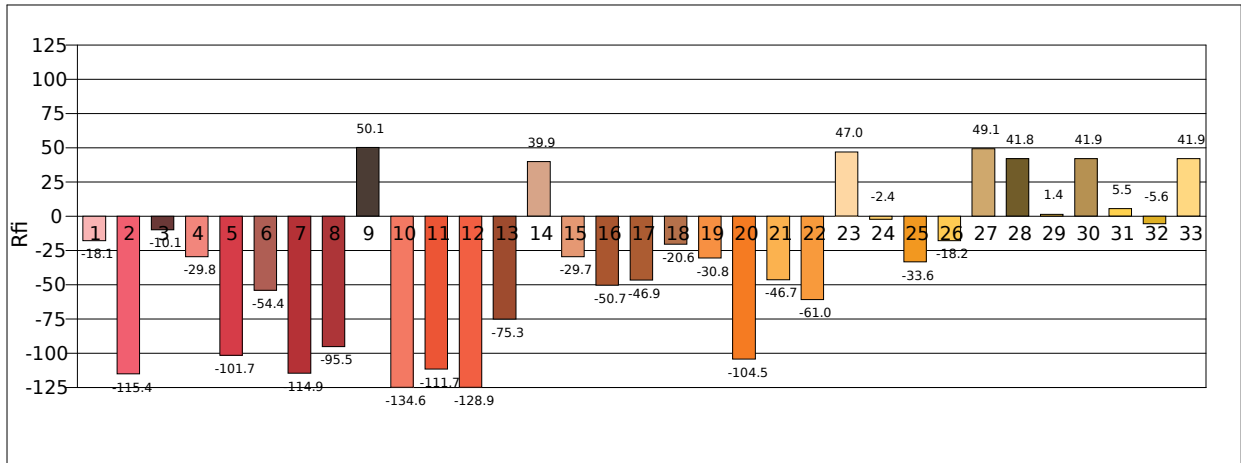
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORR400-F52-784OR2 B

Manufacturer : -

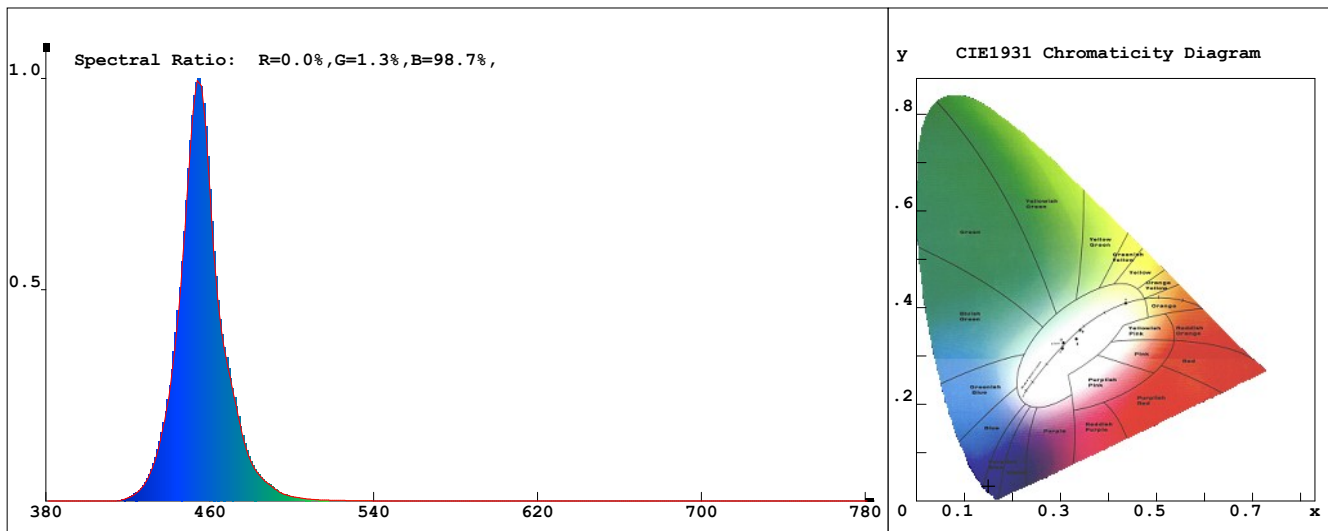
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.1498 y=0.0309 u=0.1952 v=0.0604 duv=-0.0650

CCT:100000K Dominant Wave.:457.9nm Purity:98.6% Centre Wave:453.7nm

Flux RGB Ratio:R=0.1%,G=9.0%,B=90.9% Peak Wave:453.8nm Half Width:17.7nm

Rendering Index:Ra=-64.7 CRI=132.2

R1 =-45 R2 =-75 R3 =-165 R4 =-81 R5 =25 R6 =-55 R7 =-64 R8 =-58

R9 =-303 R10=-286 R11=-109 R12=-128 R13=-73 R14=-42 R15=-27

PPF:6.101umol/s (400-700nm)

PRF:1.6mW (400-700nm)

PAR:1.2mW (400-700nm)

Photo Parameters

Flux:85.58lm Effi.:19.3lm/W Radiant:1602.0mW Iv:0.0mcd

Scotopic Flux:1885.7Plm Effi.:0.0Plm/W S/P:22.0

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:6101.040umol/s (380-780nm)

Ele. Parameters

Forward Current:If=185.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=24.00V

Reverse Current:Ir=0.00uA

Power:P=4.461W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 45.190ms

VPeak: 15000

VDark: 1235

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORR400-F52-784OR2 B

Manufacturer : -

Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :

