

LED Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 RGB

Manufacturer : -

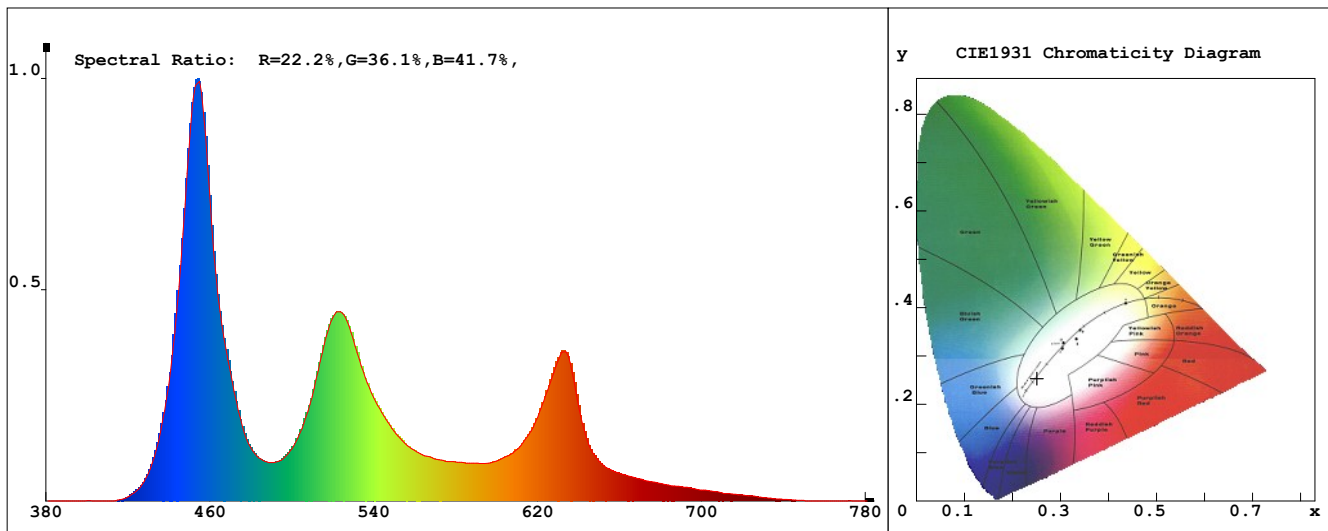
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.2508 y=0.2534 u=0.1811 v=0.2745 duv=0.0018

CCT:25455K Dominant Wave.:477.6nm Purity:35.5% Centre Wave:453.3nm

Flux RGB Ratio:R=15.4%,G=78.0%,B=6.6% Peak Wave:453.0nm Half Width:18.9nm

Rendering Index:Ra= 80.1 CRI= 76.0

R1 =78 R2 =99 R3 =70 R4 =70 R5 =85 R6 =96 R7 =85 R8 =59

R9 =-34 R10=94 R11=55 R12=57 R13=83 R14=81 R15=66

PPF:13.222umol/s (400-700nm)

PRF:3.0mW (400-700nm)

PAR:2.4mW (400-700nm)

Photo Parameters

Flux:787.86lm Effi.:41.5lm/W Radiant:3054.8mW Iv:0.0mcd

Scotopic Flux:2586.9Plm Effi.:0.0Plm/W S/P:3.3

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:13407.500umol/s (380-780nm)

Ele. Parameters

Forward Current:If=853.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=22.27V

Reverse Current:Ir=0.00uA

Power:P=19.001W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 52.778ms

VPeak: 13544

VDark: 1370

Scan Range: 380-780nm

Product ID: 201508924

www.orizzonteled.com

IES TM-30-2015 Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 RGB

Manufacturer : -

Temperature : 'C

Humidity : -%

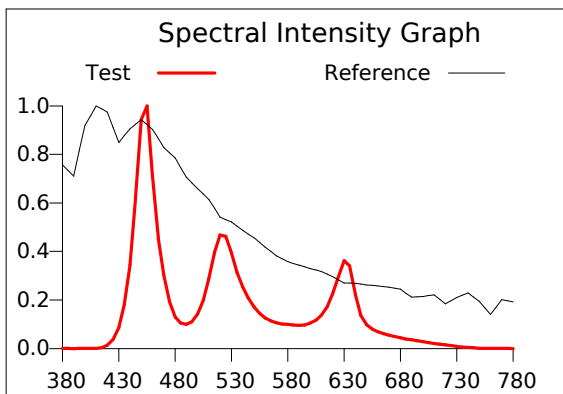
Operator : -

Test Date : 2025-03-20

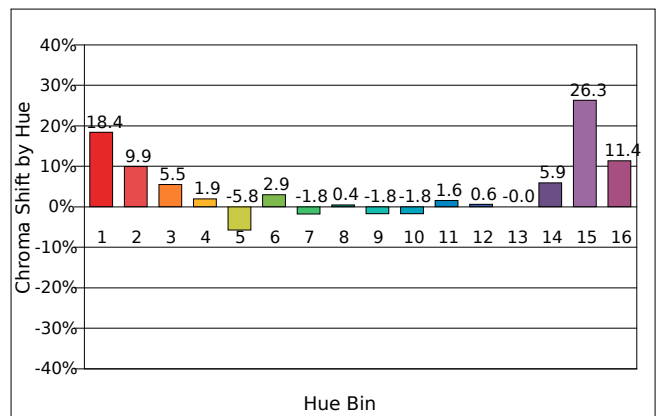
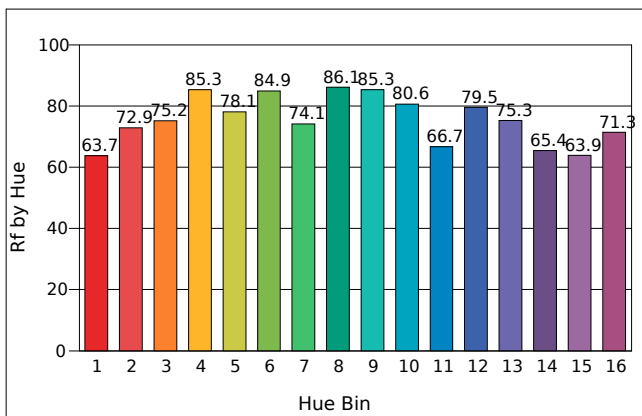
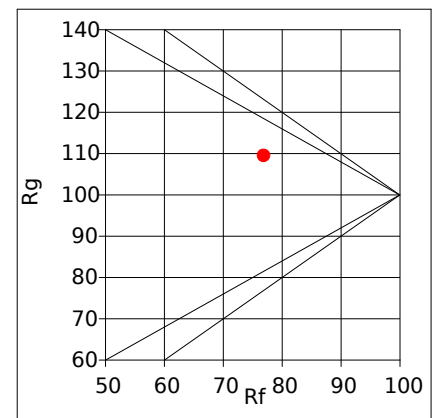
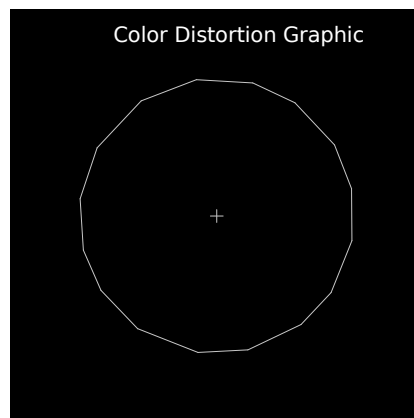
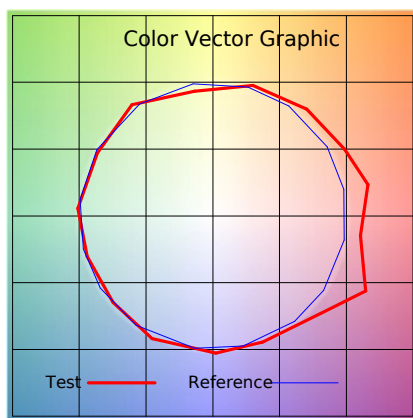
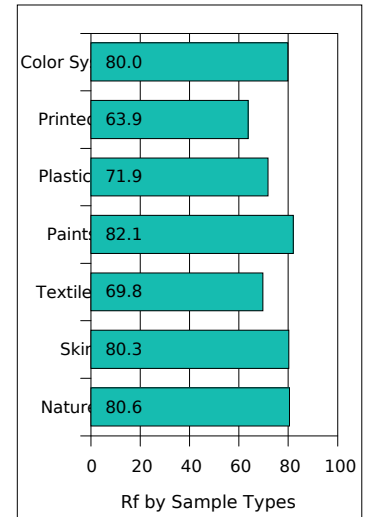
Remark :

Rf: 76.9 CCT(K): 25455 u': 0.1811

Rg: 109.5 LER: 240.5 Duv: 0.0018 v': 0.2745



Hue Bin	Graphic Shifts (%)		
	Rf	Chroma	Hue
1	63.7	18.4%	0.0%
2	72.9	9.9%	-8.6%
3	75.2	5.5%	-12.4%
4	85.3	1.9%	-3.6%
5	78.1	-5.8%	0.1%
6	84.9	2.9%	5.0%
7	74.1	-1.8%	1.6%
8	86.1	0.4%	7.1%
9	85.3	-1.8%	5.9%
10	80.6	-1.8%	14.3%
11	66.7	1.6%	15.4%
12	79.5	0.6%	16.1%
13	75.3	-0.0%	14.6%
14	65.4	5.9%	19.5%
15	63.9	26.3%	16.8%
16	71.3	11.4%	5.6%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 RGB

Manufacturer : -

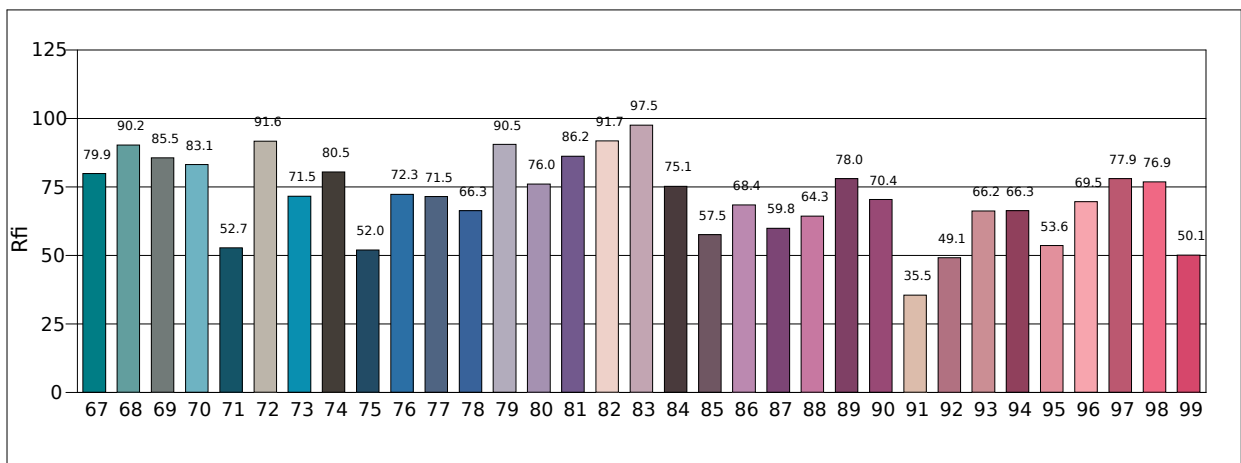
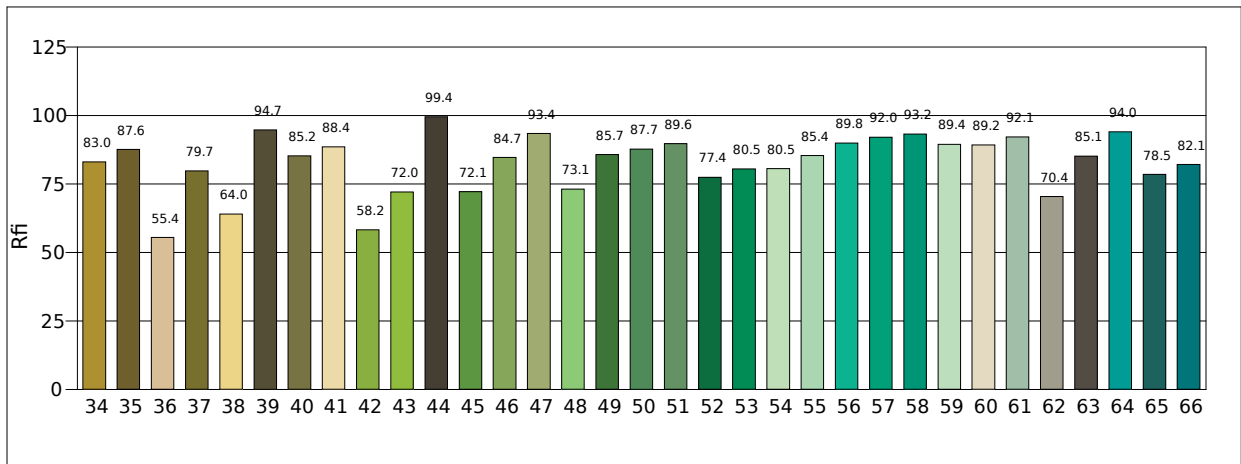
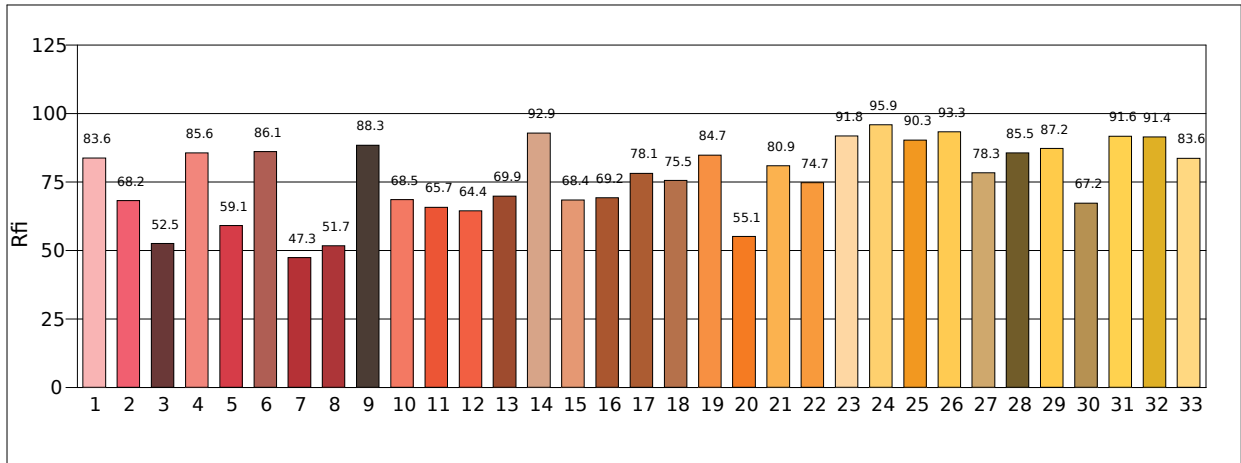
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 WN

Manufacturer : -

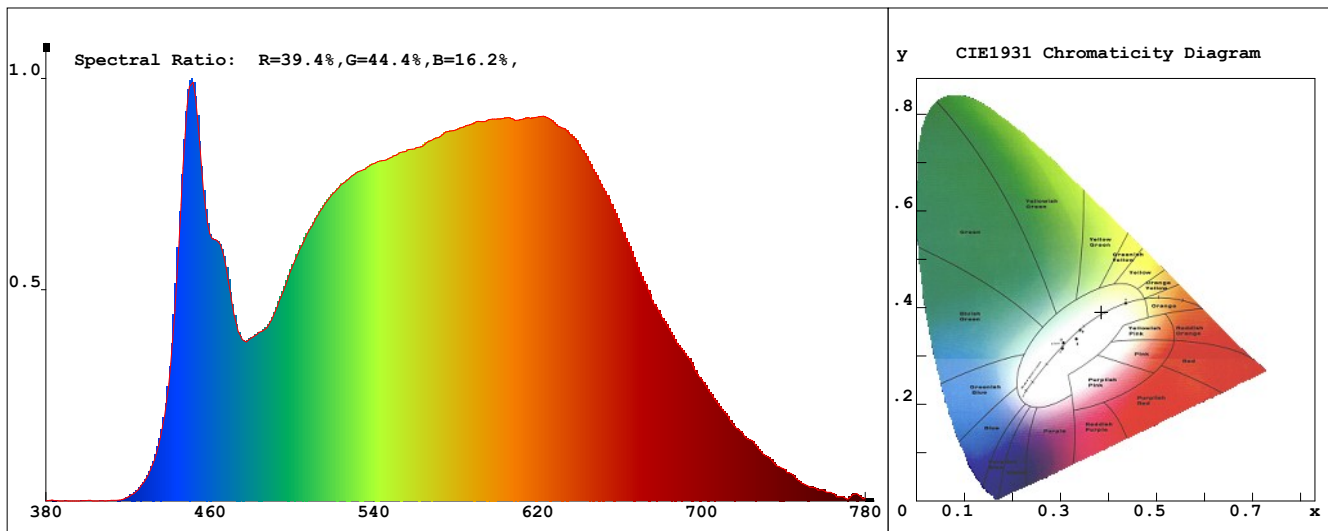
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.3848 y=0.3901 u=0.2227 v=0.3386 duv=0.0049

CCT: 3982K Dominant Wave.:576.8nm Purity:32.6% Centre Wave:455.6nm

Flux RGB Ratio:R=18.5%,G=78.9%,B=2.6% Peak Wave:450.6nm Half Width:26.3nm

Rendering Index:Ra= 91.0 CRI= 87.4

R1 =90 R2 =93 R3 =96 R4 =91 R5 =90 R6 =91 R7 =94 R8 =83

R9 =58 R10=84 R11=91 R12=67 R13=91 R14=97 R15=86

PPF:1.859umol/s (400-700nm)

PRF:0.4mW(400-700nm)

PAR:0.3mW(400-700nm)

Photo Parameters

Flux:129.55lm Effi.:52.9lm/W Radiant:406.8mW Iv:0.0mcd

Scotopic Flux:228.2Plm Effi.:0.0Plm/W S/P:1.8

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:1954.500umol/s (380-780nm)

Ele. Parameters

Forward Current:If=129.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=19.00V

Reverse Current:Ir=0.00uA

Power:P=2.471W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 1000.000ms

VPeak: 10600

VDark: 1352

Scan Range: 380-780nm

Product ID: 201508924

www.orizzonteled.com

IES TM-30-2015 Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 WN

Manufacturer : -

Temperature : 'C

Humidity : -%

Operator : -

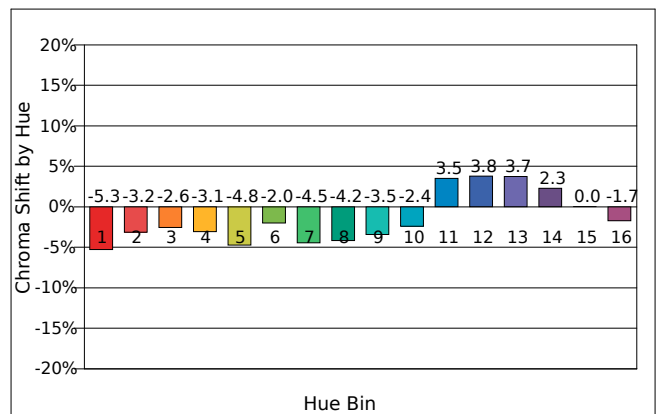
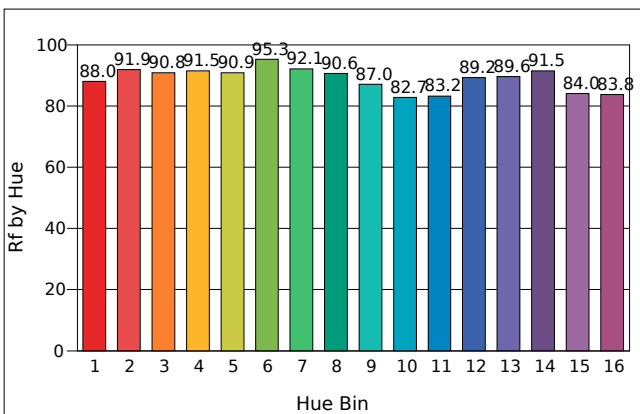
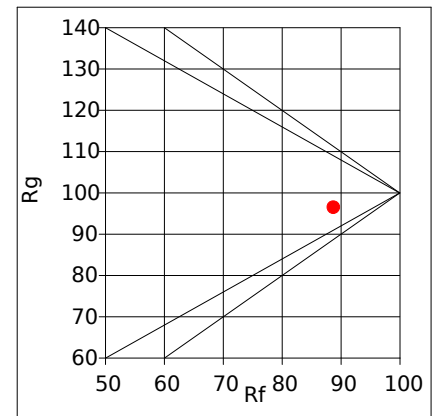
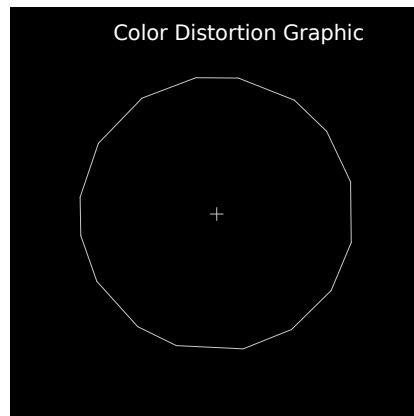
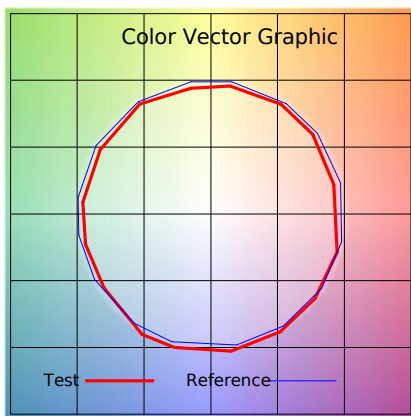
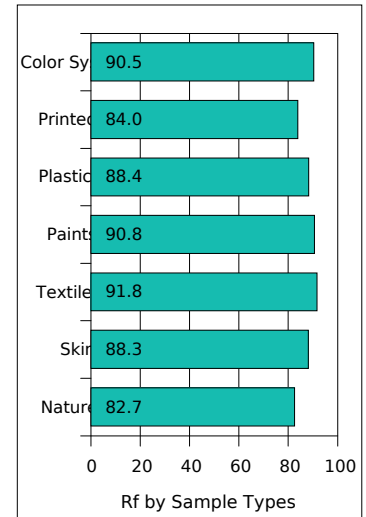
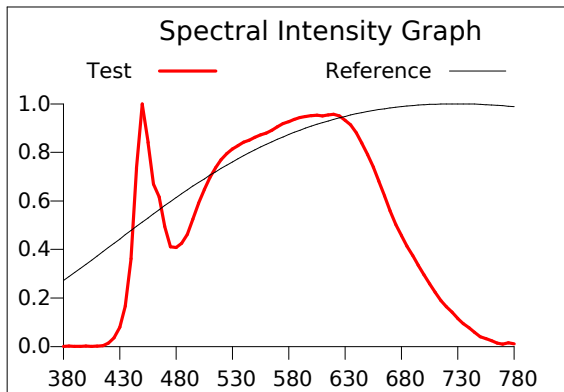
Test Date : 2025-03-20

Remark :

Rf: 88.7 CCT(K): 3982 u': 0.2227

Rg: 96.5 LER: 304.0 Duv: 0.0049 v': 0.3386

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	88.0	-5.3%	-0.1%
2	91.9	-3.2%	1.4%
3	90.8	-2.6%	3.0%
4	91.5	-3.1%	0.6%
5	90.9	-4.8%	0.6%
6	95.3	-2.0%	-0.0%
7	92.1	-4.5%	1.0%
8	90.6	-4.2%	2.8%
9	87.0	-3.5%	7.8%
10	82.7	-2.4%	9.5%
11	83.2	3.5%	9.6%
12	89.2	3.8%	2.9%
13	89.6	3.7%	-4.8%
14	91.5	2.3%	-4.3%
15	84.0	0.0%	-9.2%
16	83.8	-1.7%	-8.2%



IES TM-30-2015 Test Report

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Product Type : ORCoR400-F52-7840R2 WN

Manufacturer : -

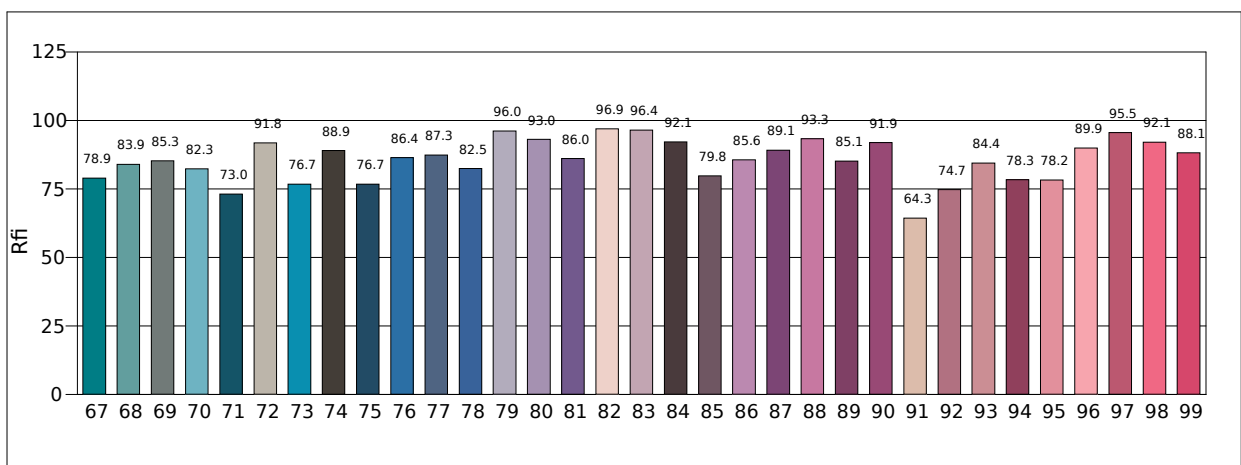
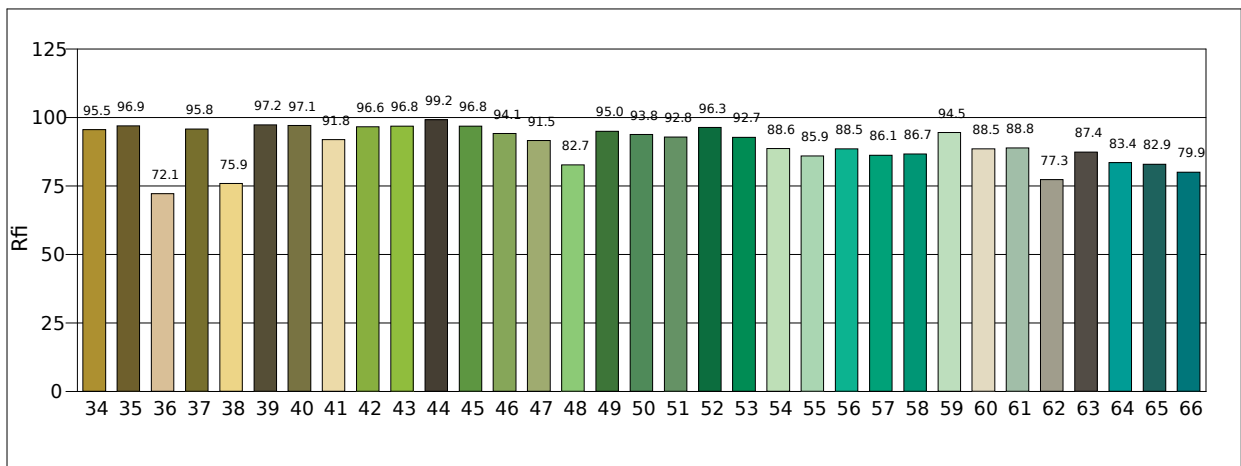
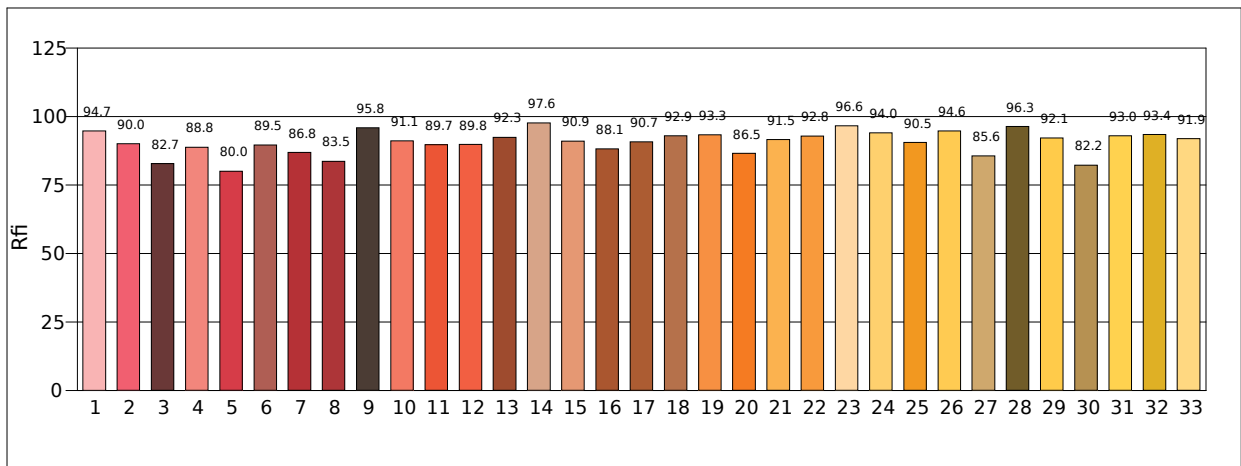
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 B

Manufacturer : -

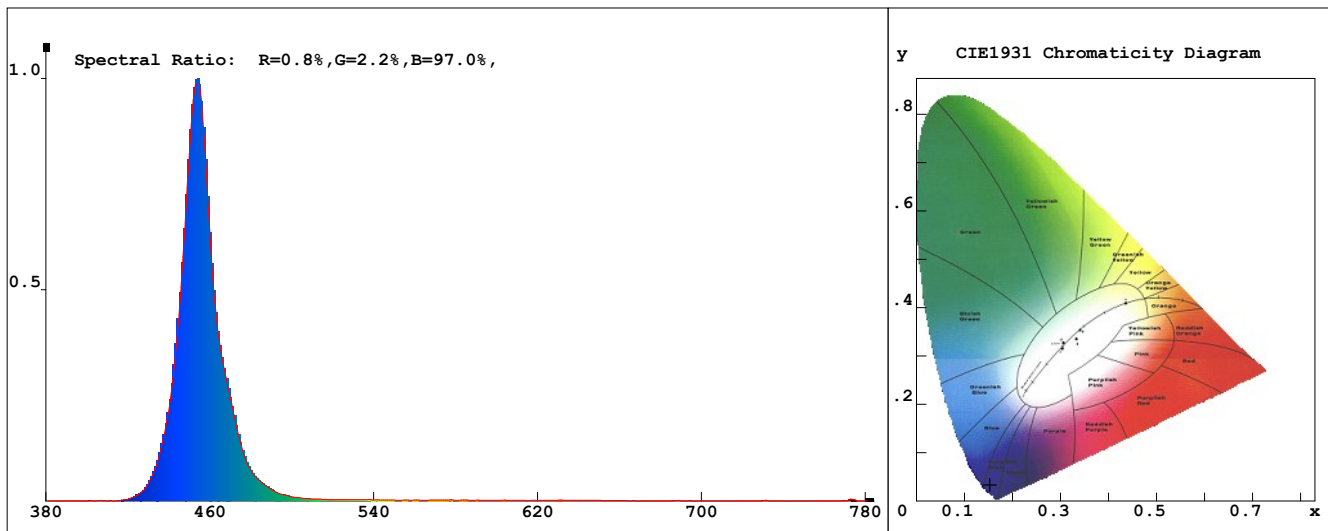
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.1527 y=0.0332 u=0.1975 v=0.0644 duv=-0.0663

CCT:100000K Dominant Wave.:457.2nm Purity:97.5% Centre Wave:452.9nm

Flux RGB Ratio:R=2.5%,G=20.1%,B=77.4% Peak Wave:452.8nm Half Width:16.1nm

Rendering Index:Ra=-50.5 CRI=102.6

R1 =19 R2 =-38 R3 =-165 R4 =-98 R5 =26 R6 =-44 R7 =-61 R8 =-43

R9 =-176 R10=-232 R11=-119 R12=-99 R13=-0 R14=-37 R15=28

PPF:2.243umol/s (400-700nm)

PRF:0.6mW (400-700nm)

PAR:0.4mW (400-700nm)

Photo Parameters

Flux:31.82lm Effi.:12.0lm/W Radiant:588.0mW Iv:0.0mcd

Scotopic Flux:614.0Plm Effi.:0.0Plm/W S/P:19.3

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:2249.940umol/s (380-780nm)

Ele. Parameters

Forward Current:If=140.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=19.00V

Reverse Current:Ir=0.00uA

Power:P=2.671W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 100.000ms

VPeak: 13336

VDark: 1314

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 B

Manufacturer : -

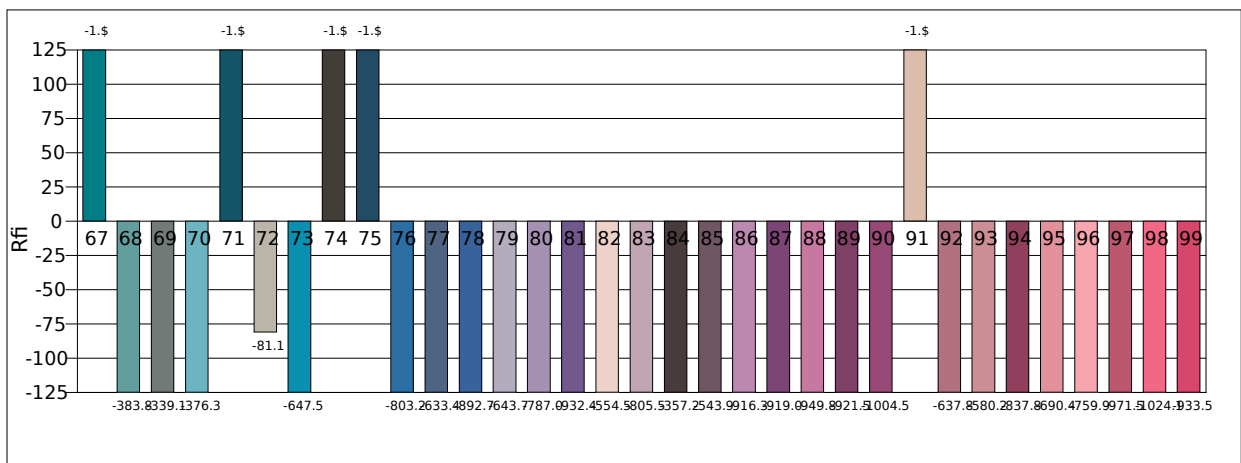
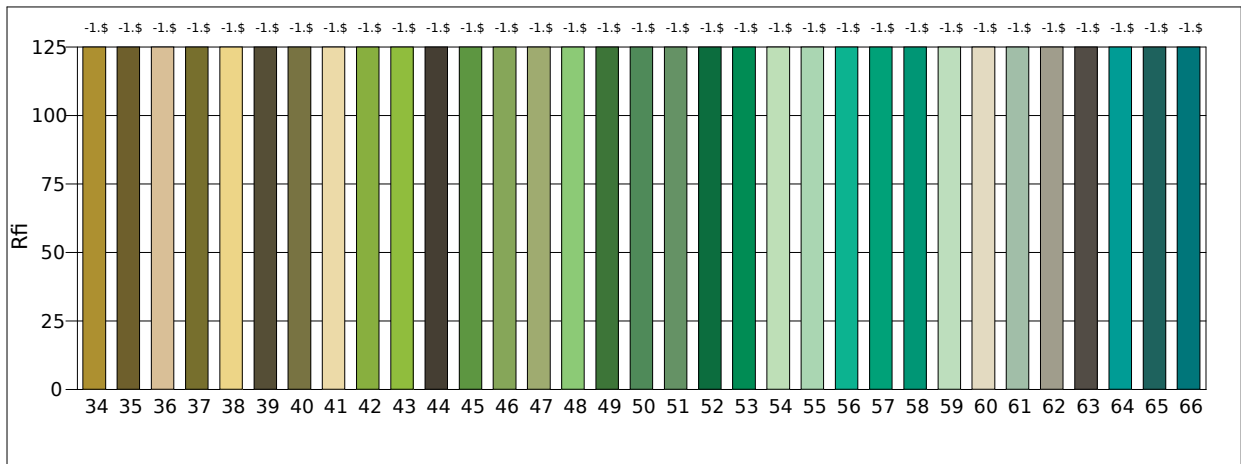
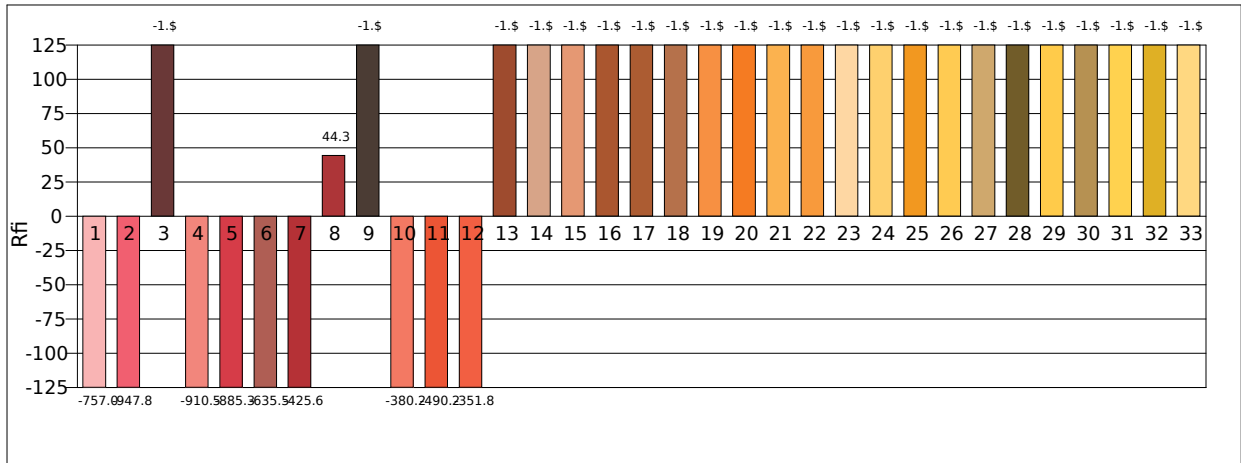
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 G

Manufacturer : -

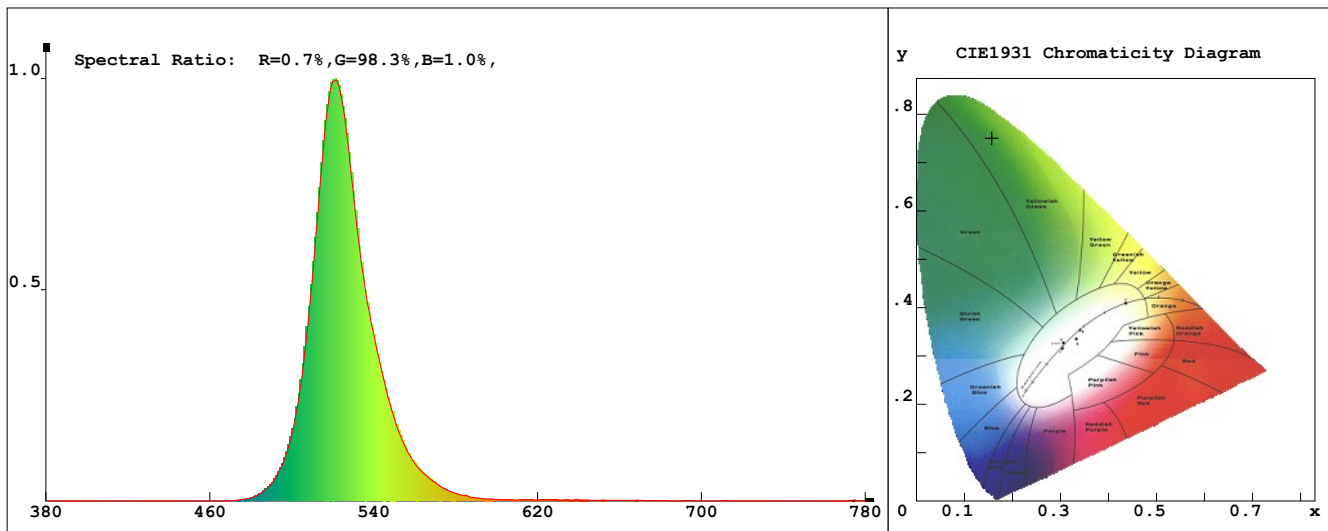
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.1572 y=0.7504 u=0.0538 v=0.3851 duv=0.1638

CCT: 7928K Dominant Wave.:526.7nm Purity:85.7% Centre Wave:521.8nm

Flux RGB Ratio:R=0.2%,G=99.5%,B=0.2% Peak Wave:519.6nm Half Width:26.3nm

Rendering Index:Ra=-33.0 CRI=107.7

R1 =-38 R2 =-19 R3 =-41 R4 =-75 R5 =-13 R6 =-25 R7 =-17 R8 =-36

R9 =-358 R10=-129 R11=-106 R12=-46 R13=-46 R14=29 R15=-34

PPF:3.403umol/s (400-700nm)

PRF:0.8mW (400-700nm)

PAR:0.6mW (400-700nm)

Photo Parameters

Flux:424.50lm Effi.:83.1lm/W Radiant:775.1mW Iv:0.0mcd

Scotopic Flux:1197.7Plm Effi.:0.0Plm/W S/P:2.8

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:3406.660umol/s (380-780nm)

Ele. Parameters

Forward Current:If=269.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=19.00V

Reverse Current:Ir=0.00uA

Power:P=5.110W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 100.000ms

VPeak: 13016

VDark: 1209

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 G

Manufacturer : -

Temperature : 'C

Humidity : -%

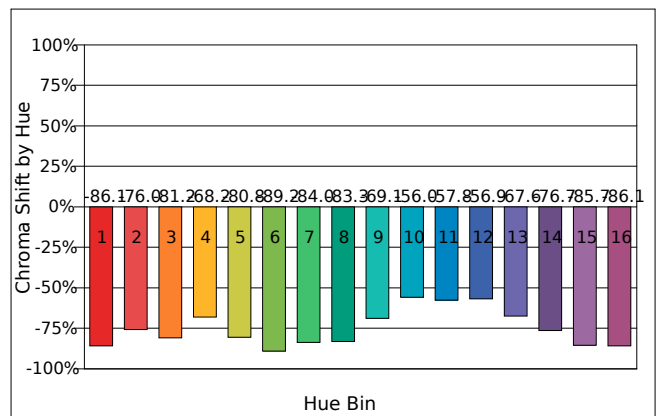
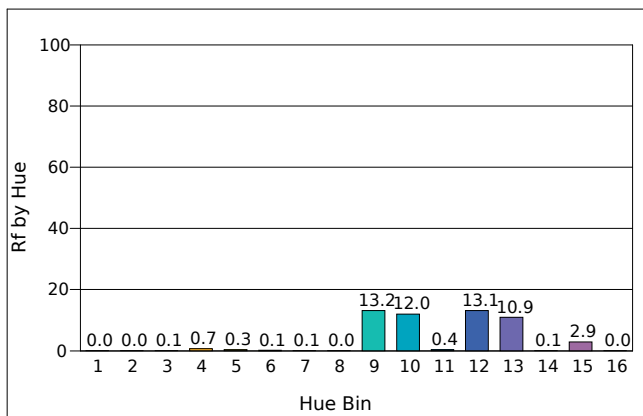
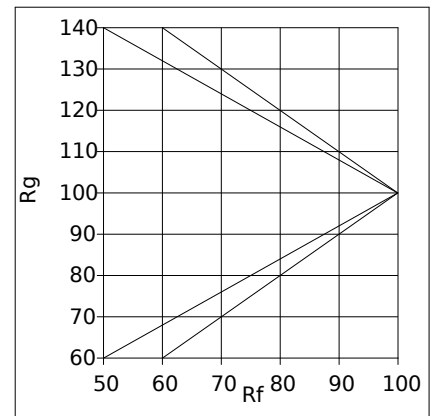
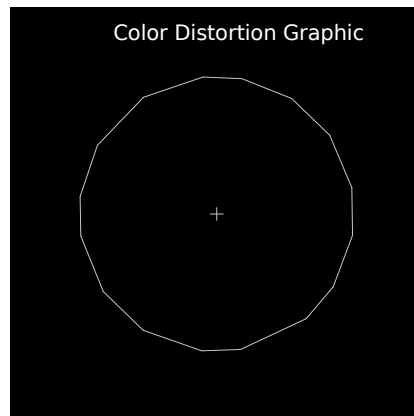
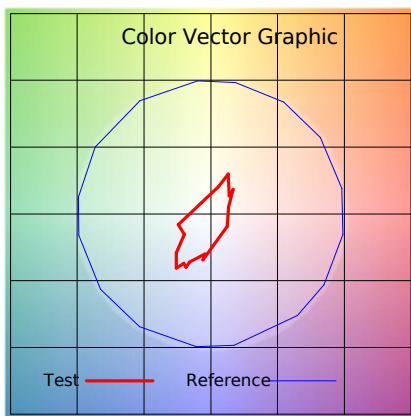
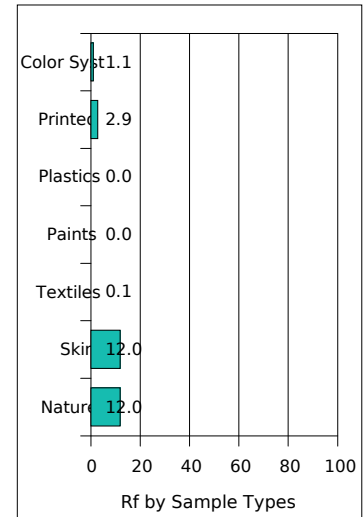
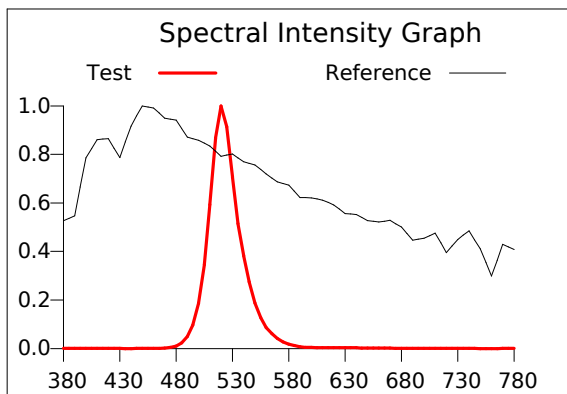
Operator : -

Test Date : 2025-03-20

Remark :

Rf: 0.3 CCT(K): 7928 u': 0.0538
 Rg: 4.4 LER: 496.1 Duv: 0.1638 v': 0.3851

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-86.1%	2.6%
2	0.0	-76.0%	4.0%
3	0.1	-81.2%	-5.1%
4	0.7	-68.2%	-8.3%
5	0.3	-80.8%	0.2%
6	0.1	-89.2%	4.5%
7	0.1	-84.0%	13.5%
8	0.0	-83.3%	11.7%
9	13.2	-69.1%	27.3%
10	12.0	-56.0%	18.3%
11	0.4	-57.8%	1.2%
12	13.1	-56.9%	-19.1%
13	10.9	-67.6%	-20.5%
14	0.1	-76.7%	-32.1%
15	2.9	-85.7%	-34.8%
16	0.0	-86.1%	-10.7%



IES TM-30-2015 Test Report

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Manufacturer : -

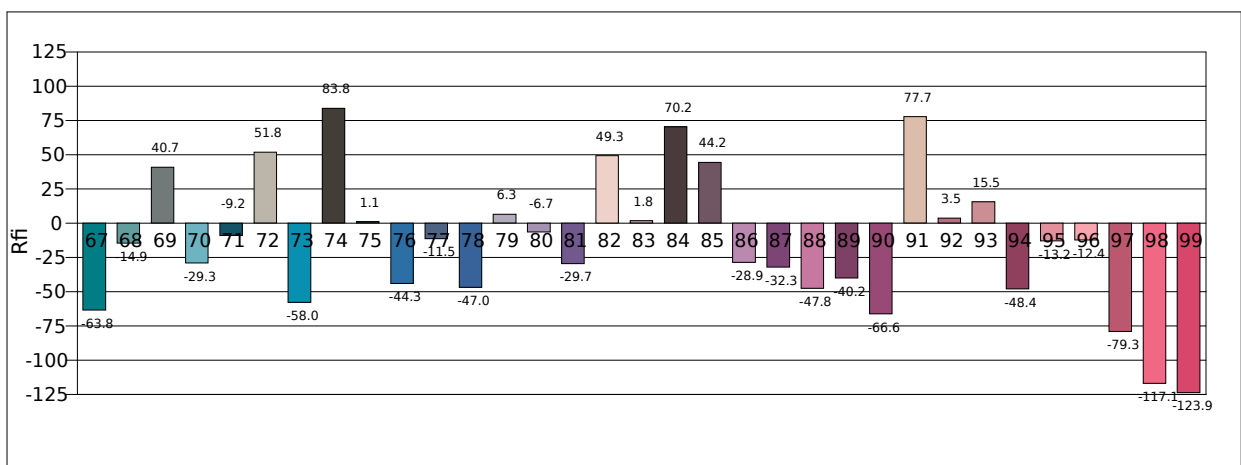
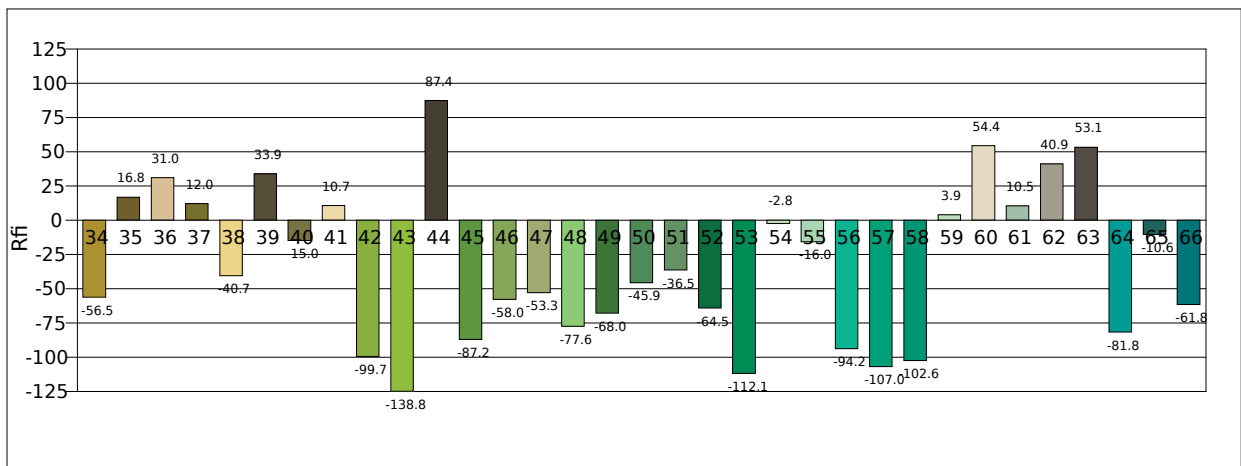
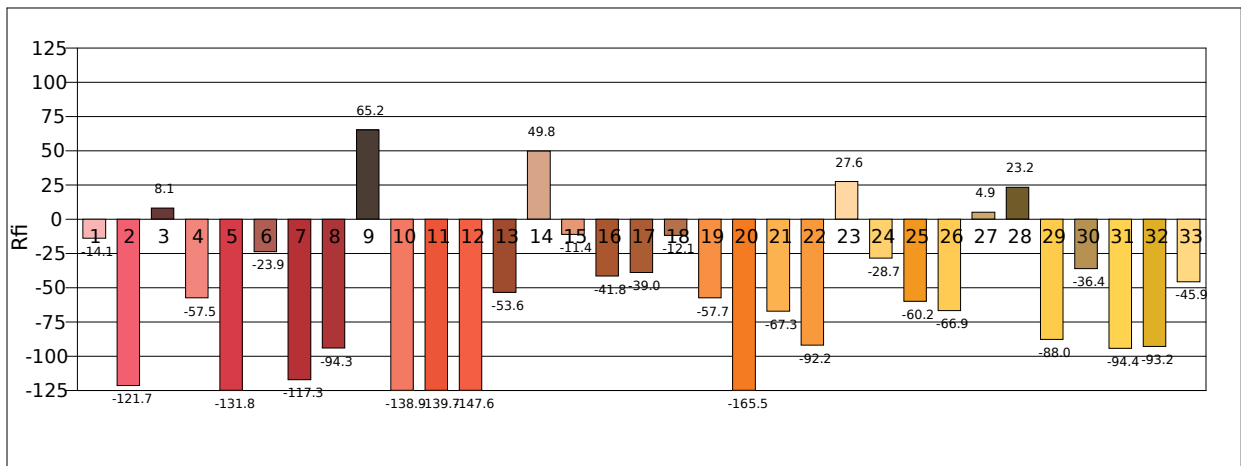
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 R

Manufacturer : -

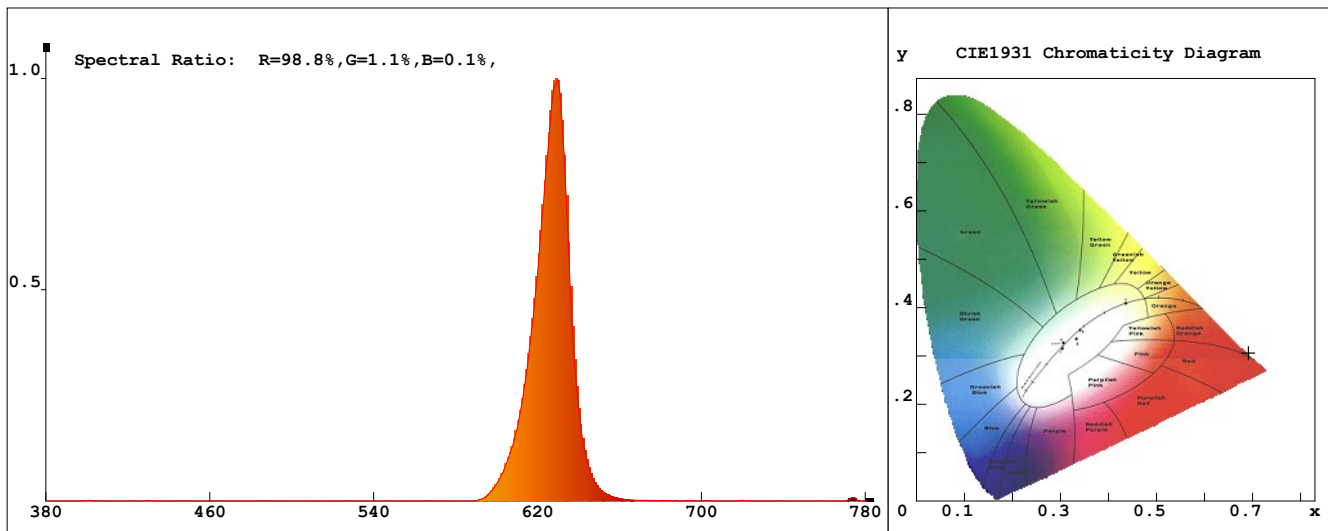
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark:



Chroma Parameters

Chro.Coord.:x=0.6918 y=0.3060 u=0.5232 v=0.3472 duv=-0.0010

CCT: 1331K Dominant Wave.:621.3nm Purity:99.4% Centre Wave:626.7nm

Flux RGB Ratio:R=97.6%,G=2.4%,B=0.0% Peak Wave:628.6nm Half Width:17.0nm

Rendering Index:Ra=-19.9 CRI=103.3

R1 =-44 R2 =55 R3 =9 R4 =-75 R5 =-40 R6 =54 R7 =-9 R8 =-109

R9 =-339 R10=42 R11=-87 R12=24 R13=-17 R14=39 R15=-80

PPF:1.410umol/s (400-700nm)

PRF:0.3mW (400-700nm)

PAR:0.3mW (400-700nm)

Photo Parameters

Flux:57.29lm Effi.:16.3lm/W Radiant:270.5mW Iv:0.0mcd

Scotopic Flux:3.0Plm Effi.:0.0Plm/W S/P:0.1

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:1415.150umol/s (380-780nm)

Ele. Parameters

Forward Current:If=185.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=19.00V

Reverse Current:Ir=0.00uA

Power:P=3.530W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 223.653ms

VPeak: 13688

VDark: 1341

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 R

Manufacturer : -

Temperature : 'C

Humidity : -%

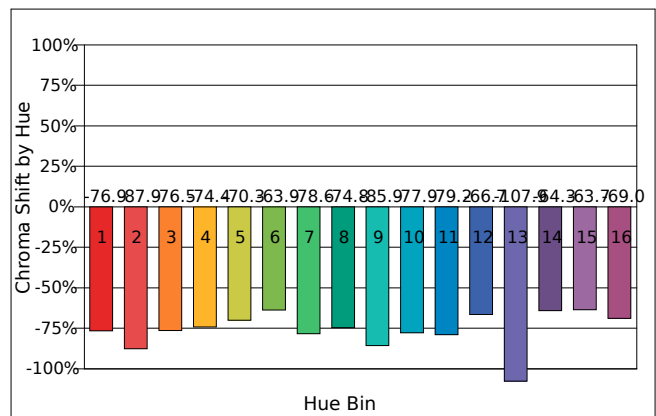
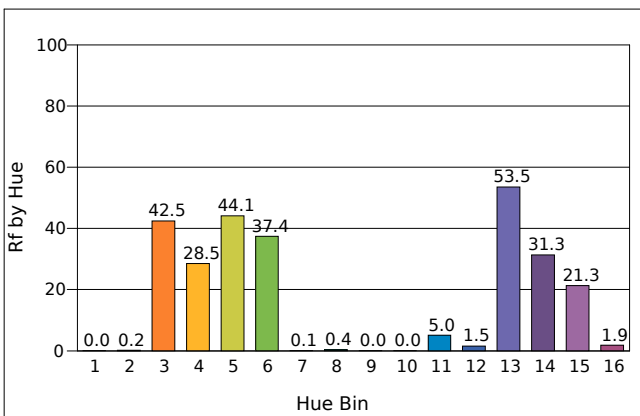
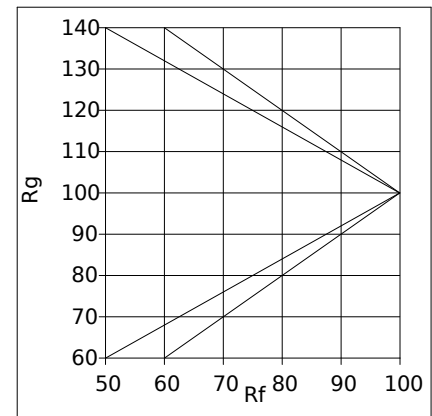
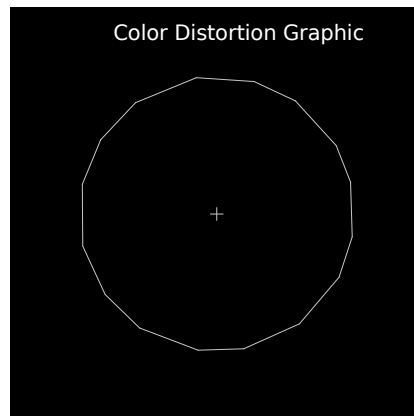
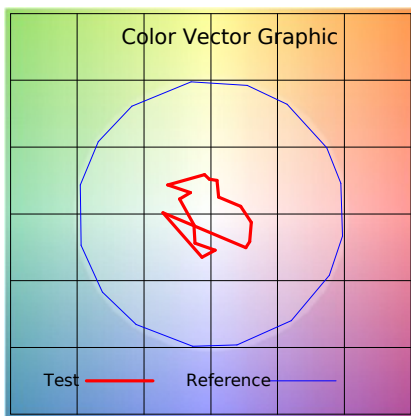
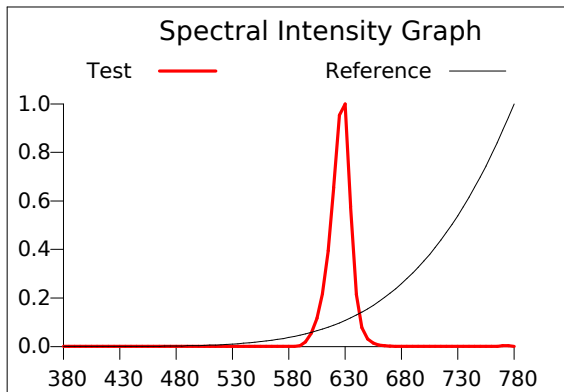
Operator : -

Test Date : 2025-03-20

Remark :

Rf: 1.4 CCT(K): 1331 u': 0.5232
 Rg: 5.1 LER: 218.9 Duv: -0.0010 v': 0.3472

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-76.9%	-2.3%
2	0.2	-87.9%	14.2%
3	42.5	-76.5%	11.9%
4	28.5	-74.4%	14.1%
5	44.1	-70.3%	3.6%
6	37.4	-63.9%	10.5%
7	0.1	-78.6%	-6.7%
8	0.4	-74.8%	-4.2%
9	0.0	-85.9%	1.7%
10	0.0	-77.9%	8.0%
11	5.0	-79.2%	18.4%
12	1.5	-66.7%	-6.1%
13	53.5	-107.9%	-35.2%
14	31.3	-64.3%	2.2%
15	21.3	-63.7%	-12.3%
16	1.9	-69.0%	-3.1%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORCoR400-F52-7840R2 R

Manufacturer : -

Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :

