

LED Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 RGB

Manufacturer : -

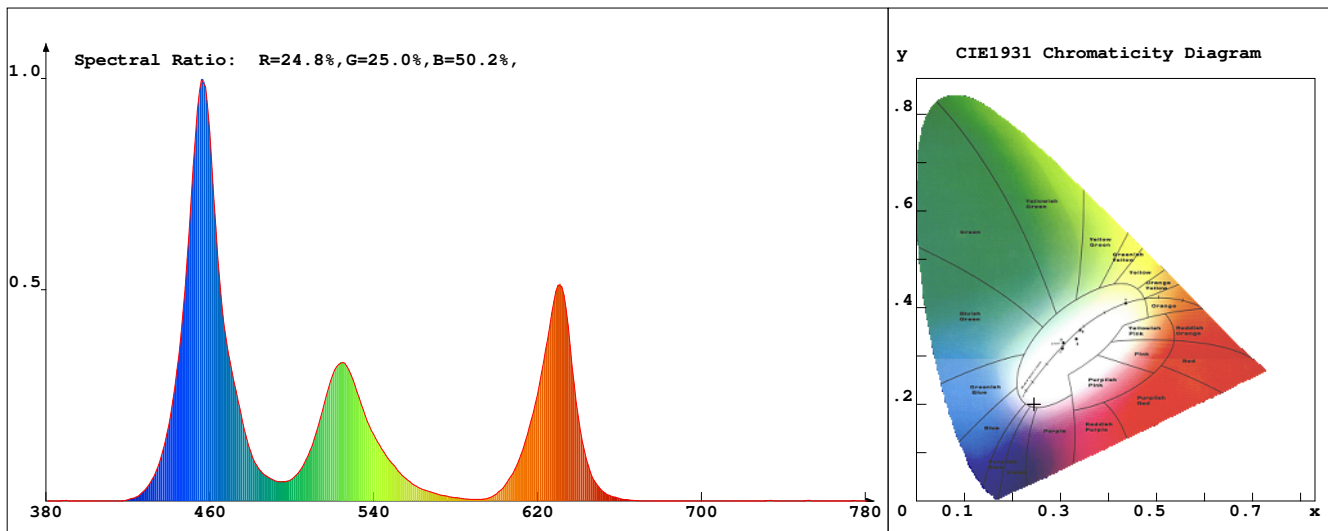
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



Chroma Parameters

Chro.Coord.:x=0.2448 y=0.2001 u=0.1993 v=0.2444 duv=-0.0235

CCT:100000K Dominant Wave.:464.2nm Purity:45.1% Centre Wave:455.5nm

Flux RGB Ratio:R=25.4%,G=64.6%,B=10.0% Peak Wave:455.8nm Half Width:17.3nm

Rendering Index:Ra= 39.2 CRI= 82.0

R1 =11 R2 =56 R3 =70 R4 =27 R5 =36 R6 =57 R7 =68 R8 =-13

R9 =-270 R10=13 R11=8 R12=56 R13=18 R14=74 R15=-16

PPF:9.016umol/s (400-700nm)

PRF:2.1mW (400-700nm)

PAR:1.7mW (400-700nm)

Photo Parameters

Flux:449.46lm Effi.:32.1lm/W Radiant:2088.0mW Iv:0.0mcd

Scotopic Flux:1783.8Plm Effi.:0.0Plm/W S/P:4.0

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:9022.420umol/s (380-780nm)

Ele. Parameters

Forward Current:If=589.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.77V

Reverse Current:Ir=0.00uA

Power:P=14.001W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 62.082ms

VPeak: 13976

VDark: 1310

Scan Range: 380-780nm

Product ID: 201508924

www.orizzonteled.com

IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 RGB

Temperature : 'C

Operator : -

Remark :

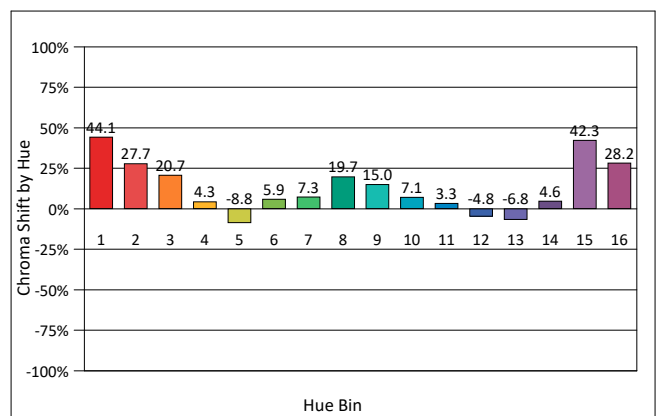
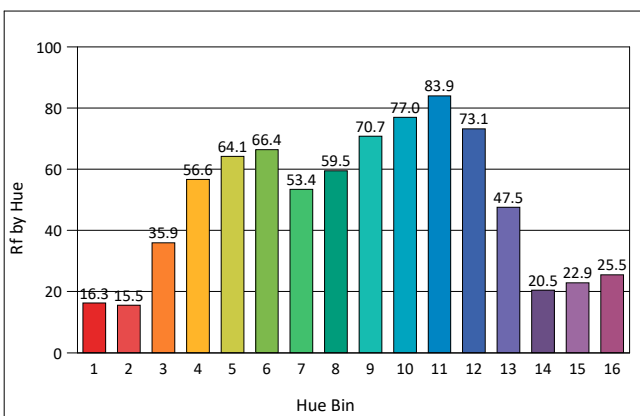
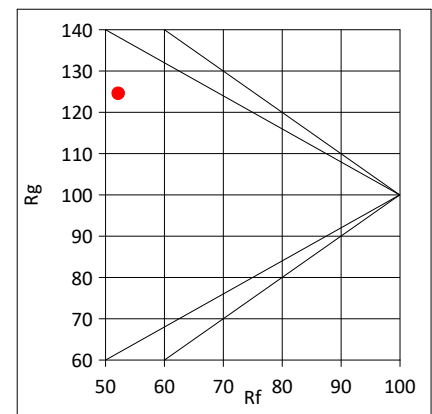
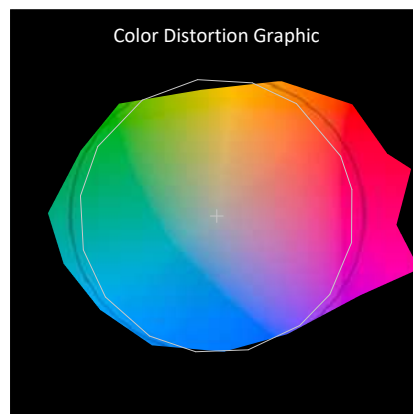
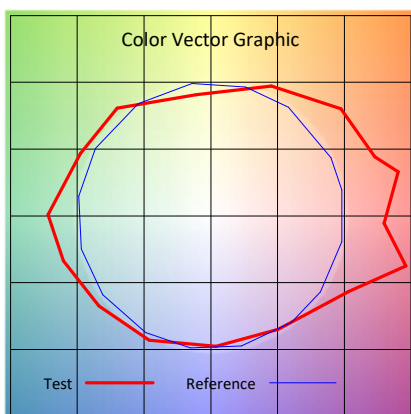
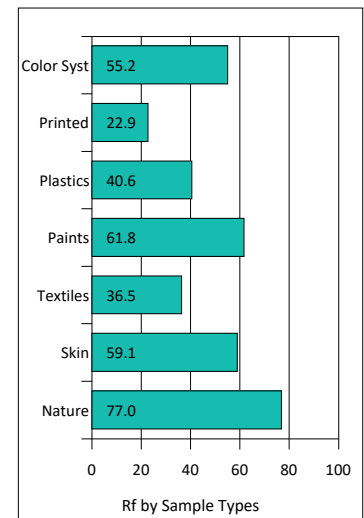
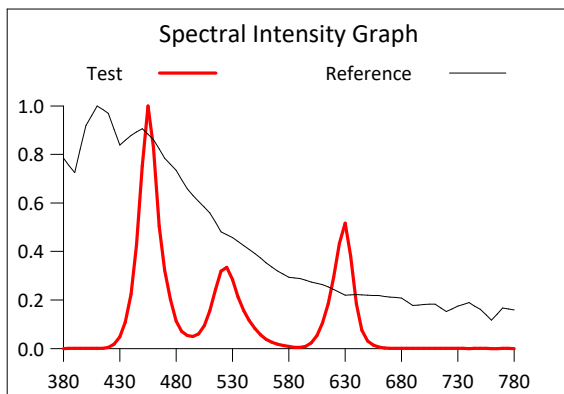
Manufacturer : -

Humidity : -%

Test Date : 2025-03-20

Rf: 52.2 CCT(K): 100000 u': 0.1993
Rg: 124.5 LER: 199.9 Duv: -0.0235 v': 0.2444

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	16.3	44.1%	5.3%
2	15.5	27.7%	-17.6%
3	35.9	20.7%	-33.5%
4	56.6	4.3%	-19.0%
5	64.1	-8.8%	-1.4%
6	66.4	5.9%	15.1%
7	53.4	7.3%	9.5%
8	59.5	19.7%	17.9%
9	70.7	15.0%	6.1%
10	77.0	7.1%	5.3%
11	83.9	3.3%	5.4%
12	73.1	-4.8%	18.7%
13	47.5	-6.8%	29.3%
14	20.5	4.6%	48.3%
15	22.9	42.3%	51.8%
16	25.5	28.2%	19.7%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 RGB

Manufacturer : -

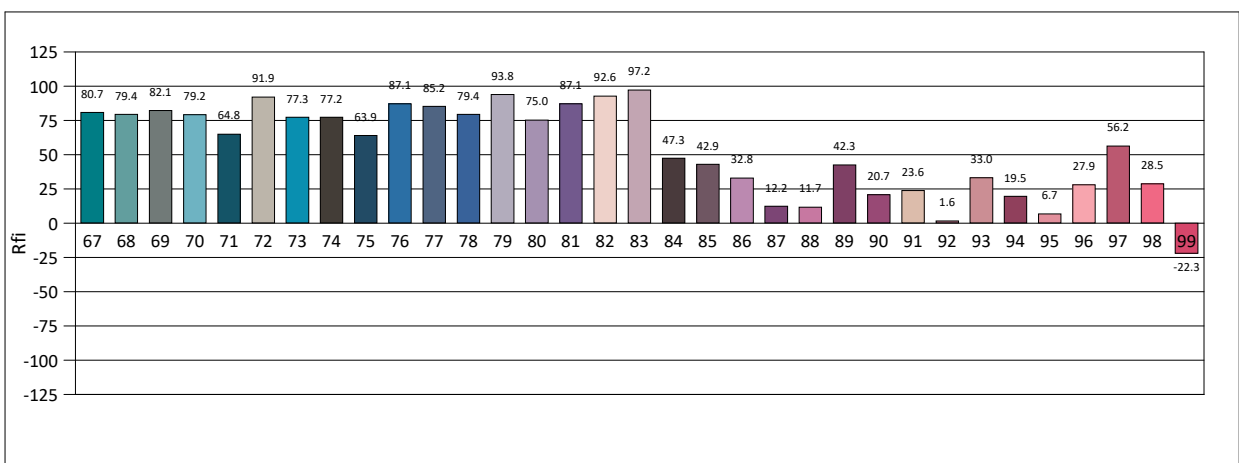
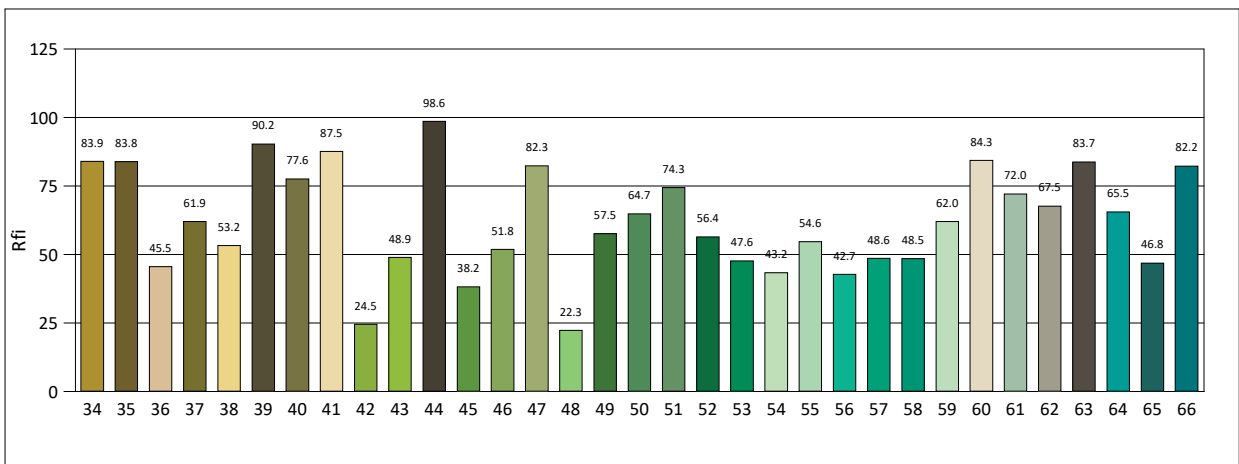
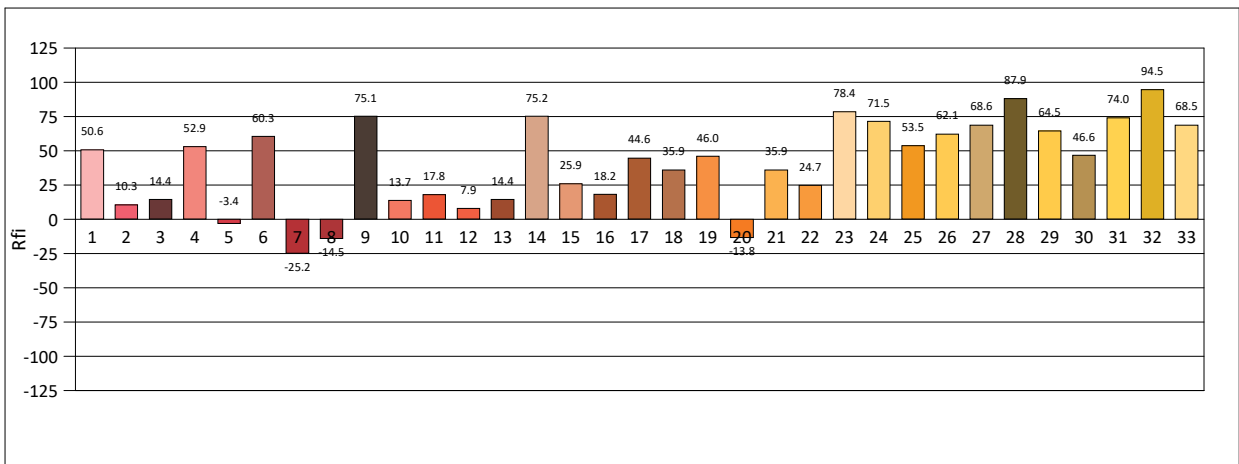
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 R

Manufacturer : -

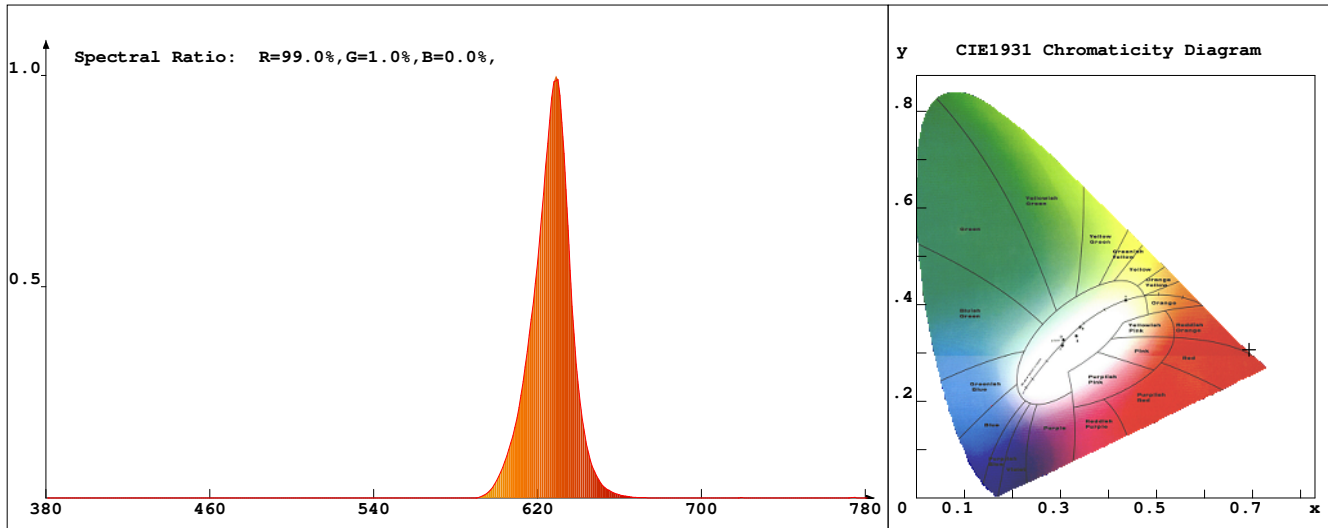
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



Chroma Parameters

Chro.Coord.:x=0.6927 y=0.3069 u=0.5230 v=0.3476 duv=-0.0006

CCT: 1330K Dominant Wave.:620.7nm Purity:99.9% Centre Wave:626.6nm

Flux RGB Ratio:R=97.9%,G=2.1%,B=0.0% Peak Wave:627.5nm Half Width:17.8nm

Rendering Index:Ra=-20.0 CRI=102.7

R1 =-41 R2 =59 R3 =4 R4 =-79 R5 =-44 R6 =52 R7 =-6 R8 =-105

R9 =-335 R10=48 R11=-90 R12=25 R13=-12 R14=36 R15=-77

PPF:2.941umol/s (400-700nm)

PRF:0.6mW (400-700nm)

PAR:0.6mW (400-700nm)

Photo Parameters

Flux:120.07lm Effi.:17.7lm/W Radiant:562.8mW Iv:0.0mcd

Scotopic Flux:6.1Plm Effi.:0.0Plm/W S/P:0.1

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:2943.580umol/s (380-780nm)

Ele. Parameters

Forward Current:If=286.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.77V

Reverse Current:Ir=0.00uA

Power:P=6.801W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 107.888ms

VPeak: 13176

VDark: 1345

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 R

Temperature : 'C

Operator : -

Remark :

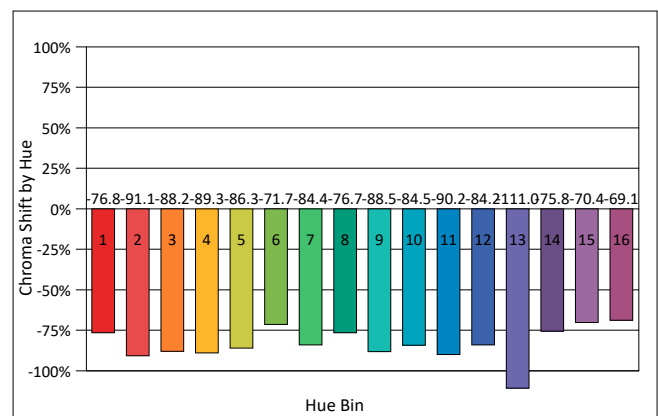
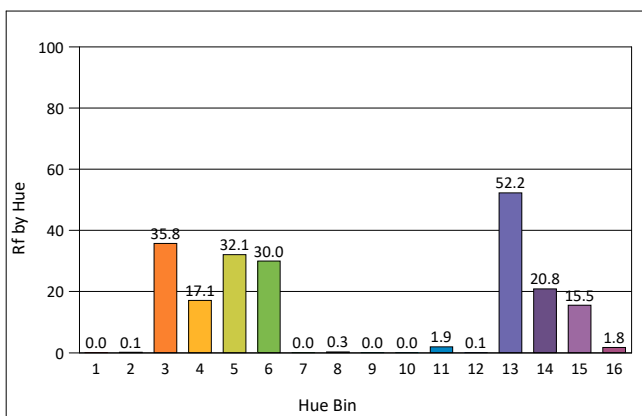
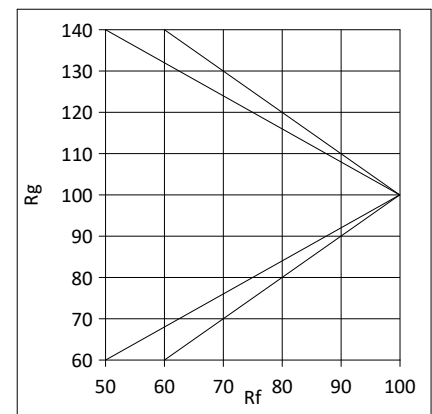
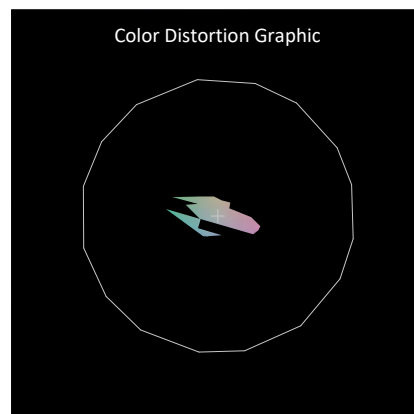
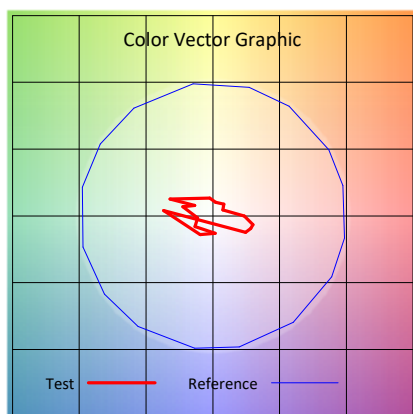
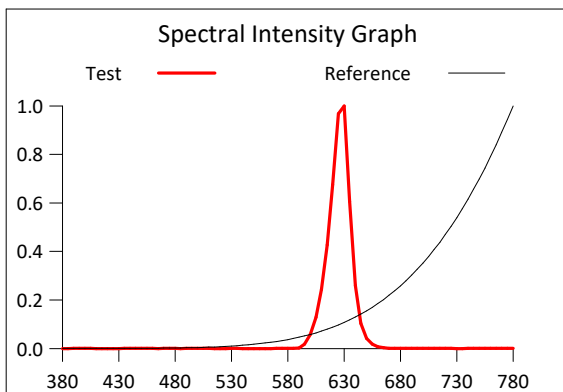
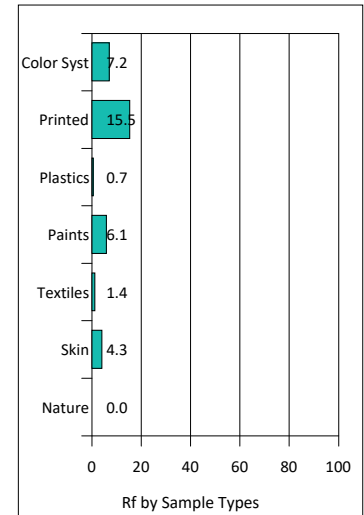
Manufacturer : -

Humidity : -%

Test Date : 2025-03-20

Rf: 0.7 CCT(K): 1330 u': 0.5230
Rg: 2.0 LER: 218.9 Duv: -0.0006 v': 0.3476

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-76.8%	-8.0%
2	0.1	-91.1%	6.6%
3	35.8	-88.2%	0.0%
4	17.1	-89.3%	8.0%
5	32.1	-86.3%	4.4%
6	30.0	-71.7%	15.4%
7	0.0	-84.4%	-0.9%
8	0.3	-76.7%	-0.3%
9	0.0	-88.5%	-4.6%
10	0.0	-84.5%	-4.3%
11	1.9	-90.2%	9.3%
12	0.1	-84.2%	-12.5%
13	52.2	-111.0%	-35.5%
14	20.8	-75.8%	7.8%
15	15.5	-70.4%	-3.4%
16	1.8	-69.1%	-3.4%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 R

Manufacturer : -

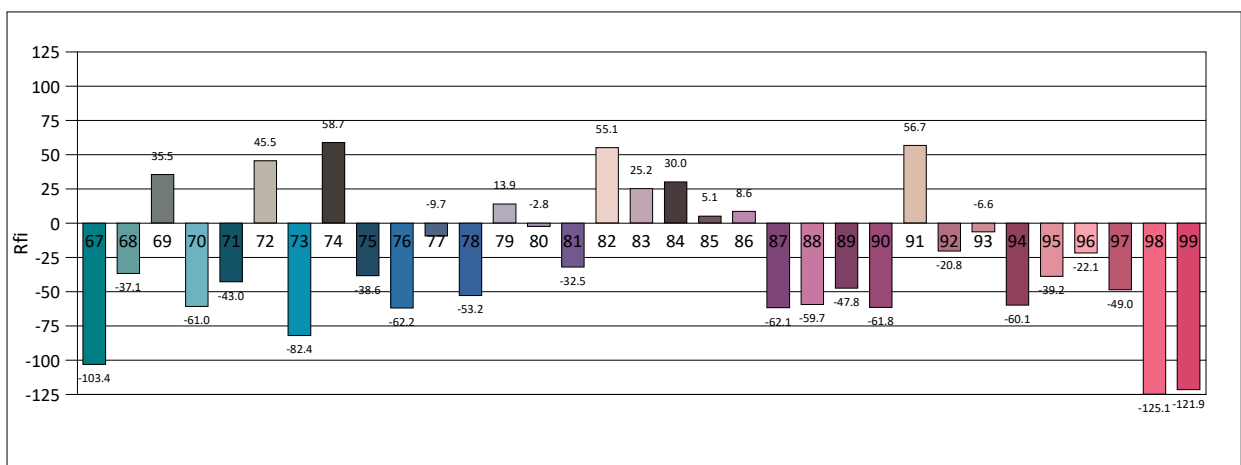
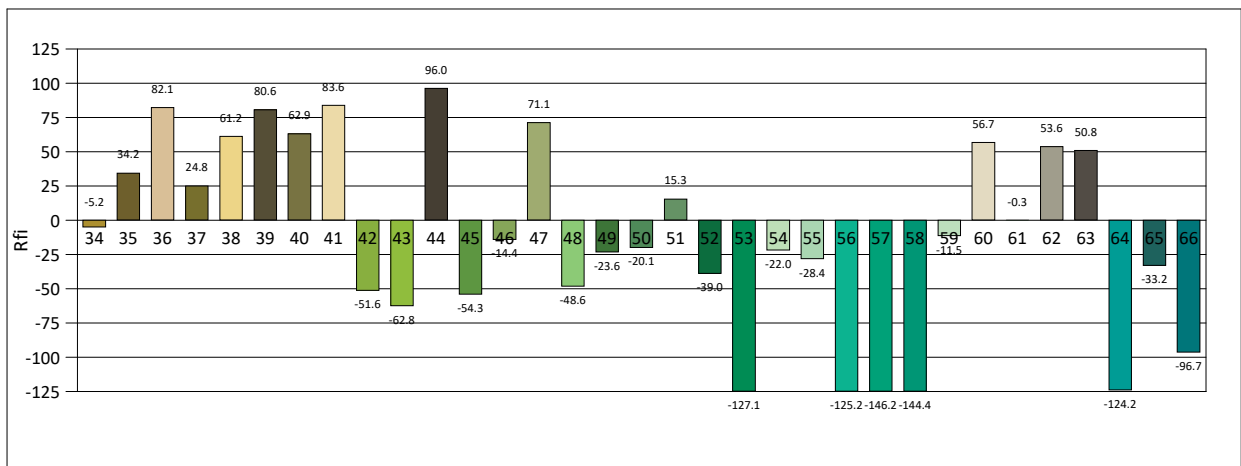
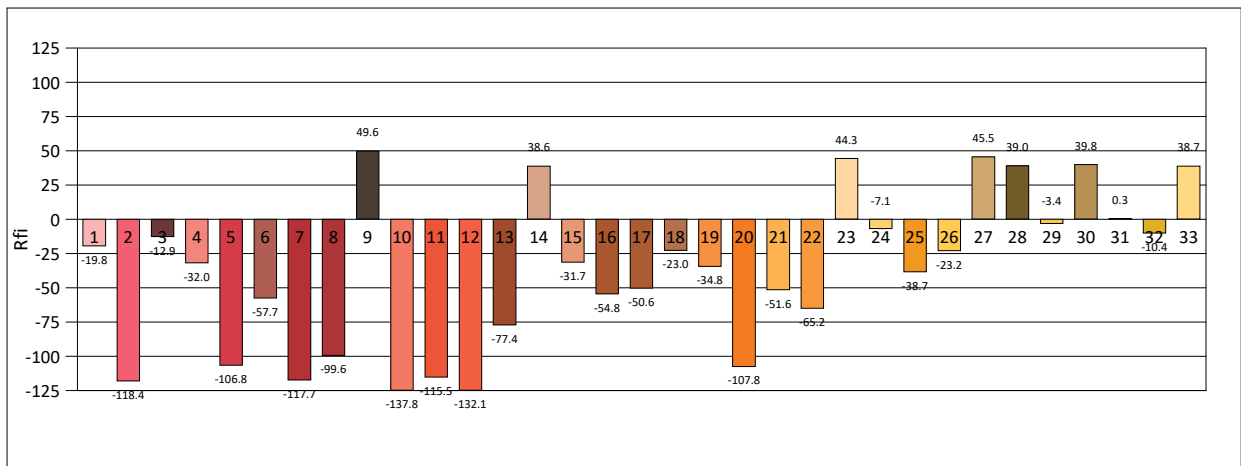
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORRGB-F52-840R2 G

Manufacturer : -

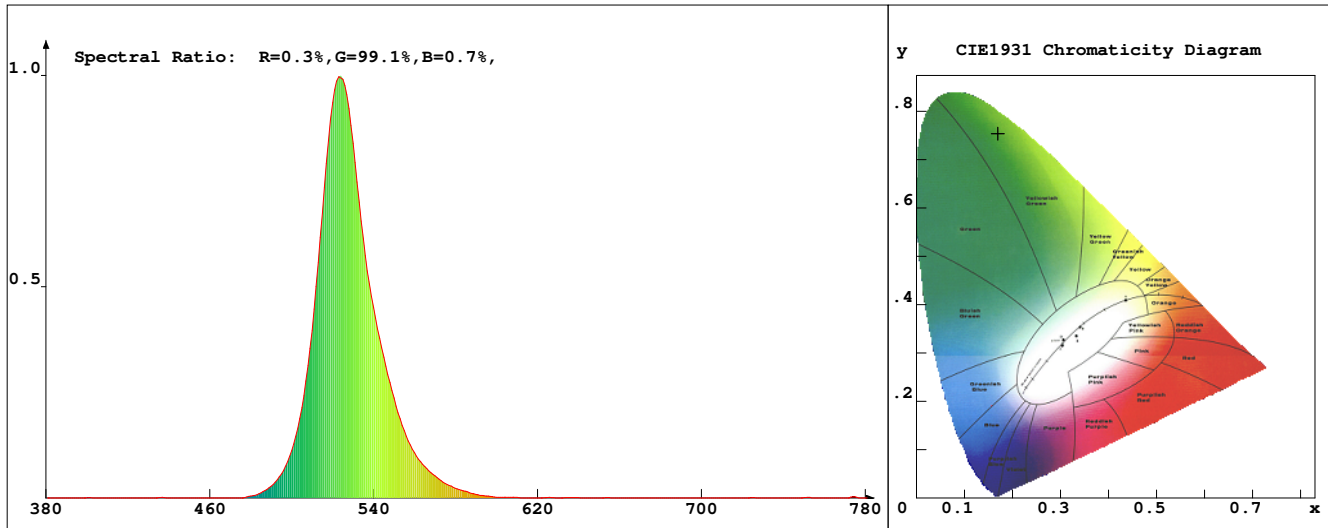
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



Chroma Parameters

Chro.Coord.:x=0.1696 y=0.7538 u=0.0580 v=0.3864 duv=0.1609

CCT: 7722K Dominant Wave.:529.1nm Purity:88.2% Centre Wave:524.1nm

Flux RGB Ratio:R=0.1%,G=99.8%,B=0.1% Peak Wave:522.6nm Half Width:26.1nm

Rendering Index:Ra=-34.5 CRI=111.1

R1 =-40 R2 =-20 R3 =-42 R4 =-75 R5 =-13 R6 =-26 R7 =-19 R8 =-40

R9 =-370 R10=-132 R11=-108 R12=-50 R13=-47 R14=28 R15=-36

PPF:2.366umol/s (400-700nm)

PRF:0.5mW (400-700nm)

PAR:0.4mW (400-700nm)

Photo Parameters

Flux:305.38lm Effi.:96.6lm/W Radiant:537.0mW Iv:0.0mcd

Scotopic Flux:803.8Plm Effi.:0.0Plm/W S/P:2.6

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:2368.250umol/s (380-780nm)

Ele. Parameters

Forward Current:If=133.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.77V

Reverse Current:Ir=0.00uA

Power:P=3.171W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 139.338ms

VPeak: 13272

VDark: 1357

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 G

Temperature : 'C

Operator : -

Remark :

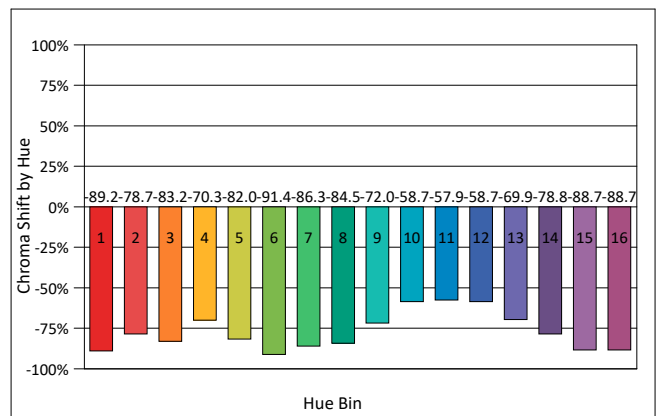
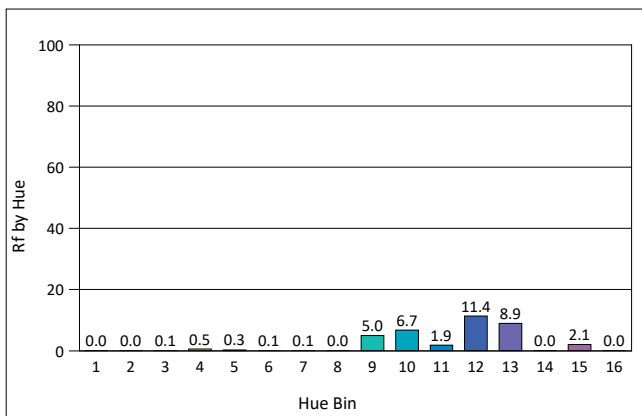
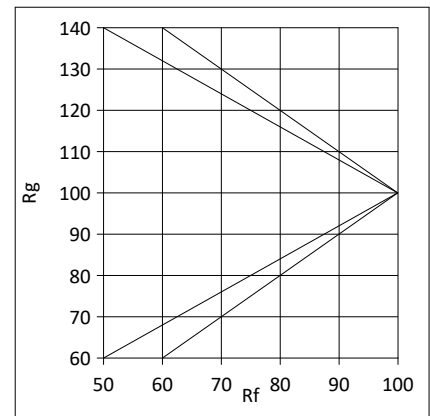
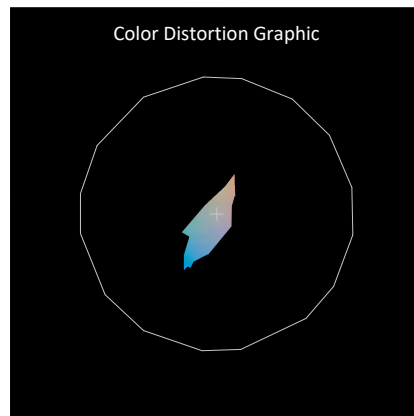
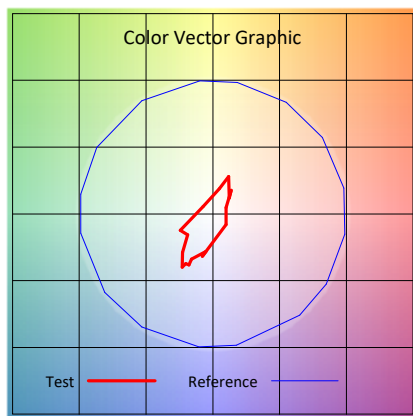
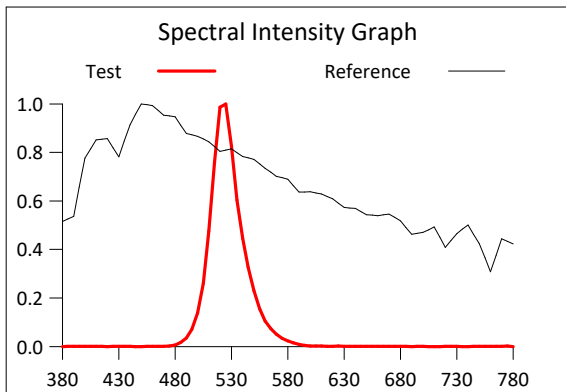
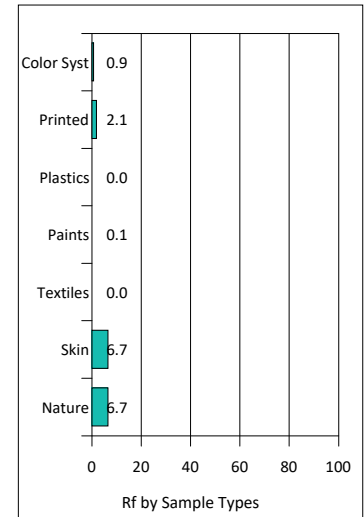
Manufacturer : -

Humidity : -%

Test Date : 2025-03-20

Rf: 0.2 CCT(K): 7722 u': 0.0580
 Rg: 3.4 LER: 519.6 Duv: 0.1609 v': 0.3864

Hue Bin	Rf	Graphic Shifts (%)	
		Chroma	Hue
1	0.0	-89.2%	3.0%
2	0.0	-78.7%	5.1%
3	0.1	-83.2%	-4.2%
4	0.5	-70.3%	-7.5%
5	0.3	-82.0%	1.3%
6	0.1	-91.4%	6.1%
7	0.1	-86.3%	16.8%
8	0.0	-84.5%	14.2%
9	5.0	-72.0%	29.0%
10	6.7	-58.7%	16.7%
11	1.9	-57.9%	0.9%
12	11.4	-58.7%	-19.2%
13	8.9	-69.9%	-20.3%
14	0.0	-78.8%	-32.0%
15	2.1	-88.7%	-34.1%
16	0.0	-88.7%	-10.3%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGB-F52-840OR2 G

Manufacturer : -

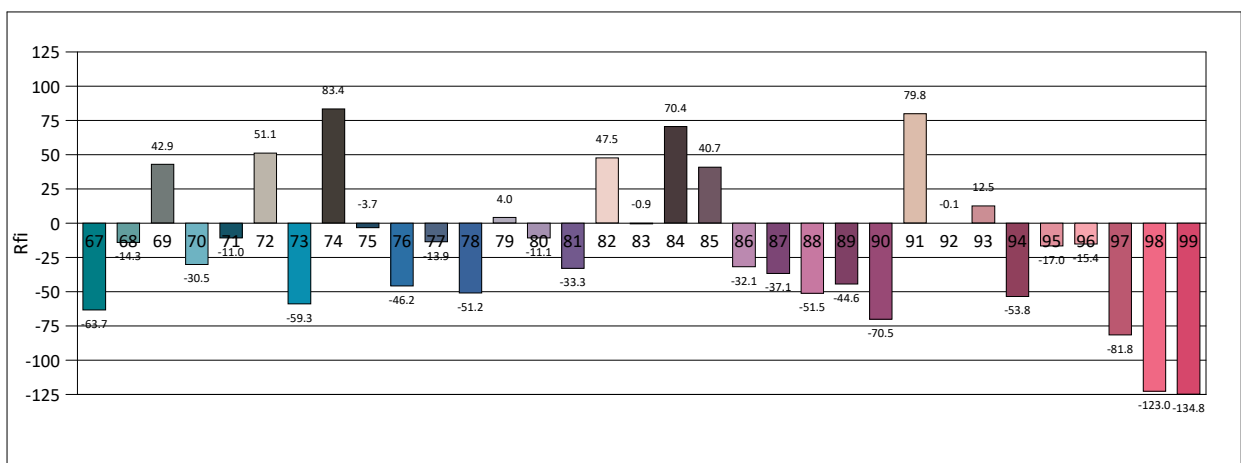
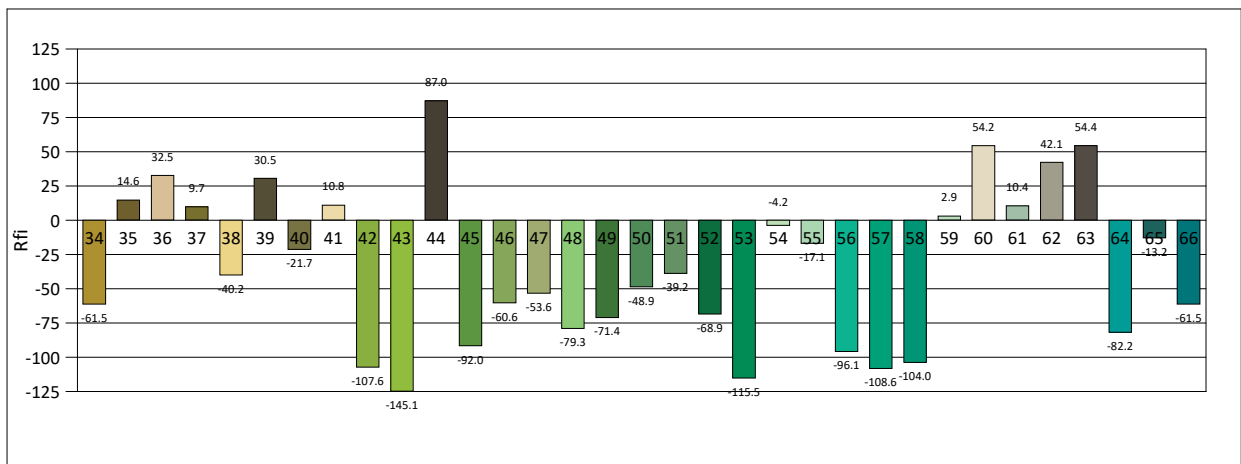
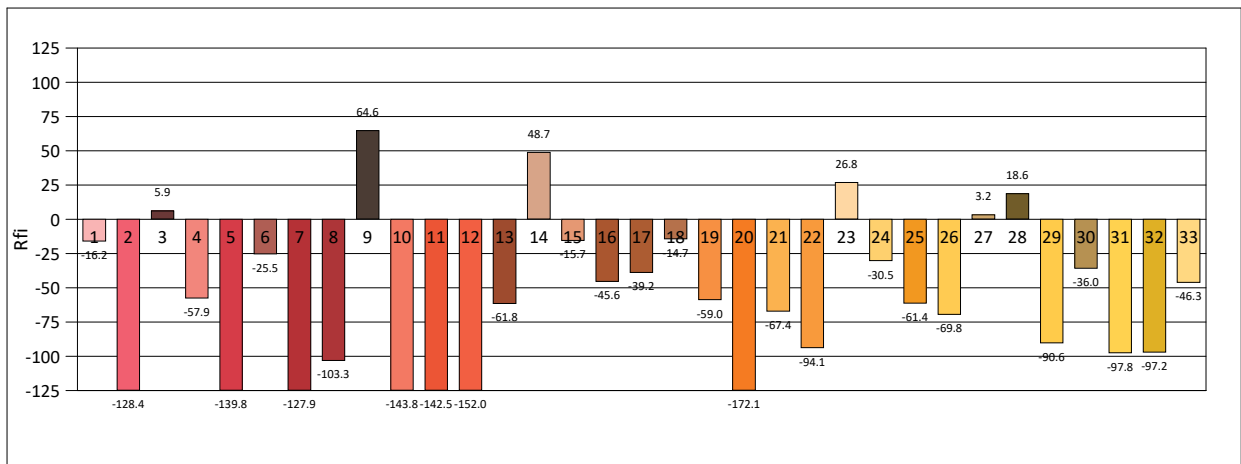
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



LED Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 B

Manufacturer : -

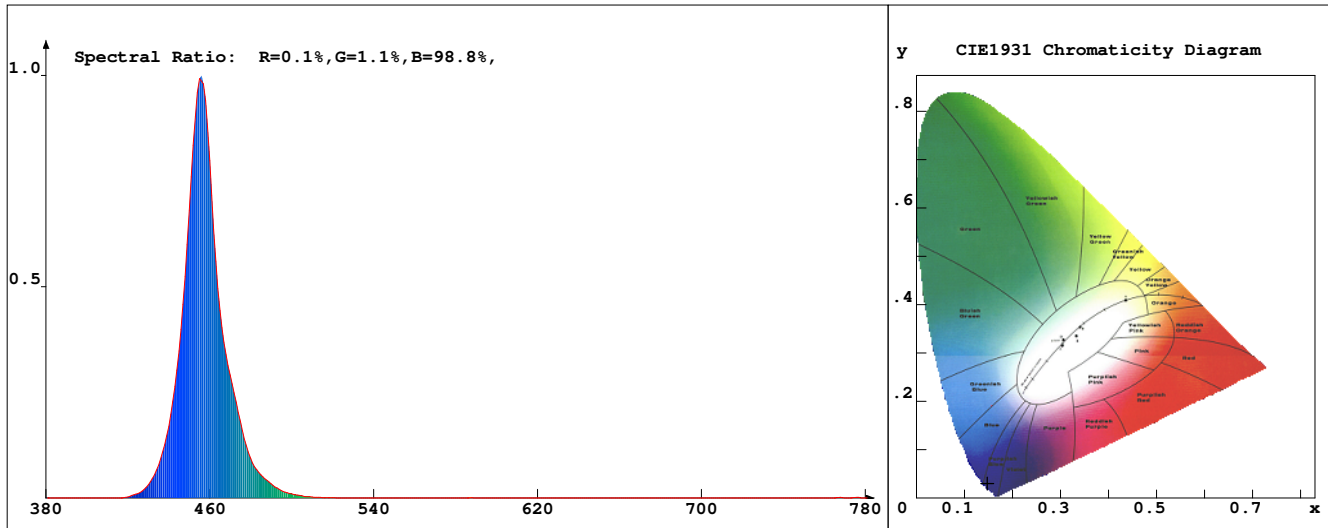
Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :



Chroma Parameters

Chro.Coord.: $x=0.1479$ $y=0.0302$ $u=0.1929$ $v=0.0591$ $duv=-0.0632$

CCT:100000K Dominant Wave.:458.5nm Purity:99.1% Centre Wave:454.7nm

Flux RGB Ratio:R=0.1%,G=6.2%,B=93.7% Peak Wave:454.8nm Half Width:16.5nm

Rendering Index:Ra=-68.7 CRI=134.7

R1 =-22 R2 =-71 R3 =-172 R4 =-93 R5 =-5 R6 =-77 R7 =-65 R8 =-43

R9 =-293 R10=-300 R11=-120 R12=-146 R13=-50 R14=-44 R15=-7

PPF:4.214 μ mol/s (400-700nm)

PRF:1.1mW (400-700nm)

PAR:0.8mW (400-700nm)

Photo Parameters

Flux:53.05lm Effi.:13.0lm/W Radiant:1104.8mW Iv:0.0mcd

Scotopic Flux:1179.6Plm Effi.:0.0Plm/W S/P:22.2

Efficiency:0.00

Effi Level:A++ (EU 874-2012) Photon Flux:4220.360 μ mol/s (380-780nm)

Ele. Parameters

Forward Current:If=172.0mA

Reverse Voltage:Vr=5.00V

Forward Voltage:Vf=23.77V

Reverse Current:Ir=0.00uA

Power:P=4.100W

Instrument state

Instrument:Lisun LMS-8000

Integral Time: 62.082ms

VPeak: 15416

VDark: 1338

Scan Range: 380-780nm

Product ID: 201508924

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IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGB-F52-8000203

Temperature : 'C

Humidity : -

Test Date : 2016-03-20

Manufacturer :

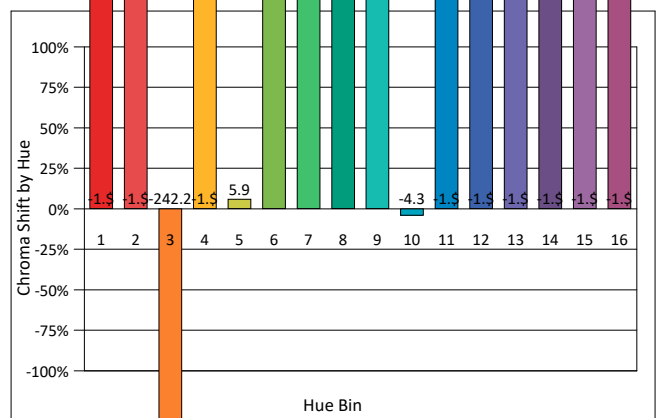
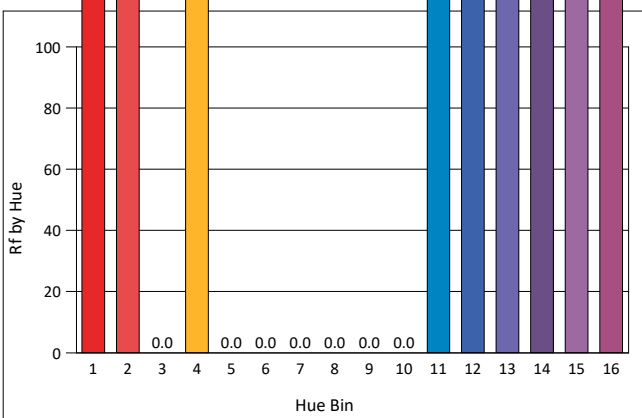
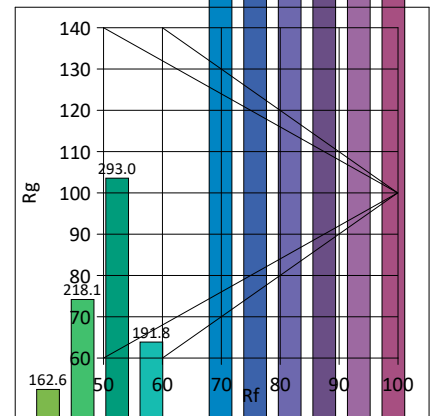
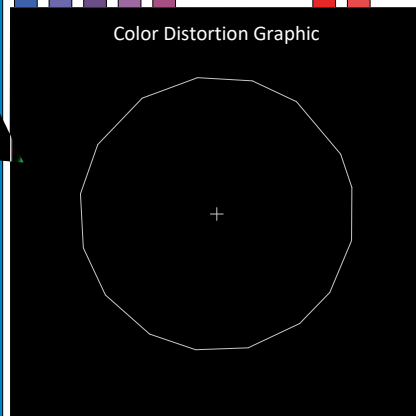
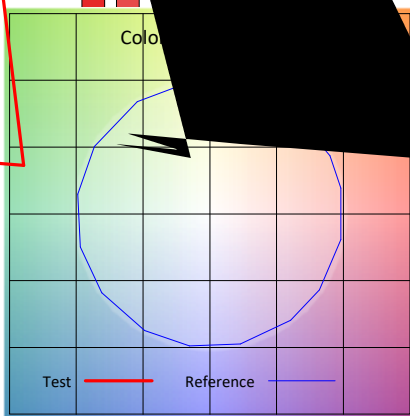
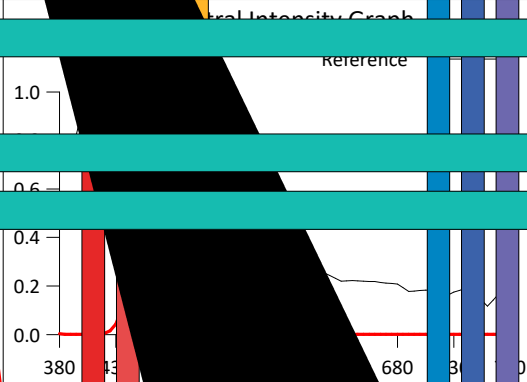
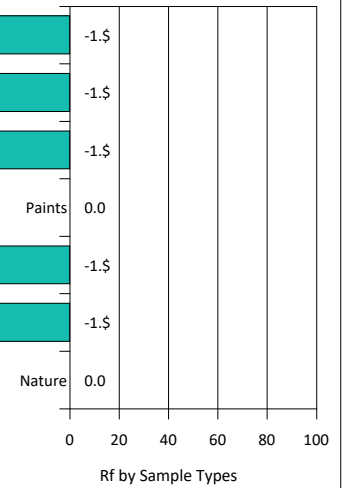
Humidity : -%

Test Date : 2016-03-20

68.0 CCT(K): 100000

Graphic Shifts (%)

1	-1.5%	-1.5%	-1.5%
2	-1.5%	-1.5%	-1.5%
3	0.0%	-242.2%	-249.0%
4	0.0%	-32.7%	-34.0%
5	0.0%	-162.6%	-305.0%
6	0.0%	-218.1%	-151.3%
7	0.0%	-1.5%	-1.5%
8	0.0%	-1.5%	-1.5%
9	0.0%	-1.5%	-1.5%
10	0.0%	-1.5%	-1.5%
11	0.0%	-1.5%	-1.5%
12	-1.5%	-1.5%	-1.5%
13	-1.5%	-1.5%	-1.5%
14	-1.5%	-1.5%	-1.5%
15	-1.5%	-1.5%	-1.5%
16	-1.5%	-1.5%	-1.5%



IES TM-30-2015 Test Report

Product Mark

Product Type : ORRGB-F52-8400R2 B

Manufacturer : -

Temperature : 'C

Humidity : -%

Operator : -

Test Date : 2025-03-20

Remark :

