

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: io LED

Report Number: P895858

Luminaire Tested: **GRZ-10L-935-30x60-X-UNV-STD-1F**

Issue Date: 11/20/2024



Test Information

Test Method: LM-79-08
Report Number: P895858
Test Lab: INNOVATION CENTER(G3)
Issue Date: 11/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: GRZ-10L-935-30x60-X-UNV-STD-1F
Description: io LED 90CRI 3500K GRAZER 1000 lumens per ft WITH 30 deg x 60 deg OPTIC
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

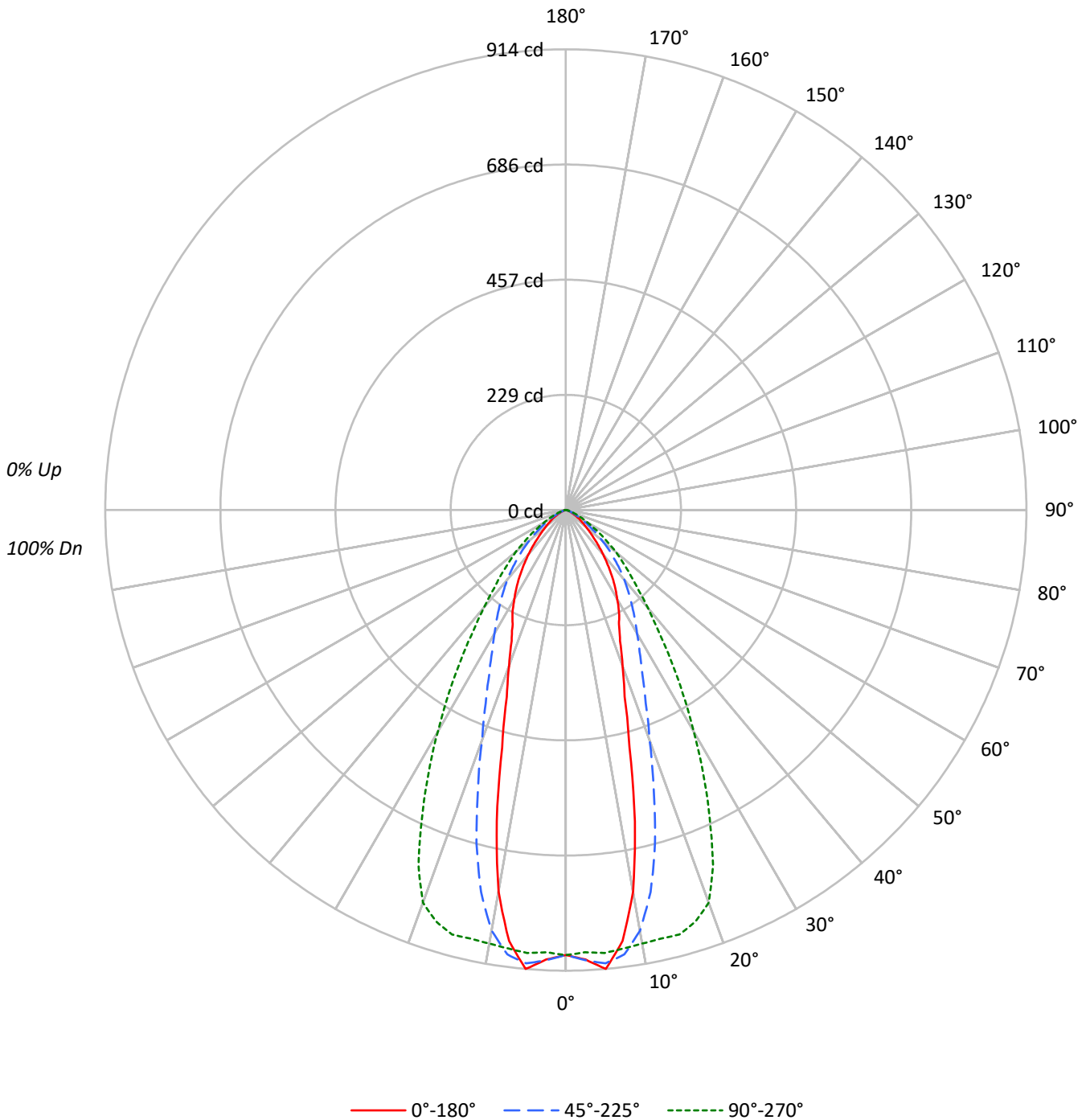
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 810.3 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 1.01 / 0.76
Luminous Opening: Rectangular (W 1' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P895858
CATALOG NUMBER: GRZ-10L-935-30x60-X-UNV-STD-1F

Luminous Intensity Polar Plot





TEST NUMBER: P895858

CATALOG NUMBER: GRZ-10L-935-30x60-X-UNV-STD-1F

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64				64
6	83	73	67	62	82	73	66	62	71	65	61	69	65	61	68	64	60	59				59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54				54
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51				51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47				47
10	67	57	50	46	66	56	50	46	55	50	46	55	49	46	54	49	46	44				44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	57009	57009	57009
5°	59236	58517	57175
10°	50381	55548	57266
15°	32615	45738	58278
20°	22607	33416	56958
25°	17776	25591	48127
30°	15225	21093	37861
35°	12533	17917	28567
40°	9719	15206	21300
45°	7177	12264	16474
50°	5264	9413	13099
55°	3940	6709	9569
60°	2764	4520	6457
65°	1940	2918	4370
70°	1340	1945	2851
75°	998	1198	1971
80°	595	892	1487
85°	593	593	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	10.3
10°-20°	190.2	23.5
20°-30°	194.4	24.0
30°-40°	155.6	19.2
40°-50°	104.0	12.8
50°-60°	54.8	6.8
60°-70°	20.7	2.6
70°-80°	6.1	0.8
80°-90°	0.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	468.2	57.8
0°-40°	623.7	77.0
0°-60°	782.5	96.6
0°-90°	810.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	914	901	903	889	882	82
15°	488	538	684	830	872	139
25°	250	269	359	590	676	117
35°	159	173	227	329	362	99
45°	79	91	134	178	180	62
55°	35	40	60	82	85	32
65°	13	14	19	26	29	13
75°	4	4	5	7	8	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P895858

CATALOG NUMBER: GRZ-10L-935-30x60-X-UNV-STD-1F

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	882.9	882.9	882.9	882.9	882.9	882.9	882.9	882.9	882.9	882.9	882.9
2.5°	892.5	891.7	900.4	894.0	896.4	894.0	886.9	882.9	882.1	874.2	878.2
5°	913.9	901.2	903.6	899.6	903.6	902.8	894.8	890.1	886.1	881.3	882.1
7.5°	862.3	863.9	871.0	874.2	885.3	889.3	885.3	882.1	878.9	876.6	877.4
10°	768.4	774.0	784.3	805.1	828.1	847.2	855.1	863.9	871.0	871.8	873.4
12.5°	632.6	640.5	657.2	679.5	730.3	776.4	815.4	845.6	863.1	872.6	871.0
15°	487.9	490.3	511.0	547.5	603.2	684.2	761.3	822.5	854.3	876.6	871.8
17.5°	388.6	391.8	408.5	436.3	489.5	579.4	694.6	785.9	844.0	859.9	855.9
20°	329.0	326.6	339.3	362.4	406.9	486.3	606.4	728.7	801.9	824.1	828.9
22.5°	281.3	283.7	291.6	309.9	348.9	414.8	524.5	654.0	735.1	759.7	763.7
25°	249.5	251.9	259.9	272.6	304.3	359.2	453.8	570.5	650.1	673.9	675.5
27.5°	228.9	227.3	232.8	242.4	270.2	317.0	395.0	491.9	565.8	589.7	591.3
30°	204.2	203.5	209.0	219.3	241.6	282.9	348.9	427.6	480.0	503.0	507.8
32.5°	182.0	181.2	187.6	196.3	218.5	254.3	311.5	372.7	408.5	427.6	432.3
35°	159.0	159.8	164.5	175.6	195.5	227.3	279.7	322.6	348.1	357.7	362.4
37.5°	136.7	137.5	143.9	155.0	174.9	203.5	245.6	278.9	294.0	301.2	300.4
40°	115.3	116.9	120.8	133.5	153.4	180.4	214.6	239.2	249.5	250.3	252.7
42.5°	96.1	96.1	102.5	112.8	132.0	157.4	187.6	205.0	213.0	212.2	210.6
45°	78.6	79.4	83.4	93.7	111.2	134.3	160.6	176.4	181.2	178.0	180.4
47.5°	64.3	65.1	68.3	77.9	92.9	115.3	135.9	151.0	155.0	152.6	152.6
50°	52.4	53.2	55.6	62.8	75.5	93.7	112.8	125.6	129.6	128.8	130.4
52.5°	42.9	42.9	45.3	50.8	61.2	76.3	91.4	102.5	105.7	104.9	104.1
55°	35.0	35.0	36.5	40.5	48.5	59.6	72.3	81.0	83.4	84.2	85.0
57.5°	27.8	27.8	28.6	31.8	37.3	46.1	55.6	62.0	64.3	65.1	65.9
60°	21.4	21.4	23.0	24.6	29.4	35.0	41.3	46.1	49.3	49.3	50.0
62.5°	16.7	16.7	17.5	19.1	22.2	26.2	30.2	34.2	35.7	37.3	38.1
65°	12.7	12.7	13.5	14.3	16.7	19.1	22.2	25.4	27.0	27.8	28.6
67.5°	9.5	9.5	9.5	11.1	12.7	14.3	15.9	18.3	19.1	20.7	21.4
70°	7.1	7.1	7.1	7.9	8.7	10.3	11.1	12.7	14.3	15.1	15.1
72.5°	5.6	5.6	5.6	5.6	6.4	7.1	7.9	8.7	10.3	11.1	11.1
75°	4.0	4.0	4.0	4.0	4.8	4.8	5.6	6.4	7.1	7.9	7.9
77.5°	3.2	3.2	2.4	3.2	3.2	3.2	4.0	4.0	4.8	5.6	5.6
80°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2	4.0
82.5°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.4	2.4
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

iO LED

Report Number: SP1-2101-124-3

Luminaire Tested: GRZ-05L-935-10X10-X-UNV-STD-2F

Test Date: 02/10/2021

Test Information

Test Method: LM-79-08
 Report Number: SP1-2101-124-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1
 Measurement Geometry: 4π
 Issue Date: 02/10/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: iO LED
 Catalog Number: **GRZ-05L-935-10X10-X-UNV-STD-2F**
 Description: IO LED Wall Grazer GRZ

Spectral Parameters

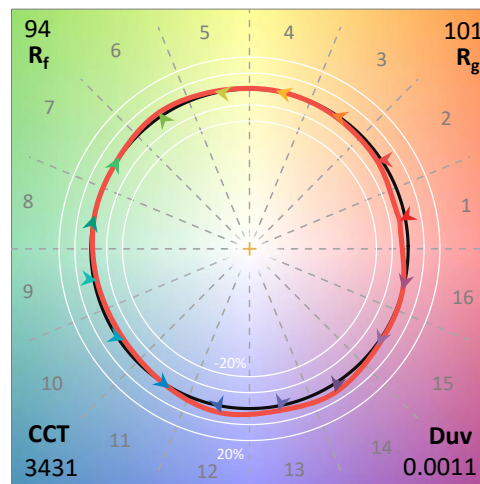
CCT (K): 3431
 CIE u': 0.2369
 CIE v': 0.5141
 Duv: 0.0011
 CIE x: 0.4104
 CIE y: 0.3958
 CIE z: 0.1938
 Peak Wavelength (nm): 624
 Dominant Wavelength (nm): 580
 Purity: 42.2

 Rf: 93.6
 Rg: 100.6

CRI (Ra):	94.0		
R1:	94.7	R9:	69.9
R2:	95.5	R10:	88.4
R3:	95.0	R11:	95.7
R4:	95.4	R12:	83.2
R5:	94.1	R13:	94.8
R6:	94.0	R14:	96.6
R7:	95.4		
R8:	88.3		

Test Conditions

Stabilization Time: 57M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.5/38%
 Sphere Temperature (°C): 24.4

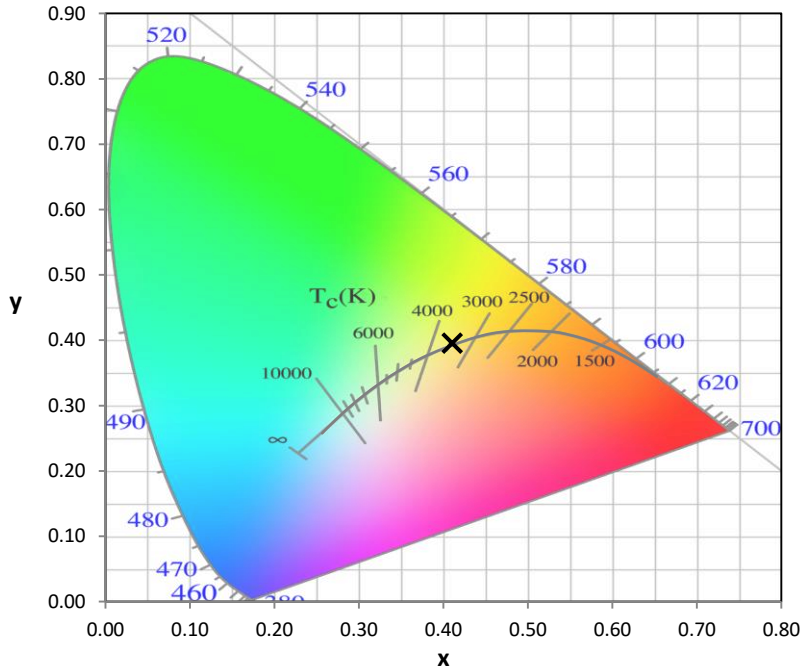


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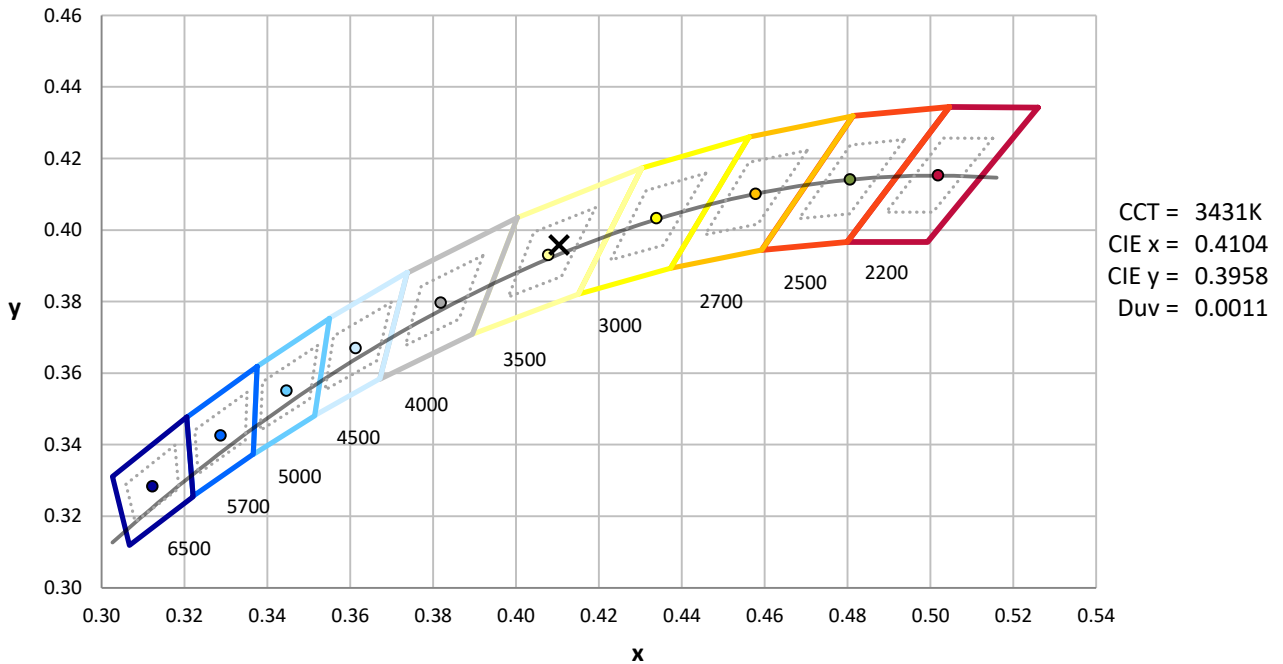
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	1/31/2021	7/31/2021
Power Meter	IN0071	12/1/2020	12/1/2021
AC Power Source	IN0063	12/1/2020	12/1/2021
DC Power Source	IN0208	12/1/2020	12/1/2021
Sphere Thermometer	IN0085	12/1/2020	12/1/2021
Room Thermometer	IN0046	12/1/2020	12/1/2021

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CIE 1931 Chromaticity Diagram



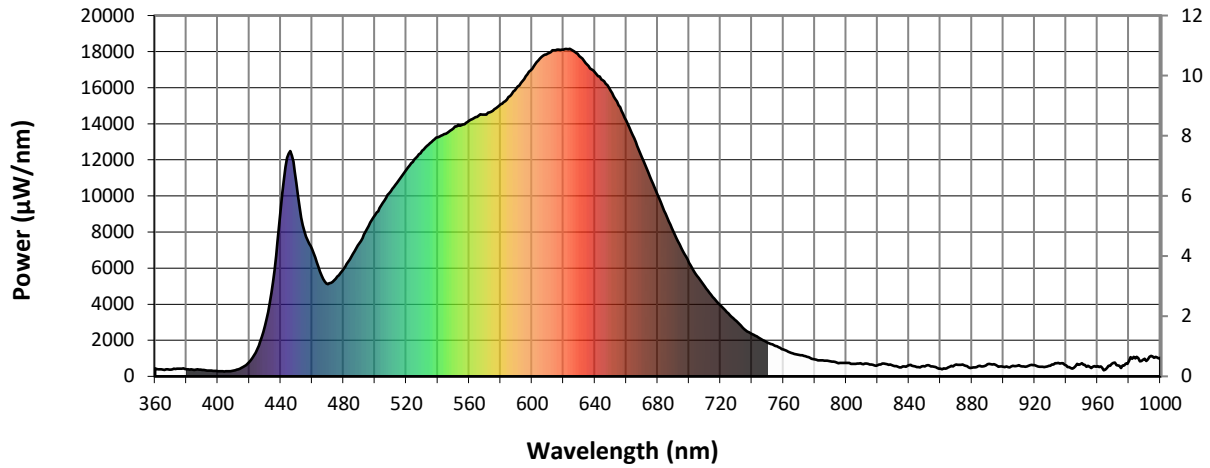
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

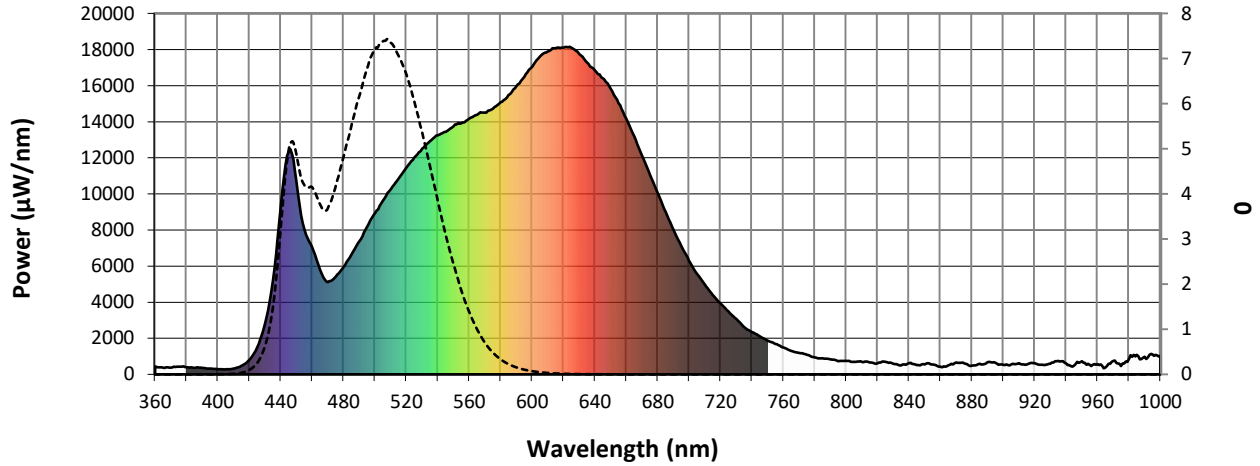


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λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	436	0.0	490	7373	1.0	620	18112	4.7	750	1864	0.0	880	485	0.0
365	370	0.0	495	8181	1.5	625	18107	4.0	755	1693	0.0	885	593	0.0
370	381	0.0	500	8943	2.0	630	17758	3.2	760	1498	0.0	890	677	0.0
375	432	0.0	505	9613	2.7	635	17291	2.6	765	1302	0.0	895	646	0.0
380	398	0.0	510	10245	3.5	640	16854	2.0	770	1180	0.0	900	526	0.0
385	359	0.0	515	10835	4.5	645	16410	1.6	775	1079	0.0	905	557	0.0
390	355	0.0	520	11465	5.6	650	15843	1.2	780	946	0.0	910	613	0.0
395	320	0.0	525	12004	6.4	655	15029	0.9	785	883	0.0	915	556	0.0
400	290	0.0	530	12512	7.4	660	14175	0.6	790	832	0.0	920	623	0.0
405	278	0.0	535	12925	8.0	665	13195	0.4	795	731	0.0	925	528	0.0
410	327	0.0	540	13254	8.6	670	12132	0.3	800	744	0.0	930	586	0.0
415	471	0.0	545	13437	8.9	675	11067	0.2	805	688	0.0	935	744	0.0
420	803	0.0	550	13744	9.3	680	10056	0.1	810	699	0.0	940	610	0.0
425	1501	0.0	555	13925	9.5	685	9011	0.1	815	651	0.0	945	486	0.0
430	2800	0.0	560	14164	9.6	690	8032	0.0	820	620	0.0	950	719	0.0
435	5221	0.1	565	14379	9.6	695	7112	0.0	825	686	0.0	955	527	0.0
440	9255	0.1	570	14511	9.4	700	6301	0.0	830	578	0.0	960	561	0.0
445	12350	0.3	575	14729	9.2	705	5570	0.0	835	502	0.0	965	364	0.0
450	10708	0.3	580	15069	9.0	710	4970	0.0	840	624	0.0	970	739	0.0
455	8053	0.3	585	15482	8.6	715	4396	0.0	845	523	0.0	975	457	0.0
460	7058	0.3	590	15975	8.3	720	3921	0.0	850	555	0.0	980	848	0.0
465	5809	0.3	595	16476	7.8	725	3489	0.0	855	553	0.0	985	1084	0.0
470	5111	0.3	600	17051	7.3	730	3068	0.0	860	424	0.0	990	980	0.0
475	5409	0.4	605	17607	6.8	735	2631	0.0	865	489	0.0	995	1093	0.0
480	5958	0.6	610	17893	6.1	740	2336	0.0	870	652	0.0	1000	1033	0.0
485	6631	0.8	615	18072	5.5	745	2108	0.0	875	622	0.0			

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Scotopic Flux vs. Wavelength



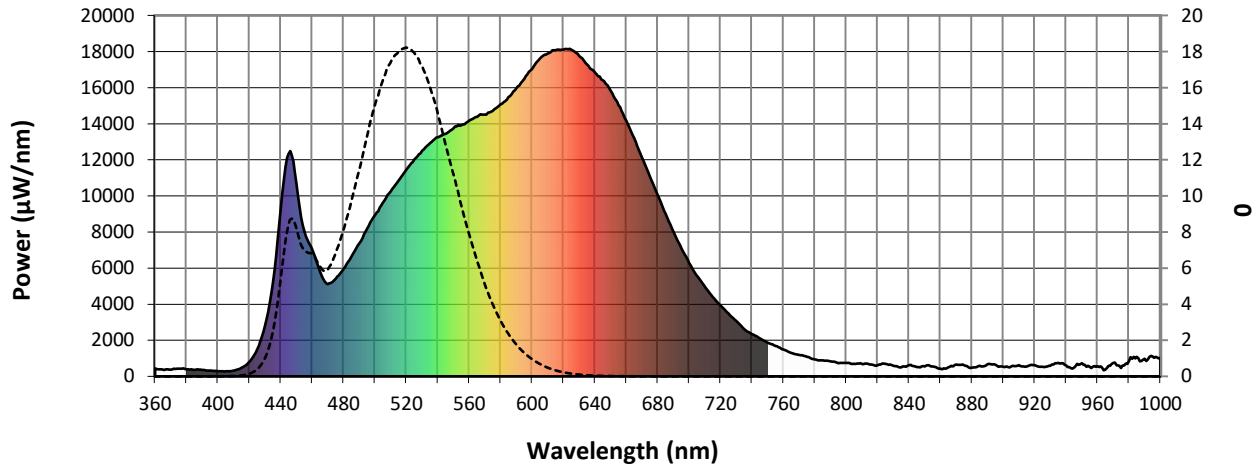
Scotopic Lumens: 1600.8

S/P: 1.59

λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)
360	436	0.0	490	7373	11.4	620	18112	0.2	750	1864	0.0	880	485	0.0
365	370	0.0	495	8181	13.2	625	18107	0.2	755	1693	0.0	885	593	0.0
370	381	0.0	500	8943	15.0	630	17758	0.1	760	1498	0.0	890	677	0.0
375	432	0.0	505	9613	16.3	635	17291	0.1	765	1302	0.0	895	646	0.0
380	398	0.0	510	10245	17.4	640	16854	0.0	770	1180	0.0	900	526	0.0
385	359	0.0	515	10835	18.0	645	16410	0.0	775	1079	0.0	905	557	0.0
390	355	0.0	520	11465	18.2	650	15843	0.0	780	946	0.0	910	613	0.0
395	320	0.0	525	12004	18.0	655	15029	0.0	785	883	0.0	915	556	0.0
400	290	0.0	530	12512	17.3	660	14175	0.0	790	832	0.0	920	623	0.0
405	278	0.0	535	12925	16.1	665	13195	0.0	795	731	0.0	925	528	0.0
410	327	0.0	540	13254	14.6	670	12132	0.0	800	744	0.0	930	586	0.0
415	471	0.0	545	13437	12.9	675	11067	0.0	805	688	0.0	935	744	0.0
420	803	0.1	550	13744	11.2	680	10056	0.0	810	699	0.0	940	610	0.0
425	1501	0.4	555	13925	9.5	685	9011	0.0	815	651	0.0	945	486	0.0
430	2800	1.0	560	14164	7.9	690	8032	0.0	820	620	0.0	950	719	0.0
435	5221	2.3	565	14379	6.5	695	7112	0.0	825	686	0.0	955	527	0.0
440	9255	5.2	570	14511	5.1	700	6301	0.0	830	578	0.0	960	561	0.0
445	12350	8.3	575	14729	4.0	705	5570	0.0	835	502	0.0	965	364	0.0
450	10708	8.3	580	15069	3.1	710	4970	0.0	840	624	0.0	970	739	0.0
455	8053	7.0	585	15482	2.4	715	4396	0.0	845	523	0.0	975	457	0.0
460	7058	6.8	590	15975	1.8	720	3921	0.0	850	555	0.0	980	848	0.0
465	5809	6.1	595	16476	1.3	725	3489	0.0	855	553	0.0	985	1084	0.0
470	5111	5.9	600	17051	1.0	730	3068	0.0	860	424	0.0	990	980	0.0
475	5409	6.8	605	17607	0.7	735	2631	0.0	865	489	0.0	995	1093	0.0
480	5958	8.0	610	17893	0.5	740	2336	0.0	870	652	0.0	1000	1033	0.0
485	6631	9.6	615	18072	0.3	745	2108	0.0	875	622	0.0			

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Melanopic Flux vs. Wavelength



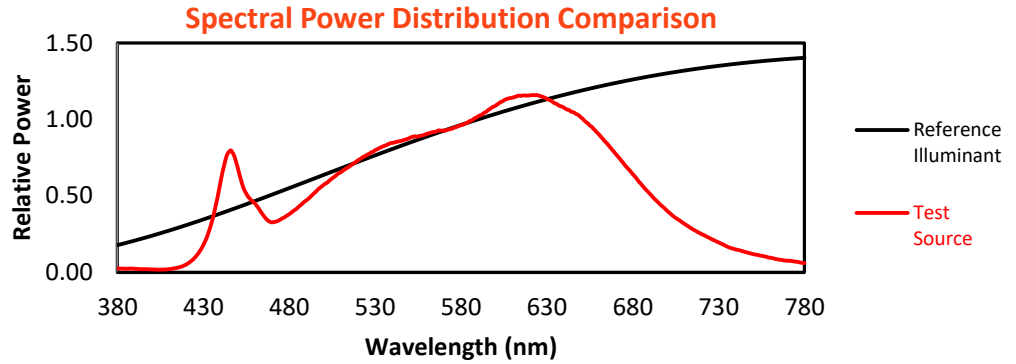
Melanopic Lumens: 631

M/P: 0.63

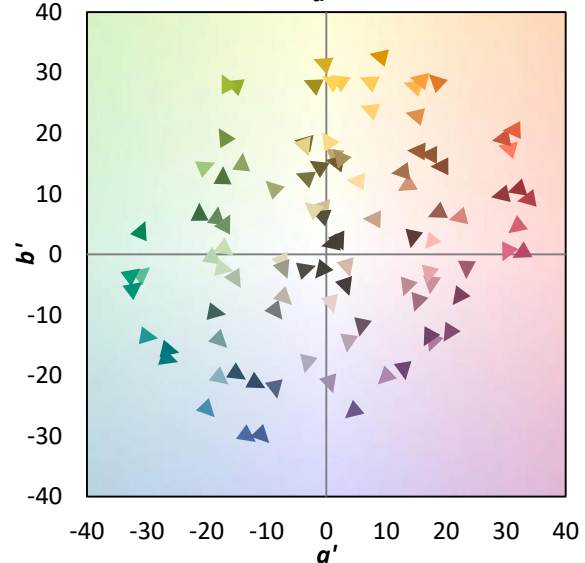
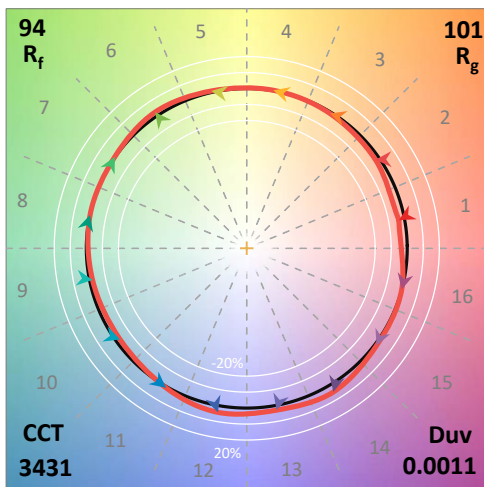
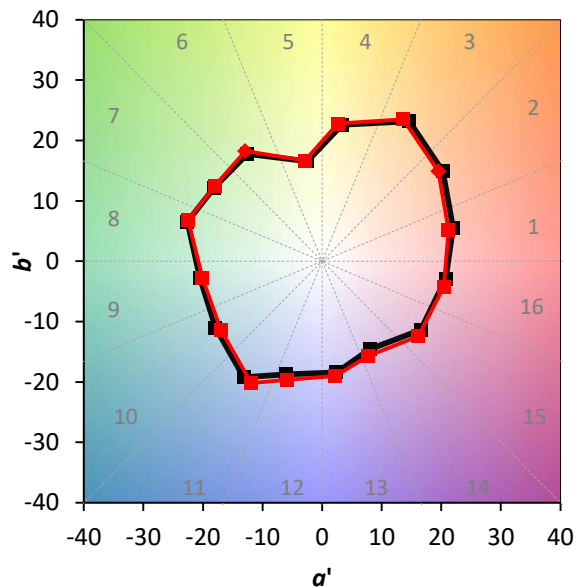
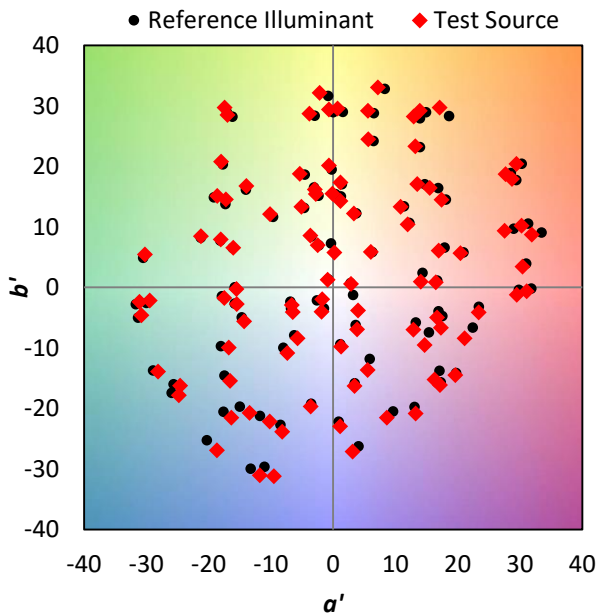
λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	436	0.0	490	7373	6.1	620	18112	0.0	750	1864	0.0	880	485	0.0
365	370	0.0	495	8181	6.8	625	18107	0.0	755	1693	0.0	885	593	0.0
370	381	0.0	500	8943	7.2	630	17758	0.0	760	1498	0.0	890	677	0.0
375	432	0.0	505	9613	7.4	635	17291	0.0	765	1302	0.0	895	646	0.0
380	398	0.0	510	10245	7.4	640	16854	0.0	770	1180	0.0	900	526	0.0
385	359	0.0	515	10835	7.1	645	16410	0.0	775	1079	0.0	905	557	0.0
390	355	0.0	520	11465	6.7	650	15843	0.0	780	946	0.0	910	613	0.0
395	320	0.0	525	12004	6.1	655	15029	0.0	785	883	0.0	915	556	0.0
400	290	0.0	530	12512	5.4	660	14175	0.0	790	832	0.0	920	623	0.0
405	278	0.0	535	12925	4.7	665	13195	0.0	795	731	0.0	925	528	0.0
410	327	0.0	540	13254	3.9	670	12132	0.0	800	744	0.0	930	586	0.0
415	471	0.0	545	13437	3.1	675	11067	0.0	805	688	0.0	935	744	0.0
420	803	0.1	550	13744	2.5	680	10056	0.0	810	699	0.0	940	610	0.0
425	1501	0.2	555	13925	1.9	685	9011	0.0	815	651	0.0	945	486	0.0
430	2800	0.6	560	14164	1.4	690	8032	0.0	820	620	0.0	950	719	0.0
435	5221	1.4	565	14379	1.0	695	7112	0.0	825	686	0.0	955	527	0.0
440	9255	3.1	570	14511	0.7	700	6301	0.0	830	578	0.0	960	561	0.0
445	12350	4.9	575	14729	0.5	705	5570	0.0	835	502	0.0	965	364	0.0
450	10708	4.9	580	15069	0.3	710	4970	0.0	840	624	0.0	970	739	0.0
455	8053	4.2	585	15482	0.2	715	4396	0.0	845	523	0.0	975	457	0.0
460	7058	4.2	590	15975	0.2	720	3921	0.0	850	555	0.0	980	848	0.0
465	5809	3.8	595	16476	0.1	725	3489	0.0	855	553	0.0	985	1084	0.0
470	5111	3.7	600	17051	0.1	730	3068	0.0	860	424	0.0	990	980	0.0
475	5409	4.1	605	17607	0.0	735	2631	0.0	865	489	0.0	995	1093	0.0
480	5958	4.8	610	17893	0.0	740	2336	0.0	870	652	0.0	1000	1033	0.0
485	6631	5.5	615	18072	0.0	745	2108	0.0	875	622	0.0			

Summary

$R_f = 93.6$
 $R_g = 100.6$
 CIE $R_a = 94.0$
 $R_9 = 69.9$

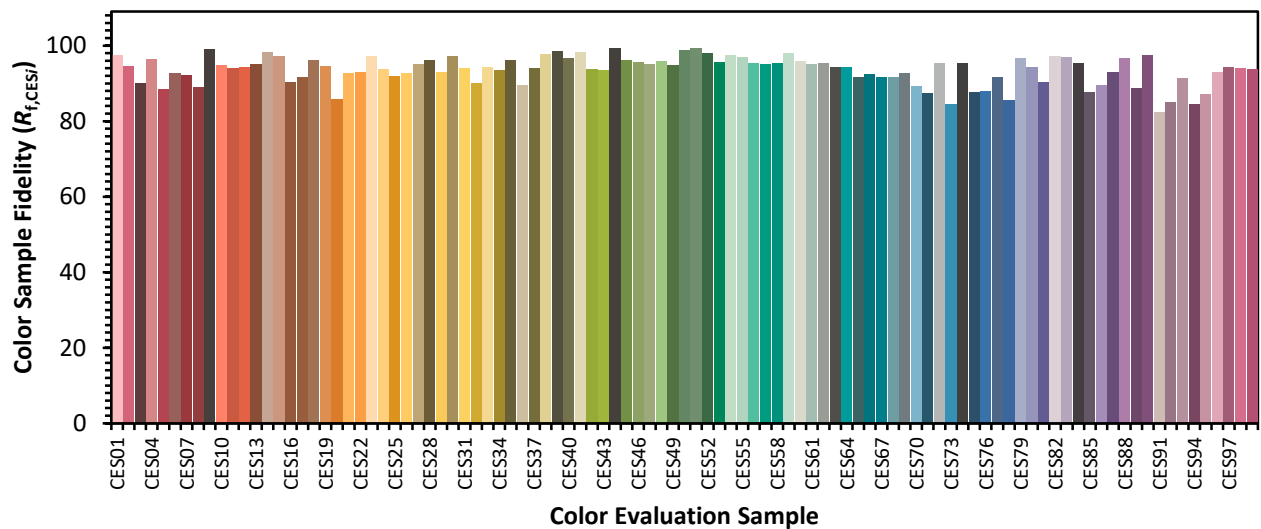


Color Vector Graphics

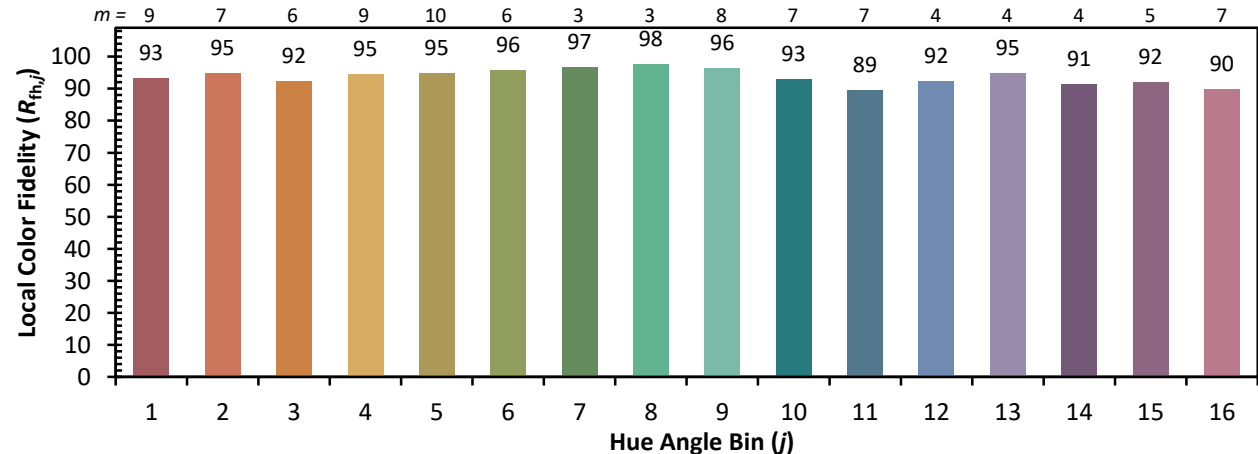
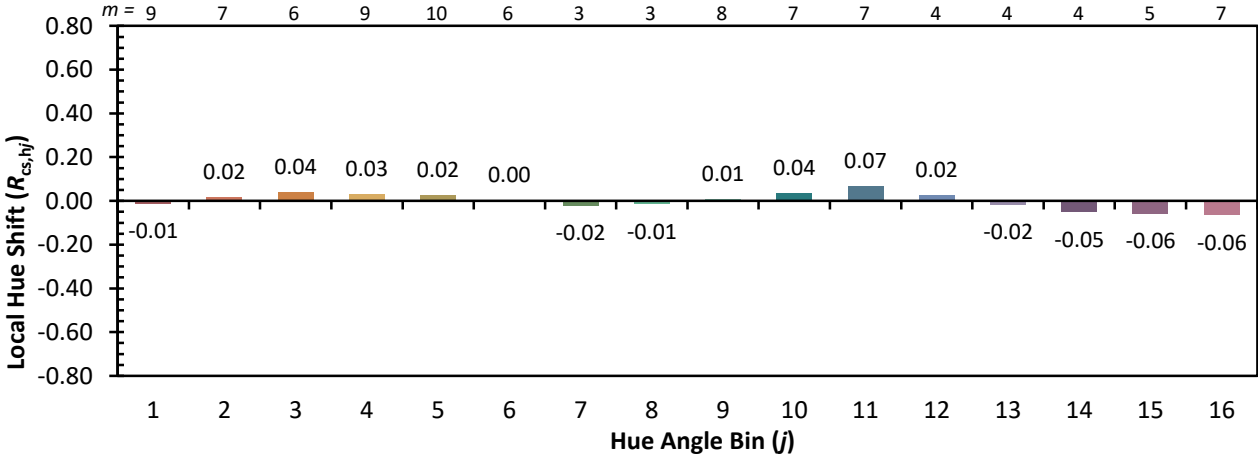
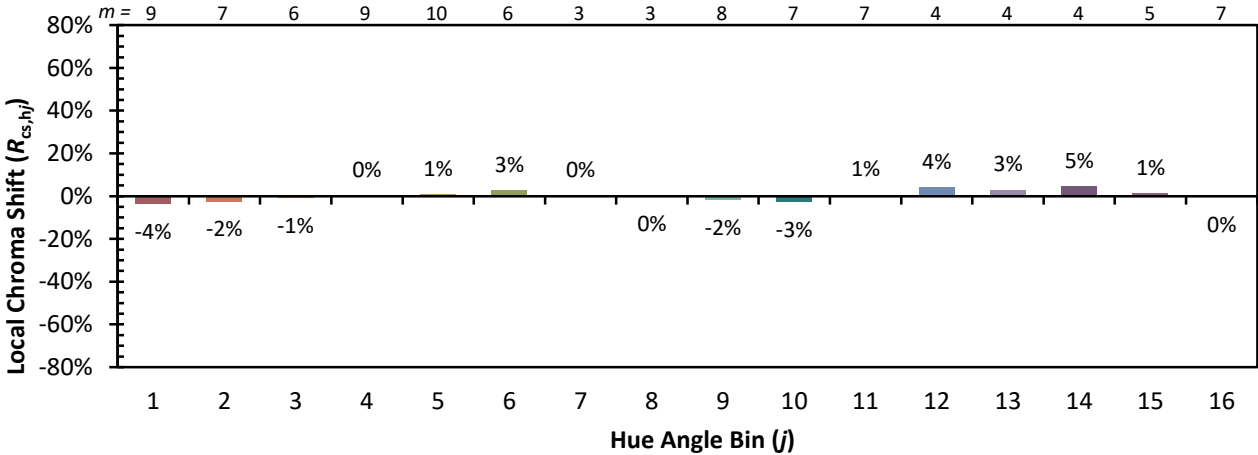


Individual Sample Fidelity Index ($R_{f,i}$)

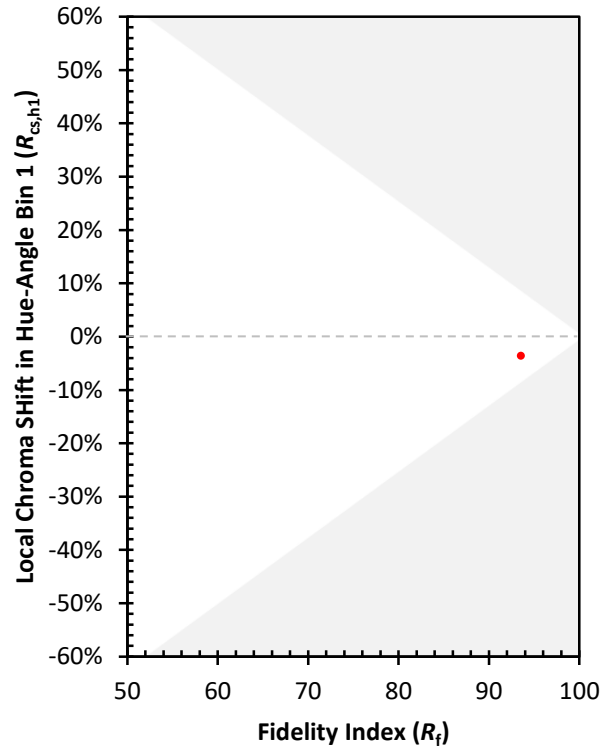
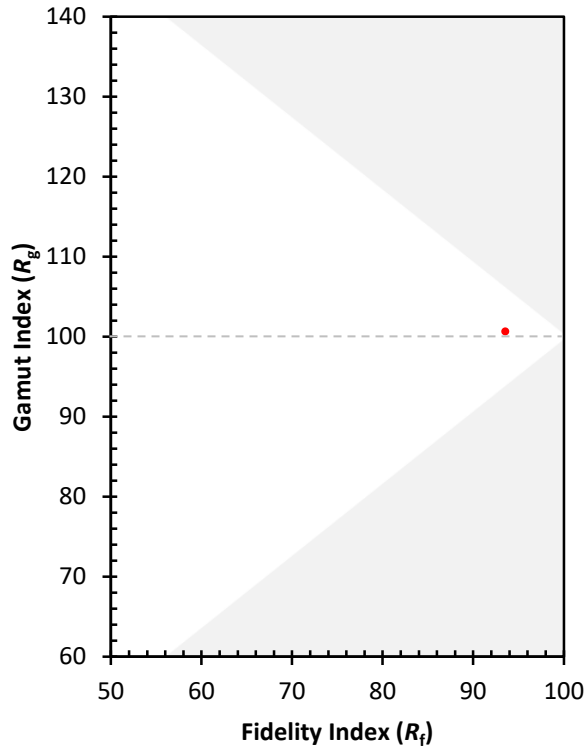
CES01 = 86	CES26 = 93	CES51 = 99	CES76 = 88
CES02 = 62	CES27 = 95	CES52 = 98	CES77 = 92
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 86
CES04 = 70	CES29 = 93	CES54 = 98	CES79 = 97
CES05 = 50	CES30 = 97	CES55 = 97	CES80 = 94
CES06 = 51	CES31 = 94	CES56 = 95	CES81 = 90
CES07 = 43	CES32 = 90	CES57 = 95	CES82 = 97
CES08 = 42	CES33 = 94	CES58 = 96	CES83 = 97
CES09 = 29	CES34 = 93	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 96	CES60 = 96	CES85 = 88
CES11 = 58	CES36 = 90	CES61 = 95	CES86 = 90
CES12 = 64	CES37 = 94	CES62 = 95	CES87 = 93
CES13 = 43	CES38 = 98	CES63 = 94	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 94	CES89 = 89
CES15 = 71	CES40 = 97	CES65 = 92	CES90 = 97
CES16 = 48	CES41 = 98	CES66 = 92	CES91 = 82
CES17 = 49	CES42 = 94	CES67 = 92	CES92 = 85
CES18 = 56	CES43 = 94	CES68 = 92	CES93 = 91
CES19 = 71	CES44 = 99	CES69 = 93	CES94 = 84
CES20 = 66	CES45 = 96	CES70 = 89	CES95 = 87
CES21 = 86	CES46 = 96	CES71 = 88	CES96 = 93
CES22 = 78	CES47 = 95	CES72 = 95	CES97 = 94
CES23 = 91	CES48 = 96	CES73 = 85	CES98 = 94
CES24 = 90	CES49 = 95	CES74 = 95	CES99 = 94
CES25 = 71	CES50 = 99	CES75 = 88	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)