

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1216331

Luminaire Tested: 24-ID2-72-DBD-L840-U

Issue Date: 12/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1216331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24-ID2-72-DBD-L840-U
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DOUBLE BARREL DROP
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

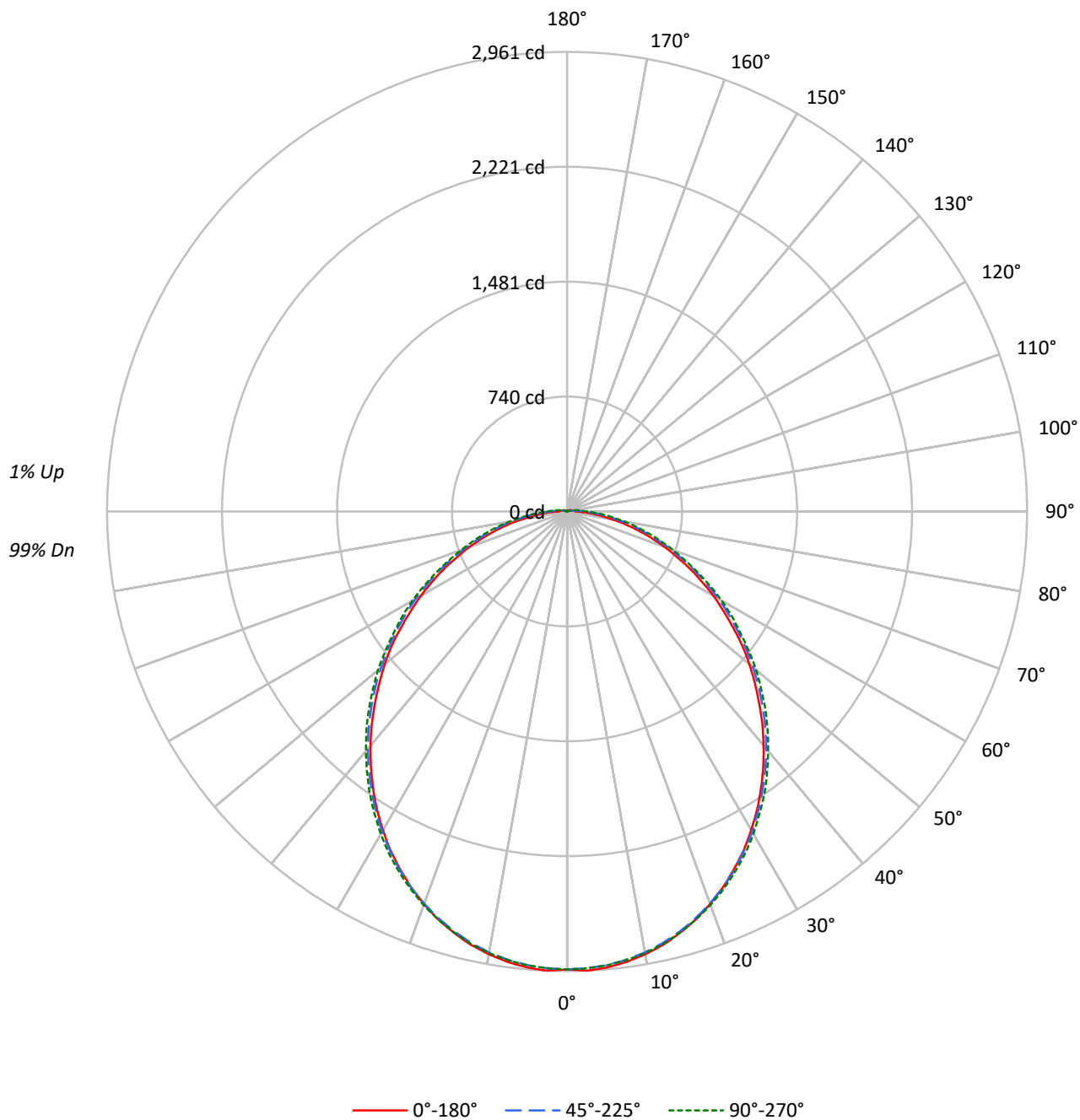
Lumens per Lamp: N/A
Luminaire Lumens: 7962.2 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 64.7
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: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101			99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	88	86	84			82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	73	78	74	71			68
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60			58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	61	56	52			50
5	76	63	54	47	74	62	53	47	60	52	46	57	51	46	55	50	45			43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40			38
7	65	52	43	37	63	51	42	37	49	42	36	47	41	36	46	40	35			33
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	42	36	32			30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29			27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	31	26			25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3970	3970	3970
5°	3970	3935	3938
10°	3932	3887	3896
15°	3876	3821	3835
20°	3802	3741	3762
25°	3710	3649	3672
30°	3604	3538	3572
35°	3484	3412	3458
40°	3351	3282	3328
45°	3206	3139	3195
50°	3070	2986	3053
55°	2905	2822	2882
60°	2747	2659	2738
65°	2570	2475	2541
70°	2389	2275	2356
75°	2163	2076	2192
80°	1927	1879	2037
85°	1724	1705	1943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3206 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	3.5
10°-20°	790.5	9.9
20°-30°	1173.4	14.7
30°-40°	1372.0	17.2
40°-50°	1372.7	17.2
50°-60°	1197.6	15.0
60°-70°	896.8	11.3
70°-80°	546.3	6.9
80°-90°	230.4	2.9
90°-100°	68.1	0.9
100°-110°	21.0	0.3
110°-120°	7.9	0.1
120°-130°	4.0	0.1
130°-140°	1.9	0.0
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2242.6	28.2
0°-40°	3614.5	45.4
0°-60°	6184.8	77.7
0°-90°	7858.3	98.7
90°-120°	97.0	1.2
90°-150°	103.8	1.3
90°-180°	104.0	1.3
0°-180°	7962.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2950	2950	2950	2950	2950	
5°	2949	2939	2934	2930	2935	280
15°	2810	2804	2802	2803	2808	792
25°	2543	2542	2549	2554	2560	1171
35°	2177	2179	2193	2208	2216	1361
45°	1748	1758	1781	1800	1805	1351
55°	1305	1313	1340	1358	1360	1169
65°	872	883	910	923	927	864
75°	474	492	518	538	540	504
85°	160	181	211	232	234	159
90°	52	80	104	121	126	35
95°	44	43	60	75	80	34
105°	28	23	13	13	16	30
115°	18	14	8	1	0	17
125°	10	9	4	0	0	9
135°	6	4	1	1	0	4
145°	2	2	1	1	1	2
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2950.3	2950.3	2950.3	2950.3	2950.3
2.5°	2961.3	2951.4	2944.9	2941.6	2946.0
5°	2949.2	2939.4	2933.9	2929.6	2935.0
7.5°	2927.4	2917.5	2913.2	2911.0	2915.4
10°	2896.8	2886.9	2884.8	2881.5	2889.1
12.5°	2859.6	2849.8	2847.6	2846.5	2854.2
15°	2810.5	2803.9	2801.7	2802.8	2808.3
17.5°	2756.9	2749.3	2748.2	2750.4	2756.9
20°	2691.4	2687.0	2688.1	2693.5	2699.0
22.5°	2621.4	2617.0	2621.4	2623.6	2632.3
25°	2542.7	2541.7	2549.3	2553.7	2560.2
27.5°	2461.9	2461.9	2466.3	2473.9	2483.7
30°	2370.1	2371.2	2382.1	2388.7	2398.5
32.5°	2277.2	2279.4	2289.2	2300.2	2306.7
35°	2176.7	2178.9	2193.1	2208.4	2216.0
37.5°	2074.0	2079.4	2095.8	2110.0	2115.5
40°	1968.0	1974.5	1993.1	2010.6	2013.9
42.5°	1860.9	1867.4	1889.3	1907.9	1911.2
45°	1748.3	1758.2	1781.1	1799.7	1805.2
47.5°	1640.2	1650.0	1672.9	1692.6	1694.8
50°	1532.0	1538.5	1561.5	1580.1	1588.8
52.5°	1423.8	1430.4	1452.2	1475.2	1474.1
55°	1304.7	1313.4	1339.7	1358.2	1360.4
57.5°	1193.2	1205.3	1232.6	1251.2	1257.7
60°	1087.2	1097.1	1124.4	1139.7	1149.5
62.5°	976.9	988.9	1015.1	1032.6	1037.0
65°	872.0	882.9	910.2	923.3	926.6
67.5°	763.8	779.1	804.2	820.6	822.8
70°	669.8	680.8	704.8	721.2	722.3
72.5°	568.2	583.5	607.5	627.2	632.7
75°	474.2	491.7	517.9	537.6	539.8
77.5°	384.6	403.2	436.0	455.7	456.8
80°	301.6	322.4	351.9	374.8	374.8
82.5°	224.0	248.0	281.9	302.7	301.6
85°	159.5	181.4	210.9	231.7	233.8
87.5°	99.4	122.4	150.8	168.3	172.6
90°	52.5	79.8	103.8	121.3	125.7
92.5°	48.1	57.9	80.9	97.3	100.5
95°	43.7	42.6	60.1	75.4	79.8
97.5°	39.3	32.8	42.6	55.7	60.1
100°	35.0	29.5	30.6	39.3	42.6
102.5°	31.7	26.2	18.6	25.1	28.4
105°	28.4	22.9	13.1	13.1	16.4
107.5°	25.1	20.8	12.0	5.5	7.6
110°	21.9	18.6	9.8	2.2	1.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.7	16.4	8.7	1.1	0.0
115°	17.5	14.2	7.6	1.1	0.0
117.5°	15.3	13.1	6.6	0.0	0.0
120°	13.1	10.9	5.5	0.0	0.0
122.5°	12.0	9.8	4.4	0.0	0.0
125°	9.8	8.7	4.4	0.0	0.0
127.5°	8.7	7.6	3.3	0.0	0.0
130°	7.6	6.6	2.2	0.0	0.0
132.5°	6.6	5.5	2.2	0.0	0.0
135°	5.5	4.4	1.1	1.1	0.0
137.5°	4.4	3.3	1.1	1.1	0.0
140°	3.3	3.3	1.1	1.1	0.0
142.5°	3.3	2.2	1.1	1.1	0.0
145°	2.2	2.2	1.1	1.1	1.1
147.5°	2.2	1.1	1.1	1.1	1.1
150°	1.1	1.1	1.1	1.1	1.1
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.23	16.82	15.61	17.17	17.51	15.62	17.22	16.01	17.56	17.91
	3H	16.88	18.33	17.28	18.68	19.07	17.39	18.84	17.79	19.19	19.58
	4H	17.49	18.86	17.91	19.23	19.64	18.11	19.47	18.53	19.85	20.26
	6H	17.95	19.21	18.38	19.60	20.03	18.72	19.99	19.16	20.38	20.80
	8H	18.10	19.31	18.54	19.72	20.15	18.98	20.19	19.42	20.60	21.03
	12H	18.21	19.37	18.66	19.78	20.24	19.20	20.36	19.65	20.77	21.23
4H	2H	15.86	17.22	16.28	17.60	18.00	16.17	17.54	16.59	17.91	18.32
	3H	17.73	18.88	18.16	19.30	19.73	18.16	19.31	18.60	19.74	20.17
	4H	18.47	19.51	18.92	19.95	20.42	19.03	20.07	19.48	20.50	20.97
	6H	19.05	19.97	19.53	20.43	20.92	19.79	20.71	20.27	21.17	21.66
	8H	19.26	20.11	19.74	20.58	21.07	20.11	20.97	20.60	21.44	21.93
	12H	19.41	20.19	19.92	20.68	21.18	20.42	21.19	20.92	21.69	22.18
8H	4H	18.82	19.67	19.30	20.14	20.63	19.31	20.16	19.79	20.63	21.13
	6H	19.54	20.25	20.05	20.76	21.27	20.22	20.94	20.73	21.45	21.95
	8H	19.82	20.46	20.35	20.99	21.51	20.64	21.29	21.17	21.82	22.33
	12H	20.06	20.64	20.59	21.15	21.74	21.06	21.64	21.59	22.15	22.74
12H	4H	18.87	19.64	19.37	20.14	20.64	19.34	20.11	19.84	20.61	21.11
	6H	19.63	20.27	20.15	20.80	21.32	20.28	20.92	20.81	21.45	21.97
	8H	19.98	20.55	20.50	21.06	21.65	20.77	21.34	21.30	21.85	22.44

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-5

Test Date: 08/26/2025

Luminaire Tested: 22ID2-55-CFR1-L840-U

Data in this report applies to families of products including 22ID2-55-CFR1-L840-U

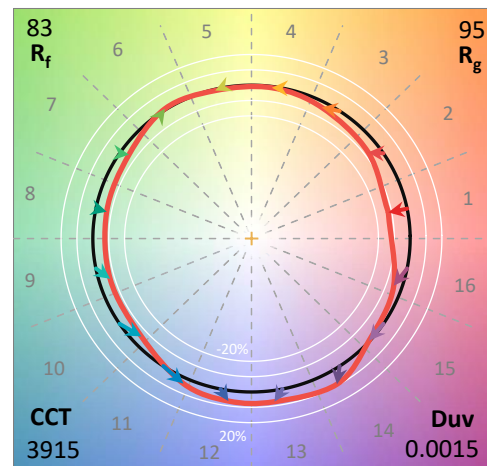
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/27/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Corelite
 Catalog Number: **22ID2-55-CFR1-L840-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 4000K 80CRI

Spectral Parameters

CCT (K): 3915
 CIE u' : 0.2259
 CIE v' : 0.5051
 Duv: 0.0015
 CIE x: 0.3854
 CIE y: 0.3830
 CIE z: 0.2316
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 578
 Purity: 30.6207
 R_f: 83.2
 R_g: 94.6

CRI (Ra): 82.3
 R1: 80.6
 R2: 88.9
 R3: 94.6
 R4: 80.5
 R5: 80.0
 R6: 84.0
 R7: 86.1
 R8: 64.0
 R9: 7.6
 R10: 72.9
 R11: 78.7
 R12: 57.3
 R13: 82.7
 R14: 97.1
 R15: 74.3



Test Conditions

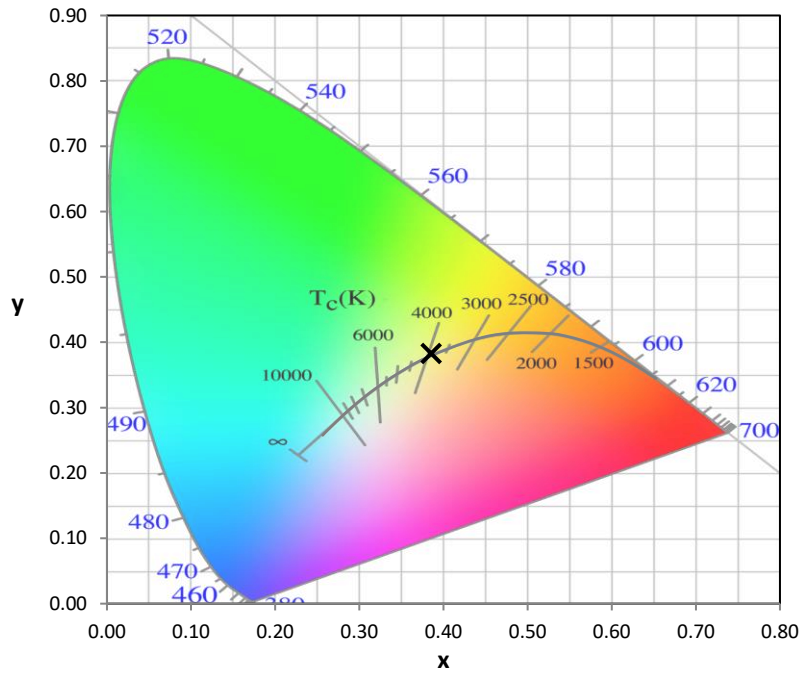
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2506-458-5

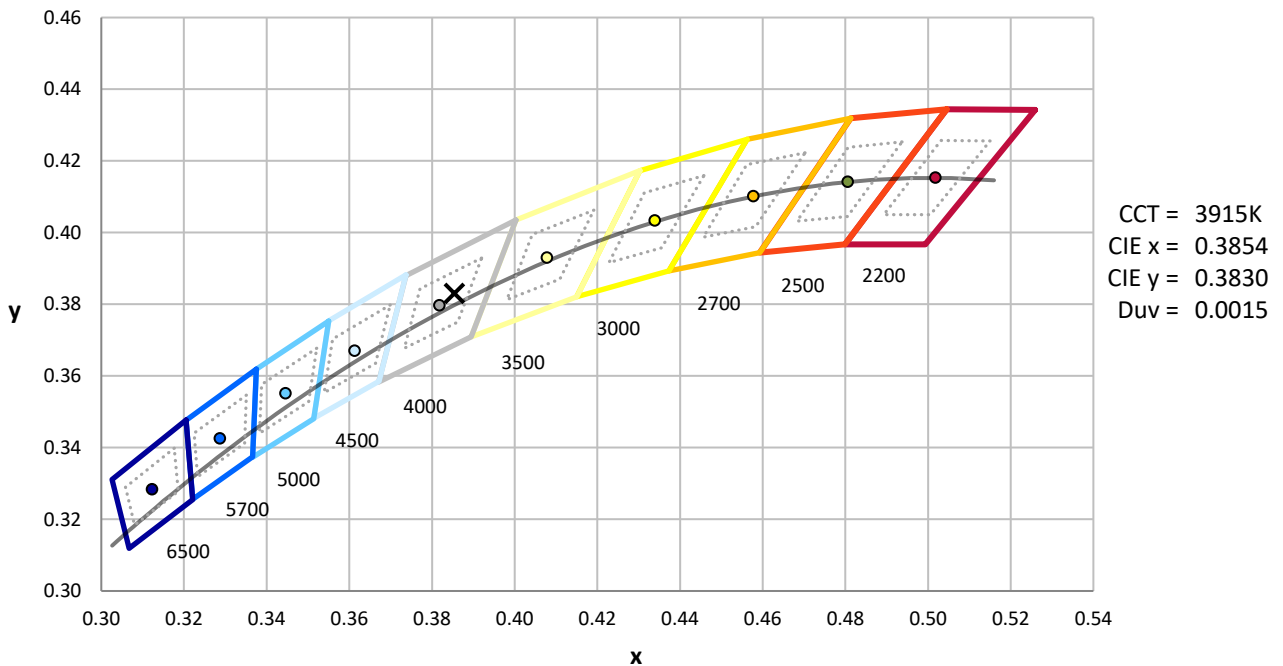
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



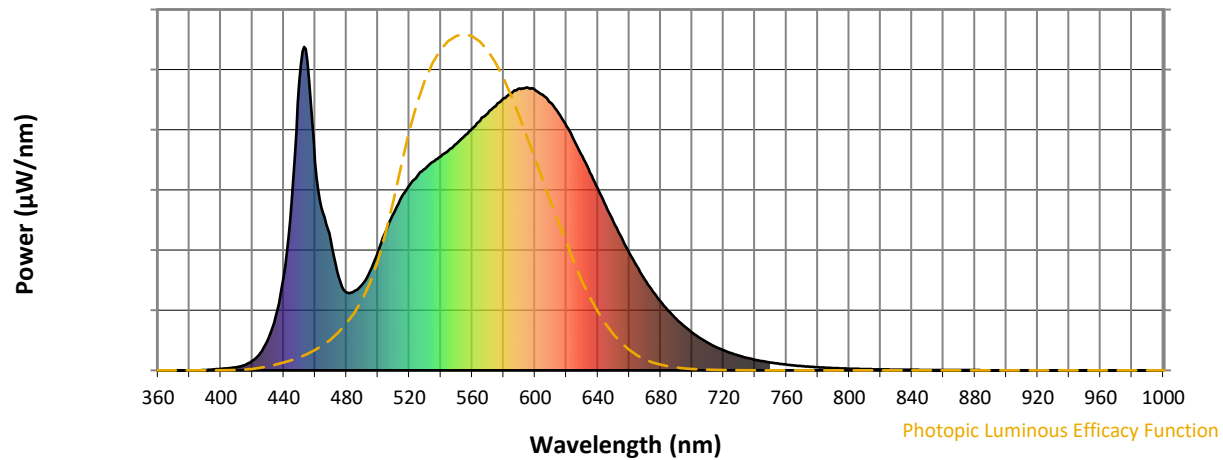
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

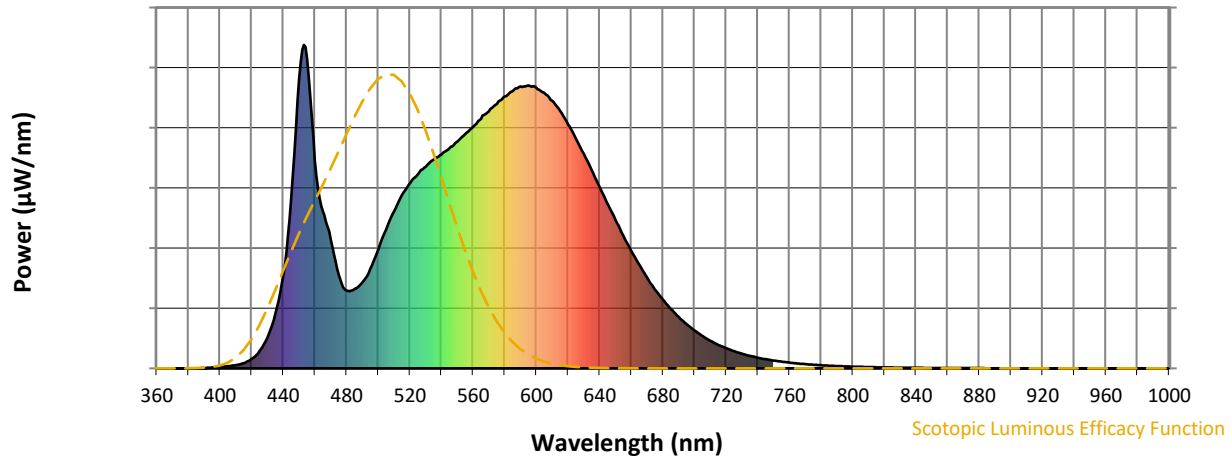


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	755	NR	750	24	NR	880	1	NR
365	0	NR	495	307	NR	625	710	NR	755	21	NR	885	0	NR
370	0	NR	500	366	NR	630	663	NR	760	18	NR	890	0	NR
375	0	NR	505	430	NR	635	612	NR	765	15	NR	895	0	NR
380	0	NR	510	486	NR	640	561	NR	770	13	NR	900	0	NR
385	0	NR	515	536	NR	645	509	NR	775	11	NR	905	0	NR
390	1	NR	520	571	NR	650	458	NR	780	10	NR	910	0	NR
395	3	NR	525	600	NR	655	410	NR	785	8	NR	915	0	NR
400	5	NR	530	624	NR	660	363	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	321	NR	795	6	NR	925	0	NR
410	10	NR	540	661	NR	670	280	NR	800	5	NR	930	0	NR
415	16	NR	545	681	NR	675	244	NR	805	5	NR	935	0	NR
420	30	NR	550	701	NR	680	213	NR	810	4	NR	940	0	NR
425	53	NR	555	724	NR	685	183	NR	815	3	NR	945	0	NR
430	95	NR	560	747	NR	690	159	NR	820	3	NR	950	0	NR
435	170	NR	565	772	NR	695	136	NR	825	3	NR	955	0	NR
440	289	NR	570	795	NR	700	117	NR	830	2	NR	960	0	NR
445	522	NR	575	817	NR	705	100	NR	835	2	NR	965	0	NR
450	895	NR	580	841	NR	710	85	NR	840	2	NR	970	0	NR
455	957	NR	585	857	NR	715	72	NR	845	1	NR	975	0	NR
460	642	NR	590	871	NR	720	62	NR	850	1	NR	980	0	NR
465	487	NR	595	875	NR	725	53	NR	855	1	NR	985	0	NR
470	397	NR	600	866	NR	730	45	NR	860	1	NR	990	0	NR
475	289	NR	605	852	NR	735	39	NR	865	1	NR	995	0	NR
480	241	NR	610	827	NR	740	33	NR	870	1	NR	1000	0	NR
485	245	NR	615	796	NR	745	28	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



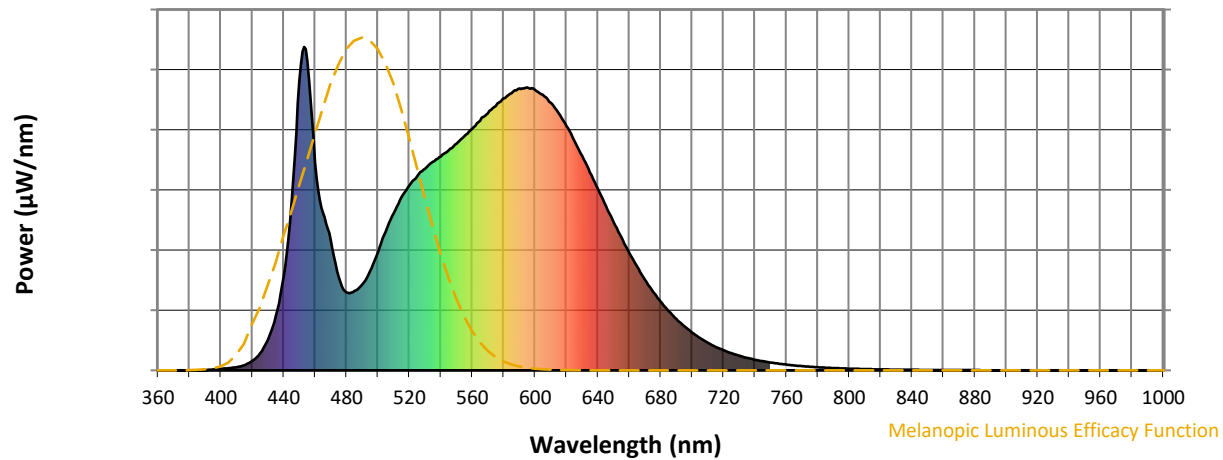
Scotopic Lumens: NR

S/P: 1.65

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	266	NR	620	755	NR	750	24	NR	880	1	NR
365	0	NR	495	307	NR	625	710	NR	755	21	NR	885	0	NR
370	0	NR	500	366	NR	630	663	NR	760	18	NR	890	0	NR
375	0	NR	505	430	NR	635	612	NR	765	15	NR	895	0	NR
380	0	NR	510	486	NR	640	561	NR	770	13	NR	900	0	NR
385	0	NR	515	536	NR	645	509	NR	775	11	NR	905	0	NR
390	1	NR	520	571	NR	650	458	NR	780	10	NR	910	0	NR
395	3	NR	525	600	NR	655	410	NR	785	8	NR	915	0	NR
400	5	NR	530	624	NR	660	363	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	321	NR	795	6	NR	925	0	NR
410	10	NR	540	661	NR	670	280	NR	800	5	NR	930	0	NR
415	16	NR	545	681	NR	675	244	NR	805	5	NR	935	0	NR
420	30	NR	550	701	NR	680	213	NR	810	4	NR	940	0	NR
425	53	NR	555	724	NR	685	183	NR	815	3	NR	945	0	NR
430	95	NR	560	747	NR	690	159	NR	820	3	NR	950	0	NR
435	170	NR	565	772	NR	695	136	NR	825	3	NR	955	0	NR
440	289	NR	570	795	NR	700	117	NR	830	2	NR	960	0	NR
445	522	NR	575	817	NR	705	100	NR	835	2	NR	965	0	NR
450	895	NR	580	841	NR	710	85	NR	840	2	NR	970	0	NR
455	957	NR	585	857	NR	715	72	NR	845	1	NR	975	0	NR
460	642	NR	590	871	NR	720	62	NR	850	1	NR	980	0	NR
465	487	NR	595	875	NR	725	53	NR	855	1	NR	985	0	NR
470	397	NR	600	866	NR	730	45	NR	860	1	NR	990	0	NR
475	289	NR	605	852	NR	735	39	NR	865	1	NR	995	0	NR
480	241	NR	610	827	NR	740	33	NR	870	1	NR	1000	0	NR
485	245	NR	615	796	NR	745	28	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.36

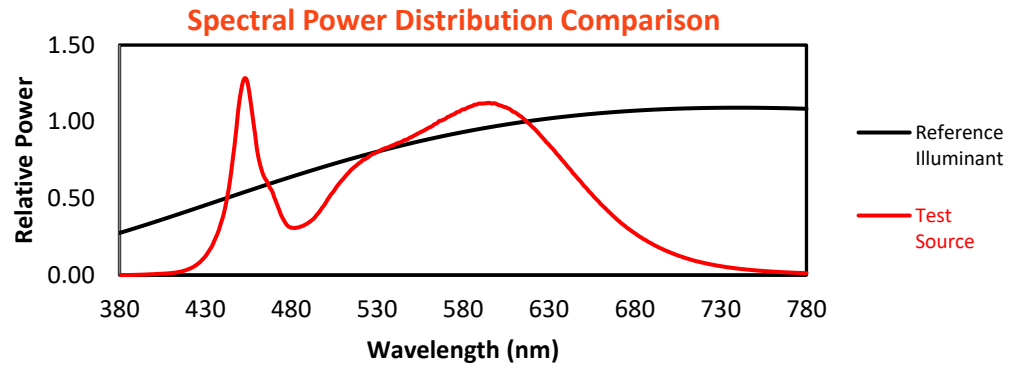
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	266	NR	620	755	NR	750	24	NR	880	1	NR
365	0	NR	495	307	NR	625	710	NR	755	21	NR	885	0	NR
370	0	NR	500	366	NR	630	663	NR	760	18	NR	890	0	NR
375	0	NR	505	430	NR	635	612	NR	765	15	NR	895	0	NR
380	0	NR	510	486	NR	640	561	NR	770	13	NR	900	0	NR
385	0	NR	515	536	NR	645	509	NR	775	11	NR	905	0	NR
390	1	NR	520	571	NR	650	458	NR	780	10	NR	910	0	NR
395	3	NR	525	600	NR	655	410	NR	785	8	NR	915	0	NR
400	5	NR	530	624	NR	660	363	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	321	NR	795	6	NR	925	0	NR
410	10	NR	540	661	NR	670	280	NR	800	5	NR	930	0	NR
415	16	NR	545	681	NR	675	244	NR	805	5	NR	935	0	NR
420	30	NR	550	701	NR	680	213	NR	810	4	NR	940	0	NR
425	53	NR	555	724	NR	685	183	NR	815	3	NR	945	0	NR
430	95	NR	560	747	NR	690	159	NR	820	3	NR	950	0	NR
435	170	NR	565	772	NR	695	136	NR	825	3	NR	955	0	NR
440	289	NR	570	795	NR	700	117	NR	830	2	NR	960	0	NR
445	522	NR	575	817	NR	705	100	NR	835	2	NR	965	0	NR
450	895	NR	580	841	NR	710	85	NR	840	2	NR	970	0	NR
455	957	NR	585	857	NR	715	72	NR	845	1	NR	975	0	NR
460	642	NR	590	871	NR	720	62	NR	850	1	NR	980	0	NR
465	487	NR	595	875	NR	725	53	NR	855	1	NR	985	0	NR
470	397	NR	600	866	NR	730	45	NR	860	1	NR	990	0	NR
475	289	NR	605	852	NR	735	39	NR	865	1	NR	995	0	NR
480	241	NR	610	827	NR	740	33	NR	870	1	NR	1000	0	NR
485	245	NR	615	796	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-5

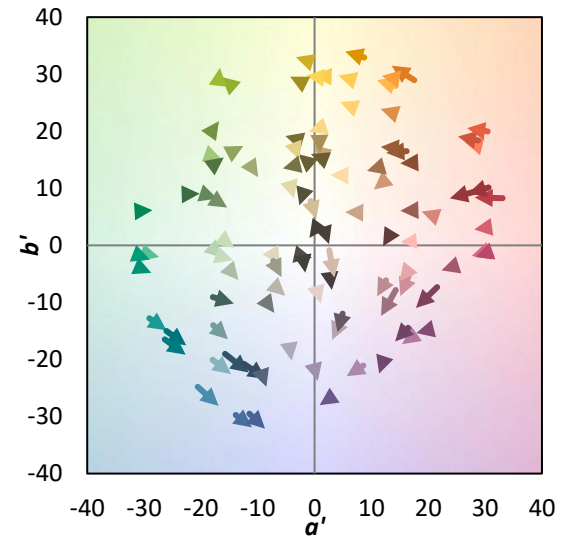
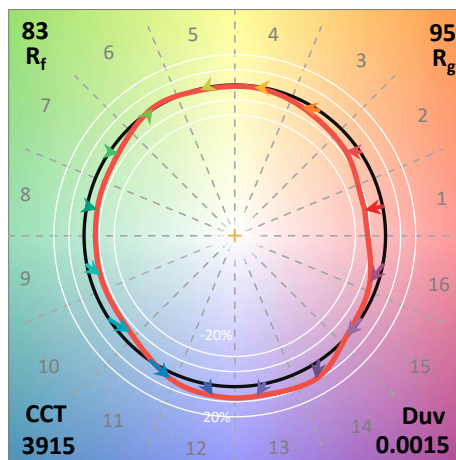
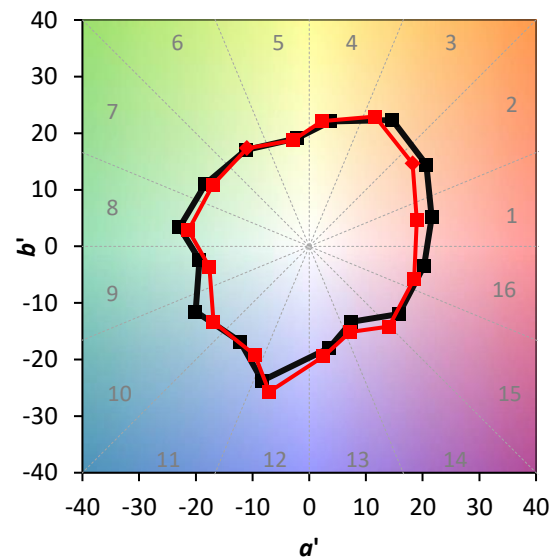
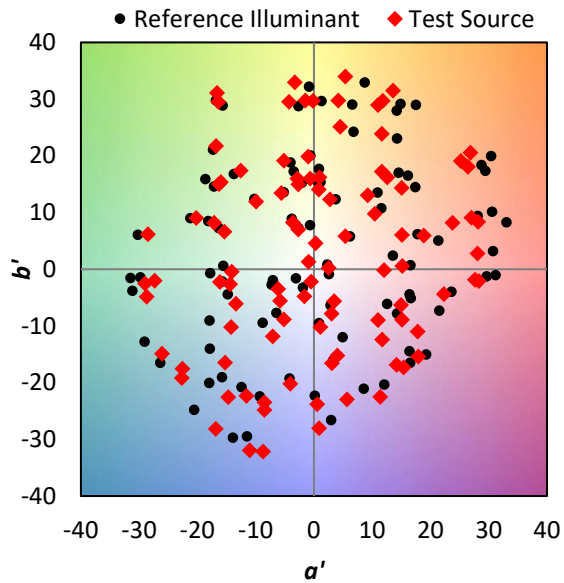
TM-30-18

Summary

$R_f = 83.2$
 $R_g = 94.6$
 $CIE R_a = 82.3$
 $R_9 = 7.6$

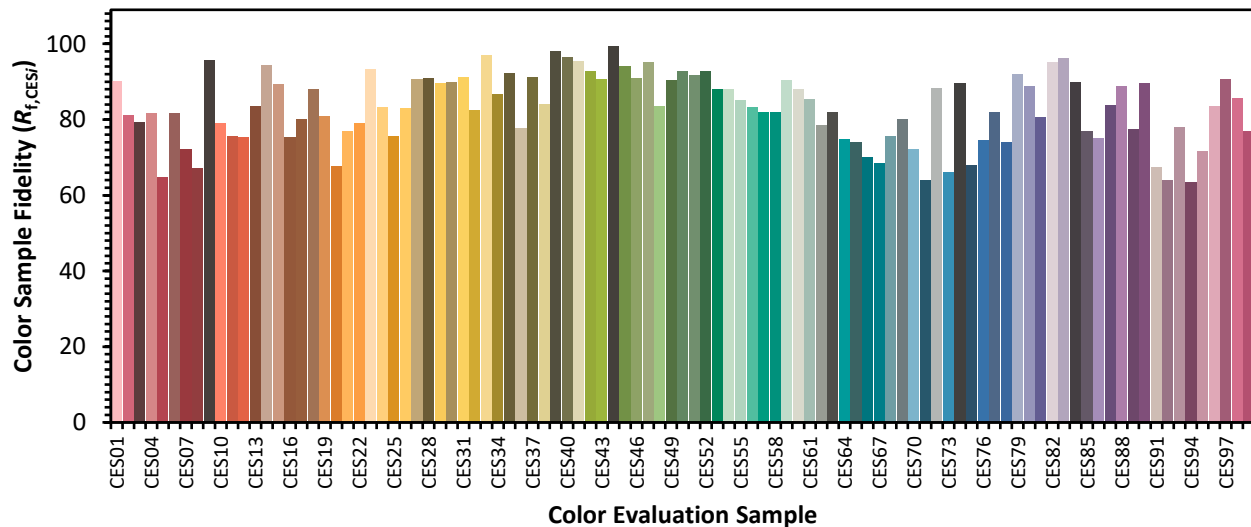


Color Vector Graphics

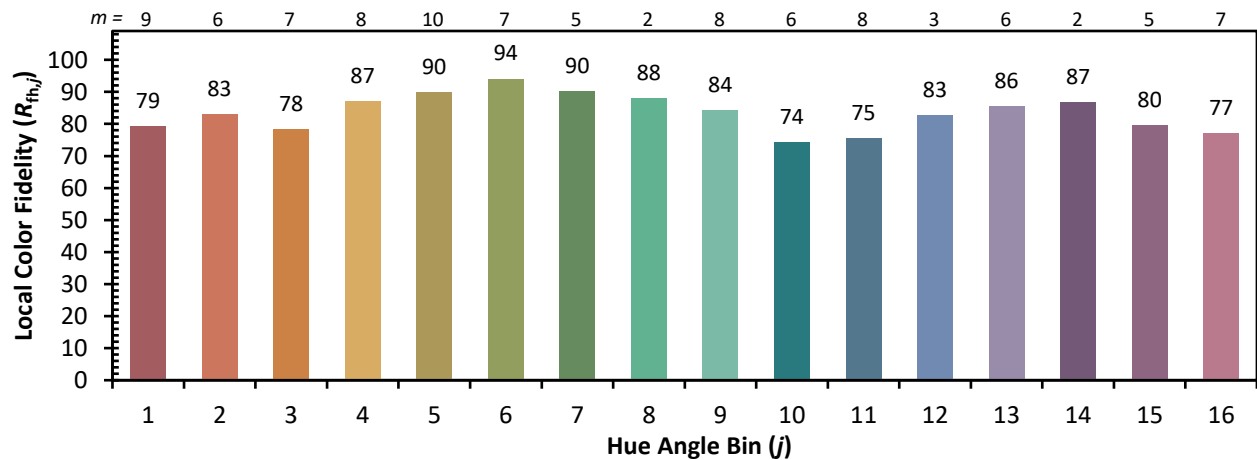
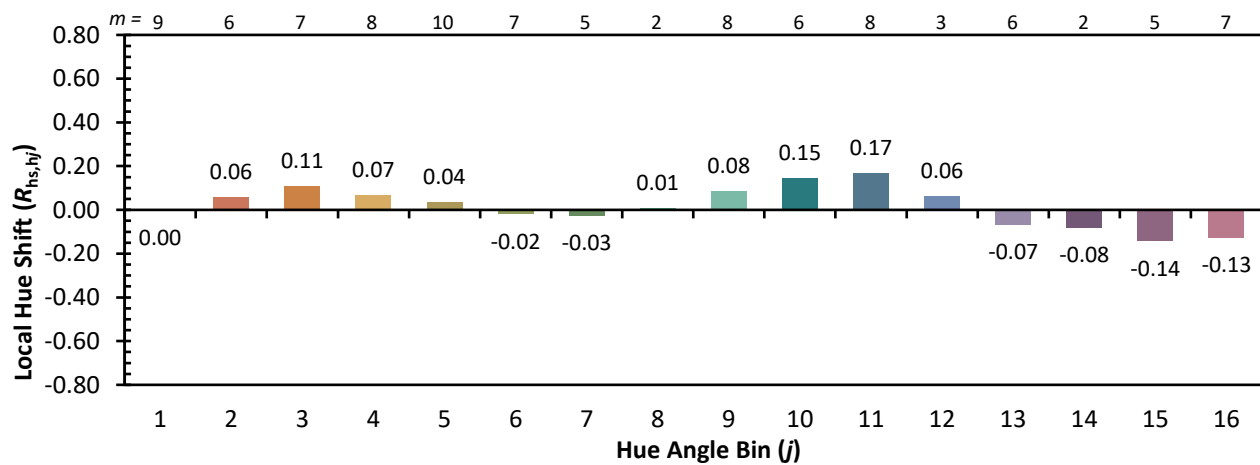
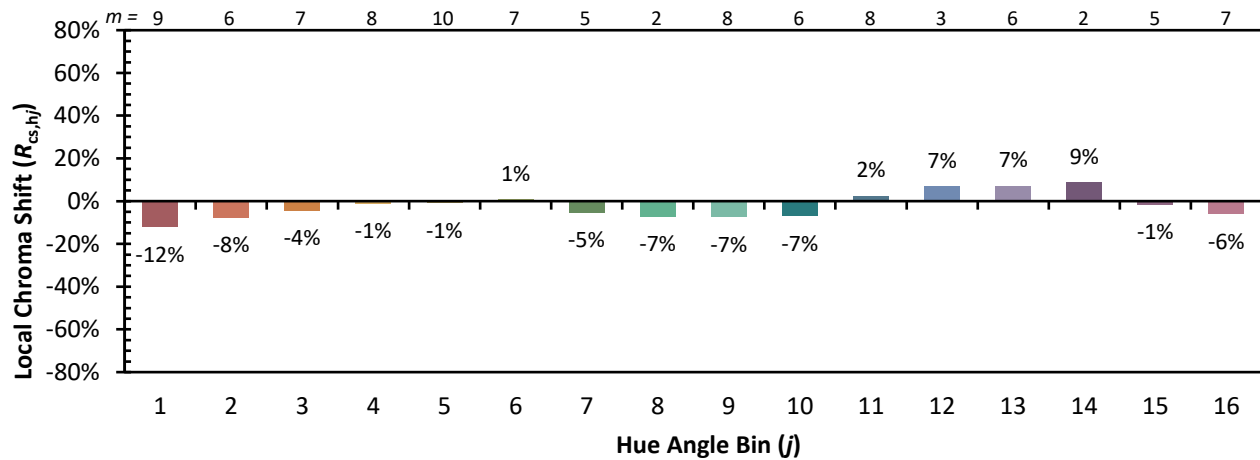


Individual Sample Fidelity Index ($R_{f,i}$)

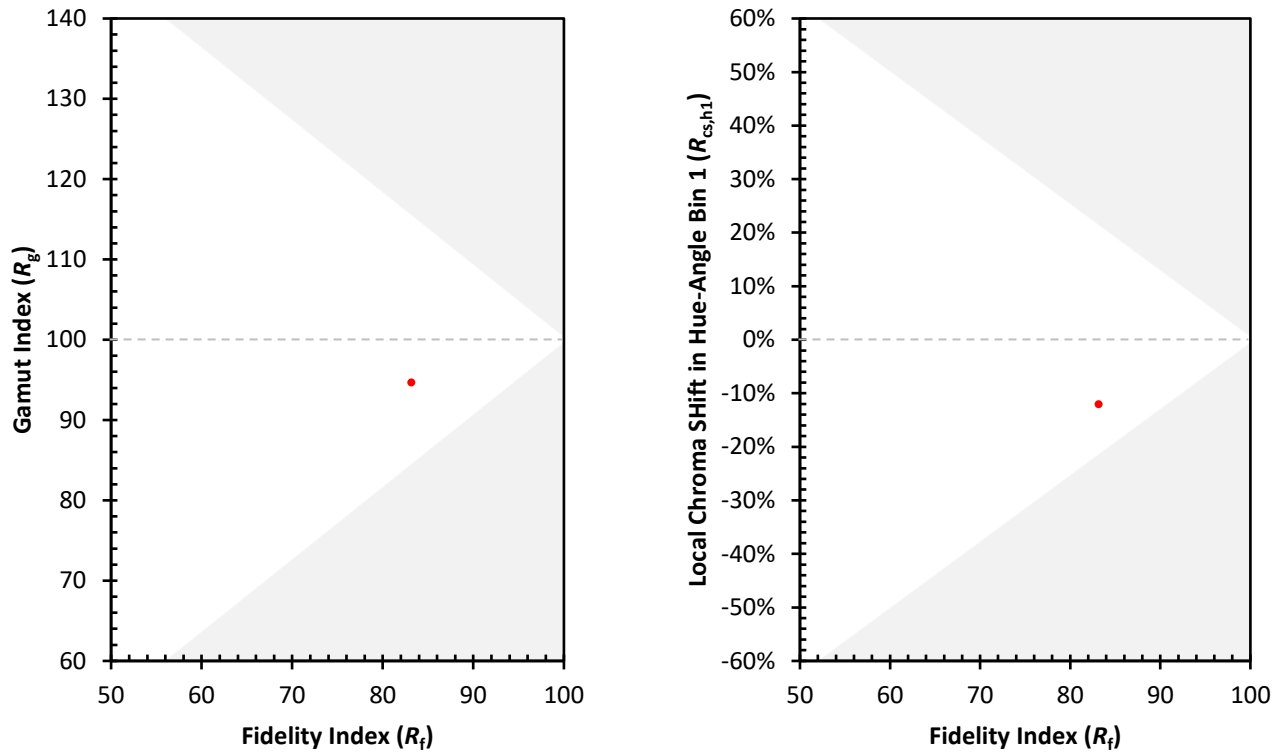
CES01 = 86	CES26 = 83	CES51 = 92	CES76 = 75
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 88	CES78 = 74
CES04 = 70	CES29 = 90	CES54 = 88	CES79 = 92
CES05 = 48	CES30 = 90	CES55 = 85	CES80 = 89
CES06 = 50	CES31 = 91	CES56 = 83	CES81 = 81
CES07 = 41	CES32 = 83	CES57 = 82	CES82 = 95
CES08 = 40	CES33 = 97	CES58 = 82	CES83 = 96
CES09 = 29	CES34 = 87	CES59 = 90	CES84 = 90
CES10 = 74	CES35 = 92	CES60 = 88	CES85 = 77
CES11 = 57	CES36 = 78	CES61 = 85	CES86 = 75
CES12 = 63	CES37 = 91	CES62 = 79	CES87 = 84
CES13 = 42	CES38 = 84	CES63 = 82	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 75	CES89 = 77
CES15 = 71	CES40 = 96	CES65 = 74	CES90 = 90
CES16 = 47	CES41 = 95	CES66 = 70	CES91 = 67
CES17 = 49	CES42 = 93	CES67 = 69	CES92 = 64
CES18 = 56	CES43 = 91	CES68 = 76	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 63
CES20 = 65	CES45 = 94	CES70 = 72	CES95 = 72
CES21 = 86	CES46 = 91	CES71 = 64	CES96 = 84
CES22 = 78	CES47 = 95	CES72 = 88	CES97 = 91
CES23 = 91	CES48 = 83	CES73 = 66	CES98 = 86
CES24 = 90	CES49 = 90	CES74 = 90	CES99 = 77
CES25 = 71	CES50 = 93	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)