

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: P1215733

Luminaire Tested: 24-ID2-72-CFR2-L930-U

Issue Date: 12/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1215733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 12/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24-ID2-72-CFR2-L930-U
Description: 2X4 IN DEPTH TROFFER WITH 2INCH CUBE REGRESS LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

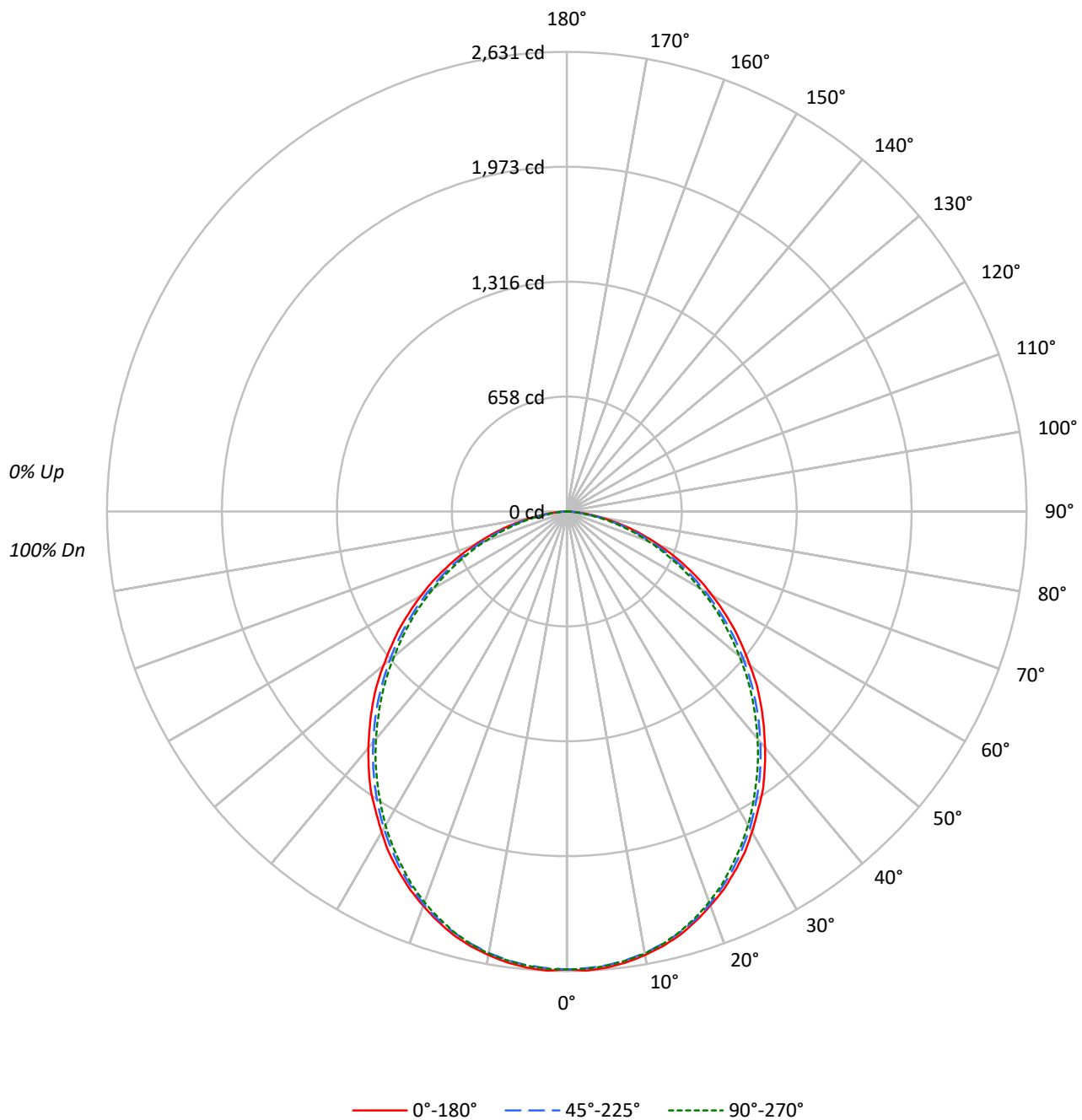
Lumens per Lamp: N/A
Luminaire Lumens: 6524.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P1215733
CATALOG NUMBER: 24-ID2-72-CFR2-L930-U

Luminous Intensity Polar Plot



TEST NUMBER: P1215733

CATALOG NUMBER: 24-ID2-72-CFR2-L930-U

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		72
3	91	81	74	67	89	80	73	67	77	71	65		74	69	64		61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	55		53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		29
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3528	3528	3528
5°	3540	3522	3525
10°	3524	3507	3512
15°	3495	3476	3472
20°	3439	3426	3408
25°	3377	3347	3320
30°	3293	3254	3223
35°	3211	3146	3105
40°	3101	3026	2984
45°	2992	2900	2851
50°	2862	2764	2698
55°	2738	2614	2548
60°	2589	2453	2366
65°	2419	2272	2167
70°	2208	2064	1952
75°	1954	1778	1648
80°	1574	1401	1284
85°	1045	894	729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2992 cd/sqm

TEST NUMBER: P1215733
 CATALOG NUMBER: 24-ID2-72-CFR2-L930-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	3.8
10°-20°	703.2	10.8
20°-30°	1037.7	15.9
30°-40°	1199.9	18.4
40°-50°	1180.1	18.1
50°-60°	1002.2	15.4
60°-70°	710.5	10.9
70°-80°	366.2	5.6
80°-90°	77.0	1.2
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°	1988.7	30.5
0°-40°	3188.6	48.9
0°-60°	5371.0	82.3
0°-90°	6524.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6524.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2622	2622	2622	2622	2622	
5°	2621	2611	2608	2605	2610	249
15°	2509	2499	2495	2490	2493	707
25°	2274	2266	2255	2240	2236	1047
35°	1955	1944	1915	1898	1890	1219
45°	1572	1559	1524	1503	1498	1212
55°	1167	1149	1114	1095	1086	1042
65°	760	741	714	690	681	753
75°	376	360	342	322	317	398
85°	68	64	58	52	47	85
90°	0	0	0	0	0	

TEST NUMBER: P1215733

CATALOG NUMBER: 24-ID2-72-CFR2-L930-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2621.8	2621.8	2621.8	2621.8	2621.8
2.5°	2630.7	2621.8	2616.5	2614.7	2620.9
5°	2620.9	2611.1	2607.6	2604.9	2610.2
7.5°	2604.0	2594.2	2590.6	2588.0	2593.3
10°	2579.1	2570.2	2566.6	2563.9	2570.2
12.5°	2547.9	2539.0	2534.5	2531.8	2536.3
15°	2508.7	2498.9	2495.3	2490.0	2492.6
17.5°	2458.8	2451.7	2449.0	2439.2	2440.1
20°	2401.8	2396.4	2392.9	2378.6	2380.4
22.5°	2343.0	2335.9	2326.9	2314.5	2314.5
25°	2274.4	2266.4	2254.8	2240.5	2236.1
27.5°	2203.1	2194.2	2175.5	2163.0	2158.6
30°	2119.4	2114.0	2094.4	2078.4	2074.8
32.5°	2033.9	2030.3	2005.3	1992.0	1983.1
35°	1954.6	1943.9	1915.4	1898.4	1890.4
37.5°	1861.0	1851.2	1820.9	1805.8	1796.9
40°	1765.7	1753.2	1722.9	1710.5	1698.9
42.5°	1668.6	1659.7	1624.9	1605.3	1597.3
45°	1572.4	1559.0	1524.3	1502.9	1498.4
47.5°	1475.3	1456.6	1422.7	1400.4	1396.0
50°	1367.5	1354.1	1320.3	1297.1	1289.1
52.5°	1265.9	1249.9	1219.6	1197.3	1186.6
55°	1167.0	1149.2	1114.5	1094.9	1086.0
57.5°	1062.8	1046.8	1015.6	990.6	983.5
60°	962.1	941.6	911.4	890.9	879.3
62.5°	863.3	842.8	813.4	787.5	782.2
65°	759.9	741.2	713.6	690.4	680.6
67.5°	660.1	641.4	614.7	596.9	588.0
70°	561.2	546.1	524.7	501.6	496.2
72.5°	466.8	452.6	430.3	410.7	406.2
75°	375.9	359.9	342.1	322.5	317.1
77.5°	284.2	276.2	257.5	246.8	240.5
80°	203.1	193.3	180.8	171.0	165.7
82.5°	126.5	122.9	114.9	106.0	100.7
85°	67.7	64.1	57.9	51.7	47.2
87.5°	18.7	20.5	20.5	19.6	19.6
90°	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	15.50	17.08	15.86	17.39	17.71	15.08	16.67	15.45	16.98	17.30
	3H	17.12	18.55	17.50	18.87	19.24	16.60	18.03	16.98	18.36	18.72
	4H	17.69	19.03	18.09	19.38	19.75	17.10	18.44	17.50	18.79	19.17
	6H	18.05	19.29	18.46	19.65	20.05	17.40	18.64	17.81	19.01	19.40
	8H	18.14	19.32	18.56	19.71	20.11	17.47	18.65	17.89	19.04	19.44
	12H	18.17	19.31	18.60	19.69	20.12	17.49	18.62	17.92	19.00	19.43
4H	2H	16.01	17.35	16.41	17.70	18.08	15.68	17.02	16.08	17.37	17.75
	3H	17.85	18.96	18.26	19.36	19.76	17.40	18.52	17.81	18.92	19.32
	4H	18.52	19.53	18.96	19.95	20.38	18.00	19.01	18.43	19.42	19.86
	6H	18.99	19.87	19.45	20.31	20.77	18.40	19.28	18.86	19.72	20.18
	8H	19.11	19.93	19.57	20.38	20.84	18.49	19.31	18.95	19.75	20.22
	12H	19.18	19.91	19.66	20.39	20.86	18.53	19.27	19.01	19.74	20.21
8H	4H	18.73	19.55	19.19	19.99	20.46	18.26	19.08	18.72	19.52	19.99
	6H	19.28	19.96	19.78	20.45	20.93	18.74	19.42	19.24	19.91	20.39
	8H	19.45	20.06	19.96	20.57	21.05	18.87	19.48	19.38	19.99	20.48
	12H	19.56	20.10	20.07	20.59	21.15	18.95	19.48	19.45	19.97	20.54
12H	4H	18.74	19.47	19.22	19.95	20.42	18.28	19.01	18.76	19.49	19.96
	6H	19.30	19.91	19.81	20.41	20.90	18.77	19.38	19.28	19.89	20.37
	8H	19.50	20.04	20.01	20.53	21.10	18.94	19.48	19.45	19.97	20.53

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

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-9

Test Date: 08/26/2025

Luminaire Tested: 22ID2-55-CFR1-L930-U

Data in this report applies to families of products including 22ID2-55-CFR1-L930-U

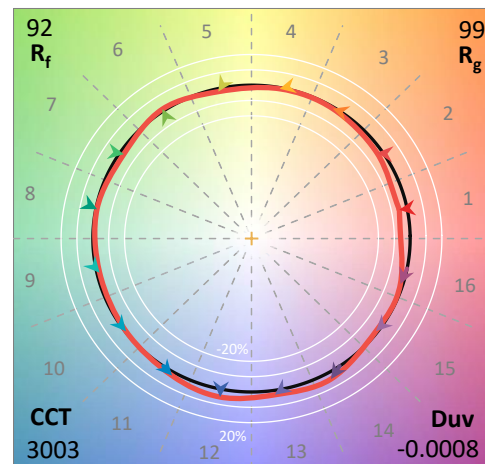
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-9
 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-L930-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 3000K 90CRI

Spectral Parameters

CCT (K): 3003
 CIE u' : 0.2507
 CIE v' : 0.5202
 Duv: -0.0008
 CIE x: 0.4356
 CIE y: 0.4017
 CIE z: 0.1627
 Peak Wavelength (nm): 618
 Dominant Wavelength (nm): 583
 Purity: 51.31044
 R_f: 91.9
 R_g: 99.2

CRI (Ra): 93.2
 R1: 93.7
 R2: 97.2
 R3: 98.7
 R4: 93.5
 R5: 93.6
 R6: 96.3
 R7: 91.5
 R8: 81.5
 R9: 59.0
 R10: 92.7
 R11: 94.9
 R12: 82.6
 R13: 94.8
 R14: 99.1
 R15: 89.5



Test Conditions

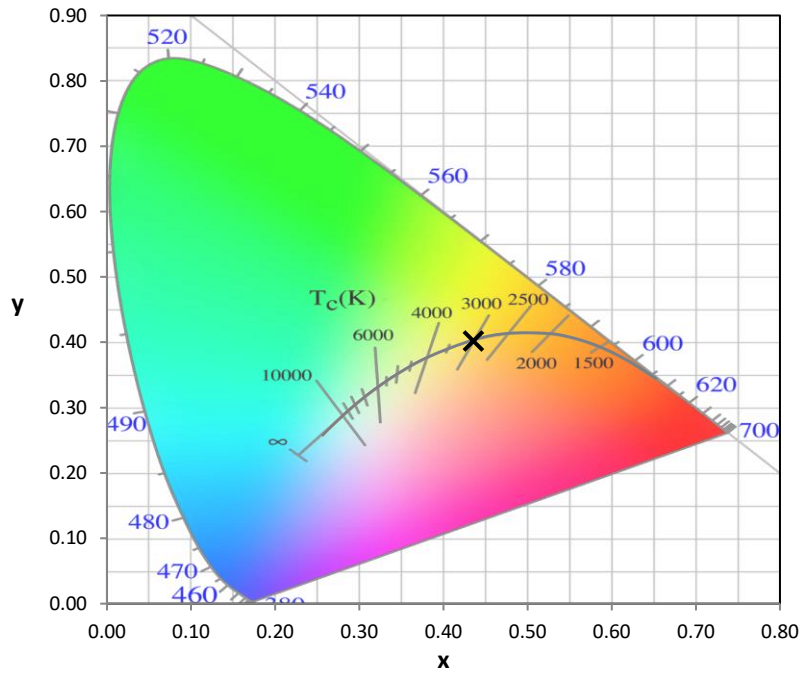
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 25.2

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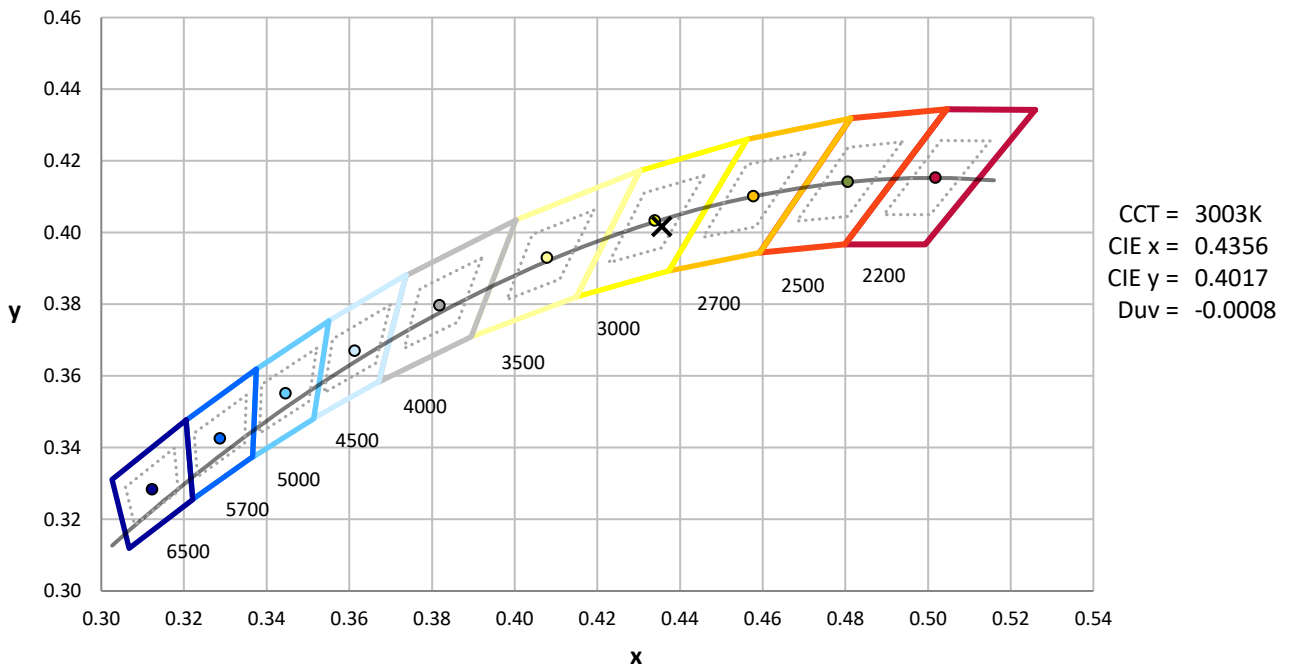
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

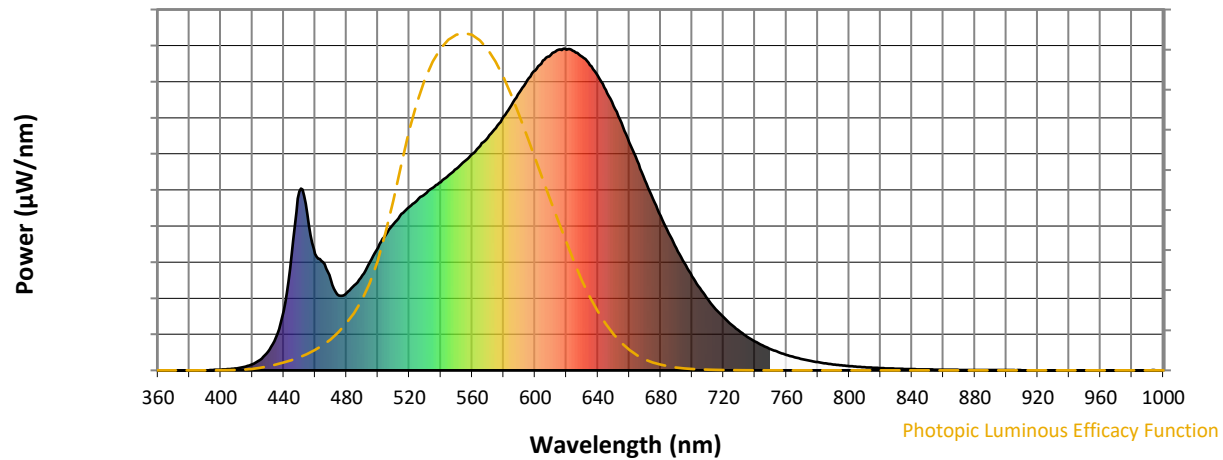


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

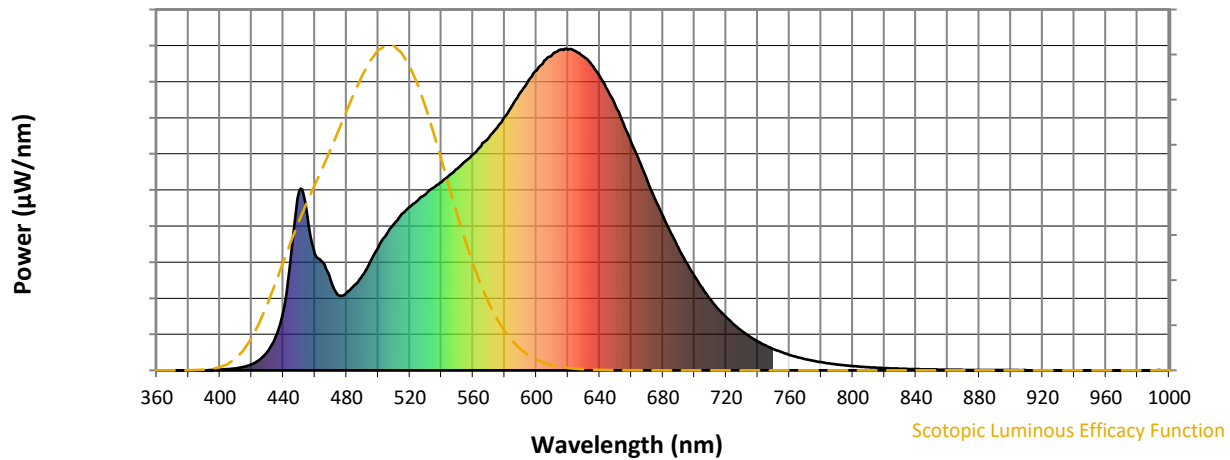


Photopic Lumens: NR

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	296	NR	620	997	NR	750	66	NR	880	1	NR
365	0	NR	495	338	NR	625	992	NR	755	56	NR	885	1	NR
370	0	NR	500	381	NR	630	975	NR	760	48	NR	890	1	NR
375	0	NR	505	421	NR	635	949	NR	765	41	NR	895	1	NR
380	0	NR	510	456	NR	640	916	NR	770	35	NR	900	1	NR
385	0	NR	515	487	NR	645	871	NR	775	30	NR	905	1	NR
390	0	NR	520	508	NR	650	821	NR	780	26	NR	910	1	NR
395	1	NR	525	529	NR	655	769	NR	785	22	NR	915	0	NR
400	2	NR	530	548	NR	660	709	NR	790	18	NR	920	0	NR
405	4	NR	535	568	NR	665	652	NR	795	16	NR	925	0	NR
410	6	NR	540	585	NR	670	591	NR	800	13	NR	930	0	NR
415	11	NR	545	607	NR	675	534	NR	805	11	NR	935	0	NR
420	19	NR	550	627	NR	680	480	NR	810	10	NR	940	0	NR
425	33	NR	555	649	NR	685	427	NR	815	8	NR	945	0	NR
430	58	NR	560	673	NR	690	380	NR	820	7	NR	950	0	NR
435	103	NR	565	697	NR	695	334	NR	825	6	NR	955	0	NR
440	184	NR	570	723	NR	700	292	NR	830	5	NR	960	0	NR
445	360	NR	575	753	NR	705	255	NR	835	4	NR	965	0	NR
450	557	NR	580	789	NR	710	221	NR	840	4	NR	970	0	NR
455	486	NR	585	825	NR	715	190	NR	845	3	NR	975	0	NR
460	362	NR	590	864	NR	720	166	NR	850	3	NR	980	0	NR
465	337	NR	595	902	NR	725	143	NR	855	2	NR	985	0	NR
470	279	NR	600	932	NR	730	122	NR	860	2	NR	990	0	NR
475	233	NR	605	963	NR	735	105	NR	865	2	NR	995	0	NR
480	241	NR	610	981	NR	740	90	NR	870	1	NR	1000	0	NR
485	264	NR	615	997	NR	745	77	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



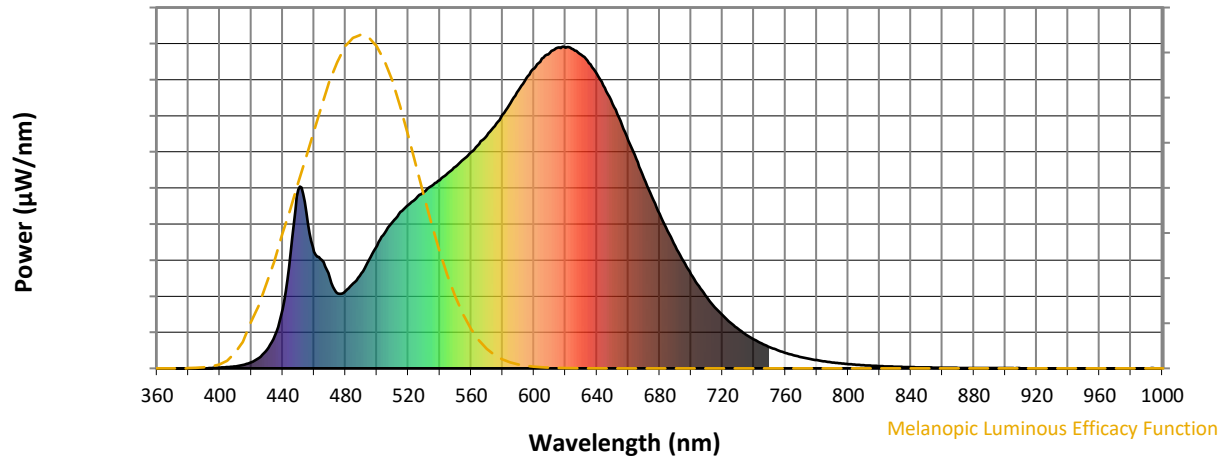
Scotopic Lumens: NR

S/P: 1.43

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	296	NR	620	997	NR	750	66	NR	880	1	NR
365	0	NR	495	338	NR	625	992	NR	755	56	NR	885	1	NR
370	0	NR	500	381	NR	630	975	NR	760	48	NR	890	1	NR
375	0	NR	505	421	NR	635	949	NR	765	41	NR	895	1	NR
380	0	NR	510	456	NR	640	916	NR	770	35	NR	900	1	NR
385	0	NR	515	487	NR	645	871	NR	775	30	NR	905	1	NR
390	0	NR	520	508	NR	650	821	NR	780	26	NR	910	1	NR
395	1	NR	525	529	NR	655	769	NR	785	22	NR	915	0	NR
400	2	NR	530	548	NR	660	709	NR	790	18	NR	920	0	NR
405	4	NR	535	568	NR	665	652	NR	795	16	NR	925	0	NR
410	6	NR	540	585	NR	670	591	NR	800	13	NR	930	0	NR
415	11	NR	545	607	NR	675	534	NR	805	11	NR	935	0	NR
420	19	NR	550	627	NR	680	480	NR	810	10	NR	940	0	NR
425	33	NR	555	649	NR	685	427	NR	815	8	NR	945	0	NR
430	58	NR	560	673	NR	690	380	NR	820	7	NR	950	0	NR
435	103	NR	565	697	NR	695	334	NR	825	6	NR	955	0	NR
440	184	NR	570	723	NR	700	292	NR	830	5	NR	960	0	NR
445	360	NR	575	753	NR	705	255	NR	835	4	NR	965	0	NR
450	557	NR	580	789	NR	710	221	NR	840	4	NR	970	0	NR
455	486	NR	585	825	NR	715	190	NR	845	3	NR	975	0	NR
460	362	NR	590	864	NR	720	166	NR	850	3	NR	980	0	NR
465	337	NR	595	902	NR	725	143	NR	855	2	NR	985	0	NR
470	279	NR	600	932	NR	730	122	NR	860	2	NR	990	0	NR
475	233	NR	605	963	NR	735	105	NR	865	2	NR	995	0	NR
480	241	NR	610	981	NR	740	90	NR	870	1	NR	1000	0	NR
485	264	NR	615	997	NR	745	77	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.82

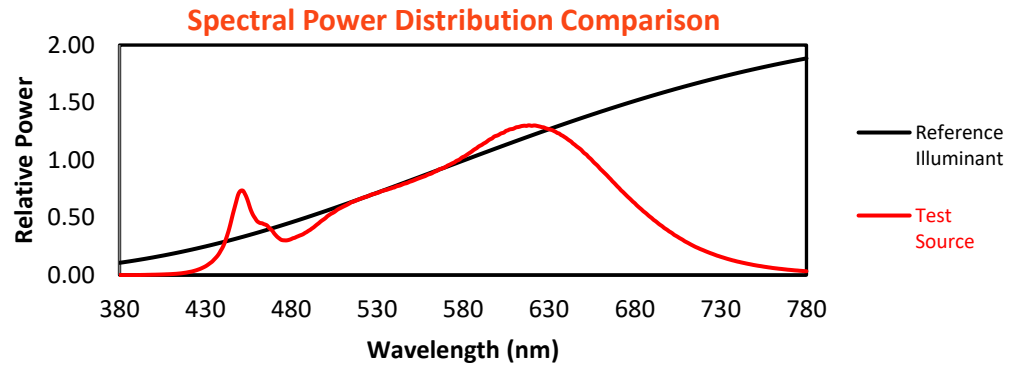
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	296	NR	620	997	NR	750	66	NR	880	1	NR
365	0	NR	495	338	NR	625	992	NR	755	56	NR	885	1	NR
370	0	NR	500	381	NR	630	975	NR	760	48	NR	890	1	NR
375	0	NR	505	421	NR	635	949	NR	765	41	NR	895	1	NR
380	0	NR	510	456	NR	640	916	NR	770	35	NR	900	1	NR
385	0	NR	515	487	NR	645	871	NR	775	30	NR	905	1	NR
390	0	NR	520	508	NR	650	821	NR	780	26	NR	910	1	NR
395	1	NR	525	529	NR	655	769	NR	785	22	NR	915	0	NR
400	2	NR	530	548	NR	660	709	NR	790	18	NR	920	0	NR
405	4	NR	535	568	NR	665	652	NR	795	16	NR	925	0	NR
410	6	NR	540	585	NR	670	591	NR	800	13	NR	930	0	NR
415	11	NR	545	607	NR	675	534	NR	805	11	NR	935	0	NR
420	19	NR	550	627	NR	680	480	NR	810	10	NR	940	0	NR
425	33	NR	555	649	NR	685	427	NR	815	8	NR	945	0	NR
430	58	NR	560	673	NR	690	380	NR	820	7	NR	950	0	NR
435	103	NR	565	697	NR	695	334	NR	825	6	NR	955	0	NR
440	184	NR	570	723	NR	700	292	NR	830	5	NR	960	0	NR
445	360	NR	575	753	NR	705	255	NR	835	4	NR	965	0	NR
450	557	NR	580	789	NR	710	221	NR	840	4	NR	970	0	NR
455	486	NR	585	825	NR	715	190	NR	845	3	NR	975	0	NR
460	362	NR	590	864	NR	720	166	NR	850	3	NR	980	0	NR
465	337	NR	595	902	NR	725	143	NR	855	2	NR	985	0	NR
470	279	NR	600	932	NR	730	122	NR	860	2	NR	990	0	NR
475	233	NR	605	963	NR	735	105	NR	865	2	NR	995	0	NR
480	241	NR	610	981	NR	740	90	NR	870	1	NR	1000	0	NR
485	264	NR	615	997	NR	745	77	NR	875	1	NR			

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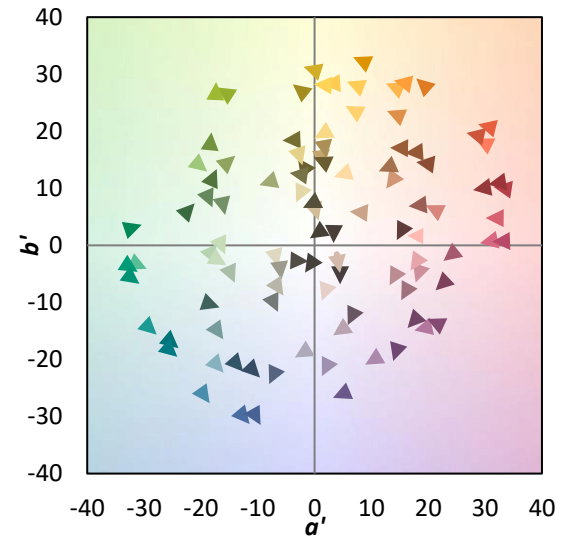
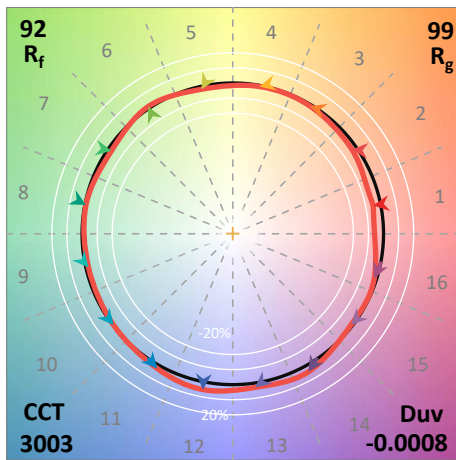
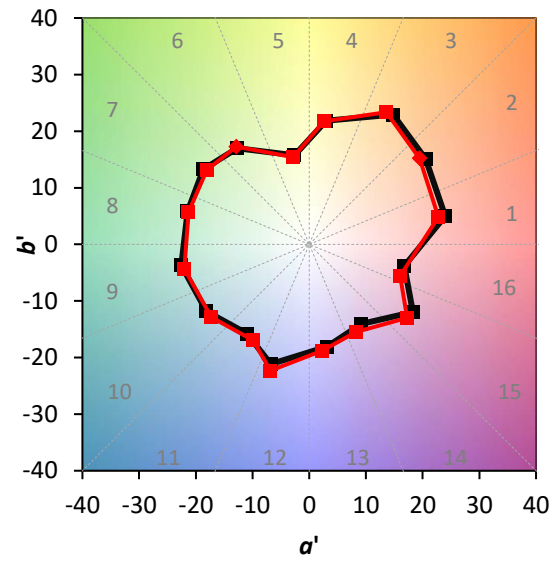
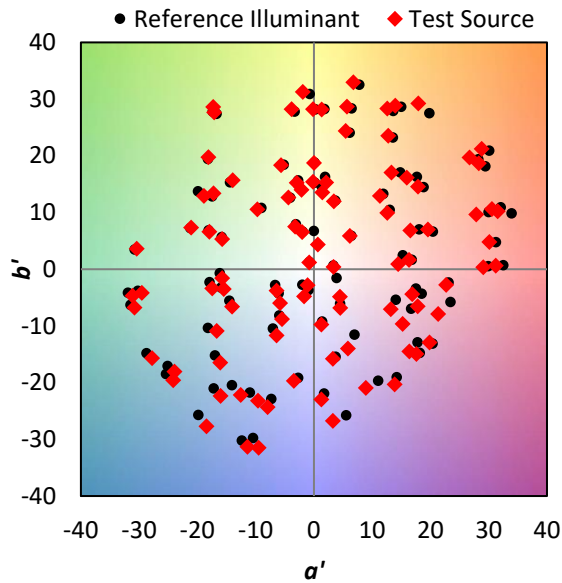
TM-30-18

Summary

$R_f = 91.9$
 $R_g = 99.2$
 $CIE\ R_a = 93.2$
 $R_9 = 59.0$

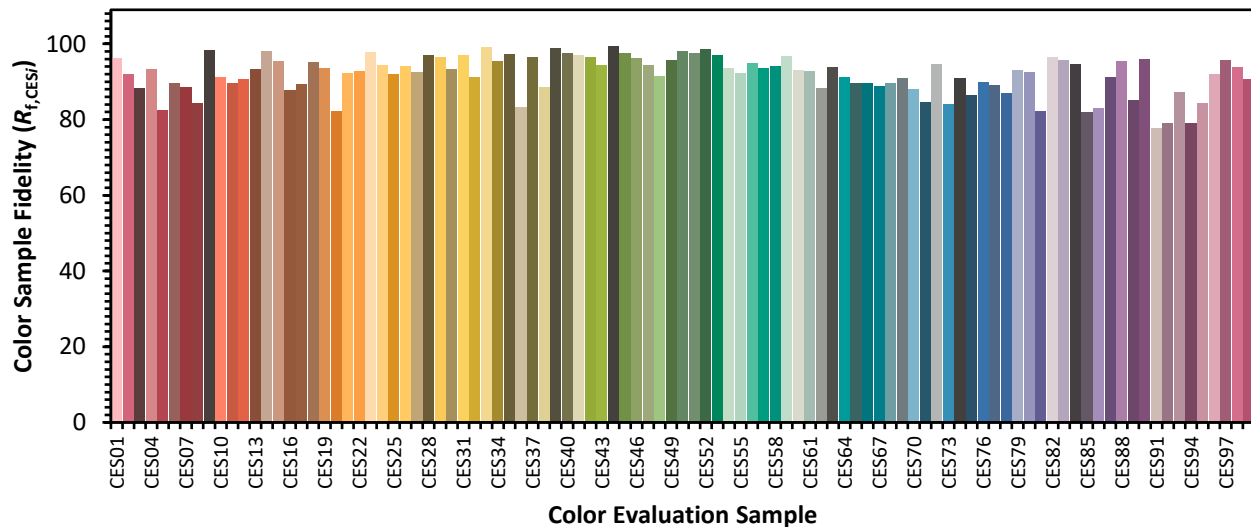


Color Vector Graphics

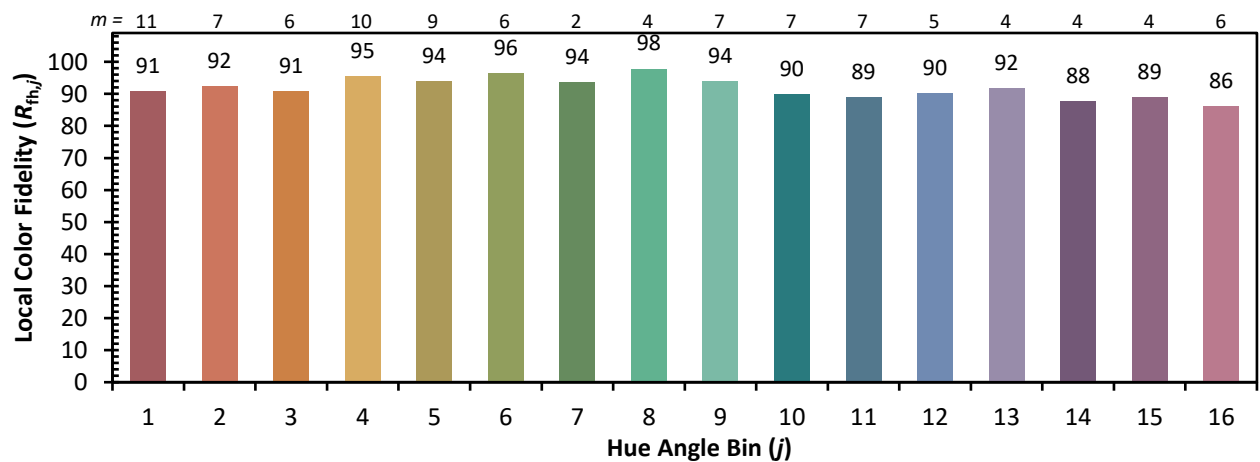
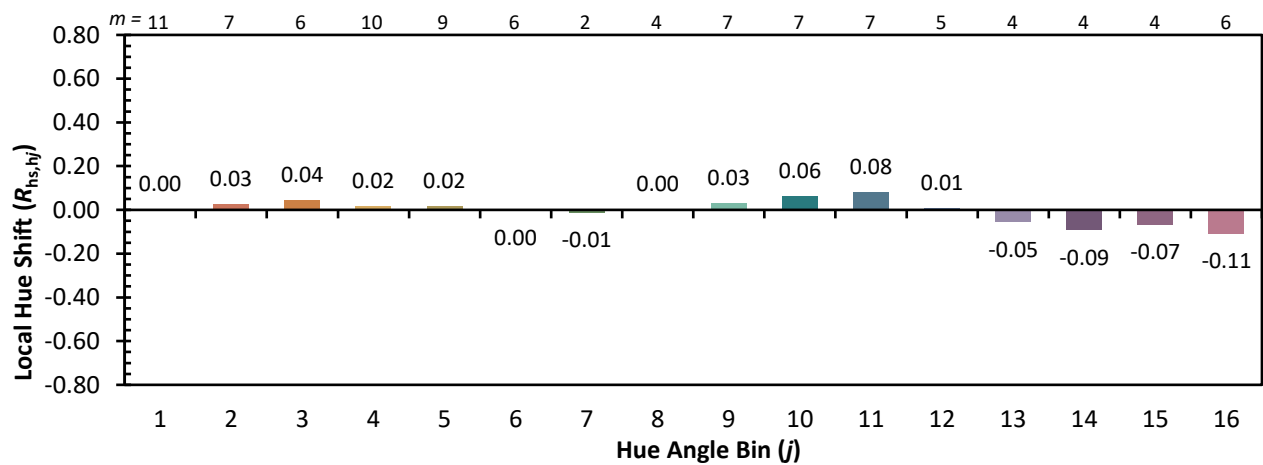
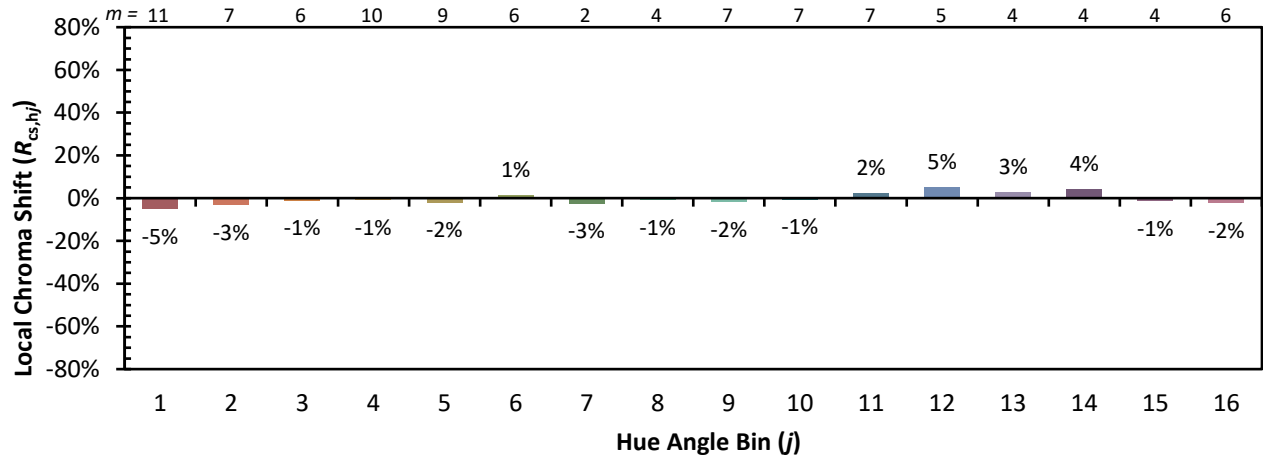


Individual Sample Fidelity Index ($R_{f,i}$)

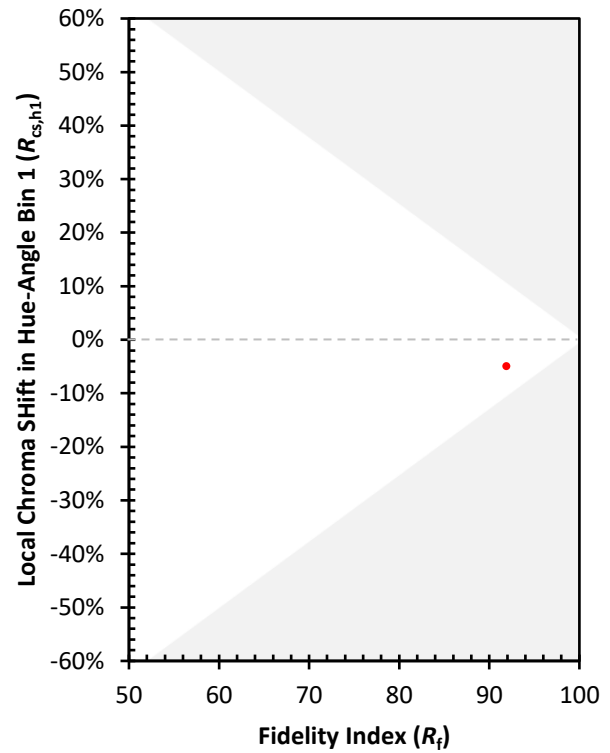
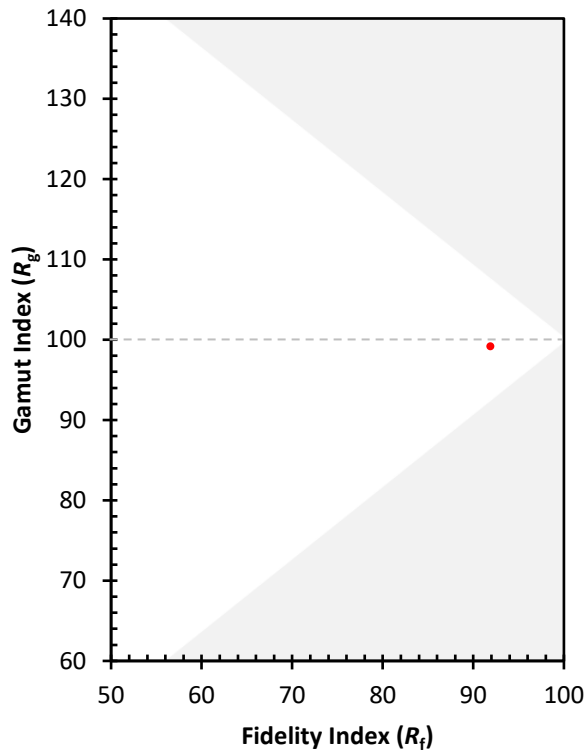
CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 90
CES02 = 63	CES27 = 92	CES52 = 99	CES77 = 89
CES03 = 32	CES28 = 97	CES53 = 97	CES78 = 87
CES04 = 70	CES29 = 97	CES54 = 94	CES79 = 93
CES05 = 51	CES30 = 93	CES55 = 92	CES80 = 93
CES06 = 51	CES31 = 97	CES56 = 95	CES81 = 82
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 99	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 95	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 93	CES85 = 82
CES11 = 59	CES36 = 83	CES61 = 93	CES86 = 83
CES12 = 65	CES37 = 97	CES62 = 88	CES87 = 91
CES13 = 44	CES38 = 89	CES63 = 94	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 90	CES90 = 96
CES16 = 48	CES41 = 97	CES66 = 90	CES91 = 78
CES17 = 50	CES42 = 96	CES67 = 89	CES92 = 79
CES18 = 57	CES43 = 94	CES68 = 90	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 79
CES20 = 67	CES45 = 98	CES70 = 88	CES95 = 84
CES21 = 86	CES46 = 96	CES71 = 85	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 91	CES73 = 84	CES98 = 94
CES24 = 91	CES49 = 96	CES74 = 91	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 87	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)