

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: P1215581

Luminaire Tested: 24-ID2-55-CFR1-L930-U

Issue Date: 12/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1215581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24-ID2-55-CFR1-L930-U  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH CUBE REGRESS LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

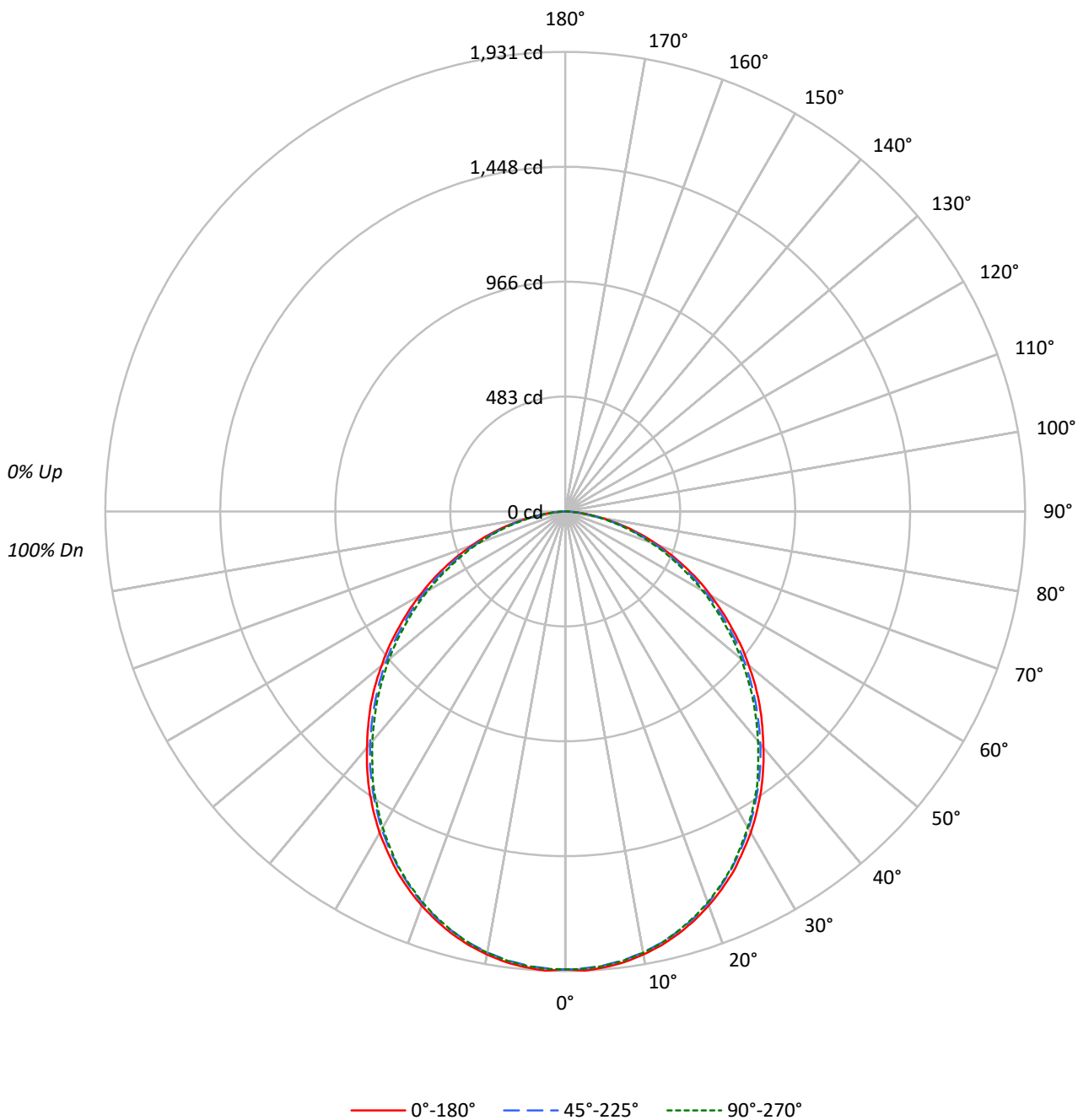
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4843.2 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47.5  
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: P1215581  
CATALOG NUMBER: 24-ID2-55-CFR1-L930-U

### Luminous Intensity Polar Plot





TEST NUMBER: P1215581  
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2589	2589	2589
5°	2596	2585	2587
10°	2583	2570	2573
15°	2560	2545	2544
20°	2523	2508	2503
25°	2480	2456	2452
30°	2421	2393	2382
35°	2354	2319	2307
40°	2275	2239	2212
45°	2199	2148	2122
50°	2105	2056	2021
55°	2004	1948	1905
60°	1896	1836	1791
65°	1782	1709	1652
70°	1640	1565	1502
75°	1462	1376	1328
80°	1195	1128	1072
85°	838	817	756

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2199 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.8	3.8
10°-20°	515.3	10.6
20°-30°	762.2	15.7
30°-40°	884.3	18.3
40°-50°	872.9	18.0
50°-60°	744.8	15.4
60°-70°	534.0	11.0
70°-80°	283.0	5.8
80°-90°	65.0	1.3
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°	1459.2	30.1
0°-40°	2343.6	48.4
0°-60°	3961.3	81.8
0°-90°	4843.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4843.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1922	1916	1914	1911	1916	182
15°	1838	1830	1827	1824	1826	518
25°	1670	1662	1654	1649	1652	768
35°	1433	1425	1412	1405	1405	896
45°	1155	1144	1129	1118	1115	890
55°	854	845	830	818	812	765
65°	560	552	537	527	519	554
75°	281	274	265	258	255	298
85°	54	56	53	50	49	68
90°	0	0	0	0	0	



TEST NUMBER: P1215581  
 CATALOG NUMBER: 24-ID2-55-CFR1-L930-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1924.3	1924.3	1924.3	1924.3	1924.3
2.5°	1930.9	1923.6	1921.0	1919.0	1922.9
5°	1922.3	1916.3	1913.7	1911.0	1915.7
7.5°	1909.7	1903.1	1899.8	1897.8	1901.8
10°	1890.5	1884.6	1881.3	1879.3	1883.2
12.5°	1866.7	1860.7	1856.8	1854.8	1858.8
15°	1837.6	1830.3	1827.0	1823.7	1826.3
17.5°	1801.9	1796.6	1792.6	1787.3	1789.9
20°	1762.1	1755.5	1751.6	1746.9	1748.3
22.5°	1717.8	1712.5	1705.2	1701.3	1701.3
25°	1670.2	1662.2	1654.3	1649.0	1651.6
27.5°	1613.9	1607.3	1598.7	1591.4	1592.1
30°	1558.3	1549.7	1540.5	1533.9	1533.2
32.5°	1496.8	1490.8	1477.6	1471.0	1469.0
35°	1433.3	1424.7	1412.1	1404.8	1404.8
37.5°	1365.8	1358.5	1345.9	1335.3	1330.7
40°	1295.0	1287.7	1274.5	1263.2	1259.2
42.5°	1224.8	1220.9	1201.7	1192.4	1186.5
45°	1155.4	1144.1	1128.9	1118.3	1115.0
47.5°	1082.6	1072.6	1055.4	1043.5	1038.2
50°	1005.8	999.2	982.0	967.4	965.4
52.5°	933.0	921.8	908.5	892.7	890.0
55°	854.3	845.0	830.5	818.5	811.9
57.5°	780.2	772.9	758.3	742.4	739.1
60°	704.7	697.4	682.2	670.3	665.7
62.5°	633.9	623.3	611.4	596.2	591.6
65°	559.8	551.9	536.7	526.7	518.8
67.5°	485.7	479.7	467.2	457.9	452.6
70°	416.9	409.6	397.7	386.4	381.8
72.5°	349.4	340.1	328.9	320.9	318.9
75°	281.2	274.0	264.7	258.1	255.4
77.5°	214.4	211.7	203.8	196.5	193.9
80°	154.2	152.2	145.6	140.9	138.3
82.5°	99.9	98.6	95.9	92.0	91.3
85°	54.3	55.6	52.9	50.3	49.0
87.5°	19.2	18.5	17.9	17.2	15.9
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	14.41	16.00	14.77	16.31	16.63	14.11	15.70	14.47	16.02	16.33
	3H	16.05	17.49	16.43	17.82	18.18	15.70	17.13	16.08	17.46	17.82
	4H	16.64	17.99	17.04	18.34	18.71	16.25	17.60	16.65	17.94	18.32
	6H	17.02	18.27	17.43	18.63	19.03	16.60	17.85	17.01	18.21	18.60
	8H	17.12	18.31	17.54	18.70	19.10	16.69	17.88	17.11	18.27	18.67
	12H	17.17	18.31	17.60	18.69	19.12	16.73	17.87	17.16	18.26	18.69
4H	2H	14.95	16.30	15.35	16.65	17.02	14.71	16.06	15.11	16.41	16.78
	3H	16.81	17.93	17.22	18.33	18.73	16.51	17.63	16.92	18.03	18.43
	4H	17.51	18.53	17.94	18.94	19.38	17.17	18.18	17.60	18.60	19.03
	6H	18.01	18.89	18.46	19.33	19.79	17.62	18.51	18.08	18.95	19.41
	8H	18.14	18.97	18.60	19.41	19.88	17.75	18.57	18.21	19.02	19.48
	12H	18.22	18.96	18.70	19.44	19.91	17.82	18.56	18.30	19.04	19.51
8H	4H	17.74	18.57	18.20	19.01	19.48	17.43	18.26	17.90	18.71	19.17
	6H	18.33	19.02	18.83	19.51	19.98	17.98	18.67	18.48	19.16	19.63
	8H	18.52	19.14	19.03	19.64	20.13	18.16	18.77	18.67	19.28	19.77
	12H	18.65	19.20	19.16	19.69	20.25	18.28	18.82	18.79	19.31	19.87
12H	4H	17.76	18.50	18.24	18.97	19.44	17.46	18.20	17.94	18.67	19.14
	6H	18.36	18.97	18.87	19.48	19.97	18.02	18.63	18.53	19.14	19.63
	8H	18.59	19.13	19.10	19.62	20.19	18.24	18.78	18.75	19.27	19.83

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



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



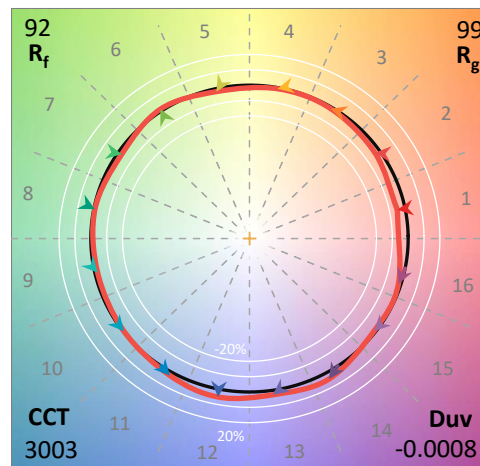
**Test Information**

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  
 Rf: 91.9  
 Rg: 99.2

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



**Test Conditions**

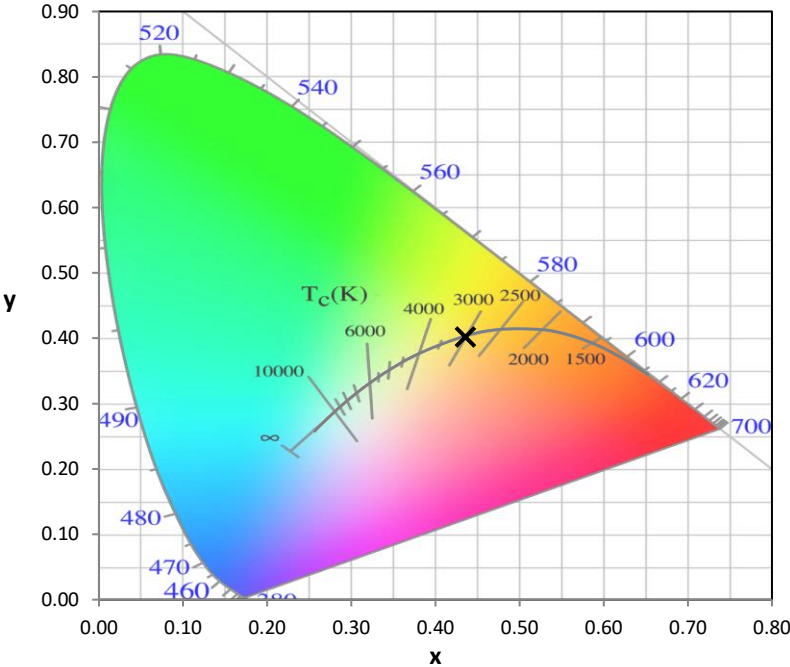
Stabilization Time: 32M  
 Operation Time: 1H 32M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2506-458-9

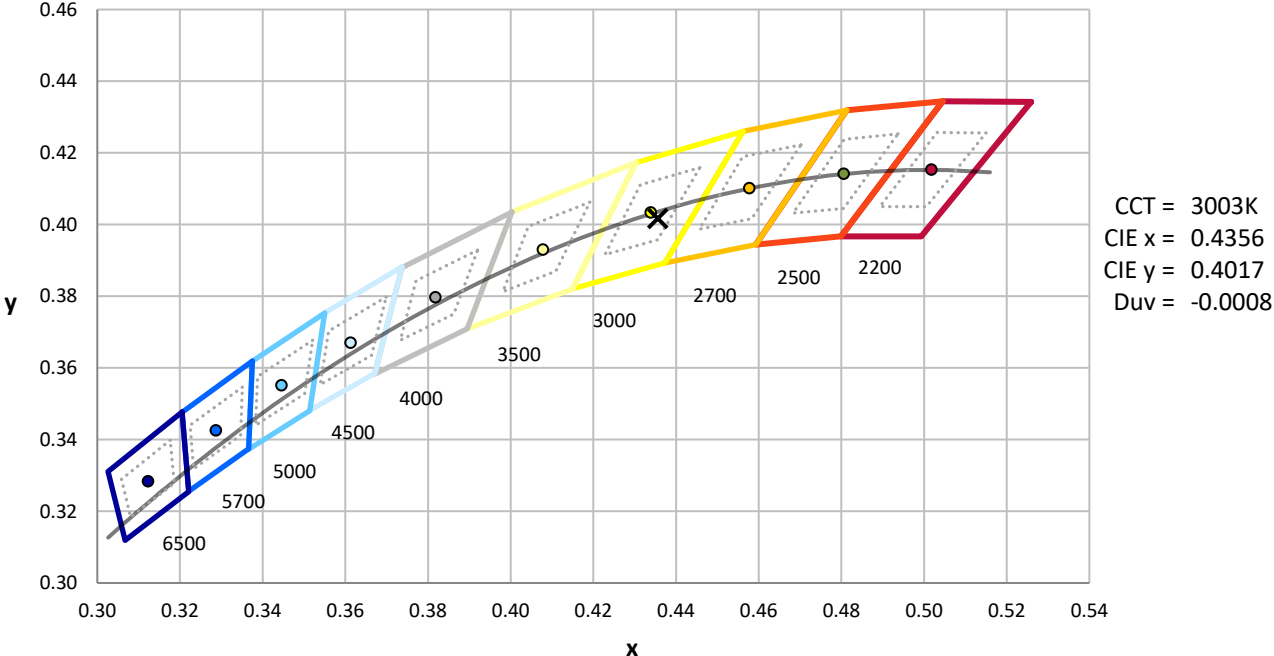
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



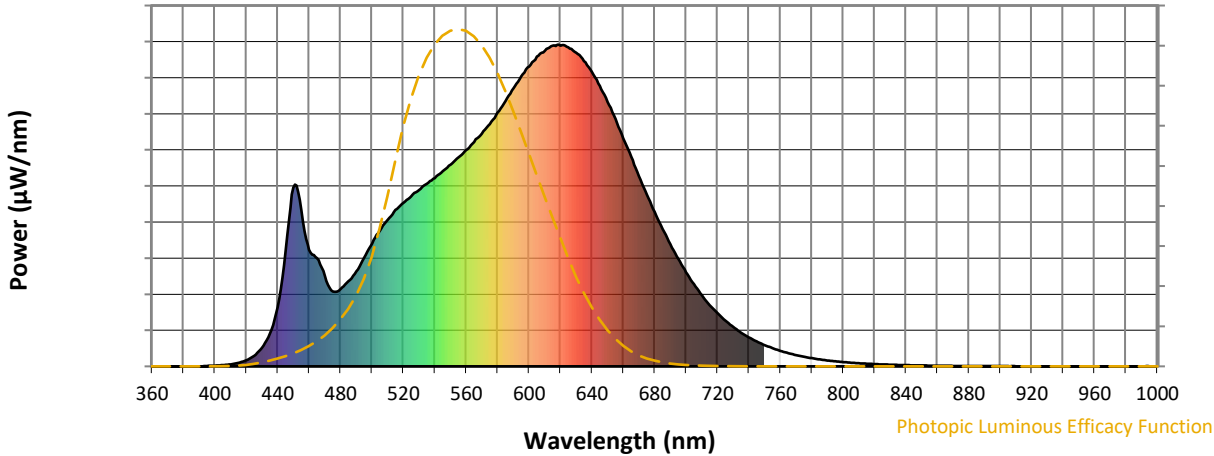
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

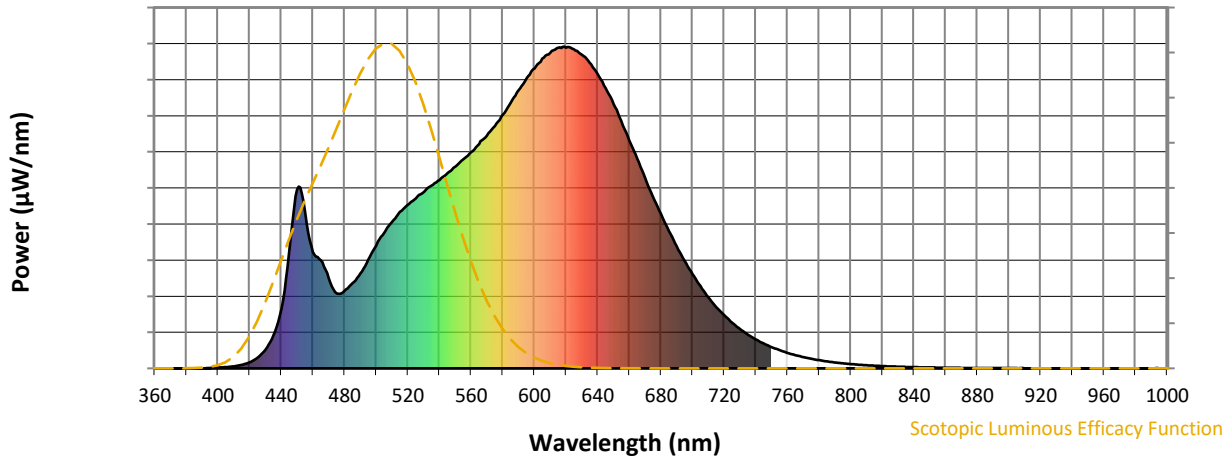


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**



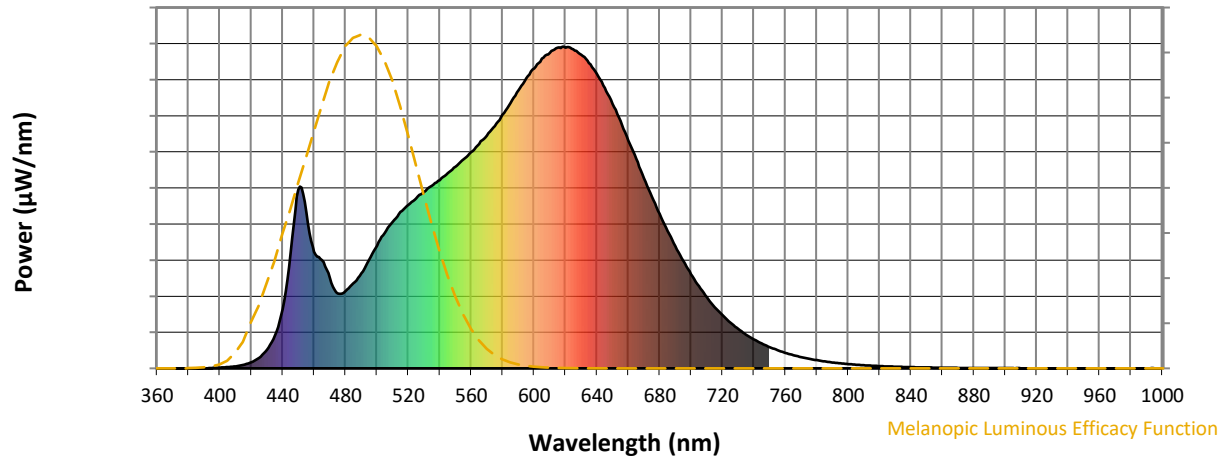
**Scotopic Lumens: NR**

**S/P: 1.43**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**

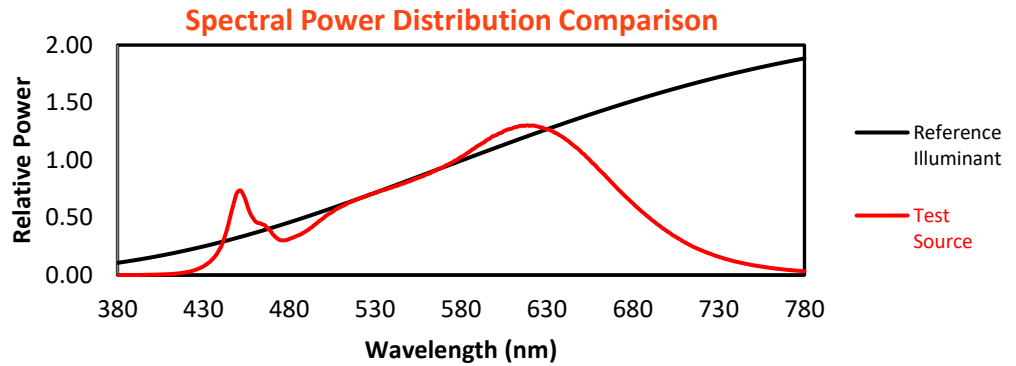
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	296	NR	620	997	NR	750	66	NR	880	1	NR
365	0	NR	495	338	NR	625	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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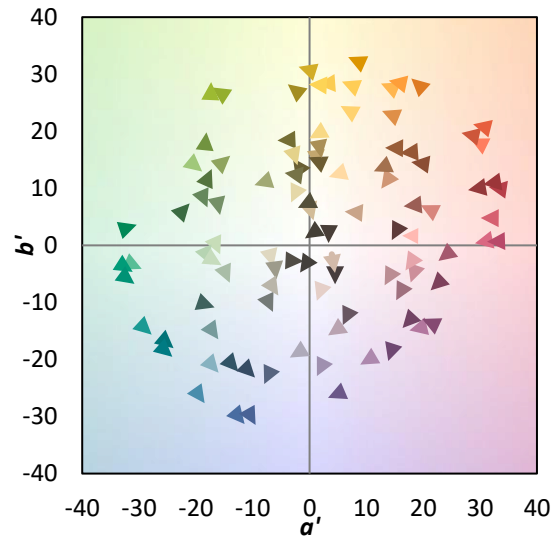
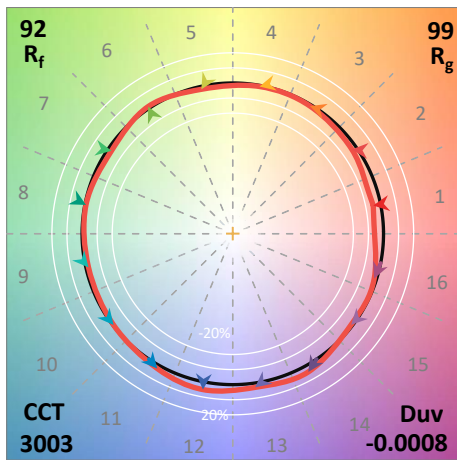
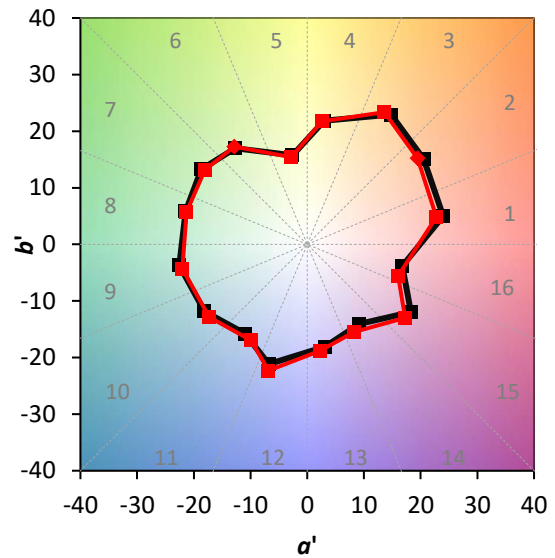
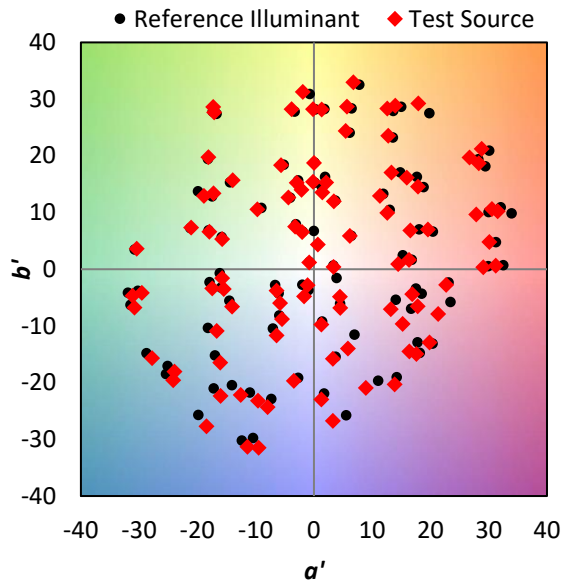
TM-30-18

**Summary**

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

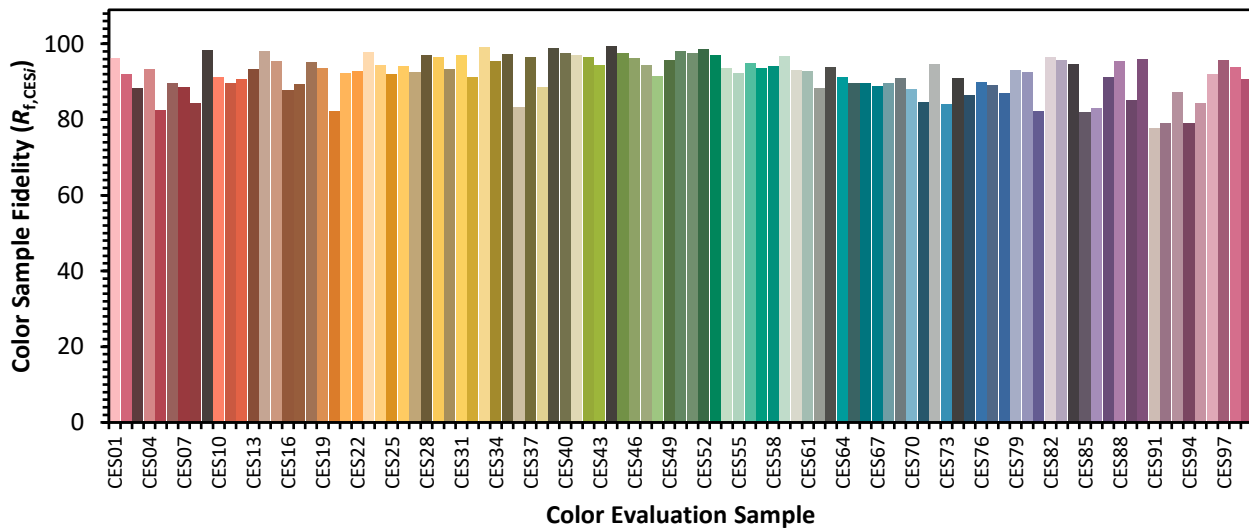


**Color Vector Graphics**



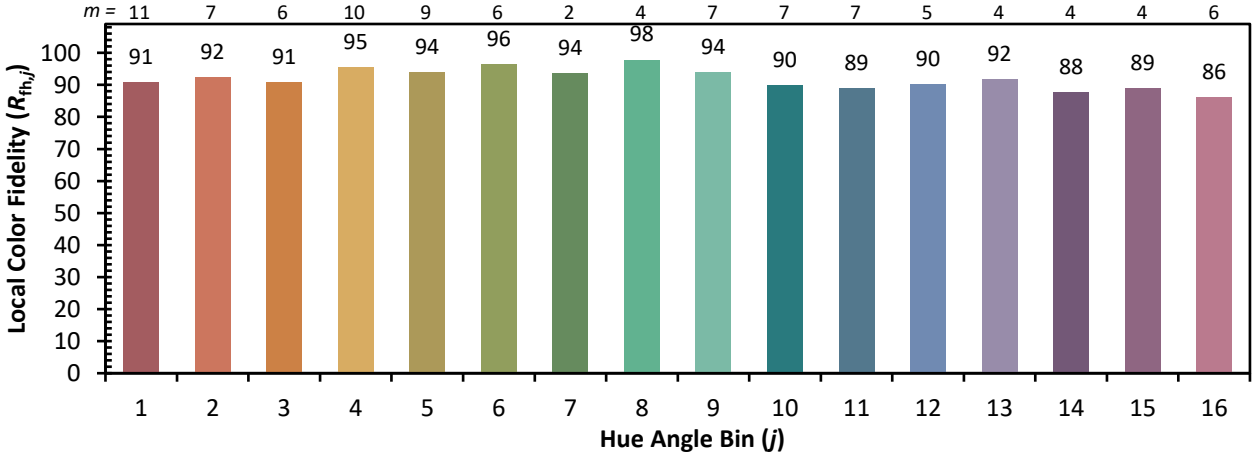
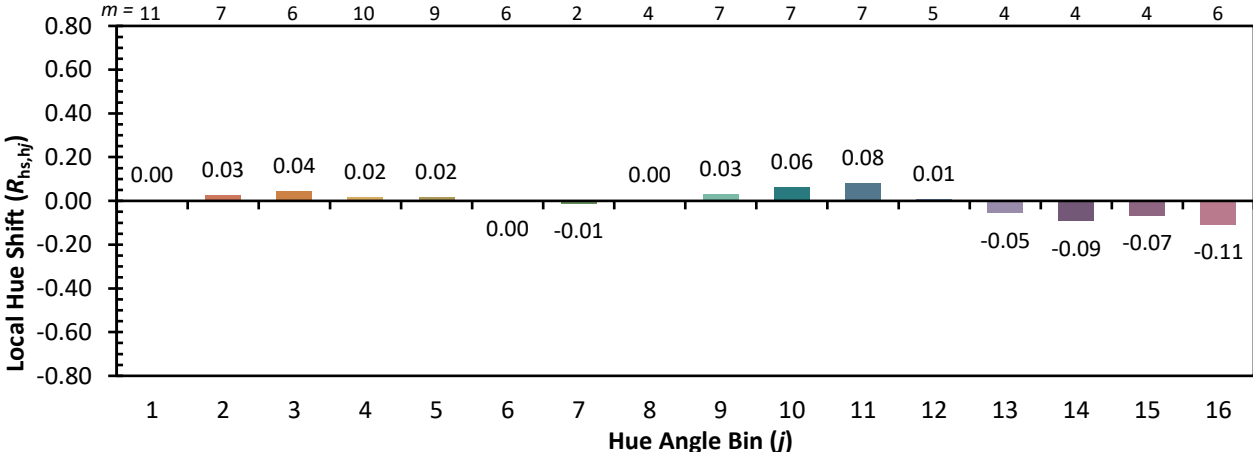
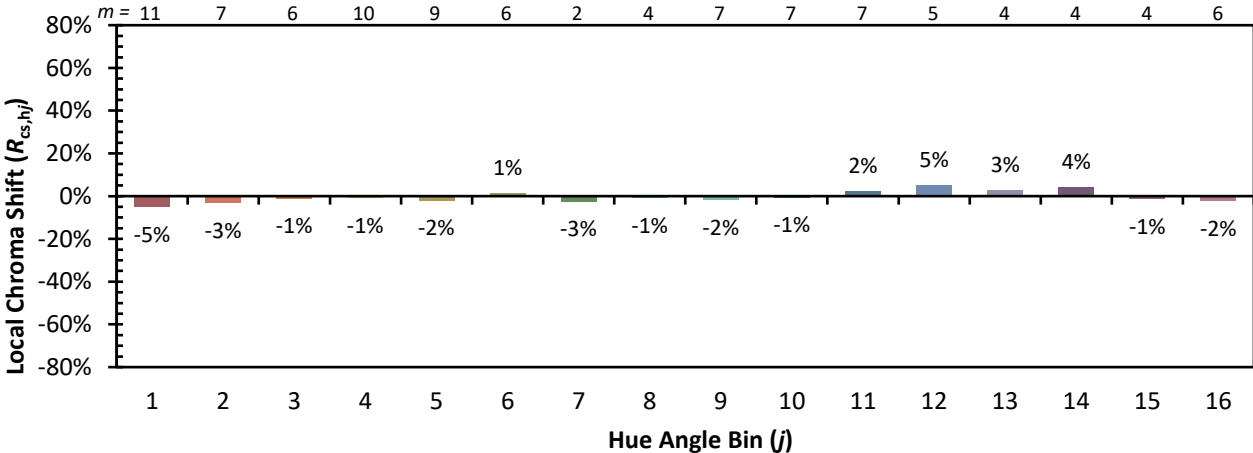
Individual Sample Fidelity Index ( $R_{f,i}$ )

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	

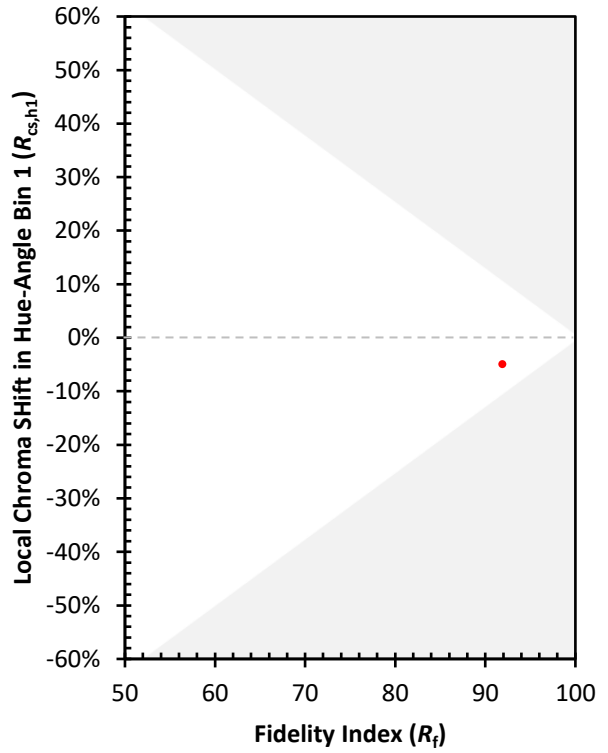
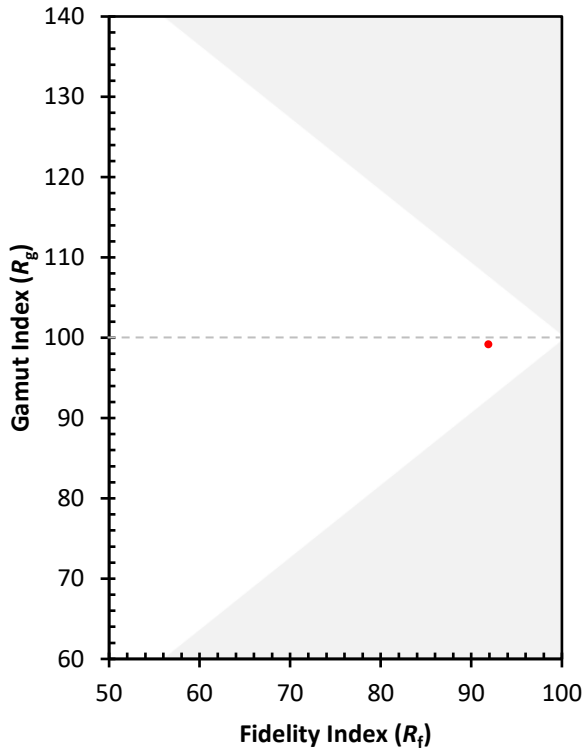




Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)