

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: P1215688

Luminaire Tested: 24-ID2-45-CFR2-L950-U

Issue Date: 12/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1215688
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-ID2-45-CFR2-L950-U
Description: 2X4 IN DEPTH TROFFER WITH 2INCH CUBE REGRESS LENS
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

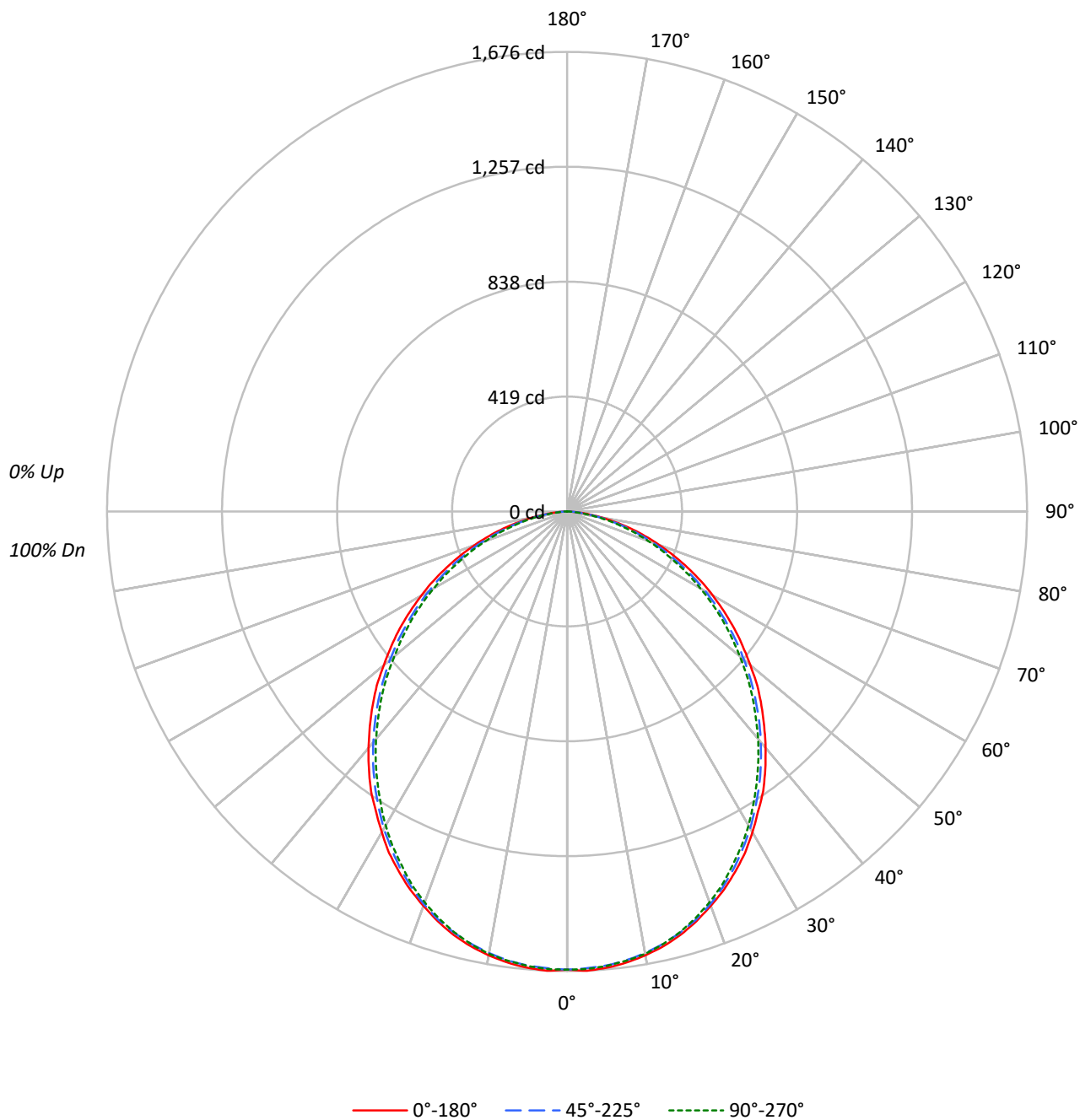
Lumens per Lamp: N/A
Luminaire Lumens: 4158.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39
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: P1215688
CATALOG NUMBER: 24-ID2-45-CFR2-L950-U

Luminous Intensity Polar Plot



TEST NUMBER: P1215688

CATALOG NUMBER: 24-ID2-45-CFR2-L950-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	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	74	74	72
3	91	81	74	67	89	80	73	67	77	71	65	74	69	64	72	67	63	63	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	55	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	48	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	42	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2248	2248	2248
5°	2256	2244	2247
10°	2245	2235	2238
15°	2227	2215	2213
20°	2192	2183	2172
25°	2152	2133	2116
30°	2098	2074	2054
35°	2046	2005	1979
40°	1976	1929	1901
45°	1907	1848	1817
50°	1824	1761	1720
55°	1745	1666	1623
60°	1650	1563	1508
65°	1542	1448	1381
70°	1407	1316	1244
75°	1246	1133	1051
80°	1003	893	818
85°	665	570	465

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1907 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	3.8
10°-20°	448.1	10.8
20°-30°	661.3	15.9
30°-40°	764.6	18.4
40°-50°	752.0	18.1
50°-60°	638.7	15.4
60°-70°	452.7	10.9
70°-80°	233.4	5.6
80°-90°	49.1	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°	1267.4	30.5
0°-40°	2032.0	48.9
0°-60°	3422.7	82.3
0°-90°	4158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1671	1671	1671	1671	1671	
5°	1670	1664	1662	1660	1663	159
15°	1599	1592	1590	1587	1588	450
25°	1449	1444	1437	1428	1425	667
35°	1246	1239	1221	1210	1205	777
45°	1002	994	971	958	955	773
55°	744	732	710	698	692	664
65°	484	472	455	440	434	480
75°	240	229	218	206	202	253
85°	43	41	37	33	30	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.8	1670.8	1670.8	1670.8	1670.8
2.5°	1676.5	1670.8	1667.4	1666.3	1670.2
5°	1670.2	1664.0	1661.7	1660.0	1663.4
7.5°	1659.4	1653.2	1650.9	1649.2	1652.6
10°	1643.5	1637.9	1635.6	1633.9	1637.9
12.5°	1623.7	1618.0	1615.2	1613.5	1616.3
15°	1598.7	1592.4	1590.2	1586.8	1588.5
17.5°	1566.9	1562.4	1560.7	1554.4	1555.0
20°	1530.6	1527.2	1524.9	1515.8	1516.9
22.5°	1493.1	1488.6	1482.9	1474.9	1474.9
25°	1449.4	1444.3	1436.9	1427.8	1425.0
27.5°	1404.0	1398.3	1386.4	1378.4	1375.6
30°	1350.6	1347.2	1334.7	1324.5	1322.2
32.5°	1296.1	1293.8	1277.9	1269.4	1263.7
35°	1245.6	1238.8	1220.6	1209.8	1204.7
37.5°	1186.0	1179.7	1160.4	1150.8	1145.1
40°	1125.2	1117.3	1098.0	1090.0	1082.6
42.5°	1063.3	1057.7	1035.5	1023.0	1017.9
45°	1002.0	993.5	971.4	957.7	954.9
47.5°	940.1	928.2	906.6	892.5	889.6
50°	871.4	862.9	841.4	826.6	821.5
52.5°	806.7	796.5	777.2	763.0	756.2
55°	743.7	732.4	710.2	697.7	692.0
57.5°	677.3	667.1	647.2	631.3	626.8
60°	613.1	600.1	580.8	567.7	560.3
62.5°	550.1	537.1	518.3	501.9	498.5
65°	484.3	472.3	454.7	440.0	433.7
67.5°	420.7	408.8	391.7	380.4	374.7
70°	357.7	348.0	334.4	319.6	316.2
72.5°	297.5	288.4	274.2	261.7	258.9
75°	239.6	229.4	218.0	205.5	202.1
77.5°	181.1	176.0	164.1	157.3	153.3
80°	129.4	123.2	115.2	109.0	105.6
82.5°	80.6	78.3	73.2	67.6	64.2
85°	43.1	40.9	36.9	32.9	30.1
87.5°	11.9	13.1	13.1	12.5	12.5
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	13.93	15.52	14.29	15.83	16.14	13.52	15.10	13.88	15.42	15.73
	3H	15.55	16.98	15.93	17.31	17.67	15.04	16.47	15.42	16.79	17.15
	4H	16.12	17.46	16.52	17.81	18.19	15.53	16.88	15.93	17.22	17.60
	6H	16.48	17.72	16.89	18.09	18.48	15.84	17.08	16.25	17.44	17.84
	8H	16.57	17.75	17.00	18.14	18.54	15.90	17.08	16.33	17.47	17.87
	12H	16.61	17.74	17.04	18.12	18.55	15.92	17.05	16.35	17.44	17.86
4H	2H	14.45	15.79	14.85	16.14	16.51	14.11	15.46	14.51	15.80	16.18
	3H	16.28	17.40	16.69	17.80	18.20	15.84	16.96	16.25	17.35	17.75
	4H	16.96	17.97	17.39	18.38	18.82	16.44	17.44	16.87	17.86	18.29
	6H	17.43	18.31	17.88	18.75	19.21	16.84	17.71	17.29	18.16	18.61
	8H	17.55	18.37	18.01	18.81	19.28	16.93	17.75	17.39	18.19	18.66
	12H	17.61	18.35	18.09	18.83	19.30	16.97	17.70	17.45	18.18	18.65
8H	4H	17.17	17.99	17.63	18.43	18.90	16.69	17.51	17.16	17.96	18.42
	6H	17.72	18.40	18.21	18.89	19.36	17.18	17.86	17.67	18.34	18.82
	8H	17.89	18.49	18.40	19.00	19.49	17.31	17.91	17.82	18.42	18.91
	12H	17.99	18.53	18.50	19.02	19.59	17.38	17.92	17.89	18.41	18.97
12H	4H	17.17	17.91	17.65	18.38	18.85	16.71	17.45	17.19	17.92	18.39
	6H	17.73	18.34	18.24	18.85	19.34	17.20	17.81	17.71	18.32	18.81
	8H	17.94	18.48	18.45	18.97	19.53	17.38	17.91	17.88	18.40	18.97

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

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-13

Test Date: 08/27/2025

Luminaire Tested: 22ID2-55-CFR1-L950-U

Data in this report applies to families of products including 22ID2-55-CFR1-L950-U

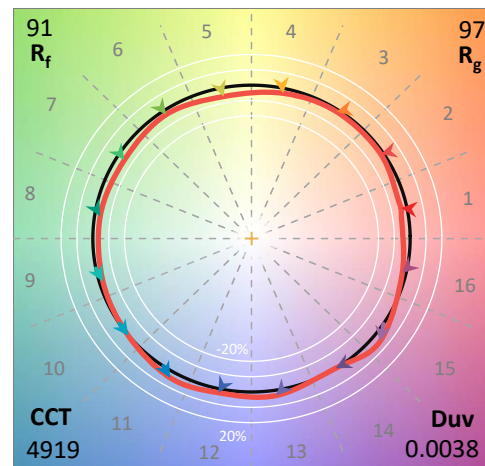
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-13
 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-L950-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 5000K 90CRI

Spectral Parameters

CCT (K): 4919
 CIE u' : 0.2096
 CIE v' : 0.4901
 Duv: 0.0038
 CIE x: 0.3483
 CIE y: 0.3619
 CIE z: 0.2898
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 570
 Purity: 13.10873
 R_f: 90.8
 R_g: 97.4

CRI (Ra): 94.0
 R1: 94.8
 R2: 97.7
 R3: 98.4
 R4: 90.8
 R5: 92.2
 R6: 94.3
 R7: 94.0
 R8: 90.0
 R9: 77.7
 R10: 93.1
 R11: 92.0
 R12: 65.9
 R13: 95.9
 R14: 99.0
 R15: 91.4



Test Conditions

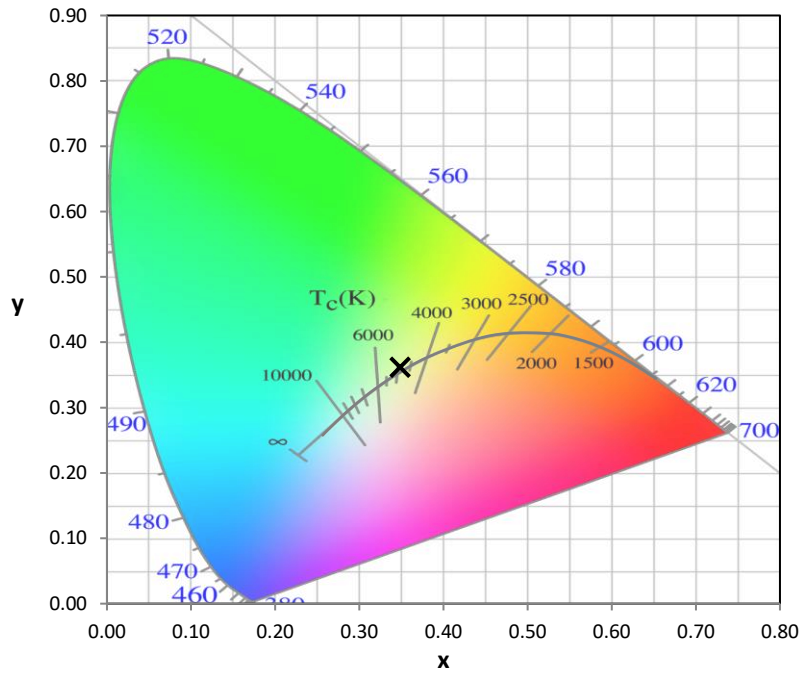
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.0

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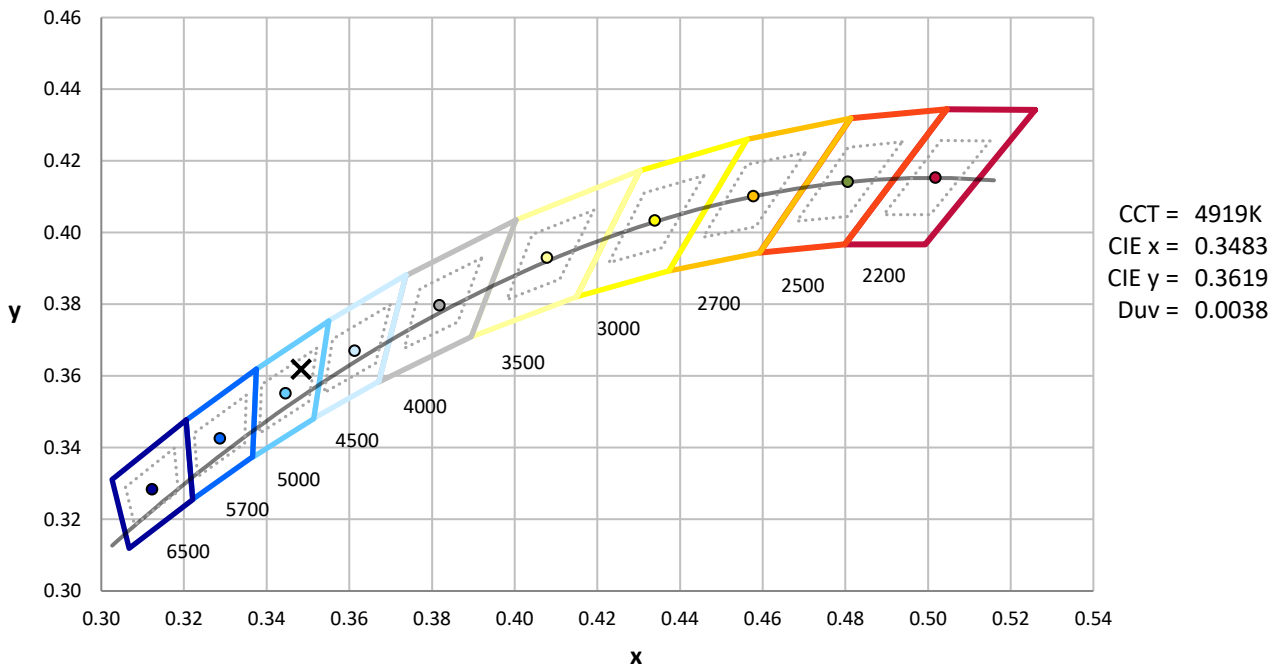
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



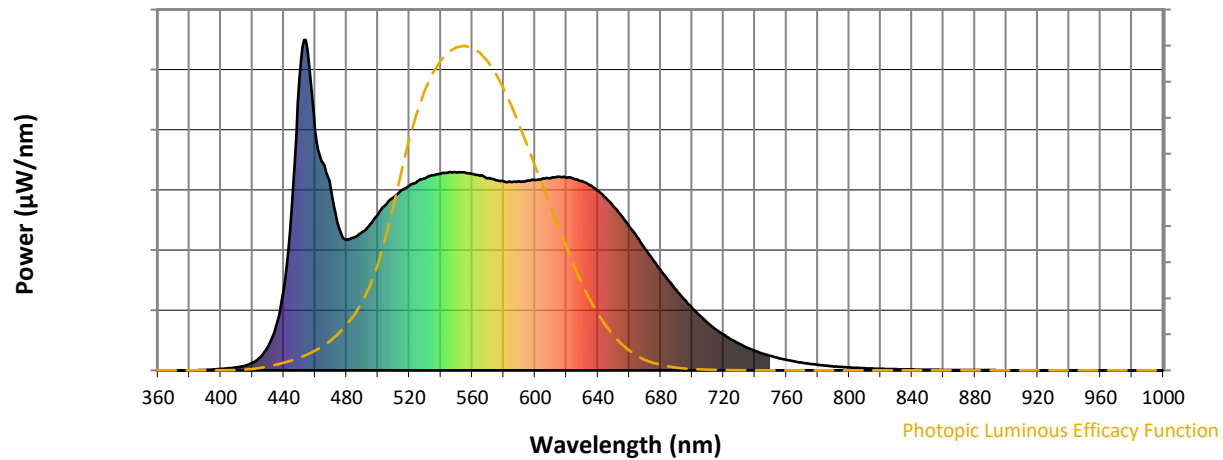
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

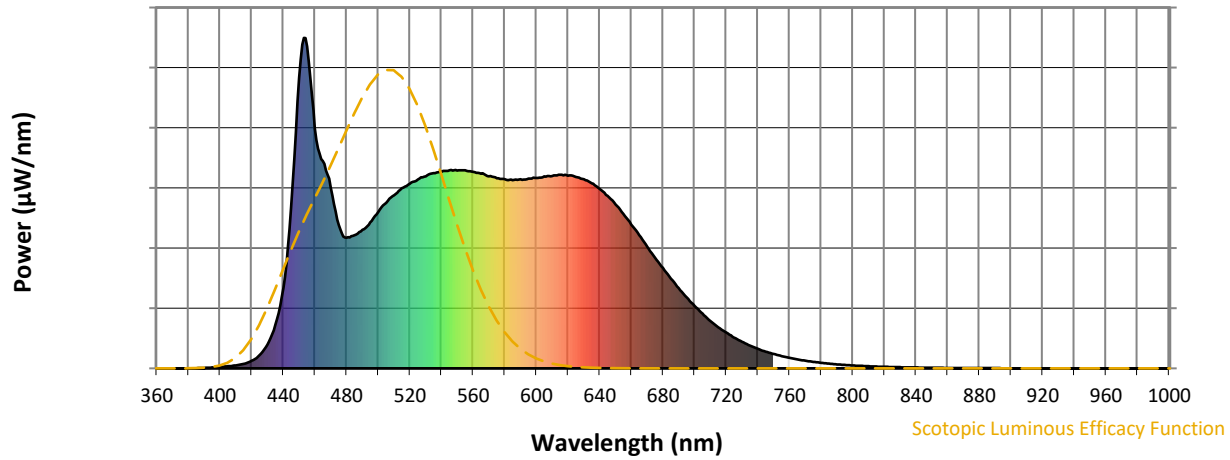


Photopic Lumens: NR

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	419	NR	620	583	NR	750	44	NR	880	1	NR
365	0	NR	495	441	NR	625	580	NR	755	37	NR	885	1	NR
370	0	NR	500	472	NR	630	572	NR	760	32	NR	890	1	NR
375	0	NR	505	501	NR	635	559	NR	765	27	NR	895	0	NR
380	0	NR	510	524	NR	640	543	NR	770	23	NR	900	0	NR
385	0	NR	515	545	NR	645	522	NR	775	20	NR	905	0	NR
390	1	NR	520	559	NR	650	496	NR	780	17	NR	910	0	NR
395	3	NR	525	572	NR	655	468	NR	785	14	NR	915	0	NR
400	4	NR	530	581	NR	660	435	NR	790	12	NR	920	0	NR
405	7	NR	535	590	NR	665	403	NR	795	10	NR	925	0	NR
410	9	NR	540	595	NR	670	368	NR	800	9	NR	930	0	NR
415	14	NR	545	599	NR	675	335	NR	805	8	NR	935	0	NR
420	23	NR	550	599	NR	680	304	NR	810	6	NR	940	0	NR
425	40	NR	555	599	NR	685	271	NR	815	6	NR	945	0	NR
430	72	NR	560	595	NR	690	243	NR	820	5	NR	950	0	NR
435	132	NR	565	589	NR	695	215	NR	825	4	NR	955	0	NR
440	243	NR	570	581	NR	700	189	NR	830	3	NR	960	0	NR
445	488	NR	575	575	NR	705	165	NR	835	3	NR	965	0	NR
450	879	NR	580	573	NR	710	144	NR	840	3	NR	970	0	NR
455	974	NR	585	570	NR	715	124	NR	845	2	NR	975	0	NR
460	726	NR	590	572	NR	720	108	NR	850	2	NR	980	0	NR
465	627	NR	595	574	NR	725	93	NR	855	2	NR	985	0	NR
470	546	NR	600	576	NR	730	80	NR	860	1	NR	990	0	NR
475	434	NR	605	581	NR	735	69	NR	865	1	NR	995	0	NR
480	395	NR	610	582	NR	740	59	NR	870	1	NR	1000	0	NR
485	403	NR	615	586	NR	745	51	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



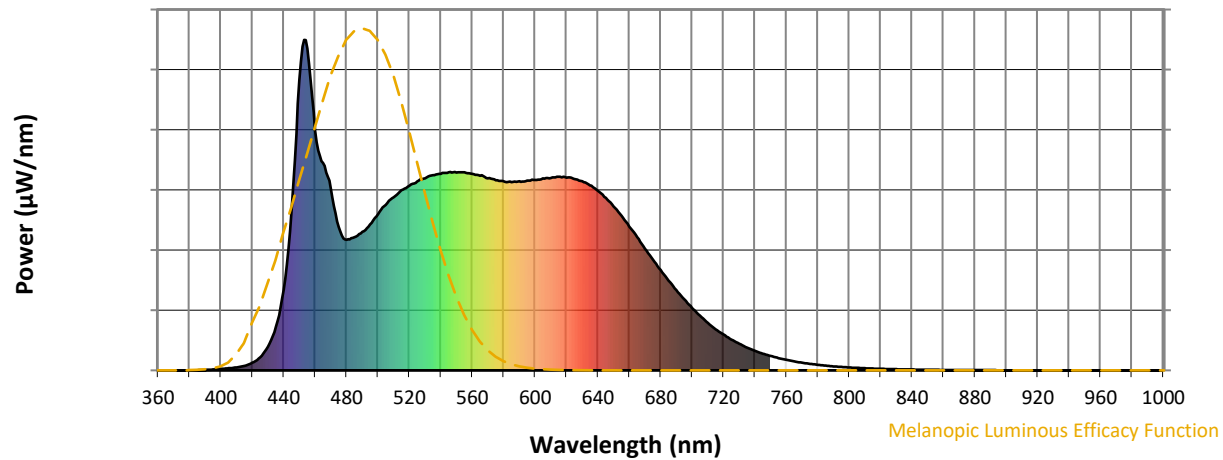
Scotopic Lumens: NR

S/P: 2.09

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	419	NR	620	583	NR	750	44	NR	880	1	NR
365	0	NR	495	441	NR	625	580	NR	755	37	NR	885	1	NR
370	0	NR	500	472	NR	630	572	NR	760	32	NR	890	1	NR
375	0	NR	505	501	NR	635	559	NR	765	27	NR	895	0	NR
380	0	NR	510	524	NR	640	543	NR	770	23	NR	900	0	NR
385	0	NR	515	545	NR	645	522	NR	775	20	NR	905	0	NR
390	1	NR	520	559	NR	650	496	NR	780	17	NR	910	0	NR
395	3	NR	525	572	NR	655	468	NR	785	14	NR	915	0	NR
400	4	NR	530	581	NR	660	435	NR	790	12	NR	920	0	NR
405	7	NR	535	590	NR	665	403	NR	795	10	NR	925	0	NR
410	9	NR	540	595	NR	670	368	NR	800	9	NR	930	0	NR
415	14	NR	545	599	NR	675	335	NR	805	8	NR	935	0	NR
420	23	NR	550	599	NR	680	304	NR	810	6	NR	940	0	NR
425	40	NR	555	599	NR	685	271	NR	815	6	NR	945	0	NR
430	72	NR	560	595	NR	690	243	NR	820	5	NR	950	0	NR
435	132	NR	565	589	NR	695	215	NR	825	4	NR	955	0	NR
440	243	NR	570	581	NR	700	189	NR	830	3	NR	960	0	NR
445	488	NR	575	575	NR	705	165	NR	835	3	NR	965	0	NR
450	879	NR	580	573	NR	710	144	NR	840	3	NR	970	0	NR
455	974	NR	585	570	NR	715	124	NR	845	2	NR	975	0	NR
460	726	NR	590	572	NR	720	108	NR	850	2	NR	980	0	NR
465	627	NR	595	574	NR	725	93	NR	855	2	NR	985	0	NR
470	546	NR	600	576	NR	730	80	NR	860	1	NR	990	0	NR
475	434	NR	605	581	NR	735	69	NR	865	1	NR	995	0	NR
480	395	NR	610	582	NR	740	59	NR	870	1	NR	1000	0	NR
485	403	NR	615	586	NR	745	51	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.55

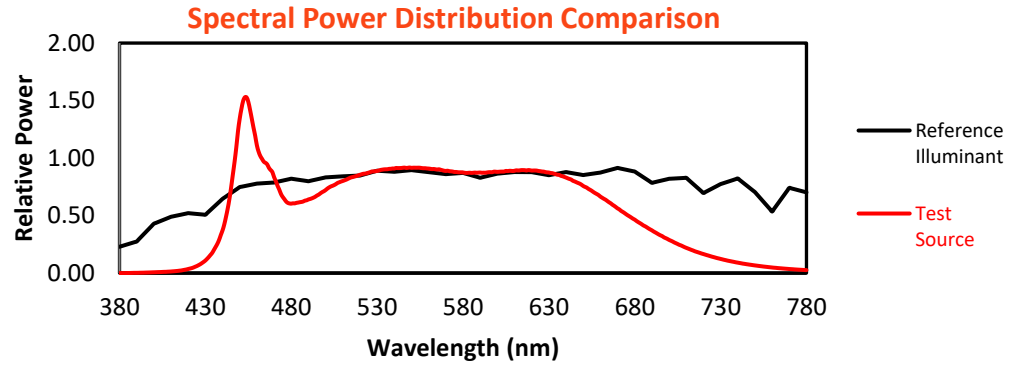
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	419	NR	620	583	NR	750	44	NR	880	1	NR
365	0	NR	495	441	NR	625	580	NR	755	37	NR	885	1	NR
370	0	NR	500	472	NR	630	572	NR	760	32	NR	890	1	NR
375	0	NR	505	501	NR	635	559	NR	765	27	NR	895	0	NR
380	0	NR	510	524	NR	640	543	NR	770	23	NR	900	0	NR
385	0	NR	515	545	NR	645	522	NR	775	20	NR	905	0	NR
390	1	NR	520	559	NR	650	496	NR	780	17	NR	910	0	NR
395	3	NR	525	572	NR	655	468	NR	785	14	NR	915	0	NR
400	4	NR	530	581	NR	660	435	NR	790	12	NR	920	0	NR
405	7	NR	535	590	NR	665	403	NR	795	10	NR	925	0	NR
410	9	NR	540	595	NR	670	368	NR	800	9	NR	930	0	NR
415	14	NR	545	599	NR	675	335	NR	805	8	NR	935	0	NR
420	23	NR	550	599	NR	680	304	NR	810	6	NR	940	0	NR
425	40	NR	555	599	NR	685	271	NR	815	6	NR	945	0	NR
430	72	NR	560	595	NR	690	243	NR	820	5	NR	950	0	NR
435	132	NR	565	589	NR	695	215	NR	825	4	NR	955	0	NR
440	243	NR	570	581	NR	700	189	NR	830	3	NR	960	0	NR
445	488	NR	575	575	NR	705	165	NR	835	3	NR	965	0	NR
450	879	NR	580	573	NR	710	144	NR	840	3	NR	970	0	NR
455	974	NR	585	570	NR	715	124	NR	845	2	NR	975	0	NR
460	726	NR	590	572	NR	720	108	NR	850	2	NR	980	0	NR
465	627	NR	595	574	NR	725	93	NR	855	2	NR	985	0	NR
470	546	NR	600	576	NR	730	80	NR	860	1	NR	990	0	NR
475	434	NR	605	581	NR	735	69	NR	865	1	NR	995	0	NR
480	395	NR	610	582	NR	740	59	NR	870	1	NR	1000	0	NR
485	403	NR	615	586	NR	745	51	NR	875	1	NR			

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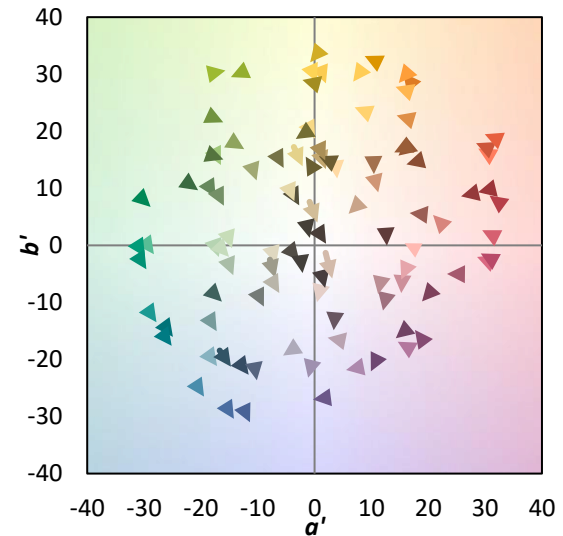
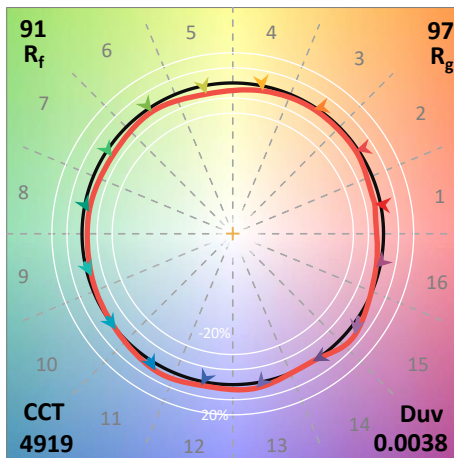
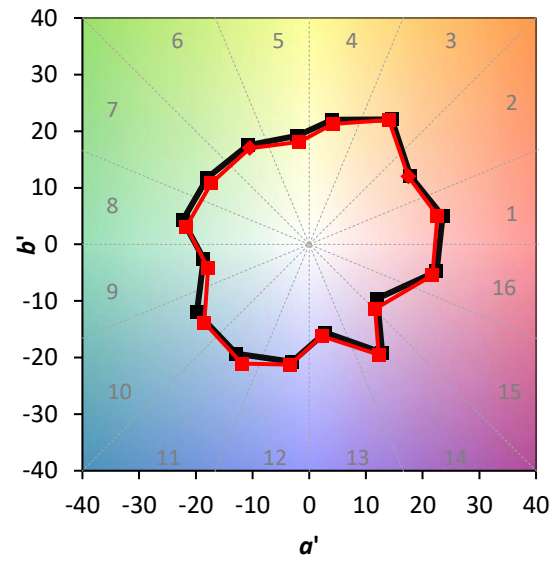
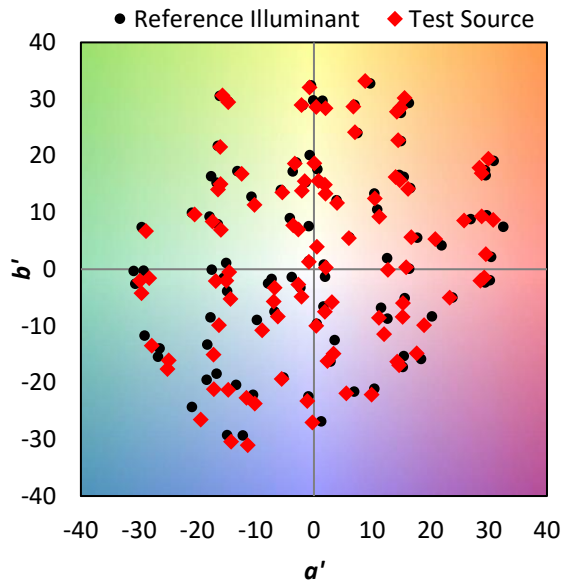
TM-30-18

Summary

$R_f = 90.8$
 $R_g = 97.4$
 $CIE R_a = 94.0$
 $R_9 = 77.7$

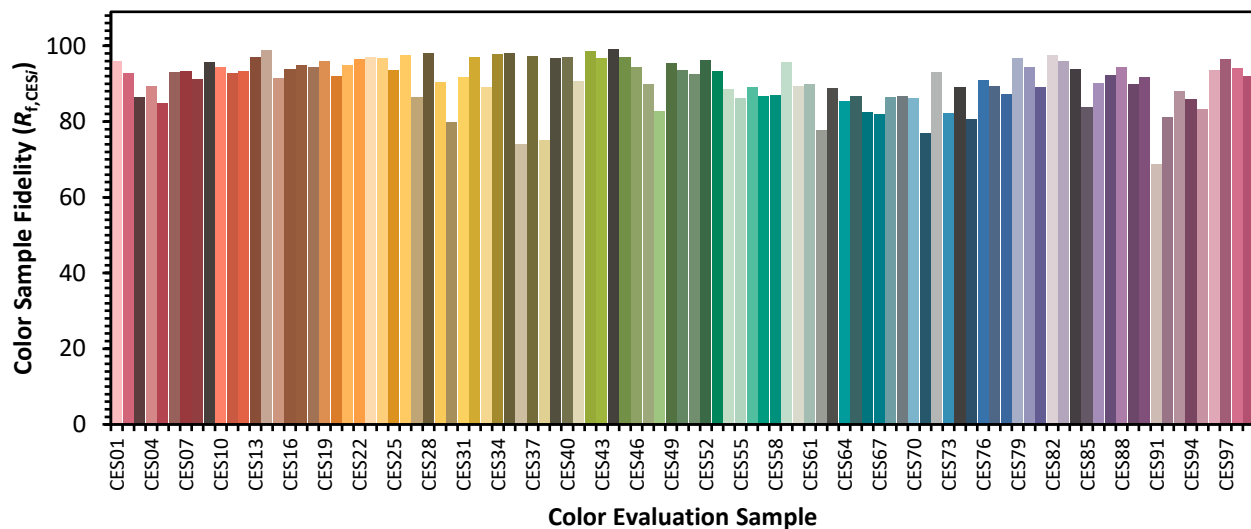


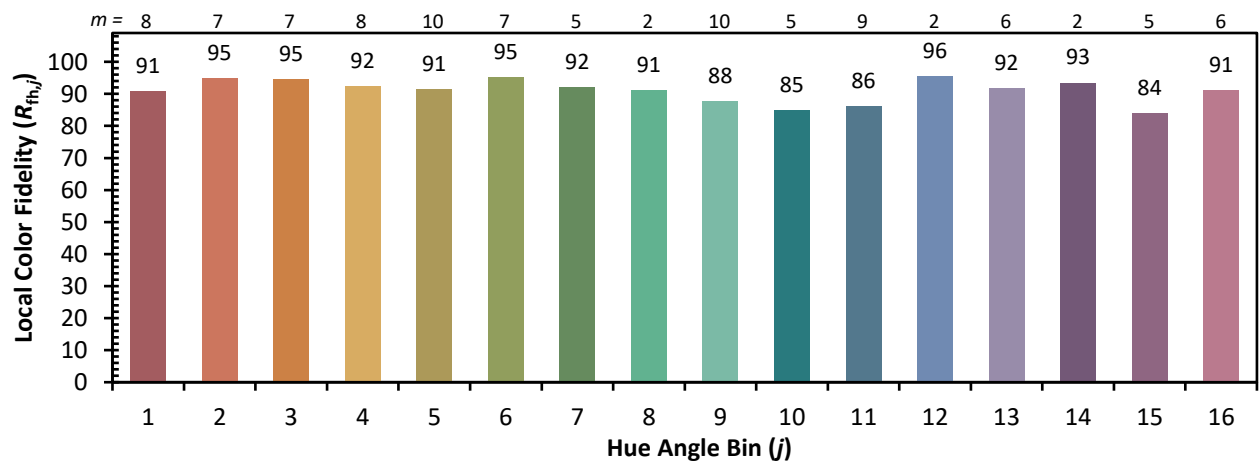
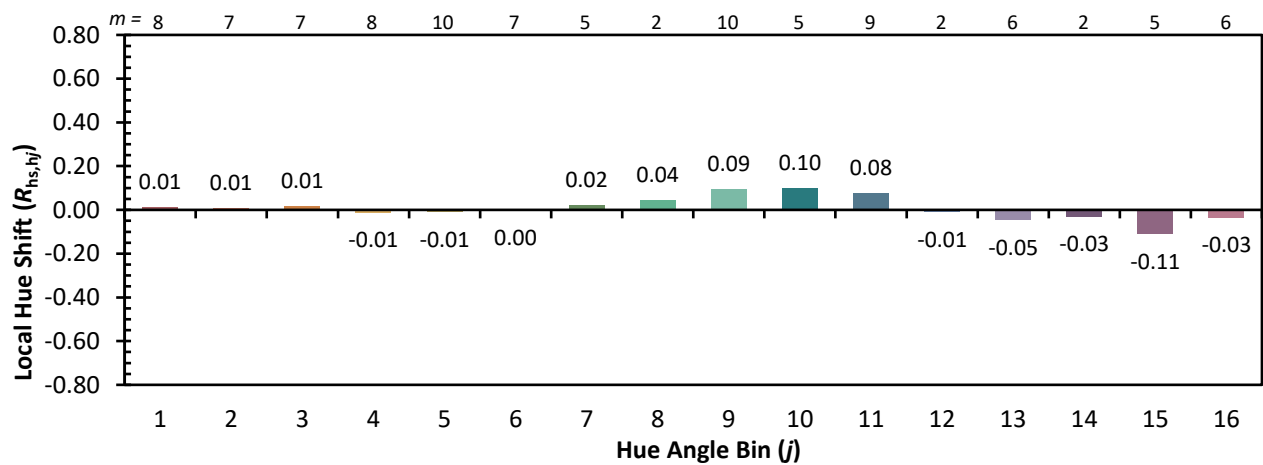
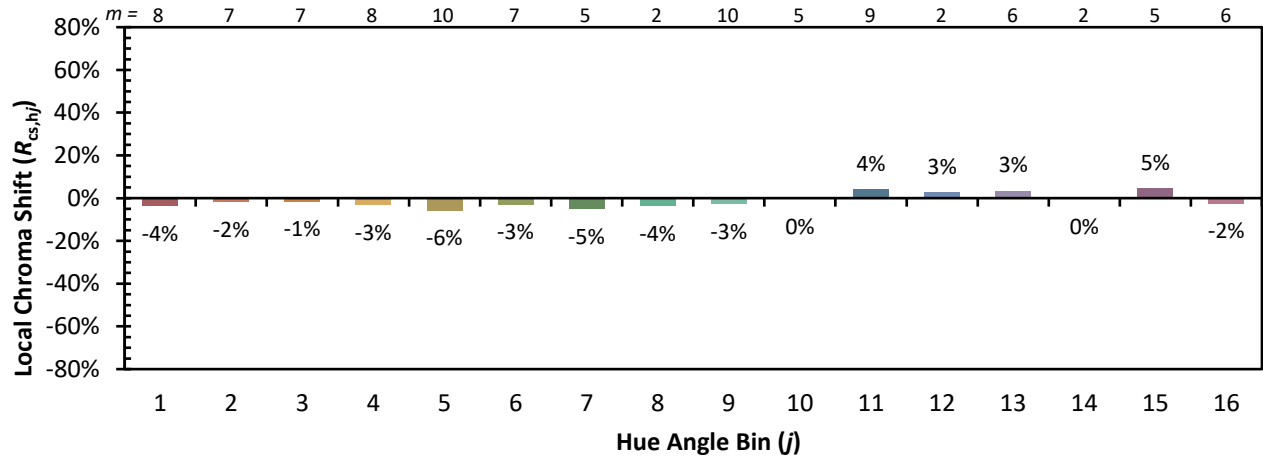
Color Vector Graphics



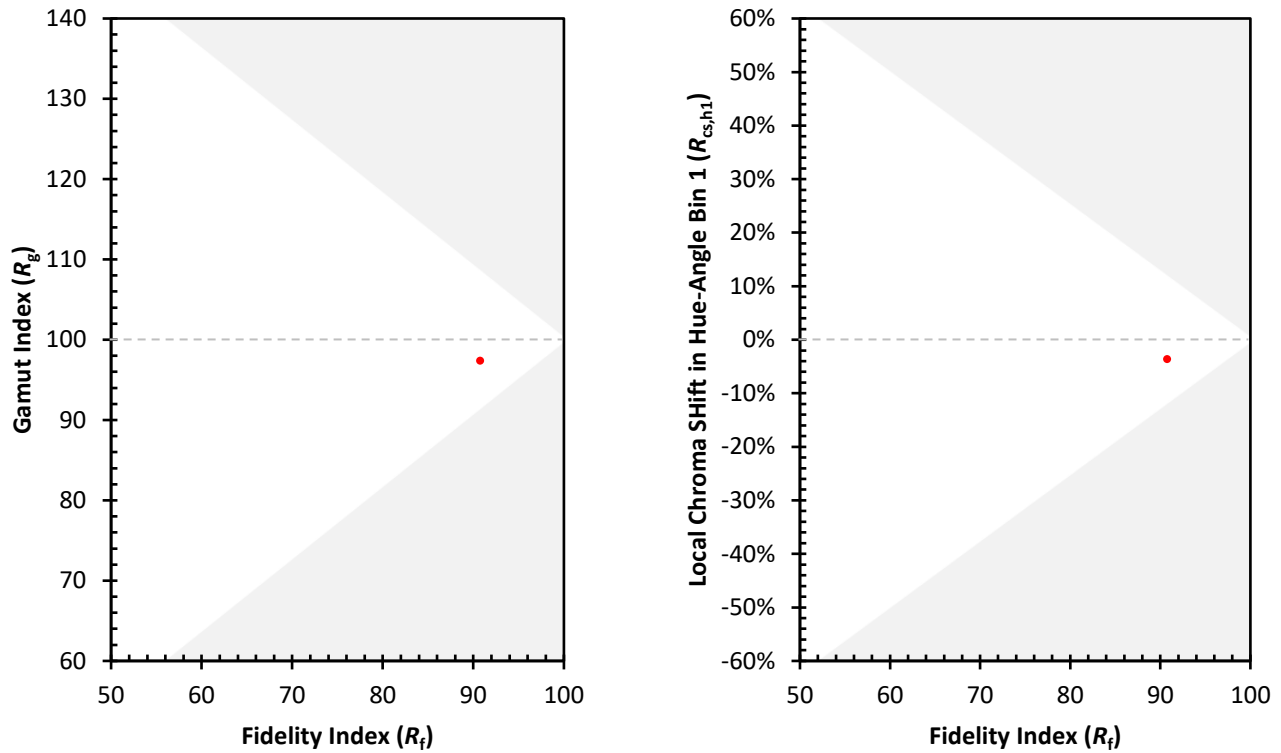
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 98	CES51 = 93	CES76 = 91
CES02 = 61	CES27 = 86	CES52 = 96	CES77 = 89
CES03 = 31	CES28 = 98	CES53 = 93	CES78 = 87
CES04 = 68	CES29 = 90	CES54 = 89	CES79 = 97
CES05 = 48	CES30 = 80	CES55 = 86	CES80 = 94
CES06 = 50	CES31 = 92	CES56 = 89	CES81 = 89
CES07 = 41	CES32 = 97	CES57 = 87	CES82 = 97
CES08 = 40	CES33 = 89	CES58 = 87	CES83 = 96
CES09 = 29	CES34 = 98	CES59 = 96	CES84 = 94
CES10 = 73	CES35 = 98	CES60 = 89	CES85 = 84
CES11 = 56	CES36 = 74	CES61 = 90	CES86 = 90
CES12 = 62	CES37 = 97	CES62 = 78	CES87 = 92
CES13 = 42	CES38 = 75	CES63 = 89	CES88 = 95
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 90
CES15 = 71	CES40 = 97	CES65 = 87	CES90 = 92
CES16 = 47	CES41 = 91	CES66 = 82	CES91 = 69
CES17 = 48	CES42 = 99	CES67 = 82	CES92 = 81
CES18 = 56	CES43 = 97	CES68 = 86	CES93 = 88
CES19 = 70	CES44 = 99	CES69 = 87	CES94 = 86
CES20 = 65	CES45 = 97	CES70 = 86	CES95 = 83
CES21 = 84	CES46 = 94	CES71 = 77	CES96 = 94
CES22 = 77	CES47 = 90	CES72 = 93	CES97 = 97
CES23 = 91	CES48 = 83	CES73 = 82	CES98 = 94
CES24 = 89	CES49 = 95	CES74 = 89	CES99 = 92
CES25 = 70	CES50 = 94	CES75 = 81	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)