

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: P1215458

Luminaire Tested: 22-ID2-40-SWR-L835-U

Issue Date: 12/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P1215458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2506-458-18)
Test Lab: INNOVATION CENTER
Issue Date: 12/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22-ID2-40-SWR-L835-U
Description: 2X2 IN DEPTH TROFFER WITH SWEEP REGRESSED
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

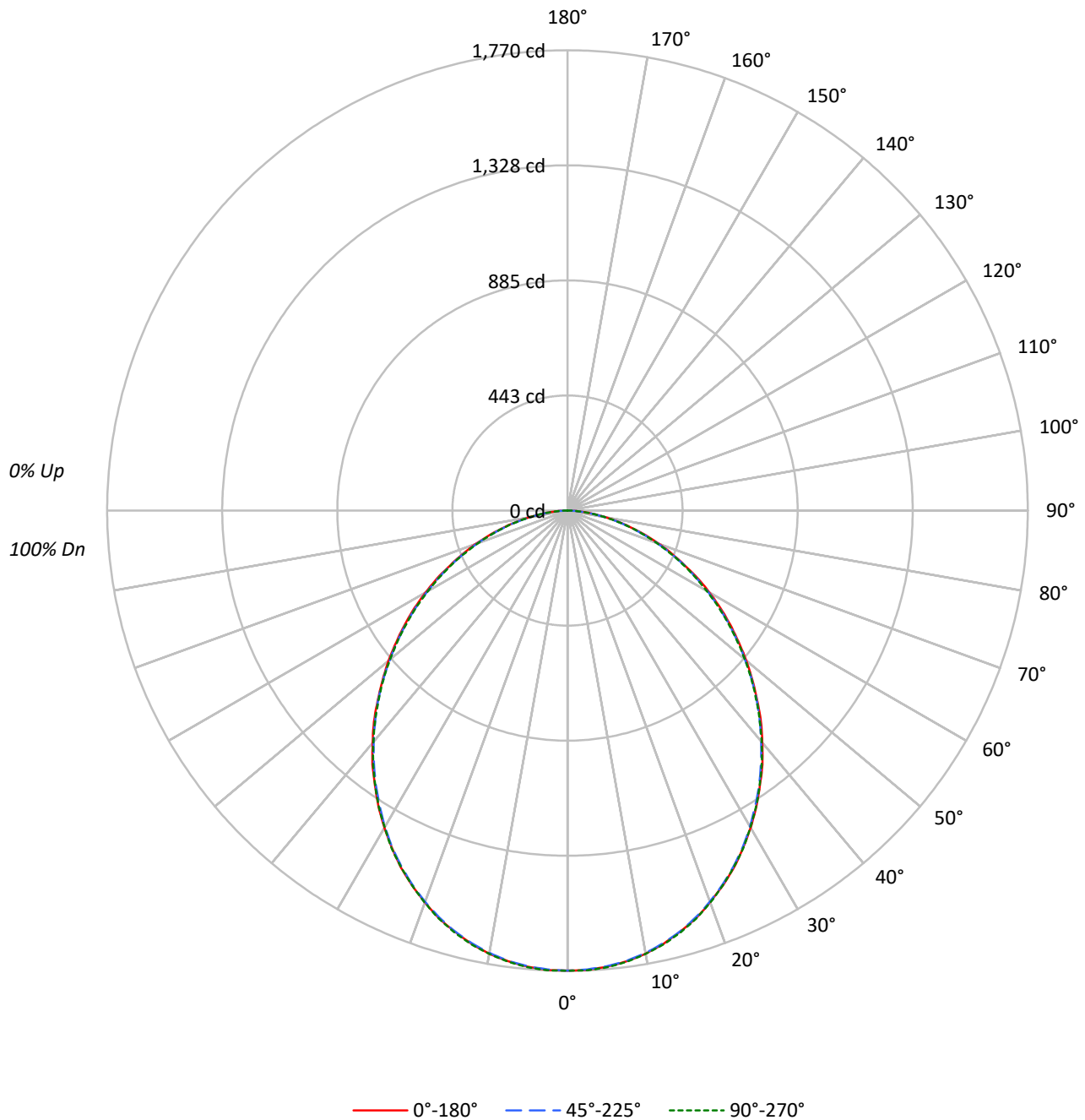
Lumens per Lamp: N/A
Luminaire Lumens: 4437.2 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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: P1215458
CATALOG NUMBER: 22-ID2-40-SWR-L835-U

Luminous Intensity Polar Plot



TEST NUMBER: P1215458

CATALOG NUMBER: 22-ID2-40-SWR-L835-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		102
1	109	105	101	97	107	102	99	95	98	95	92			94	92	89		91
2	100	92	85	80	97	90	84	79	86	81	77			83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65			74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56			66	60	55		64
5	77	65	56	49	75	63	55	49	61	54	48			59	53	48		58
6	71	58	50	43	69	57	49	43	56	48	43			54	47	42		52
7	66	53	44	38	65	52	44	38	51	43	38			49	43	38		48
8	62	48	40	34	60	48	40	34	46	39	34			45	39	34		44
9	58	45	36	31	56	44	36	31	43	36	31			42	35	31		41
10	54	41	33	28	53	41	33	28	40	33	28			39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4761	4761	4761
5°	4755	4751	4761
10°	4729	4720	4730
15°	4670	4667	4679
20°	4591	4584	4595
25°	4498	4483	4493
30°	4375	4361	4370
35°	4238	4221	4234
40°	4093	4070	4080
45°	3924	3914	3905
50°	3758	3730	3725
55°	3580	3549	3536
60°	3391	3352	3328
65°	3165	3144	3119
70°	2956	2895	2869
75°	2650	2598	2616
80°	2328	2224	2250
85°	1797	1711	1744

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3931 cd/sqm

TEST NUMBER: P1215458
 CATALOG NUMBER: 22-ID2-40-SWR-L835-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	3.8
10°-20°	472.3	10.6
20°-30°	695.9	15.7
30°-40°	805.2	18.1
40°-50°	793.5	17.9
50°-60°	677.8	15.3
60°-70°	489.7	11.0
70°-80°	268.1	6.0
80°-90°	67.7	1.5
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°	1335.2	30.1
0°-40°	2140.3	48.2
0°-60°	3611.6	81.4
0°-90°	4437.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1760	1759	1759	1760	1763	167
15°	1676	1676	1675	1678	1680	473
25°	1515	1512	1510	1512	1513	697
35°	1290	1289	1285	1287	1289	807
45°	1031	1033	1028	1026	1026	796
55°	763	758	756	755	754	682
65°	497	497	494	493	490	495
75°	255	254	250	249	252	273
85°	58	56	55	56	56	69
90°	0	0	0	0	0	

TEST NUMBER: P1215458

CATALOG NUMBER: 22-ID2-40-SWR-L835-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1769.3	1769.3	1769.3	1769.3	1769.3
2.5°	1768.2	1767.1	1766.0	1768.2	1769.8
5°	1760.4	1759.3	1758.8	1760.4	1762.6
7.5°	1748.2	1747.1	1746.6	1747.7	1749.9
10°	1730.5	1728.8	1727.2	1729.9	1731.1
12.5°	1706.1	1705.0	1703.9	1705.6	1708.3
15°	1676.2	1675.6	1675.1	1677.9	1679.5
17.5°	1644.1	1641.8	1640.7	1641.3	1645.2
20°	1603.1	1603.1	1600.8	1603.1	1604.7
22.5°	1560.9	1559.8	1557.6	1559.3	1560.4
25°	1515.0	1511.6	1510.0	1511.6	1513.3
27.5°	1462.3	1461.2	1459.5	1460.6	1464.0
30°	1408.0	1406.9	1403.6	1405.8	1406.3
32.5°	1351.5	1352.0	1344.3	1347.6	1350.4
35°	1290.0	1289.4	1285.0	1287.2	1288.9
37.5°	1231.8	1227.4	1222.4	1224.6	1227.4
40°	1165.3	1162.5	1158.7	1159.2	1161.4
42.5°	1101.6	1096.6	1093.8	1094.9	1094.4
45°	1031.2	1032.9	1028.4	1025.7	1026.2
47.5°	964.2	964.2	960.3	959.2	959.2
50°	897.7	897.7	891.0	889.4	889.9
52.5°	829.0	831.2	823.4	824.0	821.8
55°	763.0	758.0	756.4	754.7	753.6
57.5°	697.1	694.3	689.3	687.7	686.5
60°	630.0	627.8	622.8	621.7	618.4
62.5°	565.2	562.4	556.3	555.8	553.6
65°	497.0	497.0	493.7	492.6	489.8
67.5°	434.4	433.3	428.9	428.9	425.6
70°	375.7	374.0	367.9	366.3	364.6
72.5°	313.6	312.0	307.5	309.8	305.9
75°	254.9	254.3	249.9	249.4	251.6
77.5°	203.4	199.5	196.2	196.7	195.6
80°	150.2	147.4	143.5	144.6	145.2
82.5°	99.7	100.8	98.1	98.1	99.2
85°	58.2	56.5	55.4	56.0	56.5
87.5°	20.5	21.6	19.9	21.1	19.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1215458

CATALOG NUMBER: 22-ID2-40-SWR-L835-U

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	16.36	17.96	16.73	18.27	18.59	16.29	17.89	16.66	18.20	18.51
	3H	18.02	19.46	18.40	19.79	20.15	17.93	19.37	18.30	19.69	20.05
	4H	18.62	19.98	19.02	20.33	20.70	18.52	19.88	18.92	20.22	20.60
	6H	19.06	20.31	19.47	20.67	21.07	18.94	20.19	19.35	20.56	20.95
	8H	19.18	20.38	19.61	20.77	21.17	19.06	20.26	19.49	20.65	21.05
	12H	19.25	20.40	19.68	20.78	21.21	19.14	20.28	19.57	20.66	21.09
4H	2H	16.94	18.29	17.34	18.64	19.02	16.88	18.23	17.28	18.58	18.96
	3H	18.81	19.95	19.22	20.34	20.74	18.73	19.86	19.14	20.26	20.66
	4H	19.54	20.56	19.97	20.97	21.41	19.45	20.47	19.88	20.88	21.32
	6H	20.09	20.98	20.54	21.42	21.88	19.98	20.87	20.44	21.31	21.77
	8H	20.25	21.09	20.72	21.53	22.00	20.15	20.98	20.61	21.42	21.89
	12H	20.36	21.11	20.84	21.59	22.06	20.26	21.00	20.74	21.48	21.95
8H	4H	19.80	20.63	20.26	21.08	21.54	19.72	20.55	20.18	21.00	21.46
	6H	20.46	21.15	20.95	21.64	22.11	20.36	21.05	20.86	21.54	22.02
	8H	20.69	21.31	21.20	21.81	22.30	20.59	21.21	21.10	21.72	22.20
	12H	20.86	21.40	21.36	21.90	22.46	20.76	21.30	21.26	21.79	22.36
12H	4H	19.82	20.57	20.30	21.05	21.52	19.75	20.49	20.23	20.97	21.44
	6H	20.50	21.12	21.01	21.62	22.11	20.40	21.02	20.91	21.53	22.02
	8H	20.78	21.32	21.28	21.81	22.38	20.68	21.23	21.19	21.72	22.28

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

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-1

Test Date: 07/23/2025

Luminaire Tested: 22ID2-55-CFR1-L835-U

Data in this report applies to families of products including 22ID2-55-CFR1-L835-U

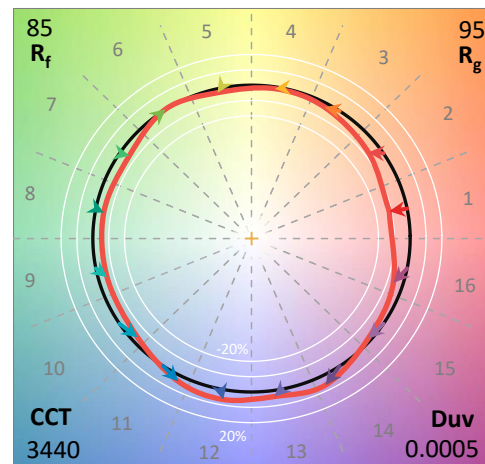
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-1
 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-L835-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 3500K 80CRI

Spectral Parameters

CCT (K): 3440
 CIE u' : 0.2370
 CIE v' : 0.5132
 Duv: 0.0005
 CIE x: 0.4093
 CIE y: 0.3940
 CIE z: 0.1967
 Peak Wavelength (nm): 599
 Dominant Wavelength (nm): 580
 Purity: 41.09375
 R_f: 84.9
 R_g: 94.6

CRI (Ra): 84.2
 R1: 82.8
 R2: 91.7
 R3: 96.7
 R4: 81.9
 R5: 82.6
 R6: 88.8
 R7: 85.0
 R8: 63.7
 R9: 13.6
 R10: 80.1
 R11: 81.1
 R12: 65.8
 R13: 85.2
 R14: 98.7
 R15: 76.2



Test Conditions

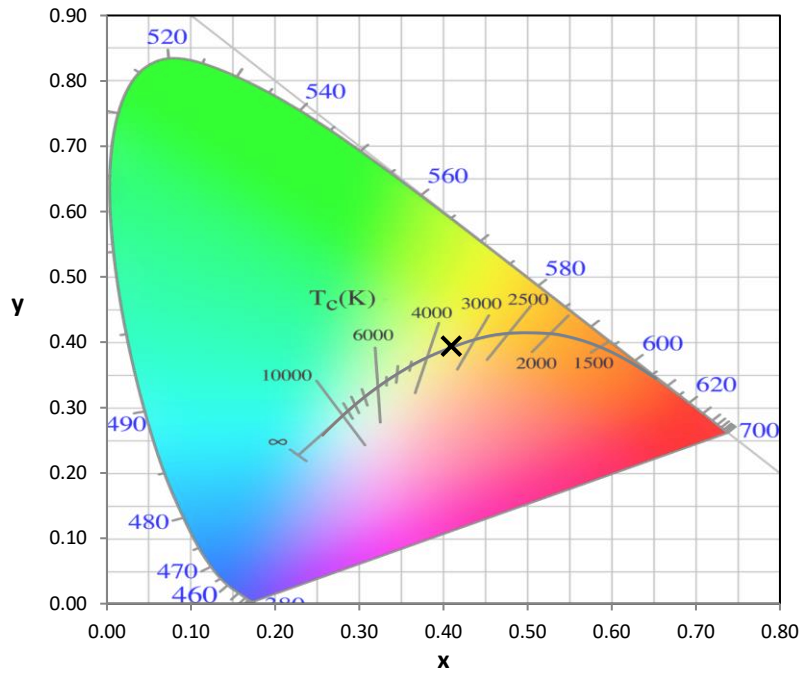
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2506-458-1

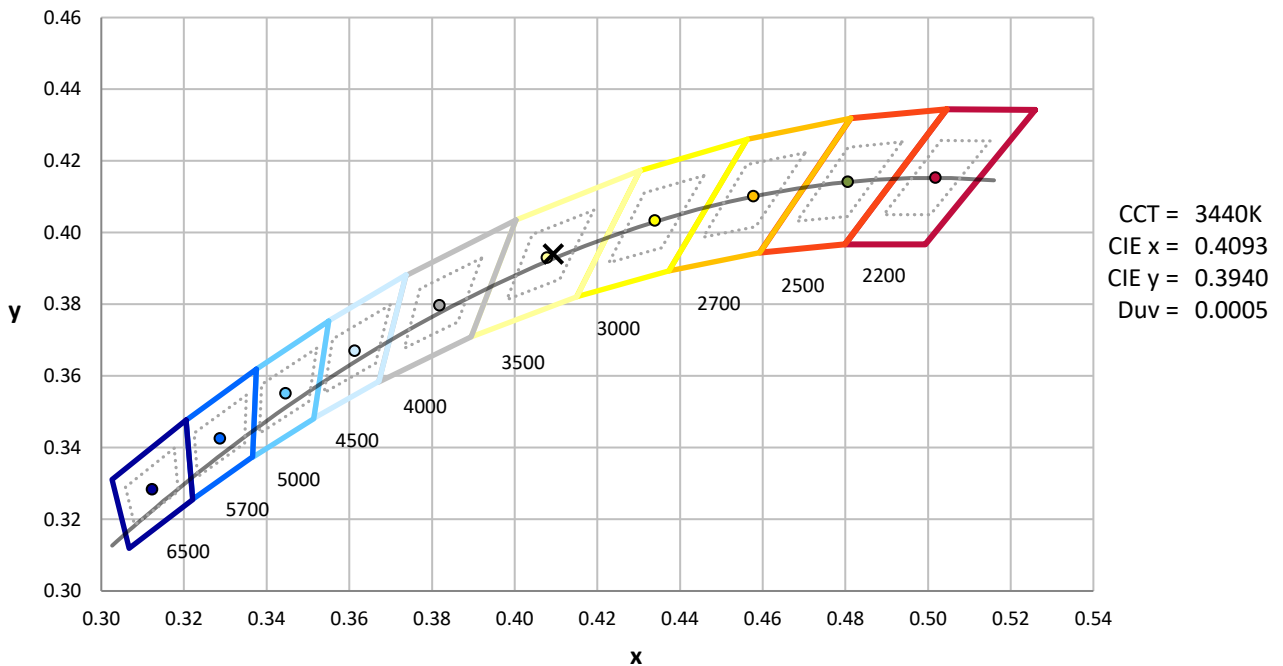
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2506-458-1

CIE 1931 Chromaticity Diagram



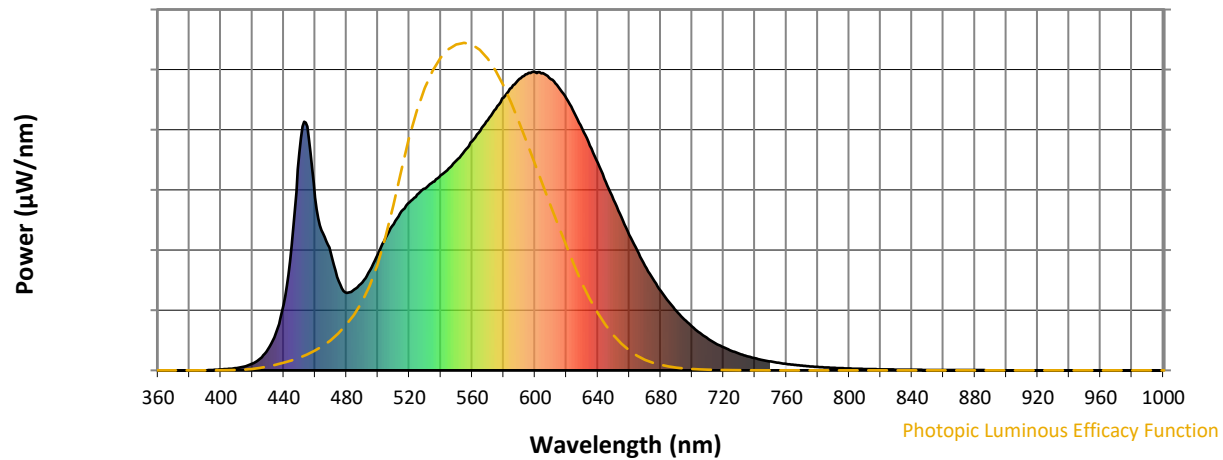
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-458-1

Photopic Flux vs. Wavelength

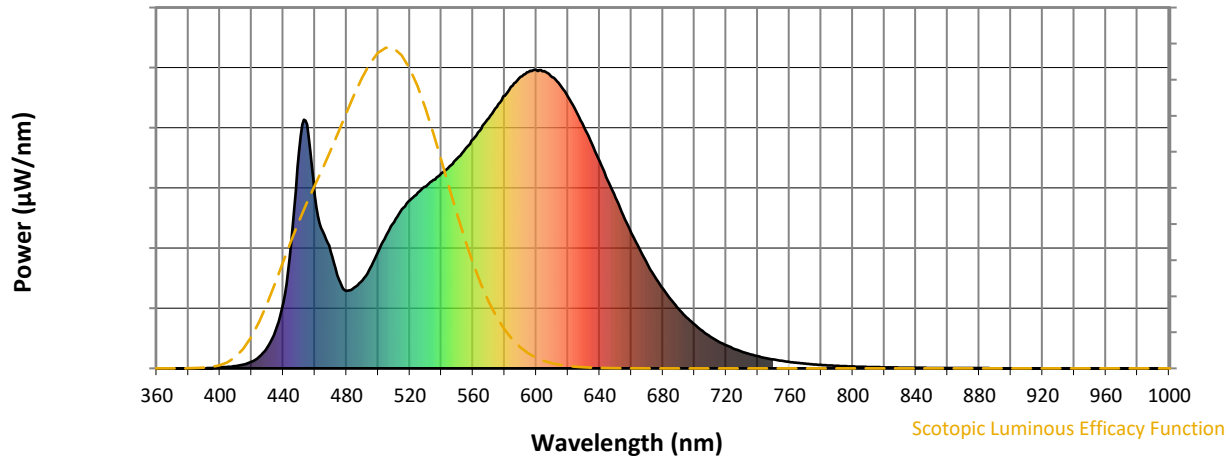


Photopic Lumens: NR

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	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR	970	0	NR
455	816	NR	585	946	NR	715	90	NR	845	2	NR	975	0	NR
460	578	NR	590	976	NR	720	77	NR	850	1	NR	980	0	NR
465	458	NR	595	992	NR	725	66	NR	855	1	NR	985	0	NR
470	390	NR	600	999	NR	730	56	NR	860	1	NR	990	0	NR
475	299	NR	605	995	NR	735	47	NR	865	1	NR	995	0	NR
480	260	NR	610	975	NR	740	40	NR	870	1	NR	1000	0	NR
485	271	NR	615	948	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-1

Scotopic Flux vs. Wavelength



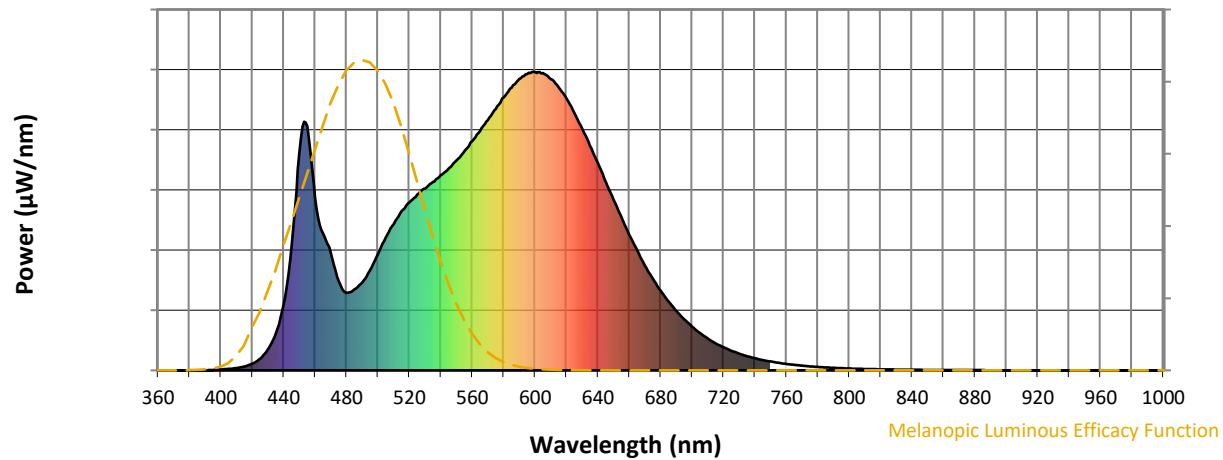
Scotopic Lumens: NR

S/P: 1.53

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	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR	970	0	NR
455	816	NR	585	946	NR	715	90	NR	845	2	NR	975	0	NR
460	578	NR	590	976	NR	720	77	NR	850	1	NR	980	0	NR
465	458	NR	595	992	NR	725	66	NR	855	1	NR	985	0	NR
470	390	NR	600	999	NR	730	56	NR	860	1	NR	990	0	NR
475	299	NR	605	995	NR	735	47	NR	865	1	NR	995	0	NR
480	260	NR	610	975	NR	740	40	NR	870	1	NR	1000	0	NR
485	271	NR	615	948	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.07

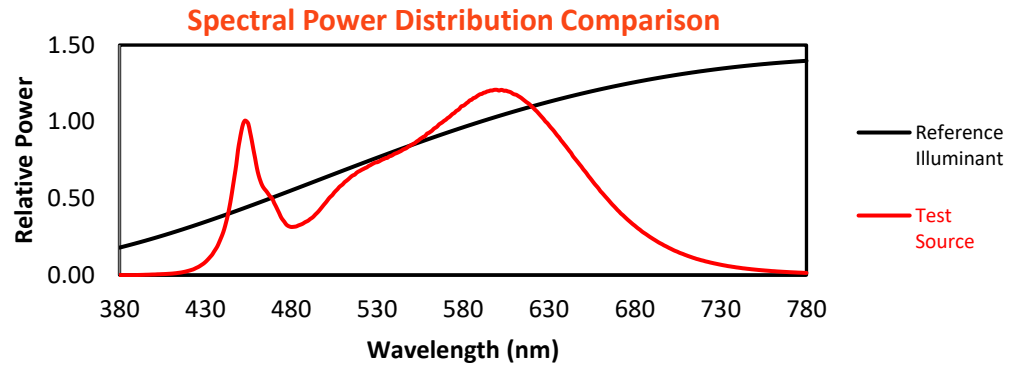
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR	970	0	NR
455	816	NR	585	946	NR	715	90	NR	845	2	NR	975	0	NR
460	578	NR	590	976	NR	720	77	NR	850	1	NR	980	0	NR
465	458	NR	595	992	NR	725	66	NR	855	1	NR	985	0	NR
470	390	NR	600	999	NR	730	56	NR	860	1	NR	990	0	NR
475	299	NR	605	995	NR	735	47	NR	865	1	NR	995	0	NR
480	260	NR	610	975	NR	740	40	NR	870	1	NR	1000	0	NR
485	271	NR	615	948	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-1

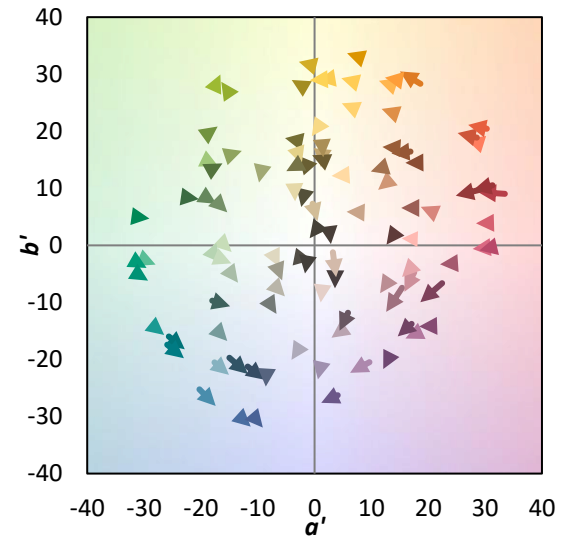
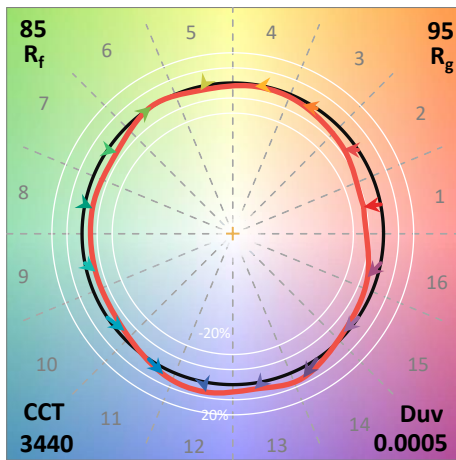
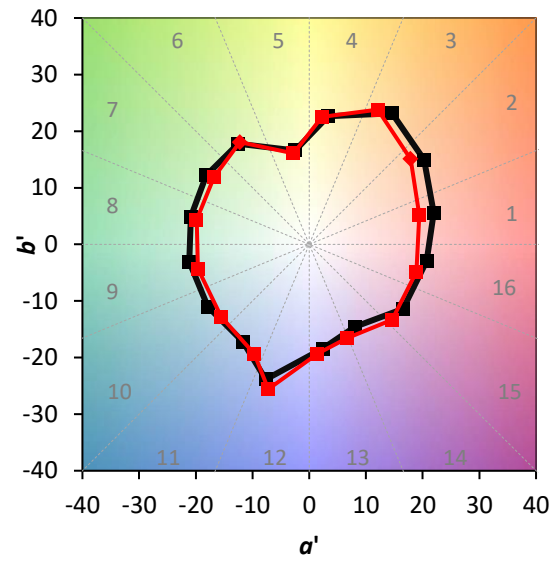
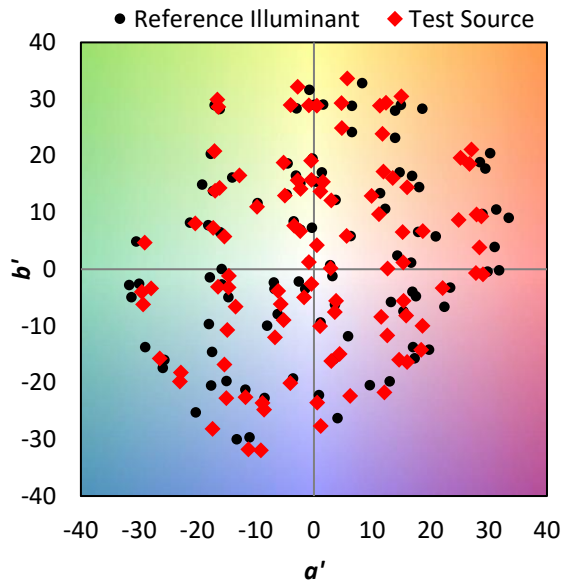
TM-30-18

Summary

$R_f = 84.9$
 $R_g = 94.6$
 $CIE R_a = 84.2$
 $R_9 = 13.6$

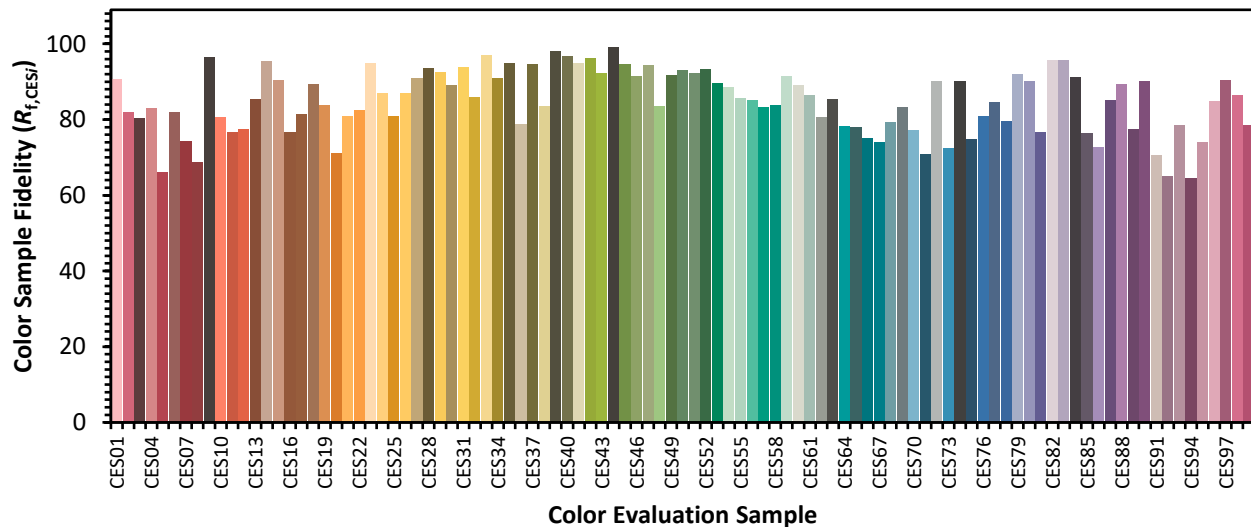


Color Vector Graphics

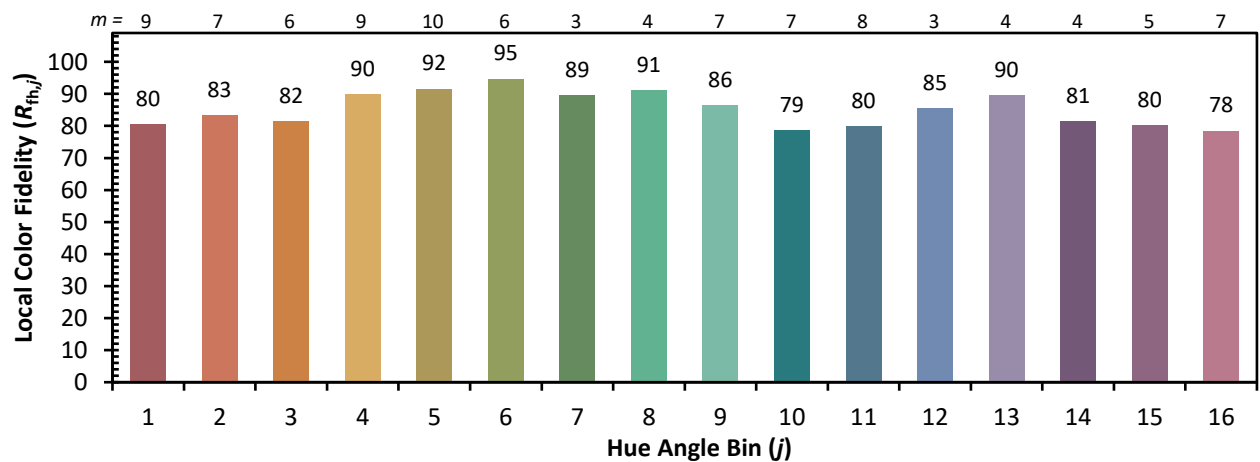
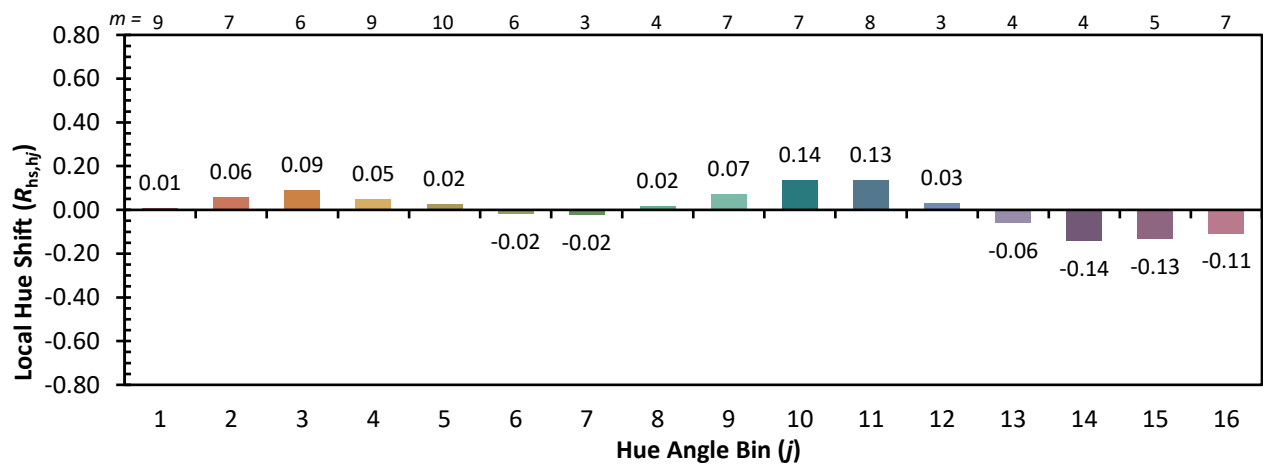
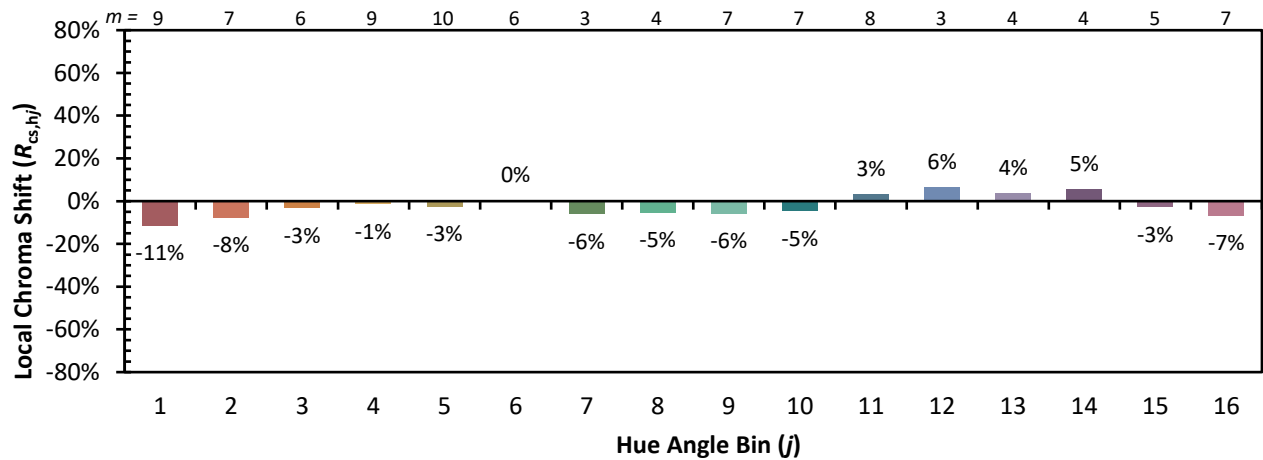


Individual Sample Fidelity Index ($R_{f,i}$)

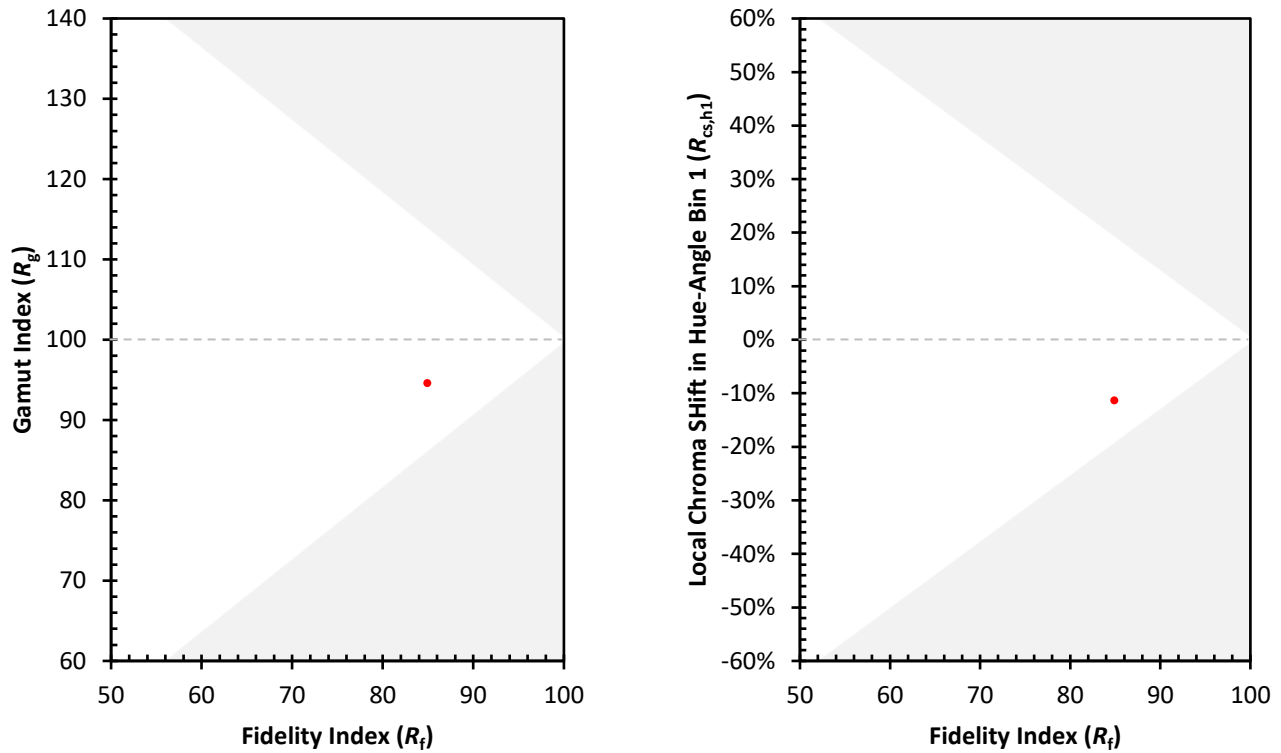
CES01 = 86	CES26 = 87	CES51 = 92	CES76 = 81
CES02 = 62	CES27 = 91	CES52 = 93	CES77 = 85
CES03 = 31	CES28 = 94	CES53 = 90	CES78 = 80
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 92
CES05 = 49	CES30 = 89	CES55 = 86	CES80 = 90
CES06 = 51	CES31 = 94	CES56 = 85	CES81 = 77
CES07 = 41	CES32 = 86	CES57 = 83	CES82 = 96
CES08 = 40	CES33 = 97	CES58 = 84	CES83 = 96
CES09 = 29	CES34 = 91	CES59 = 91	CES84 = 91
CES10 = 75	CES35 = 95	CES60 = 89	CES85 = 76
CES11 = 58	CES36 = 79	CES61 = 87	CES86 = 73
CES12 = 64	CES37 = 95	CES62 = 81	CES87 = 85
CES13 = 43	CES38 = 84	CES63 = 85	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 78	CES89 = 78
CES15 = 71	CES40 = 97	CES65 = 78	CES90 = 90
CES16 = 47	CES41 = 95	CES66 = 75	CES91 = 71
CES17 = 50	CES42 = 96	CES67 = 74	CES92 = 65
CES18 = 56	CES43 = 92	CES68 = 79	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 66	CES45 = 95	CES70 = 77	CES95 = 74
CES21 = 86	CES46 = 91	CES71 = 71	CES96 = 85
CES22 = 78	CES47 = 94	CES72 = 90	CES97 = 90
CES23 = 92	CES48 = 83	CES73 = 72	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 90	CES99 = 79
CES25 = 72	CES50 = 93	CES75 = 75	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)