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

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: P1215907

Luminaire Tested: 24-ID2-35-CFD2-L840-U

Issue Date: 12/5/2025

Report Generated By 670265710 / DESKTOP-98SHLC4

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1215907
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2506-458-28)
Test Lab:	INNOVATION CENTER
Issue Date:	12/5/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24-ID2-35-CFD2-L840-U
Description:	2X4 IN DEPTH TROFFER WITH 2INCH CUBE DROP LENS
Light Source:	4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3727.4 lumens
Efficiency:	N/A
Efficacy:	122.6 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.21 / 1.32
Luminous Opening:	Rectangular w/ Sides (W: 2' x L: 4' x H: 0.16')
CIE Type:	Direct

Input Watts (W):	30.4
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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TEST NUMBER: P1215907
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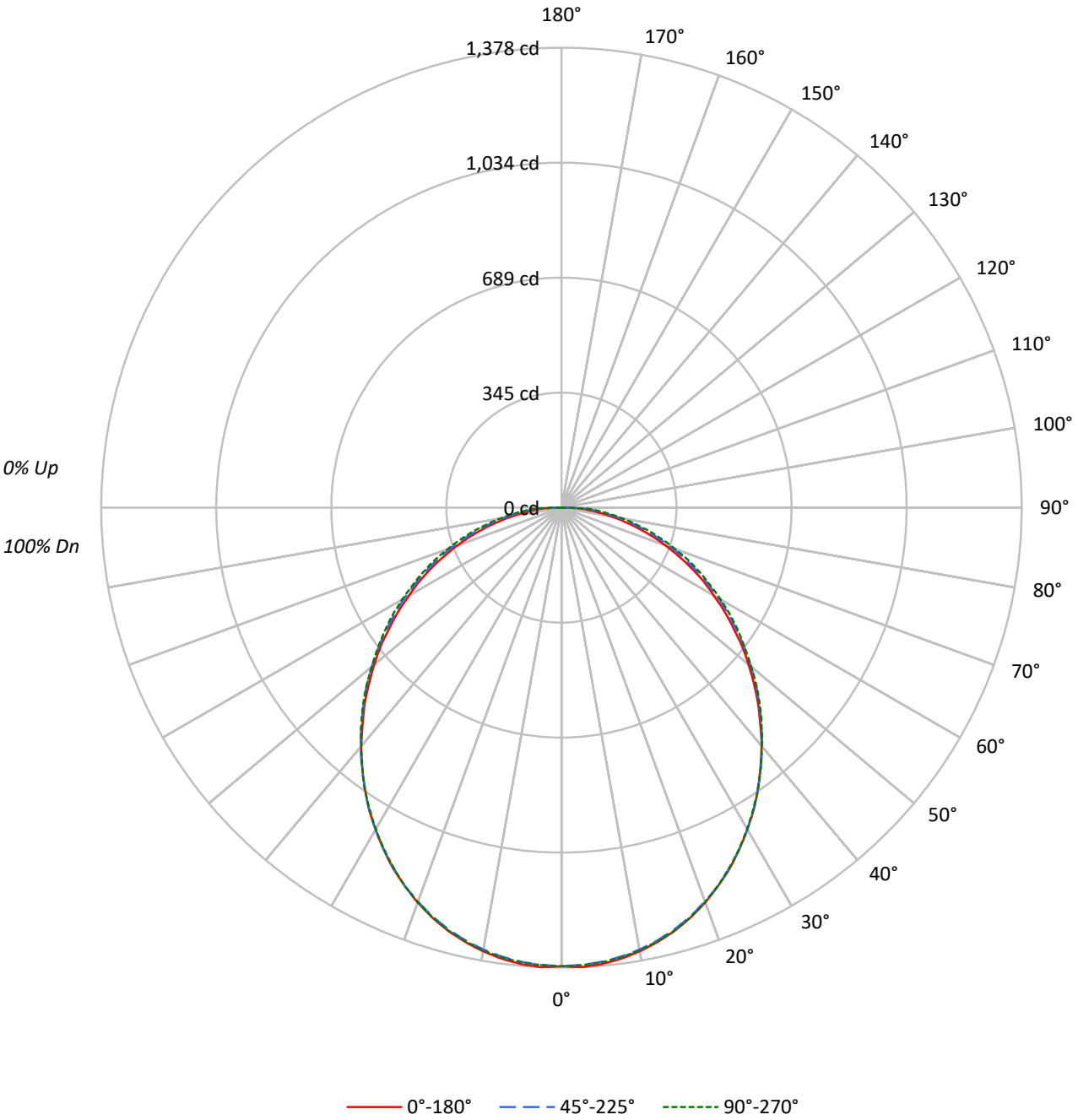
Luminous Intensity Polar Plot



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TEST NUMBER: P1215907
CATALOG NUMBER: 24-ID2-35-CFD2-L840-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	32	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	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	26	37	31	26	37	31	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1849	1849	1849
5°	1848	1832	1834
10°	1832	1809	1815
15°	1809	1782	1788
20°	1777	1744	1749
25°	1738	1700	1703
30°	1690	1649	1651
35°	1640	1591	1597
40°	1584	1532	1535
45°	1524	1470	1482
50°	1461	1408	1417
55°	1394	1341	1361
60°	1326	1274	1299
65°	1263	1199	1240
70°	1174	1124	1167
75°	1076	1015	1086
80°	951	905	989
85°	831	791	893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1524 cd/sqm

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Scaled Data Report

TEST NUMBER: P1215907
CATALOG NUMBER: 24-ID2-35-CFD2-L840-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.5
10°-20°	368.9	9.9
20°-30°	548.1	14.7
30°-40°	642.2	17.2
40°-50°	646.4	17.3
50°-60°	572.9	15.4
60°-70°	440.8	11.8
70°-80°	272.5	7.3
80°-90°	105.7	2.8
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°	1046.9	28.1
0°-40°	1689.1	45.3
0°-60°	2908.4	78.0
0°-90°	3727.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3727.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1373	1369	1366	1365	1368	130
15°	1312	1309	1308	1308	1311	370
25°	1193	1191	1191	1190	1190	549
35°	1026	1027	1026	1027	1027	642
45°	833	836	838	839	841	642
55°	628	636	641	646	646	563
65°	431	437	445	454	456	425
75°	238	246	257	270	271	252
85°	78	88	101	110	111	86
90°	0	0	0	0	0	

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TEST NUMBER: P1215907
CATALOG NUMBER: 24-ID2-35-CFD2-L840-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1374.0*	1374.0	1374.0	1374.0	1374.0
2.5°	*1378.2*	*1374.0*	*1371.4*	*1369.8*	*1372.4*
5°	*1372.9*	1368.8	1366.2	1365.1	1367.7
7.5°	*1363.5*	1359.4	1357.3	1356.7	1359.4
10°	*1350.0*	1345.8	1344.2	1343.7	1347.3
12.5°	*1332.7*	1329.0	1328.0	1328.5	1330.6
15°	*1312.3*	1308.7	1308.1	1307.6	1310.8
17.5°	*1287.2*	1284.1	1284.1	1283.1	1286.2
20°	*1259.0*	1255.4	1255.9	1255.4	1257.4
22.5°	*1226.6*	1224.5	1226.1	1225.6	1226.1
25°	*1192.6*	1190.6	1190.6	1190.0	1190.0
27.5°	*1154.0*	1153.4	1153.4	1151.9	1152.4
30°	*1113.2*	1113.7	1113.2	1112.7	1111.6
32.5°	*1072.4*	1071.4	1071.4	1071.4	1069.8
35°	*1026.4*	1027.0	1026.4	1027.0	1027.0
37.5°	*979.4*	982.5	981.5	982.5	979.9
40°	*932.4*	933.4	934.5	934.5	932.9
42.5°	*881.2*	886.9	887.4	887.4	887.4
45°	*833.1*	835.7	838.3	839.3	840.9
47.5°	*781.9*	786.6	791.3	790.2	792.3
50°	*731.2*	737.4	740.6	743.2	741.6
52.5°	*682.0*	685.7	690.9	694.1	693.5
55°	*628.2*	635.5	640.7	646.5	646.5
57.5°	*579.1*	587.4	591.6	598.4	599.5
60°	*526.8*	536.2	543.0	549.3	549.8
62.5°	*480.3*	486.6	493.9	502.8	501.2
65°	*430.6*	436.9	445.3	453.6	456.3
67.5°	*379.4*	388.3	398.2	406.6	410.3
70°	*331.3*	340.8	352.3	360.6	361.7
72.5°	*284.3*	294.2	303.6	314.1	316.7
75°	*237.8*	246.2	257.1	269.7	271.2
77.5°	*191.3*	202.8	213.8	225.3	225.8
80°	*150.5*	159.9	173.0	183.4	185.5
82.5°	*110.8*	121.3	133.8	144.8	145.8
85°	*78.4*	88.3	100.9	109.8	110.8
87.5°	*52.8*	62.7	74.2	83.1	84.1
90°	*0.0*	0.0	0.0	0.0	0.0

TEST NUMBER: P1215907
CATALOG NUMBER: 24-ID2-35-CFD2-L840-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	12.87	14.51	13.23	14.82	15.14	13.15	14.78	13.51	15.10	15.41
	3H	14.58	16.07	14.96	16.39	16.75	15.04	16.52	15.41	16.85	17.21
	4H	15.22	16.62	15.62	16.97	17.34	15.80	17.20	16.20	17.55	17.92
	6H	15.68	16.98	16.09	17.35	17.74	16.42	17.72	16.83	18.09	18.48
	8H	15.83	17.08	16.26	17.46	17.86	16.67	17.91	17.09	18.30	18.70
	12H	15.94	17.13	16.37	17.51	17.94	16.88	18.08	17.31	18.46	18.89
4H	2H	13.51	14.91	13.91	15.26	15.63	13.73	15.13	14.13	15.48	15.85
	3H	15.45	16.63	15.86	17.03	17.43	15.84	17.02	16.25	17.42	17.82
	4H	16.21	17.29	16.65	17.70	18.13	16.74	17.81	17.17	18.23	18.66
	6H	16.81	17.75	17.26	18.19	18.64	17.52	18.46	17.97	18.90	19.35
	8H	17.01	17.89	17.47	18.33	18.79	17.83	18.71	18.29	19.15	19.61
	12H	17.16	17.96	17.64	18.43	18.90	18.11	18.90	18.59	19.38	19.85
8H	4H	16.57	17.45	17.03	17.89	18.35	17.03	17.92	17.49	18.36	18.82
	6H	17.29	18.03	17.78	18.51	18.99	17.94	18.68	18.44	19.17	19.64
	8H	17.57	18.23	18.08	18.74	19.22	18.35	19.01	18.86	19.52	20.00
	12H	17.81	18.40	18.31	18.88	19.44	18.75	19.33	19.25	19.82	20.38
12H	4H	16.62	17.41	17.10	17.89	18.36	17.07	17.86	17.54	18.33	18.80
	6H	17.38	18.04	17.88	18.55	19.03	18.00	18.66	18.51	19.17	19.65
	8H	17.72	18.31	18.23	18.80	19.36	18.47	19.06	18.98	19.55	20.11

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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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

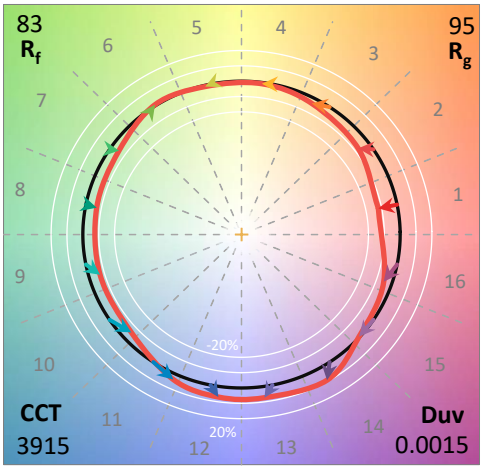
Test Information

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
Rf:	83.2
Rg:	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

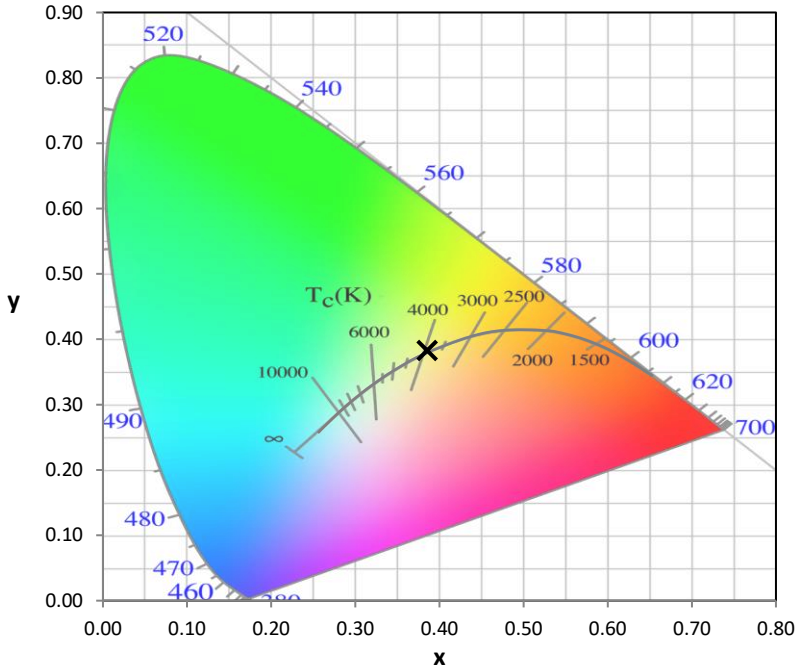
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2506-458-5

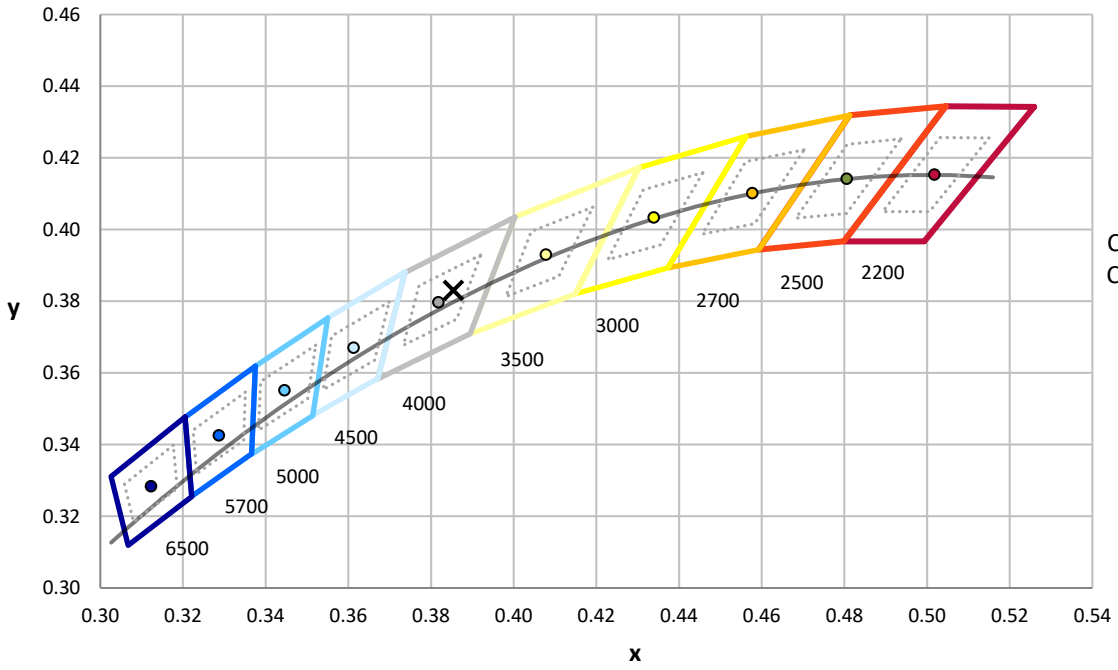
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2506-458-5

CIE 1931 Chromaticity Diagram



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

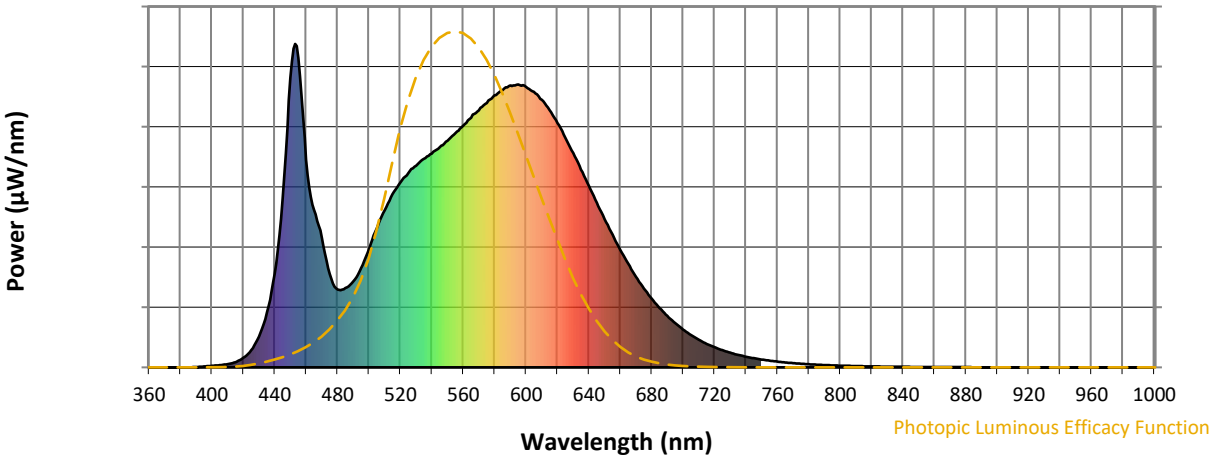


CCT = 3915K
CIE x = 0.3854
CIE y = 0.3830
Duv = 0.0015

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-458-5

Photopic Flux vs. Wavelength

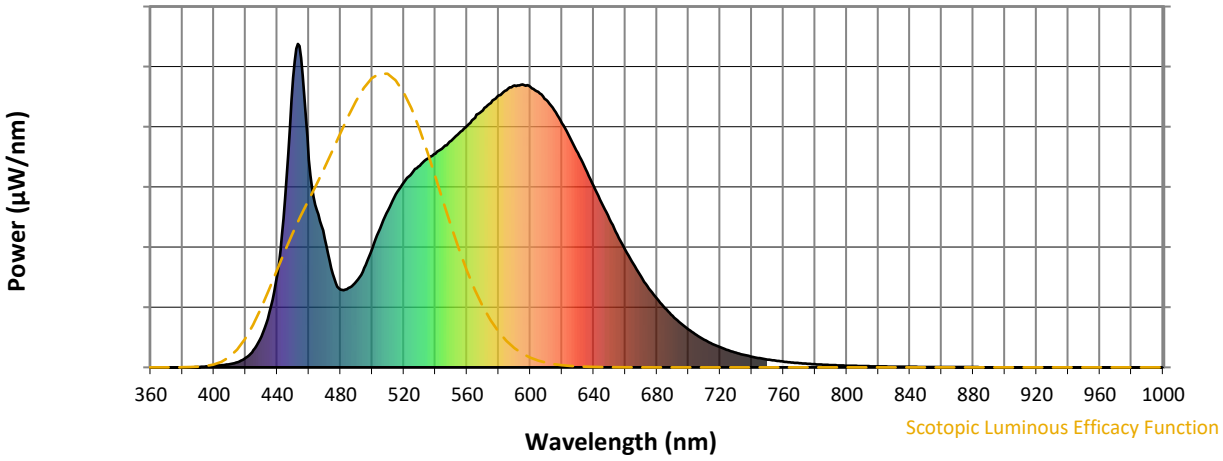


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2506-458-5

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.65**

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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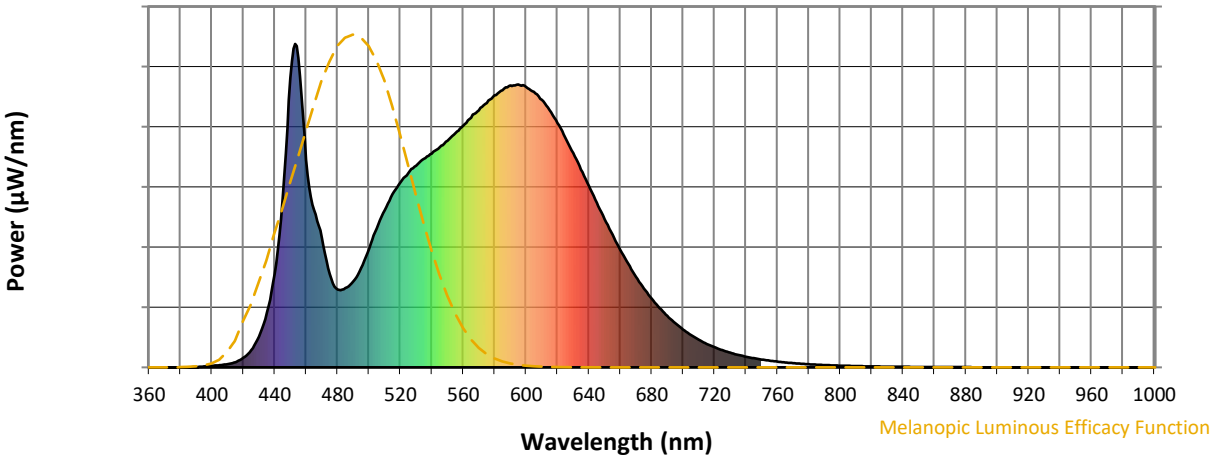
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.36**

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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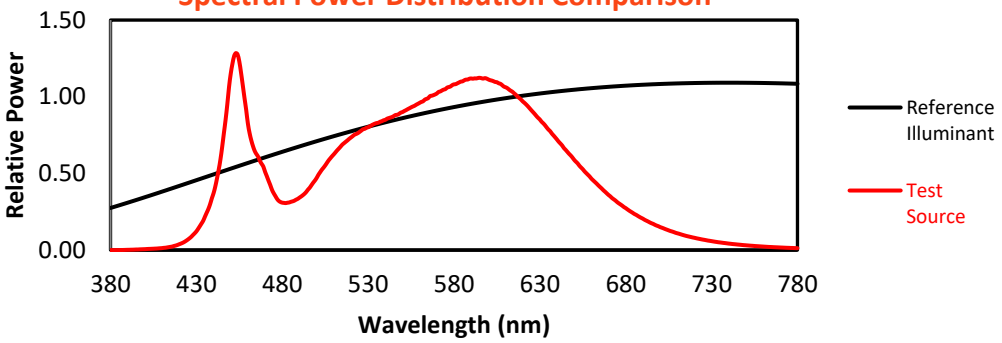
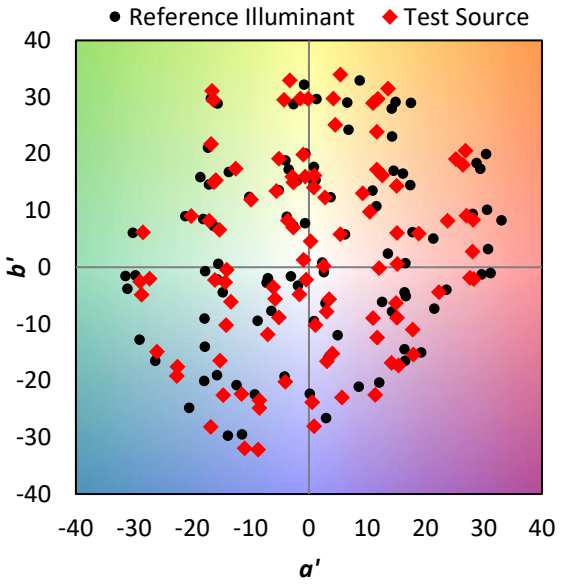
Summary

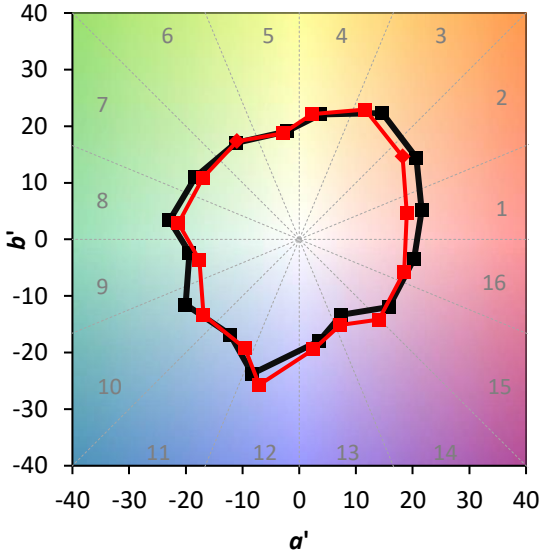
R_f = 83.2
R_g = 94.6
CIE R_a = 82.3
R_9 = 7.6

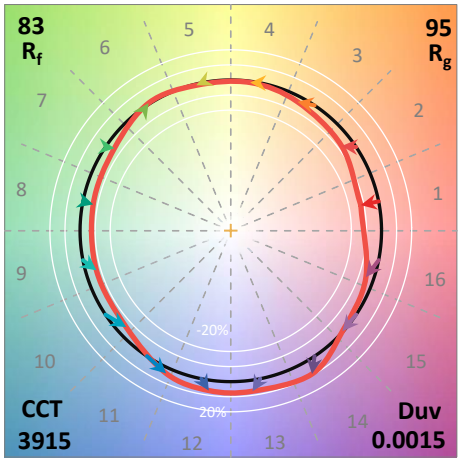
Spectral Power Distribution Comparison

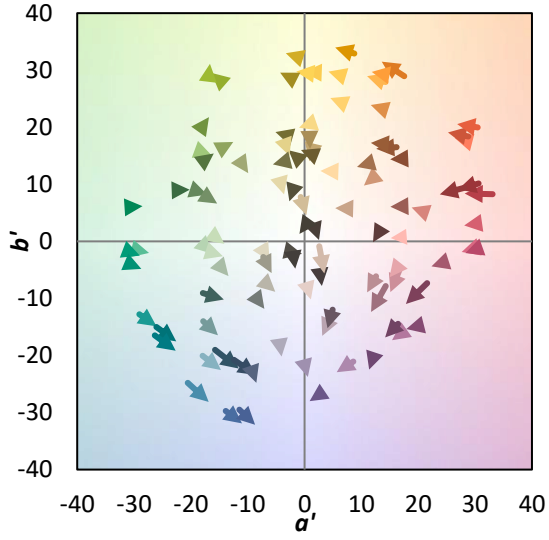


Color Vector Graphics









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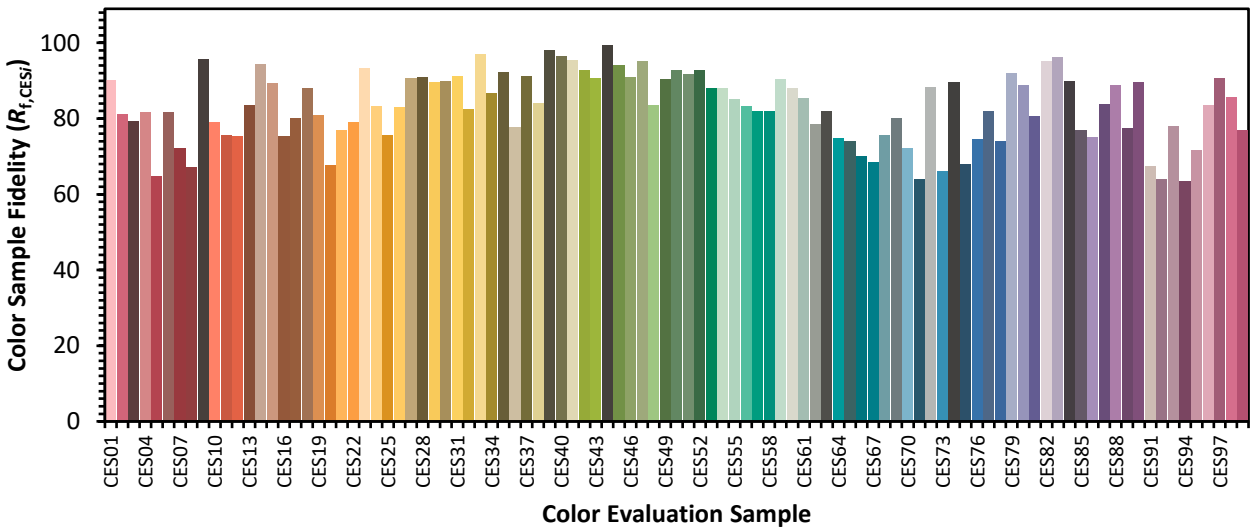
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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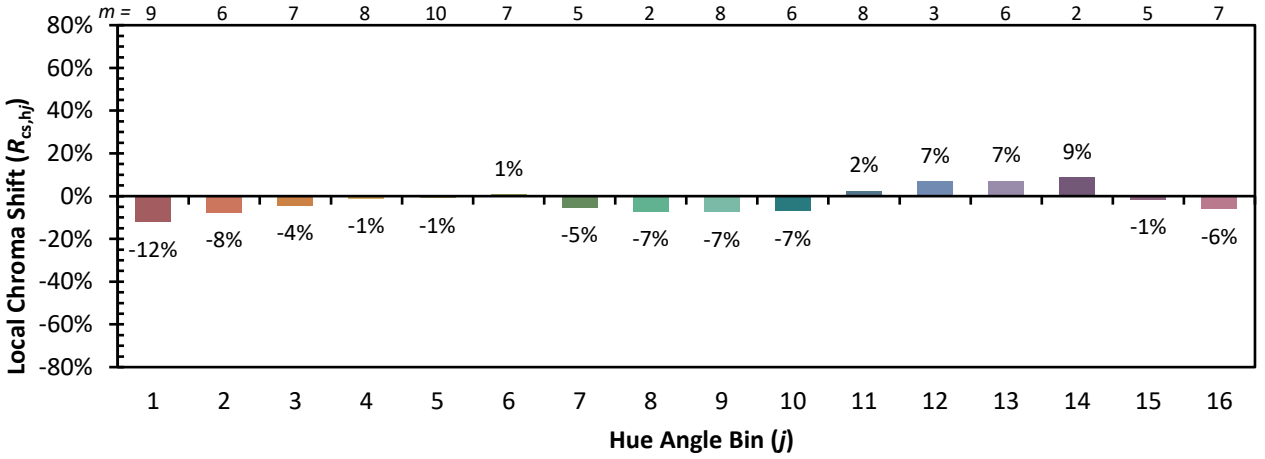
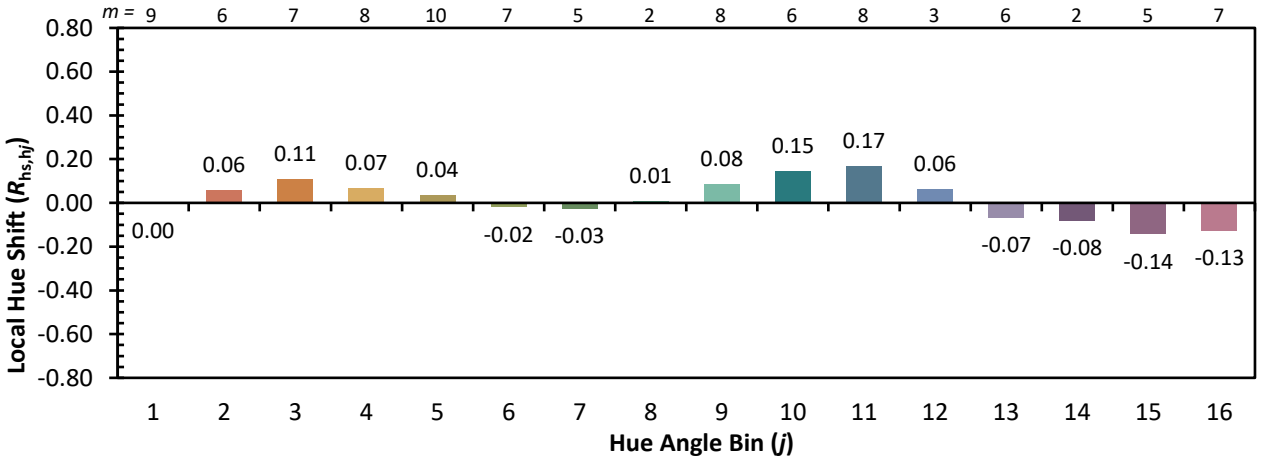
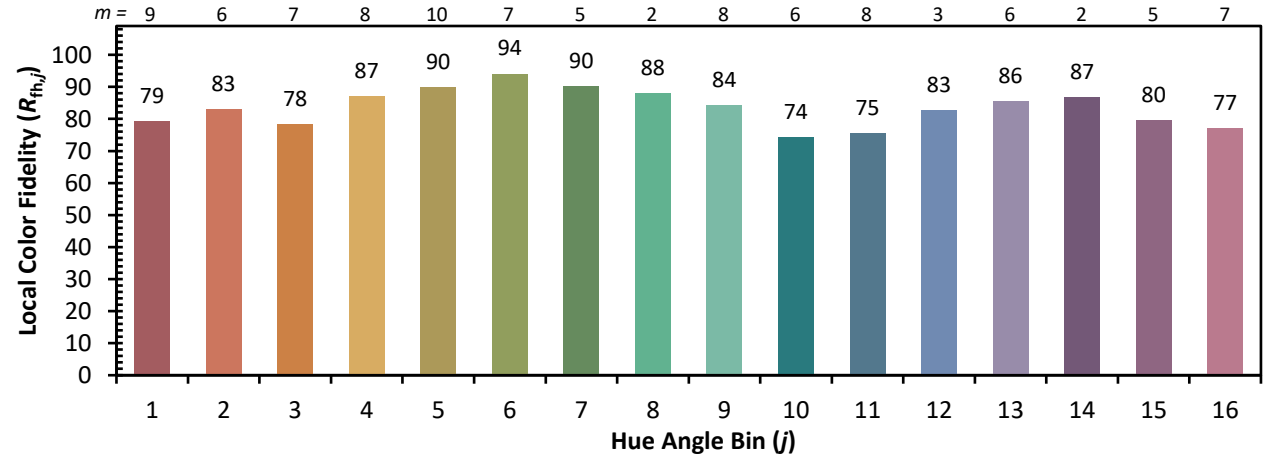
Color Rendition by Hue-Angle Bin







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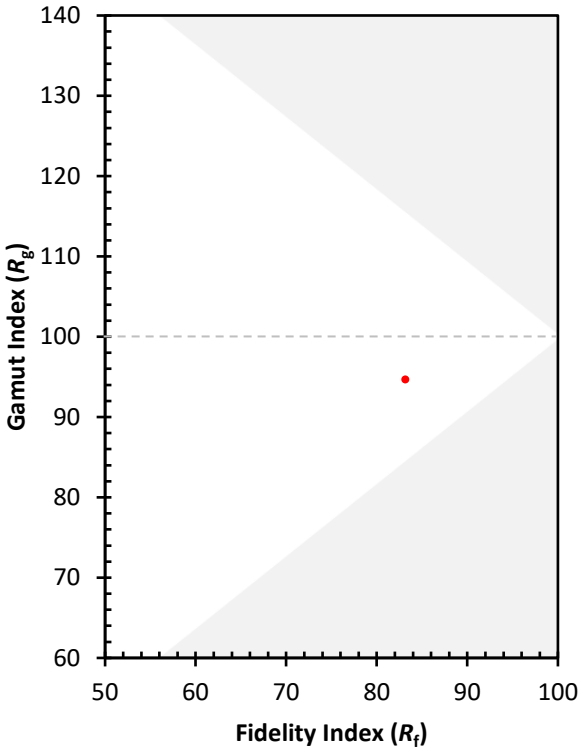
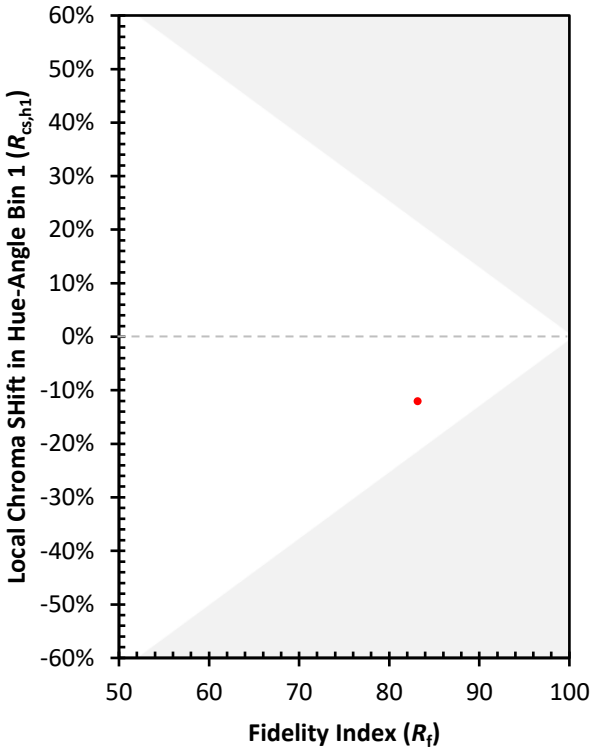
Measure Comparisons





(END OF REPORT)