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: P1216389

Luminaire Tested: 24-ID2-35-DBR-L930-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:	P1216389
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-10)
Test Lab:	INNOVATION CENTER
Issue Date:	12/5/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24-ID2-35-DBR-L930-U
Description:	2X4 IN DEPTH TROFFER WITH 2INCH DOUBLE BARREL REGRESSED
Light Source:	3000K CCT, 90 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3089.4 lumens
Efficiency:	N/A
Efficacy:	101.6 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 1.2 / 1.3
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
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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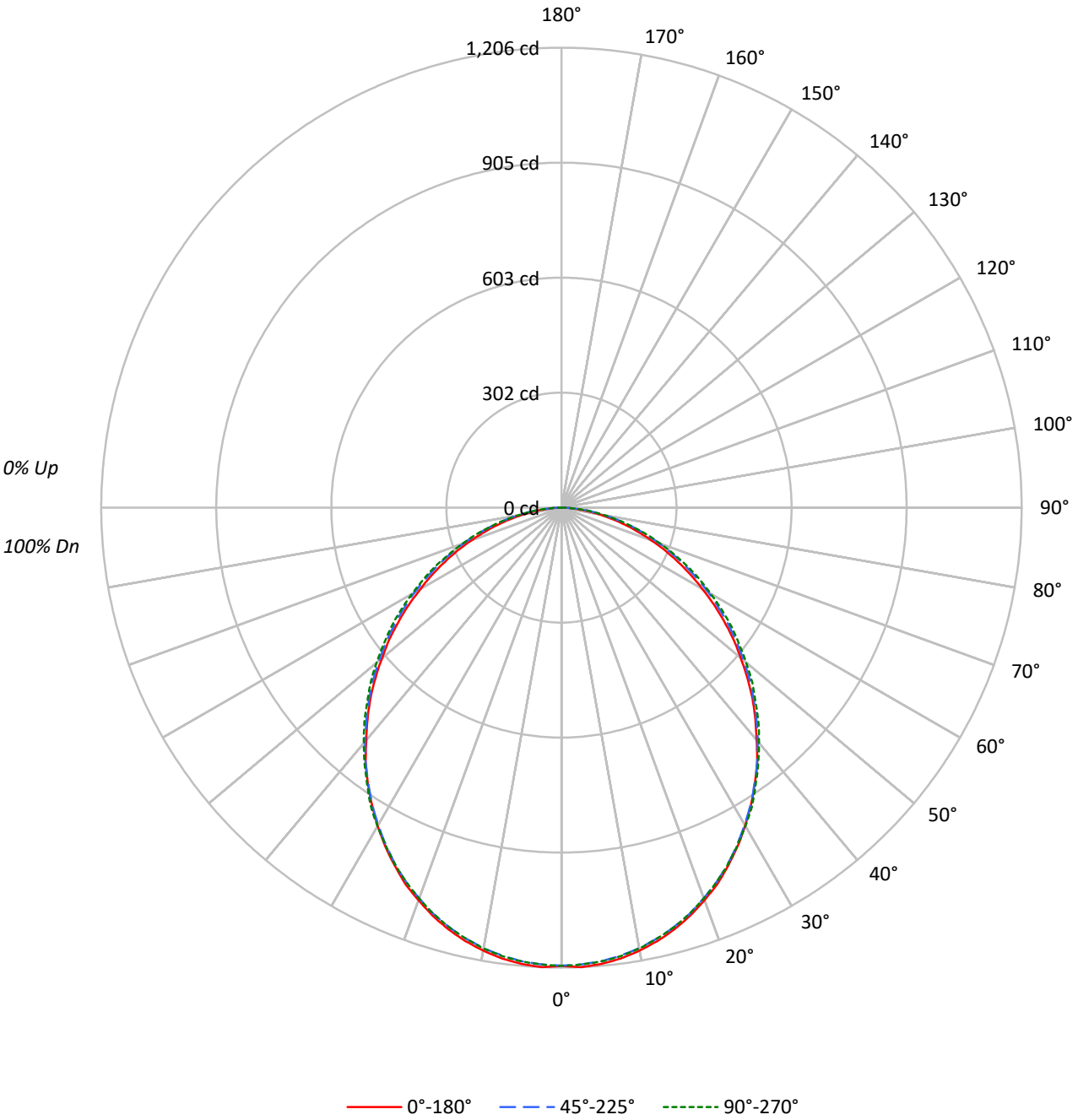
Scaled Data Report

TEST NUMBER: P1216389
CATALOG NUMBER: 24-ID2-35-DBR-L930-U

Luminous Intensity Polar Plot



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TEST NUMBER: P1216389
CATALOG NUMBER: 24-ID2-35-DBR-L930-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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1616	1616	1616
5°	1622	1613	1613
10°	1611	1602	1604
15°	1594	1586	1587
20°	1569	1561	1561
25°	1536	1531	1532
30°	1496	1492	1498
35°	1452	1450	1457
40°	1397	1406	1415
45°	1347	1357	1368
50°	1284	1304	1323
55°	1221	1251	1275
60°	1147	1196	1216
65°	1073	1129	1161
70°	987	1066	1085
75°	891	992	1001
80°	756	885	895
85°	579	730	750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 1368 cd/sqm

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Scaled Data Report

TEST NUMBER: P1216389
CATALOG NUMBER: 24-ID2-35-DBR-L930-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.7
10°-20°	321.1	10.4
20°-30°	474.9	15.4
30°-40°	552.8	17.9
40°-50°	550.0	17.8
50°-60°	475.9	15.4
60°-70°	350.0	11.3
70°-80°	197.7	6.4
80°-90°	53.6	1.7
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°	909.4	29.4
0°-40°	1462.1	47.3
0°-60°	2488.0	80.5
0°-90°	3089.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3089.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1201	1197	1194	1192	1194	114
15°	1145	1141	1139	1136	1139	323
25°	1035	1032	1031	1030	1032	476
35°	884	882	882	886	887	552
45°	708	708	713	719	719	545
55°	521	523	533	540	544	466
65°	337	344	354	361	365	335
75°	171	181	191	192	193	182
85°	38	44	47	48	49	45
90°	0	0	0	0	0	

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TEST NUMBER: P1216389
CATALOG NUMBER: 24-ID2-35-DBR-L930-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1201.3*	1201.3	1201.3	1201.3	1201.3
2.5°	*1206.0*	*1201.3*	*1198.7*	*1197.4*	*1199.1*
5°	*1200.8*	1196.6	1194.0	1192.3	1194.5
7.5°	*1192.3*	1187.6	1185.1	1183.4	1186.4
10°	*1179.5*	1174.8	1172.7	1171.4	1174.0
12.5°	*1163.8*	1159.9	1157.4	1155.7	1157.4
15°	*1144.6*	1141.2	1138.6	1136.5	1139.1
17.5°	*1122.0*	1117.7	1116.9	1114.3	1116.5
20°	*1095.6*	1092.2	1090.0	1088.8	1090.5
22.5°	*1068.3*	1063.6	1062.4	1061.1	1062.8
25°	*1034.7*	1031.7	1031.2	1030.0	1032.1
27.5°	*1000.6*	998.9	996.7	997.6	998.0
30°	*963.1*	960.9	960.1	961.8	964.3
32.5°	*924.3*	922.6	923.0	924.7	929.4
35°	*883.8*	882.1	882.5	886.4	887.2
37.5°	*842.5*	839.5	842.5	845.0	847.2
40°	*795.6*	796.0	800.3	803.7	805.8
42.5°	*752.1*	752.1	756.4	761.5	764.1
45°	*707.8*	707.8	712.9	718.9	718.9
47.5°	*660.9*	660.1	669.5	675.8	678.0
50°	*613.2*	614.9	623.0	629.4	632.0
52.5°	*568.5*	569.3	578.3	585.1	586.4
55°	*520.7*	523.3	533.1	540.3	543.7
57.5°	*473.9*	478.1	487.9	496.9	497.7
60°	*426.1*	433.0	444.5	449.1	451.7
62.5°	*382.7*	389.5	398.9	406.5	408.2
65°	*337.1*	343.9	354.5	361.4	364.8
67.5°	*294.5*	302.6	313.2	318.3	318.3
70°	*251.0*	259.9	271.0	275.3	275.7
72.5°	*210.1*	220.3	230.1	233.5	234.4
75°	*171.3*	180.7	190.9	192.2	192.6
77.5°	*133.4*	143.2	150.9	153.4	152.1
80°	*97.6*	107.4	114.2	115.9	115.5
82.5°	*66.5*	74.6	81.0	81.0	81.0
85°	*37.5*	44.3	47.3	48.2	48.6
87.5°	*12.4*	17.5	20.0	20.0	20.0
90°	*0.0*	0.0	0.0	0.0	0.0

TEST NUMBER: P1216389
CATALOG NUMBER: 24-ID2-35-DBR-L930-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	12.59	14.20	12.95	14.51	14.83	12.87	14.48	13.24	14.79	15.11
	3H	14.24	15.70	14.62	16.02	16.38	14.60	16.06	14.98	16.38	16.74
	4H	14.84	16.21	15.24	16.55	16.93	15.25	16.62	15.65	16.97	17.35
	6H	15.25	16.52	15.66	16.88	17.28	15.73	16.99	16.14	17.36	17.75
	8H	15.37	16.58	15.80	16.97	17.37	15.88	17.09	16.31	17.48	17.88
	12H	15.44	16.60	15.87	16.98	17.41	15.98	17.14	16.41	17.52	17.95
4H	2H	13.22	14.59	13.62	14.94	15.32	13.45	14.81	13.85	15.16	15.54
	3H	15.11	16.25	15.52	16.65	17.05	15.41	16.56	15.82	16.95	17.35
	4H	15.83	16.87	16.27	17.28	17.72	16.19	17.23	16.63	17.64	18.08
	6H	16.37	17.28	16.83	17.72	18.17	16.80	17.70	17.25	18.14	18.60
	8H	16.54	17.38	17.00	17.82	18.29	17.00	17.85	17.46	18.29	18.75
	12H	16.64	17.40	17.12	17.88	18.35	17.14	17.90	17.62	18.38	18.85
8H	4H	16.16	17.01	16.63	17.45	17.92	16.48	17.33	16.94	17.77	18.24
	6H	16.83	17.53	17.32	18.02	18.49	17.21	17.91	17.70	18.40	18.88
	8H	17.06	17.69	17.57	18.20	18.69	17.48	18.11	17.99	18.62	19.11
	12H	17.24	17.79	17.74	18.28	18.84	17.70	18.25	18.20	18.75	19.31
12H	4H	16.20	16.96	16.68	17.44	17.91	16.51	17.27	16.99	17.74	18.21
	6H	16.89	17.52	17.40	18.03	18.52	17.26	17.89	17.77	18.40	18.88
	8H	17.19	17.74	17.69	18.23	18.79	17.59	18.15	18.10	18.64	19.20

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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: SP1-2506-458-9

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

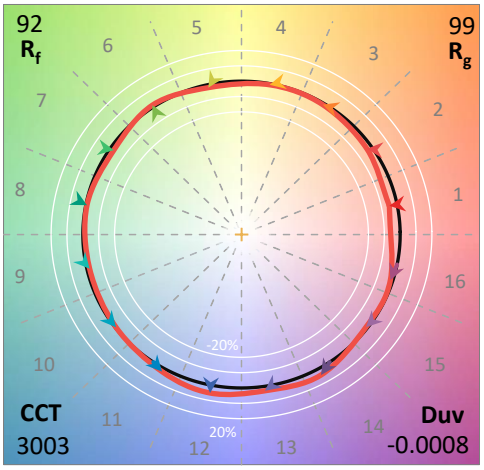
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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	CRI (Ra):	93.2		
CIE u':	0.2507	R1:	93.7	R9:	59.0
CIE v':	0.5202	R2:	97.2	R10:	92.7
Duv:	-0.0008	R3:	98.7	R11:	94.9
CIE x:	0.4356	R4:	93.5	R12:	82.6
CIE y:	0.4017	R5:	93.6	R13:	94.8
CIE z:	0.1627	R6:	96.3	R14:	99.1
Peak Wavelength (nm):	618	R7:	91.5	R15:	89.5
Dominant Wavelength (nm):	583	R8:	81.5		
Purity:	51.31044				
Rf:	91.9				
Rg:	99.2				



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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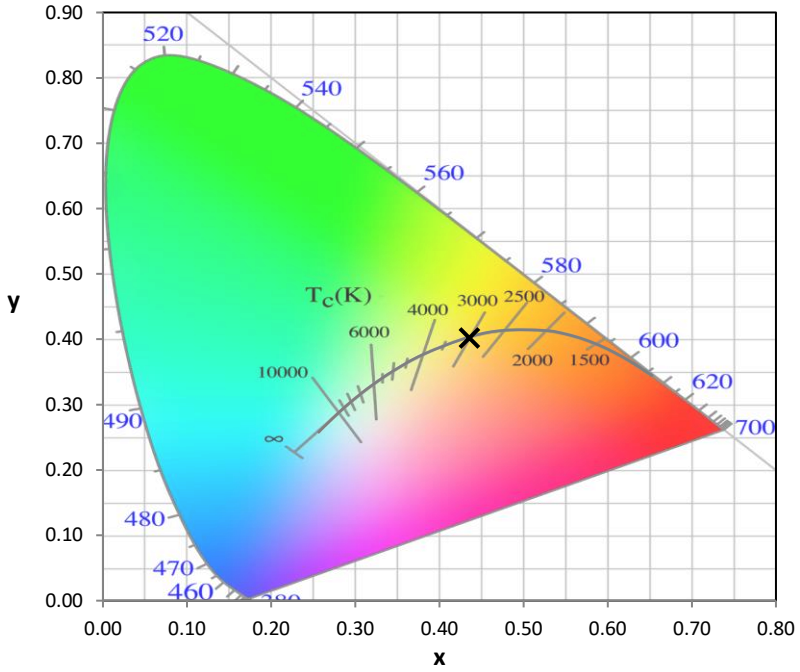
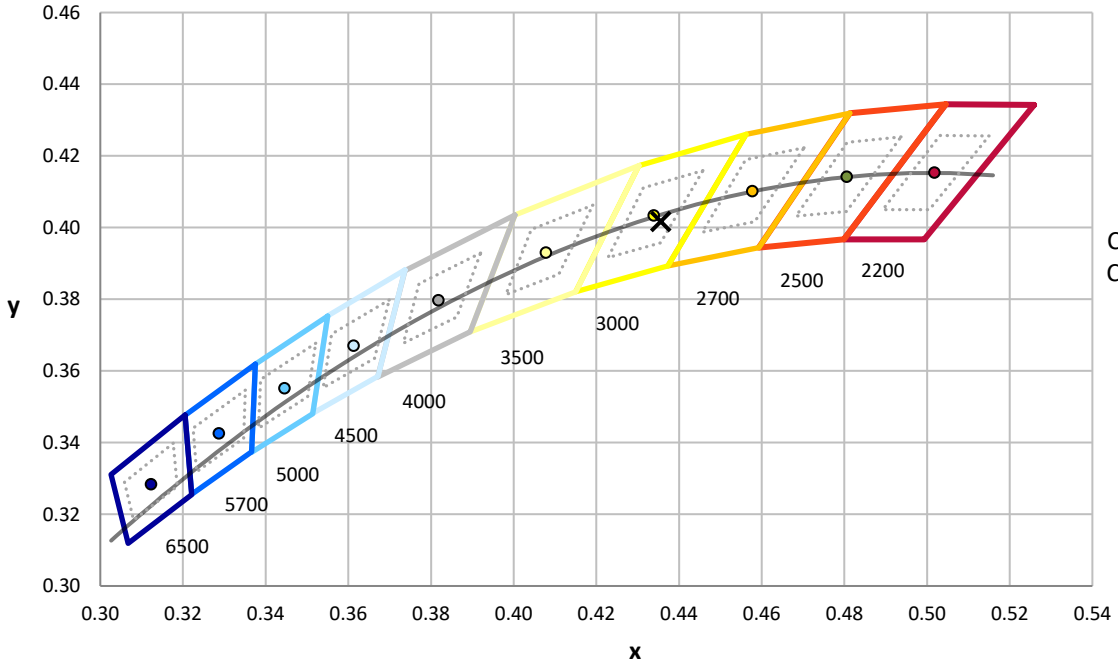
CIE 1931 Chromaticity Diagram



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

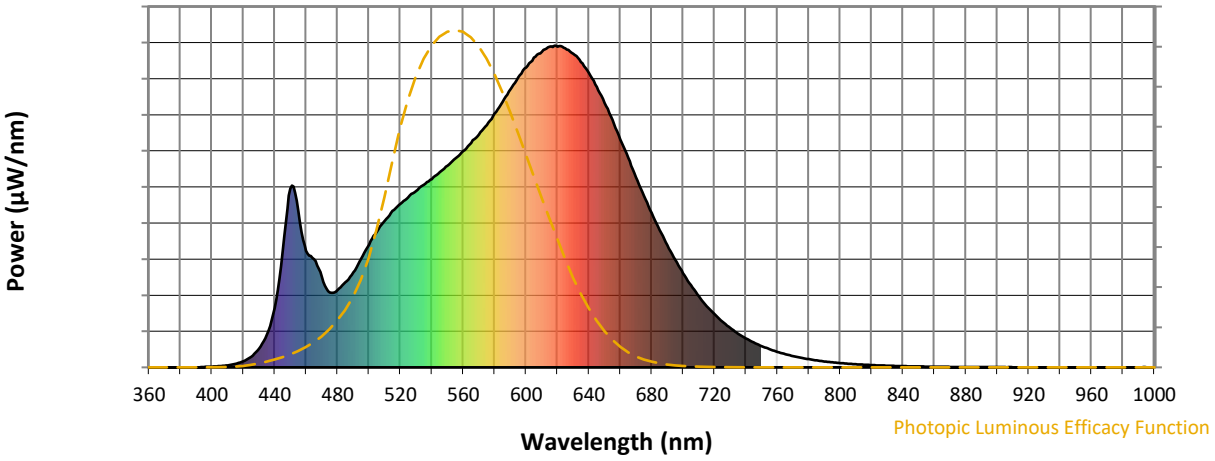


CCT = 3003K
CIE x = 0.4356
CIE y = 0.4017
Duv = -0.0008

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-458-9

Photopic Flux vs. Wavelength

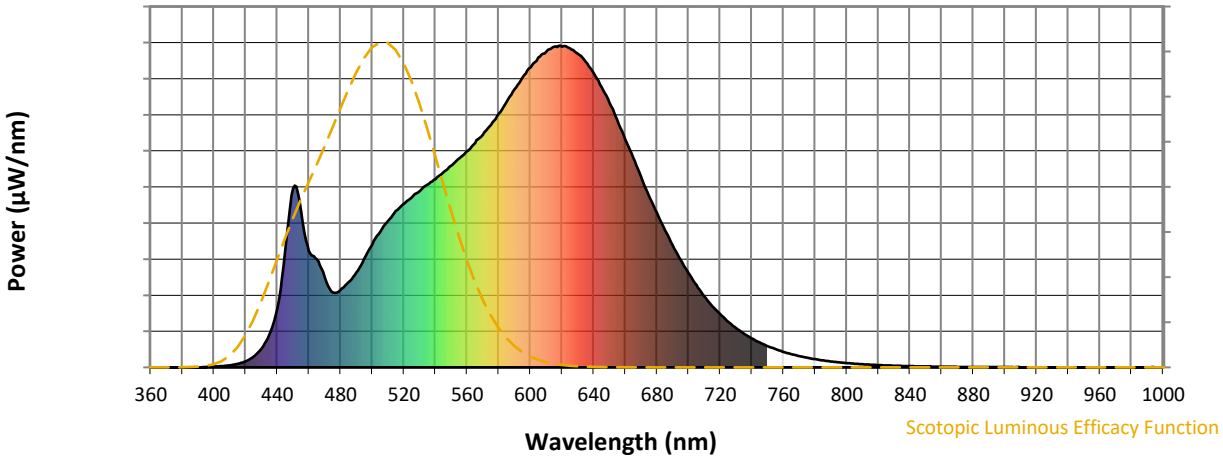


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2506-458-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.43**

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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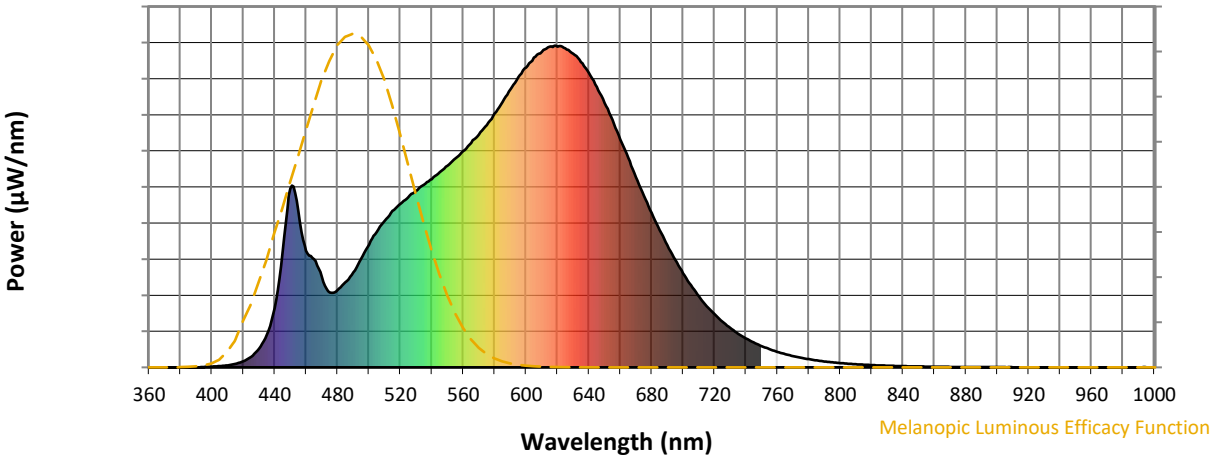
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.82**

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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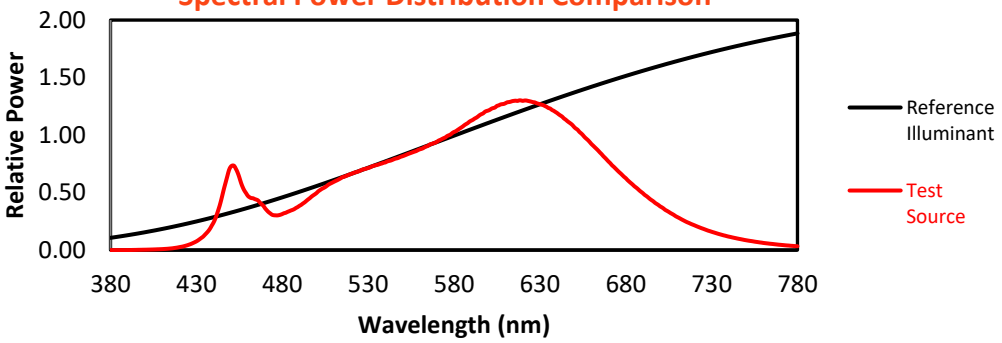
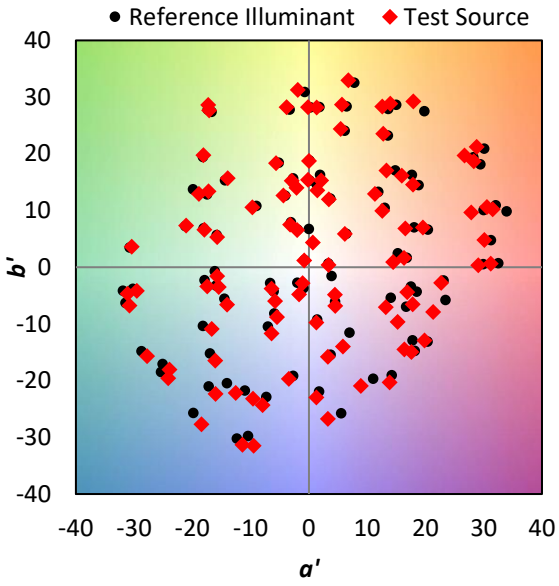
Summary

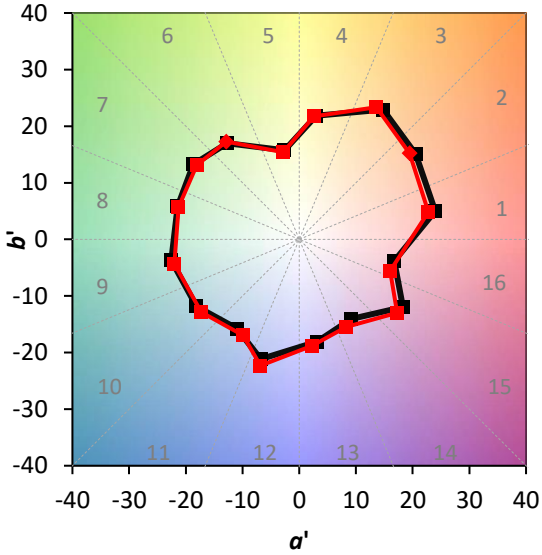
R_f = 91.9
R_g = 99.2
CIE R_a = 93.2
R_9 = 59.0

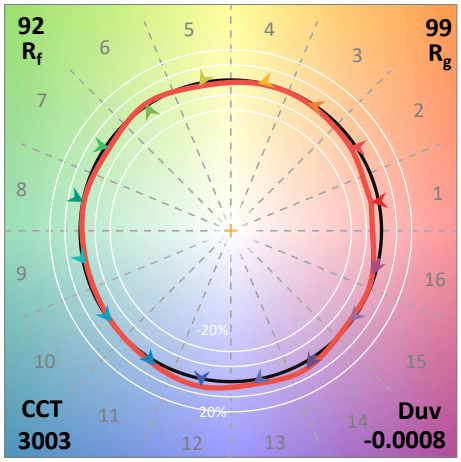
Spectral Power Distribution Comparison

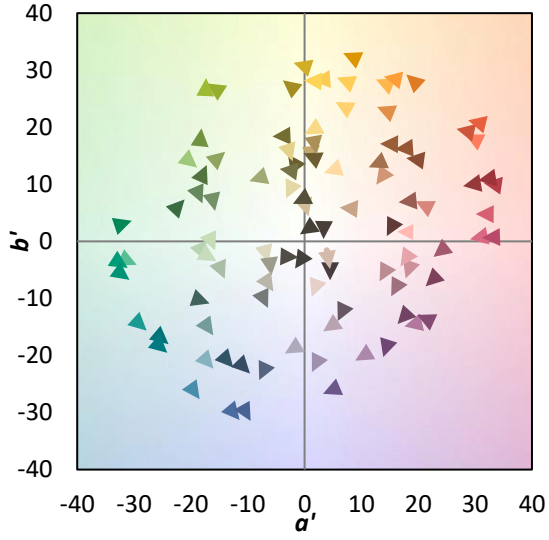


Color Vector Graphics









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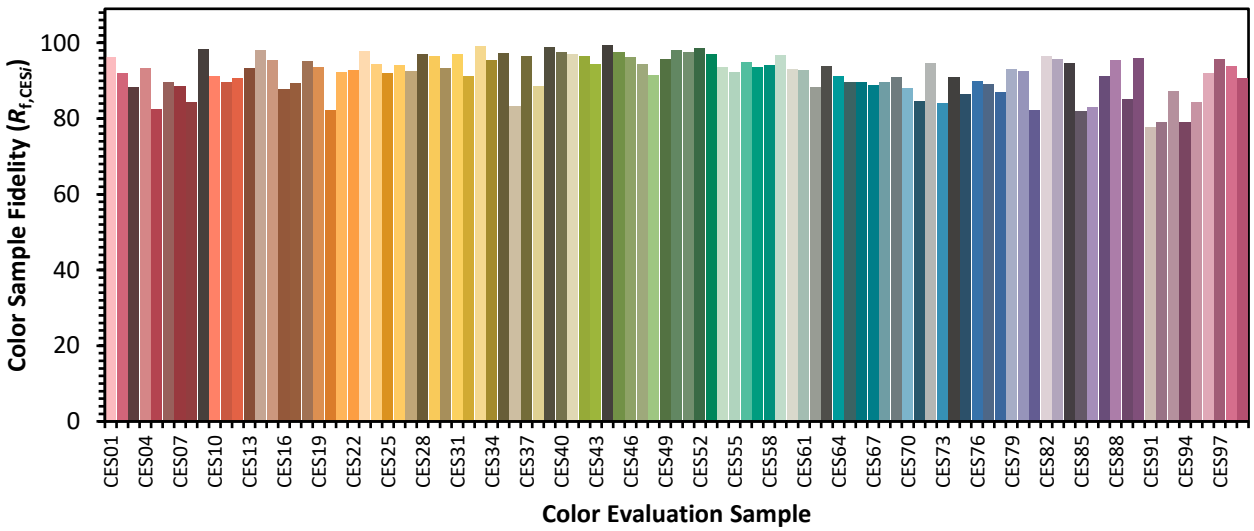
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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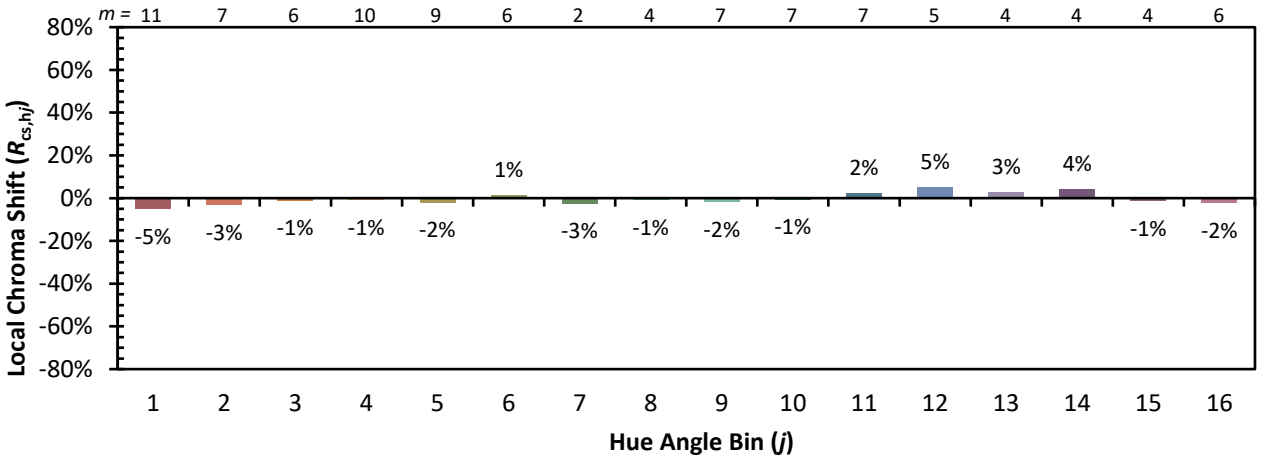
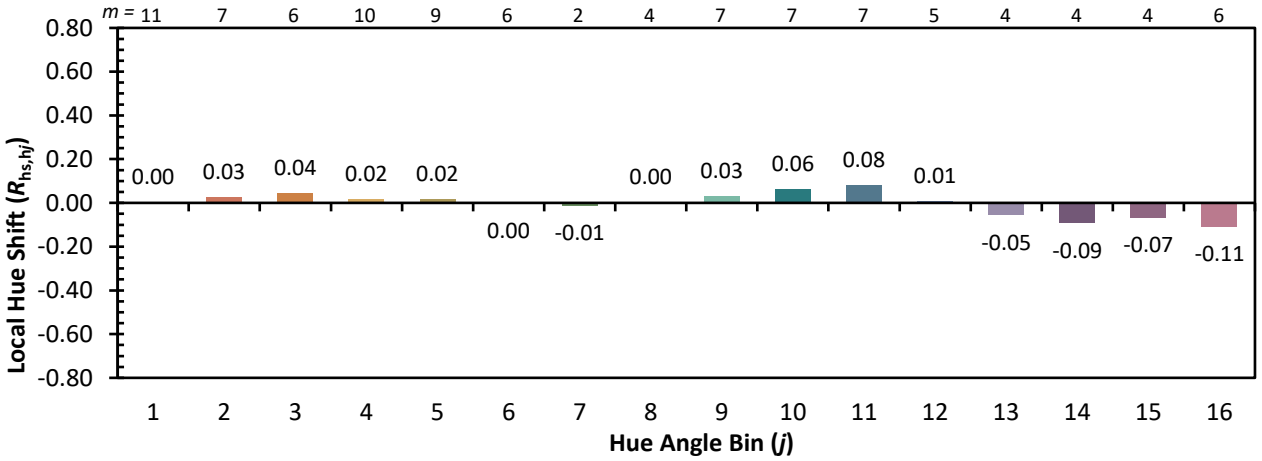
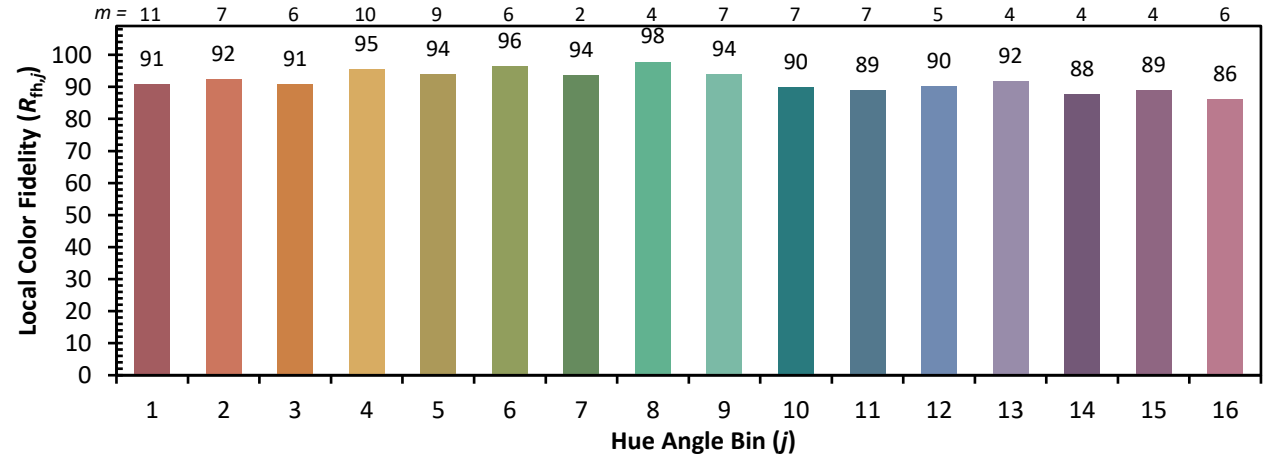
Color Rendition by Hue-Angle Bin







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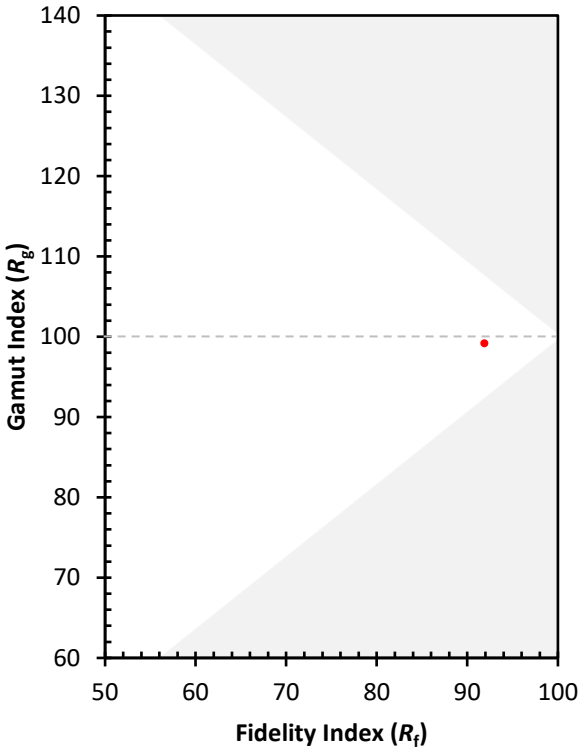
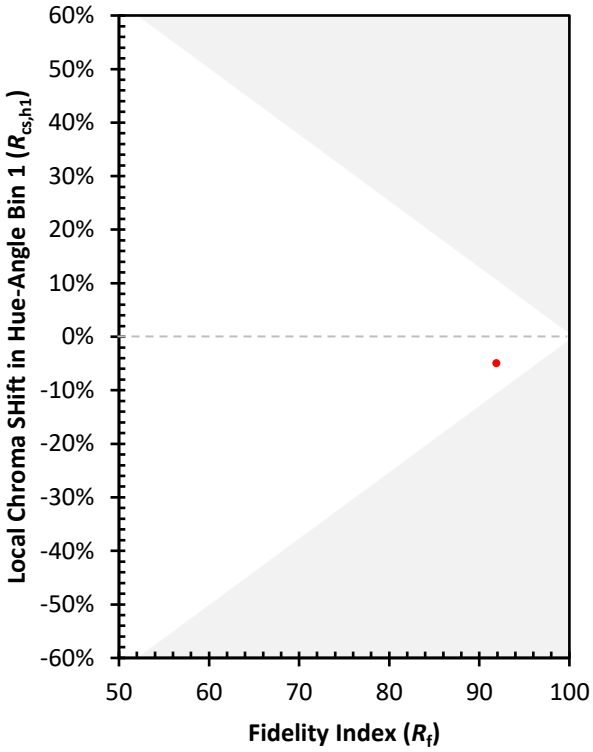
Measure Comparisons





(END OF REPORT)