Signify Classified - Internal

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: METALUX

Report Number: P1590641

Luminaire Tested: 14CGTX-42-B40-HCD

Issue Date: 9/4/2026

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:	P1590641
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-27)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/4/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	14CGTX-42-B40-HCD
Description:	1X4 4200 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 4000K CCT WITH FROSTED SMOOTH LENS
Light Source:	4000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3961.0 lumens
Efficiency:	N/A
Efficacy:	96.4 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 1' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	41.1
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

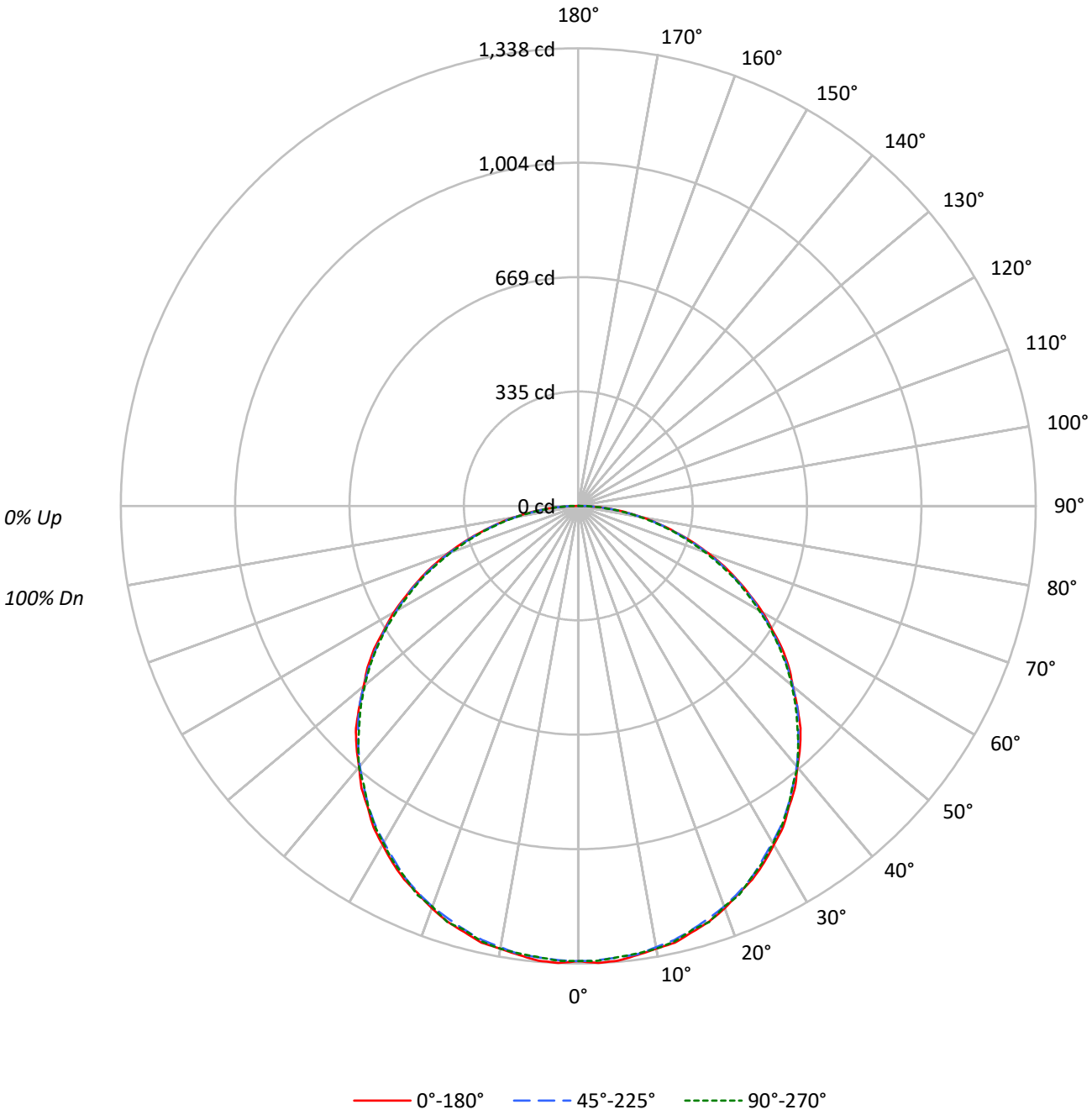


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Scaled Data Report

TEST NUMBER: P1590641
CATALOG NUMBER: 14CGTX-42-B40-HCD

Luminous Intensity Polar Plot



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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	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3582	3582	3582
5°	3605	3580	3578
10°	3592	3580	3592
15°	3593	3575	3577
20°	3586	3571	3571
25°	3578	3561	3559
30°	3556	3529	3540
35°	3529	3515	3519
40°	3502	3491	3504
45°	3499	3463	3447
50°	3428	3425	3410
55°	3417	3373	3360
60°	3352	3309	3286
65°	3275	3247	3219
70°	3182	3147	3091
75°	3038	3009	2963
80°	2904	2847	2791
85°	2637	2569	2523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3499 cd/sqm

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TEST NUMBER: P1590641
CATALOG NUMBER: 14CGTX-42-B40-HCD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	3.2
10°-20°	363.0	9.2
20°-30°	552.3	13.9
30°-40°	669.8	16.9
40°-50°	701.9	17.7
50°-60°	642.9	16.2
60°-70°	503.5	12.7
70°-80°	306.4	7.7
80°-90°	95.1	2.4
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°	1041.5	26.3
0°-40°	1711.3	43.2
0°-60°	3056.1	77.2
0°-90°	3961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1335	1330	1325	1325	1324	127
15°	1290	1287	1283	1285	1284	364
25°	1205	1197	1199	1198	1199	555
35°	1074	1071	1070	1069	1071	674
45°	919	909	910	909	906	706
55°	728	722	719	718	716	648
65°	514	511	510	504	506	509
75°	292	292	289	286	285	311
85°	85	86	83	82	82	97
90°	0	0	0	0	0	

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TEST NUMBER: P1590641
CATALOG NUMBER: 14CGTX-42-B40-HCD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1331.0*	1331.0	1331.0	1331.0	1331.0
2.5°	*1337.5*	*1333.9*	*1329.6*	*1327.4*	*1331.0*
5°	*1334.6*	1330.3	1325.2	1325.2	1324.5
7.5°	*1324.5*	1325.2	1322.3	1318.7	1320.2
10°	*1314.4*	1314.4	1310.0	1310.8	1314.4
12.5°	*1307.9*	1301.4	1299.9	1298.5	1304.2
15°	*1289.8*	1286.9	1283.3	1285.4	1284.0
17.5°	*1273.9*	1268.8	1265.2	1265.2	1275.3
20°	*1252.2*	1246.4	1247.1	1243.5	1247.1
22.5°	*1226.1*	1224.0	1224.0	1223.2	1230.5
25°	*1205.1*	1197.2	1199.4	1197.9	1198.6
27.5°	*1176.2*	1170.4	1166.8	1166.8	1171.9
30°	*1144.4*	1139.3	1135.7	1135.0	1139.3
32.5°	*1114.7*	1103.9	1106.0	1105.3	1108.2
35°	*1074.2*	1070.6	1069.9	1069.2	1071.3
37.5°	*1040.9*	1033.7	1031.5	1030.8	1029.4
40°	*996.8*	995.4	993.9	991.0	997.5
42.5°	*959.9*	954.1	952.0	952.7	952.0
45°	*919.4*	909.3	910.0	909.3	905.7
47.5°	*868.1*	865.2	868.1	862.3	861.5
50°	*818.9*	818.9	818.1	814.5	814.5
52.5°	*776.9*	770.4	770.4	766.1	767.5
55°	*728.4*	721.9	719.0	717.6	716.1
57.5°	*672.0*	669.1	667.7	665.5	664.8
60°	*622.8*	619.2	614.9	613.4	610.5
62.5°	*567.1*	565.7	563.5	561.3	557.0
65°	*514.3*	510.7	510.0	504.2	505.6
67.5°	*461.5*	457.9	455.0	452.1	448.5
70°	*404.4*	401.5	400.0	395.7	392.8
72.5°	*350.8*	347.9	345.1	340.0	337.1
75°	*292.2*	291.5	289.4	285.7	285.0
77.5°	*241.6*	239.4	237.3	234.4	231.5
80°	*187.4*	186.6	183.7	182.3	180.1
82.5°	*137.4*	135.3	132.4	130.9	129.5
85°	*85.4*	86.1	83.2	82.5	81.7
87.5°	*39.8*	39.8	41.2	42.0	39.8
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1590641
CATALOG NUMBER: 14CGTX-42-B40-HCD

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	16.43	18.09	16.79	18.40	18.72	16.38	18.04	16.74	18.36	18.67
	3H	18.38	19.89	18.76	20.21	20.57	18.29	19.80	18.67	20.12	20.48
	4H	19.14	20.57	19.54	20.91	21.29	19.03	20.45	19.43	20.80	21.18
	6H	19.75	21.07	20.16	21.43	21.83	19.61	20.94	20.02	21.30	21.69
	8H	19.96	21.23	20.39	21.62	22.01	19.82	21.08	20.24	21.47	21.87
	12H	20.12	21.33	20.55	21.71	22.14	19.96	21.17	20.39	21.55	21.98
4H	2H	17.10	18.52	17.49	18.87	19.24	17.06	18.48	17.46	18.83	19.21
	3H	19.27	20.47	19.68	20.87	21.27	19.20	20.39	19.60	20.79	21.19
	4H	20.17	21.26	20.60	21.67	22.11	20.07	21.16	20.50	21.57	22.01
	6H	20.92	21.87	21.37	22.31	22.77	20.80	21.75	21.25	22.19	22.64
	8H	21.19	22.09	21.65	22.53	22.99	21.05	21.95	21.51	22.39	22.85
	12H	21.40	22.20	21.88	22.68	23.15	21.25	22.05	21.73	22.53	22.99
8H	4H	20.53	21.42	20.99	21.86	22.32	20.44	21.33	20.90	21.77	22.24
	6H	21.41	22.16	21.91	22.65	23.12	21.30	22.05	21.79	22.53	23.01
	8H	21.77	22.44	22.28	22.95	23.43	21.64	22.31	22.15	22.82	23.30
	12H	22.07	22.66	22.57	23.15	23.71	21.92	22.52	22.43	23.01	23.57
12H	4H	20.57	21.38	21.05	21.85	22.32	20.49	21.29	20.97	21.77	22.24
	6H	21.49	22.16	22.00	22.66	23.15	21.38	22.05	21.89	22.56	23.04
	8H	21.91	22.51	22.42	23.00	23.55	21.79	22.38	22.29	22.87	23.43

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2510-581-3-R2

Test Date: 01/21/2026

Luminaire Tested: 24CGTX-55-B40-HCD

Data in this report applies to families of products including 24CGTX-55HE

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

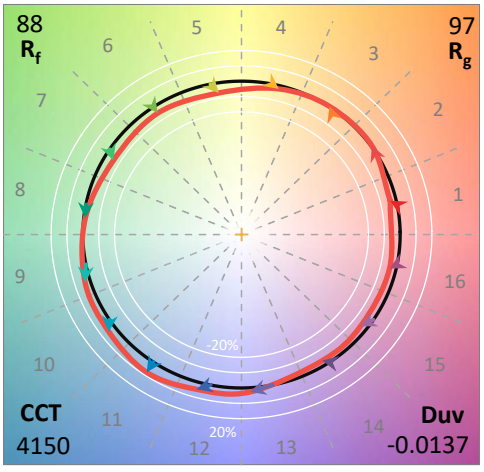
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-581-3-R2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	07/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**24CGTX-55-B40-HCD**
Description:	*THIS IS A REVISION OF REPORT SP1-2510-581-3-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 CGTX 5500 lumen with BioUp Boards with fixed CCT 4000K - Control Volatge at 4V

Spectral Parameters

CCT (K):	4150
CIE u':	0.2306
CIE v':	0.4822
Duv:	-0.0137
CIE x:	0.3662
CIE y:	0.3403
CIE z:	0.2935
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	595
Purity:	11.98102
Rf:	88
Rg:	97.3

CRI (Ra):	87.7
R1:	92.1
R2:	87.5
R3:	86.1
R4:	91.4
R5:	90.5
R6:	81.3
R7:	84.9
R8:	87.7
R9:	87.2
R10:	76.5
R11:	92.8
R12:	70.9
R13:	90.1
R14:	93.9
R15:	92.9



Test Conditions

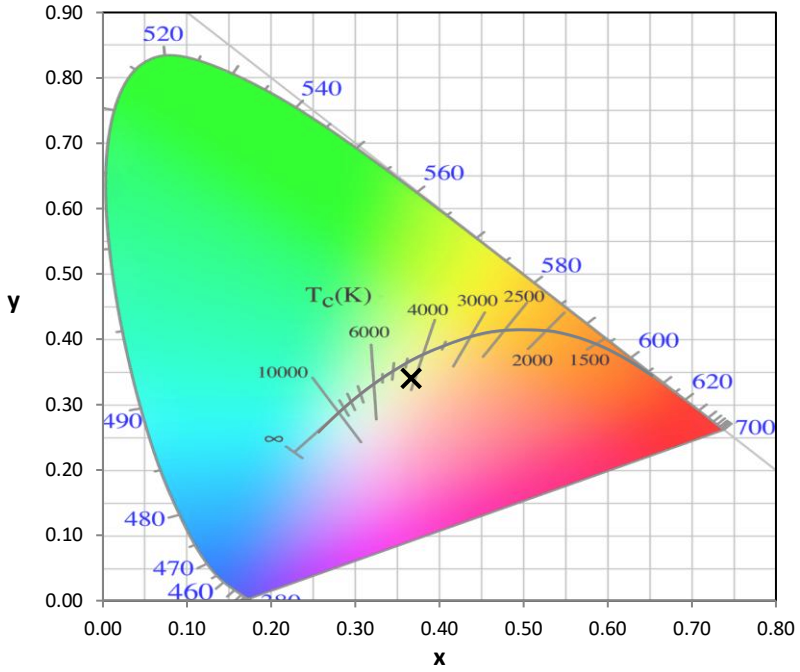
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2510-581-3-R2

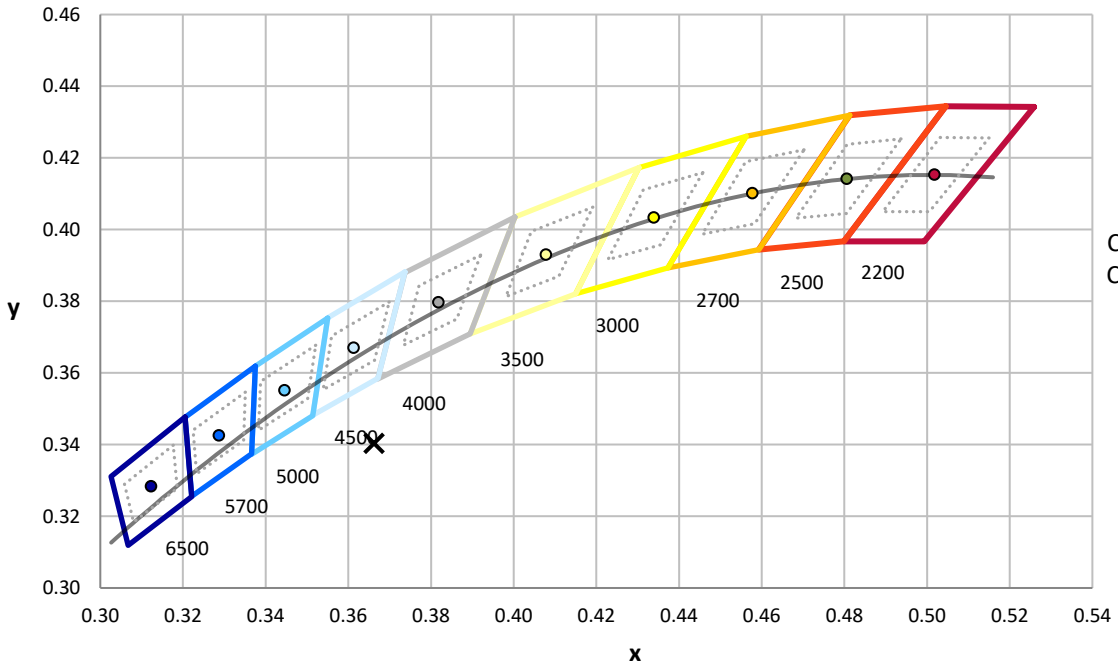
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2510-581-3-R2

CIE 1931 Chromaticity Diagram



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

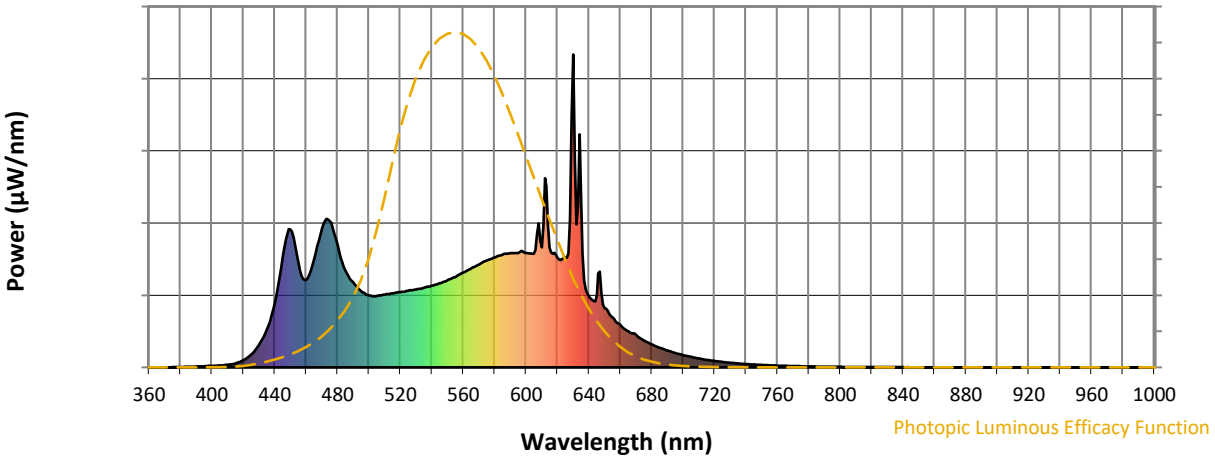


CCT = 4150K
CIE x = 0.3662
CIE y = 0.3403
Duv = -0.0137

Point lies outside the range

REPORT NUMBER: SP1-2510-581-3-R2

Photopic Flux vs. Wavelength

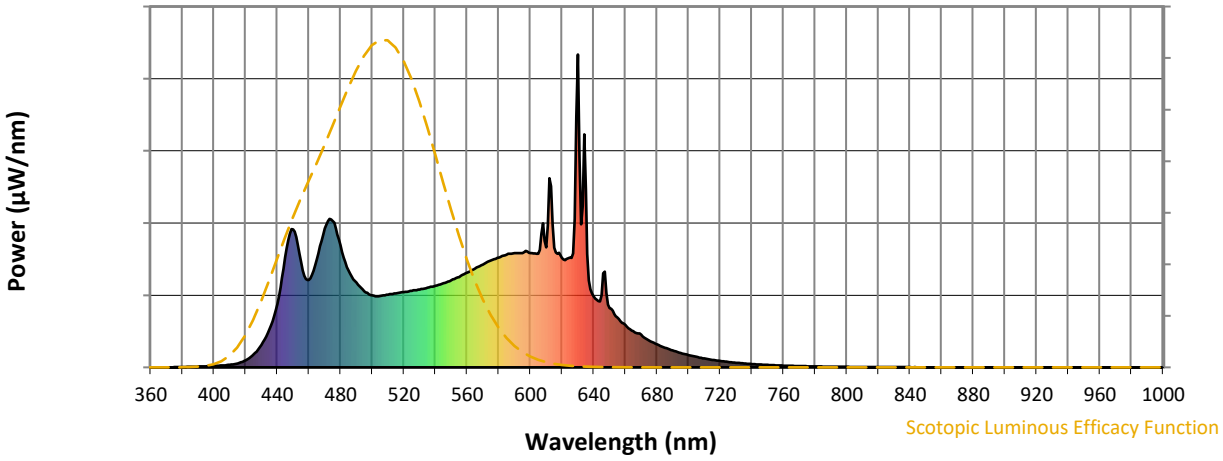


Photopic Lumens: NR

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	271	NR	620	350	NR	750	8	NR	880	0	NR
365	0	NR	495	243	NR	625	351	NR	755	7	NR	885	0	NR
370	0	NR	500	230	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	228	NR	635	567	NR	765	5	NR	895	0	NR
380	1	NR	510	233	NR	640	228	NR	770	4	NR	900	0	NR
385	2	NR	515	236	NR	645	230	NR	775	3	NR	905	0	NR
390	3	NR	520	241	NR	650	189	NR	780	3	NR	910	0	NR
395	4	NR	525	244	NR	655	160	NR	785	3	NR	915	0	NR
400	5	NR	530	248	NR	660	136	NR	790	2	NR	920	0	NR
405	6	NR	535	255	NR	665	115	NR	795	2	NR	925	0	NR
410	8	NR	540	260	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	269	NR	675	86	NR	805	1	NR	935	0	NR
420	23	NR	550	278	NR	680	74	NR	810	1	NR	940	0	NR
425	41	NR	555	289	NR	685	63	NR	815	1	NR	945	0	NR
430	71	NR	560	303	NR	690	54	NR	820	1	NR	950	0	NR
435	122	NR	565	316	NR	695	46	NR	825	1	NR	955	0	NR
440	203	NR	570	329	NR	700	39	NR	830	1	NR	960	0	NR
445	351	NR	575	341	NR	705	33	NR	835	1	NR	965	0	NR
450	441	NR	580	351	NR	710	28	NR	840	1	NR	970	0	NR
455	336	NR	585	360	NR	715	24	NR	845	1	NR	975	0	NR
460	280	NR	590	365	NR	720	20	NR	850	0	NR	980	0	NR
465	345	NR	595	365	NR	725	17	NR	855	0	NR	985	0	NR
470	444	NR	600	365	NR	730	15	NR	860	0	NR	990	0	NR
475	467	NR	605	364	NR	735	12	NR	865	0	NR	995	0	NR
480	390	NR	610	384	NR	740	11	NR	870	0	NR	1000	0	NR
485	310	NR	615	383	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2510-581-3-R2

Scotopic Flux vs. Wavelength

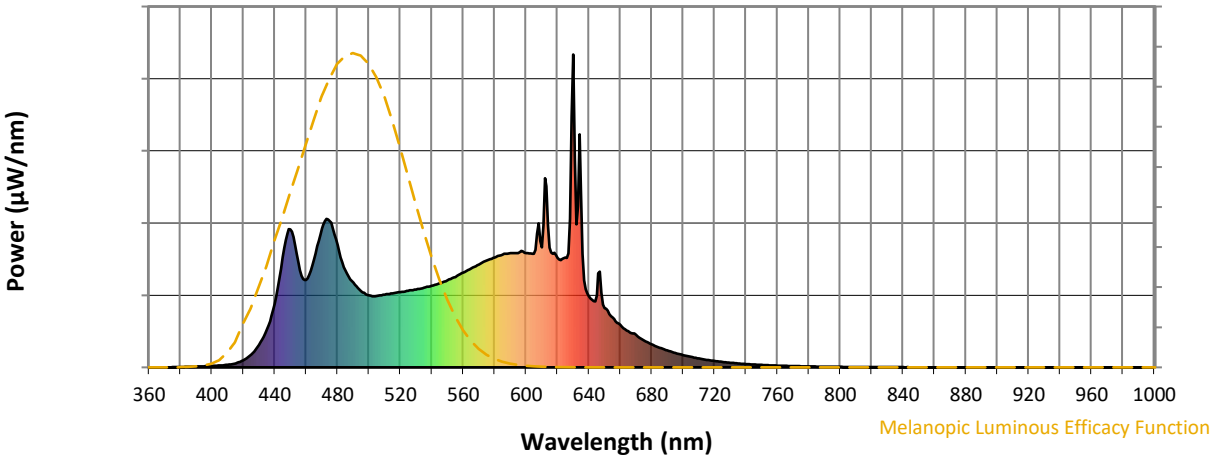


Scotopic Lumens: NR **S/P: 2.05**

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	271	NR	620	350	NR	750	8	NR	880	0	NR
365	0	NR	495	243	NR	625	351	NR	755	7	NR	885	0	NR
370	0	NR	500	230	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	228	NR	635	567	NR	765	5	NR	895	0	NR
380	1	NR	510	233	NR	640	228	NR	770	4	NR	900	0	NR
385	2	NR	515	236	NR	645	230	NR	775	3	NR	905	0	NR
390	3	NR	520	241	NR	650	189	NR	780	3	NR	910	0	NR
395	4	NR	525	244	NR	655	160	NR	785	3	NR	915	0	NR
400	5	NR	530	248	NR	660	136	NR	790	2	NR	920	0	NR
405	6	NR	535	255	NR	665	115	NR	795	2	NR	925	0	NR
410	8	NR	540	260	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	269	NR	675	86	NR	805	1	NR	935	0	NR
420	23	NR	550	278	NR	680	74	NR	810	1	NR	940	0	NR
425	41	NR	555	289	NR	685	63	NR	815	1	NR	945	0	NR
430	71	NR	560	303	NR	690	54	NR	820	1	NR	950	0	NR
435	122	NR	565	316	NR	695	46	NR	825	1	NR	955	0	NR
440	203	NR	570	329	NR	700	39	NR	830	1	NR	960	0	NR
445	351	NR	575	341	NR	705	33	NR	835	1	NR	965	0	NR
450	441	NR	580	351	NR	710	28	NR	840	1	NR	970	0	NR
455	336	NR	585	360	NR	715	24	NR	845	1	NR	975	0	NR
460	280	NR	590	365	NR	720	20	NR	850	0	NR	980	0	NR
465	345	NR	595	365	NR	725	17	NR	855	0	NR	985	0	NR
470	444	NR	600	365	NR	730	15	NR	860	0	NR	990	0	NR
475	467	NR	605	364	NR	735	12	NR	865	0	NR	995	0	NR
480	390	NR	610	384	NR	740	11	NR	870	0	NR	1000	0	NR
485	310	NR	615	383	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.67**

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	271	NR	620	350	NR	750	8	NR	880	0	NR
365	0	NR	495	243	NR	625	351	NR	755	7	NR	885	0	NR
370	0	NR	500	230	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	228	NR	635	567	NR	765	5	NR	895	0	NR
380	1	NR	510	233	NR	640	228	NR	770	4	NR	900	0	NR
385	2	NR	515	236	NR	645	230	NR	775	3	NR	905	0	NR
390	3	NR	520	241	NR	650	189	NR	780	3	NR	910	0	NR
395	4	NR	525	244	NR	655	160	NR	785	3	NR	915	0	NR
400	5	NR	530	248	NR	660	136	NR	790	2	NR	920	0	NR
405	6	NR	535	255	NR	665	115	NR	795	2	NR	925	0	NR
410	8	NR	540	260	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	269	NR	675	86	NR	805	1	NR	935	0	NR
420	23	NR	550	278	NR	680	74	NR	810	1	NR	940	0	NR
425	41	NR	555	289	NR	685	63	NR	815	1	NR	945	0	NR
430	71	NR	560	303	NR	690	54	NR	820	1	NR	950	0	NR
435	122	NR	565	316	NR	695	46	NR	825	1	NR	955	0	NR
440	203	NR	570	329	NR	700	39	NR	830	1	NR	960	0	NR
445	351	NR	575	341	NR	705	33	NR	835	1	NR	965	0	NR
450	441	NR	580	351	NR	710	28	NR	840	1	NR	970	0	NR
455	336	NR	585	360	NR	715	24	NR	845	1	NR	975	0	NR
460	280	NR	590	365	NR	720	20	NR	850	0	NR	980	0	NR
465	345	NR	595	365	NR	725	17	NR	855	0	NR	985	0	NR
470	444	NR	600	365	NR	730	15	NR	860	0	NR	990	0	NR
475	467	NR	605	364	NR	735	12	NR	865	0	NR	995	0	NR
480	390	NR	610	384	NR	740	11	NR	870	0	NR	1000	0	NR
485	310	NR	615	383	NR	745	9	NR	875	0	NR			

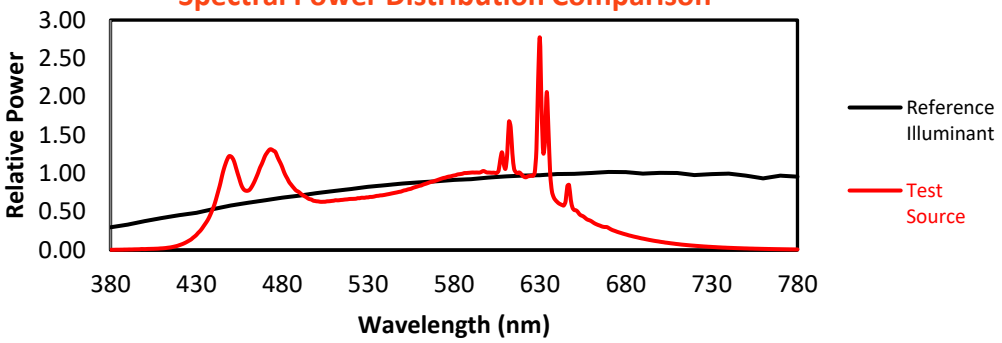
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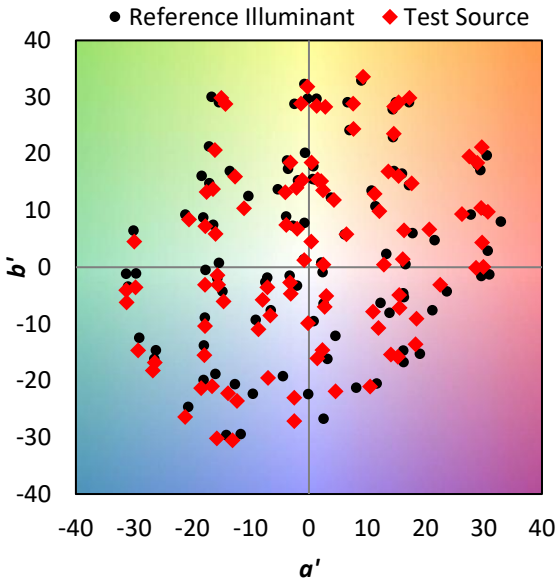
Summary

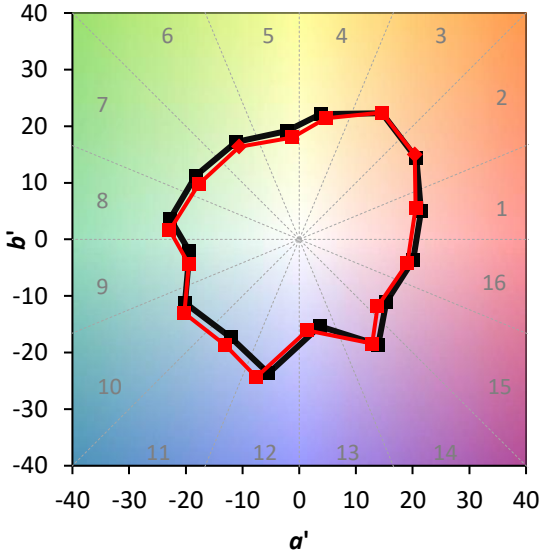
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R_9 = 87.2

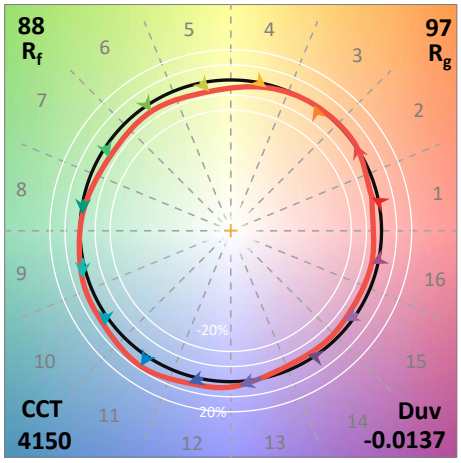
Spectral Power Distribution Comparison

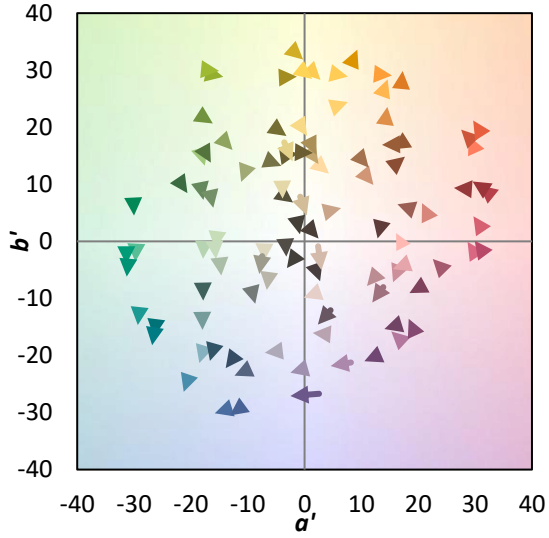


Color Vector Graphics







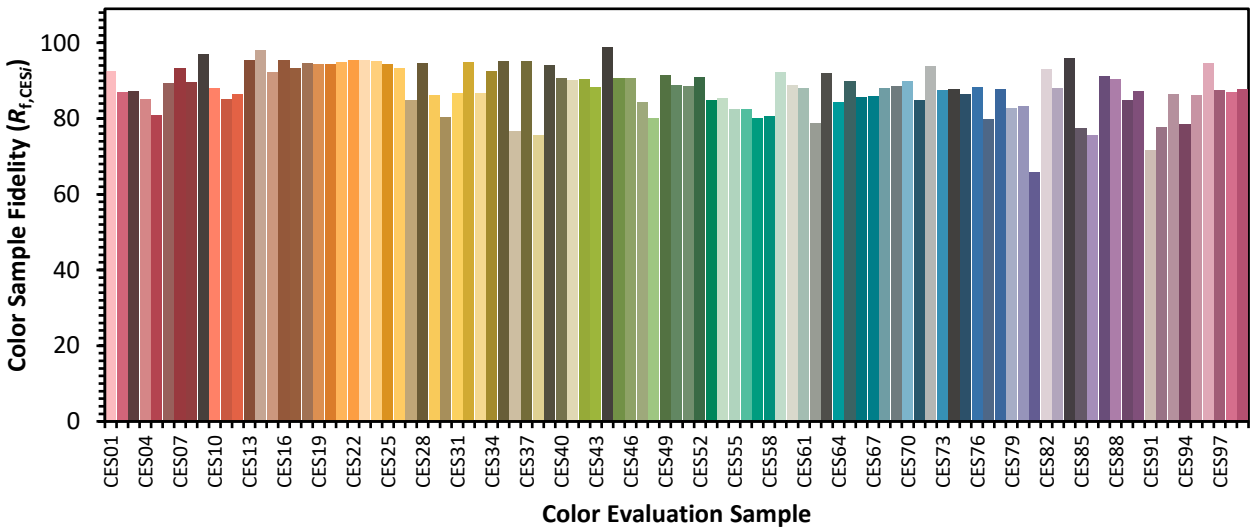


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Individual Sample Fidelity Index ($R_{f,i}$)

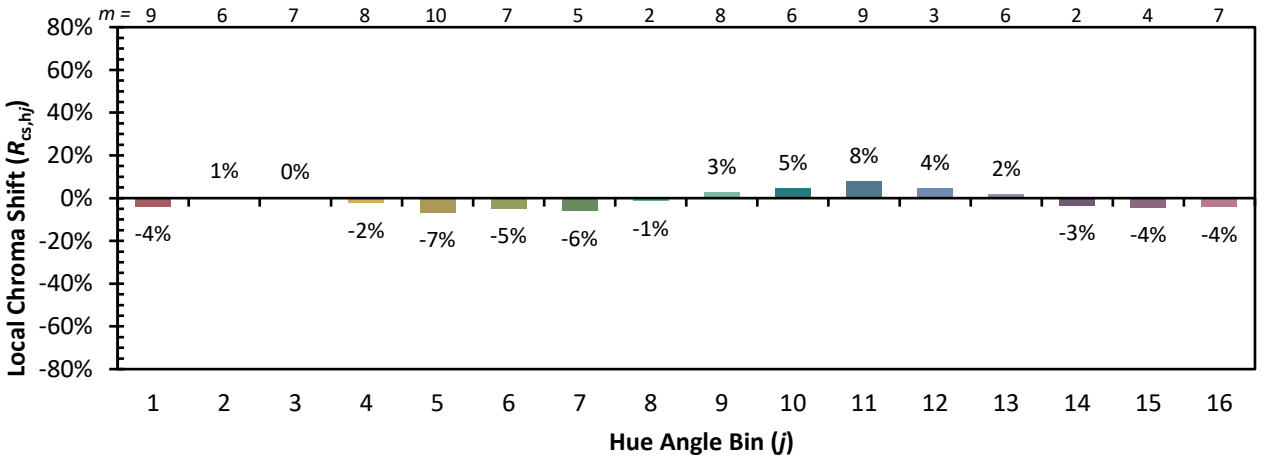
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CES02 = 62	CES27 = 85	CES52 = 91	CES77 = 80
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CES04 = 70	CES29 = 86	CES54 = 85	CES79 = 83
CES05 = 49	CES30 = 80	CES55 = 83	CES80 = 83
CES06 = 51	CES31 = 87	CES56 = 83	CES81 = 66
CES07 = 42	CES32 = 95	CES57 = 80	CES82 = 93
CES08 = 41	CES33 = 87	CES58 = 81	CES83 = 88
CES09 = 29	CES34 = 93	CES59 = 92	CES84 = 96
CES10 = 75	CES35 = 95	CES60 = 89	CES85 = 77
CES11 = 58	CES36 = 77	CES61 = 88	CES86 = 76
CES12 = 64	CES37 = 95	CES62 = 79	CES87 = 91
CES13 = 43	CES38 = 76	CES63 = 92	CES88 = 90
CES14 = 74	CES39 = 94	CES64 = 84	CES89 = 85
CES15 = 71	CES40 = 91	CES65 = 90	CES90 = 87
CES16 = 47	CES41 = 90	CES66 = 86	CES91 = 72
CES17 = 49	CES42 = 90	CES67 = 86	CES92 = 78
CES18 = 56	CES43 = 88	CES68 = 88	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 79
CES20 = 66	CES45 = 91	CES70 = 90	CES95 = 86
CES21 = 85	CES46 = 91	CES71 = 85	CES96 = 95
CES22 = 78	CES47 = 84	CES72 = 94	CES97 = 88
CES23 = 91	CES48 = 80	CES73 = 87	CES98 = 87
CES24 = 90	CES49 = 91	CES74 = 88	CES99 = 88
CES25 = 71	CES50 = 89	CES75 = 87	

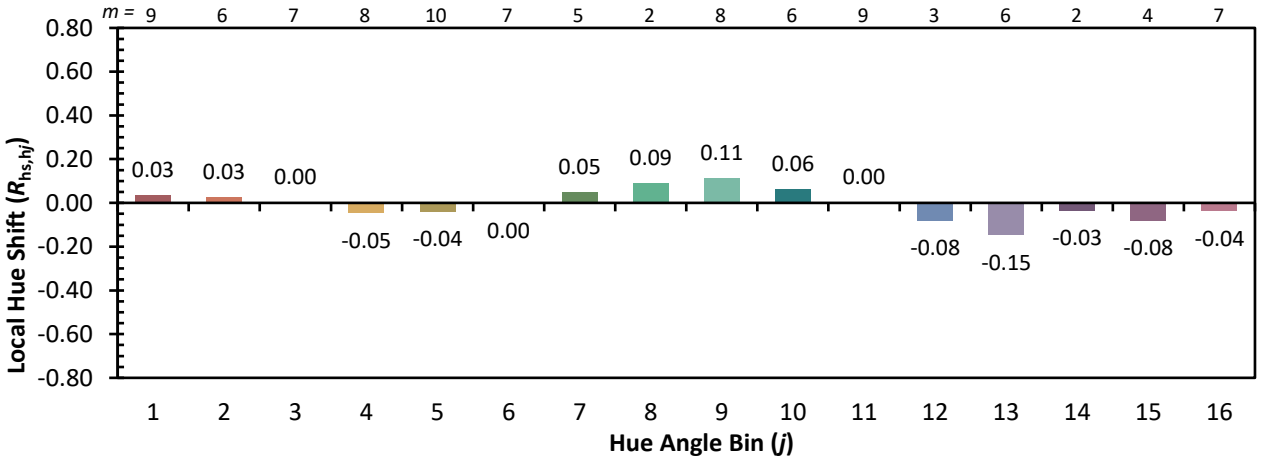


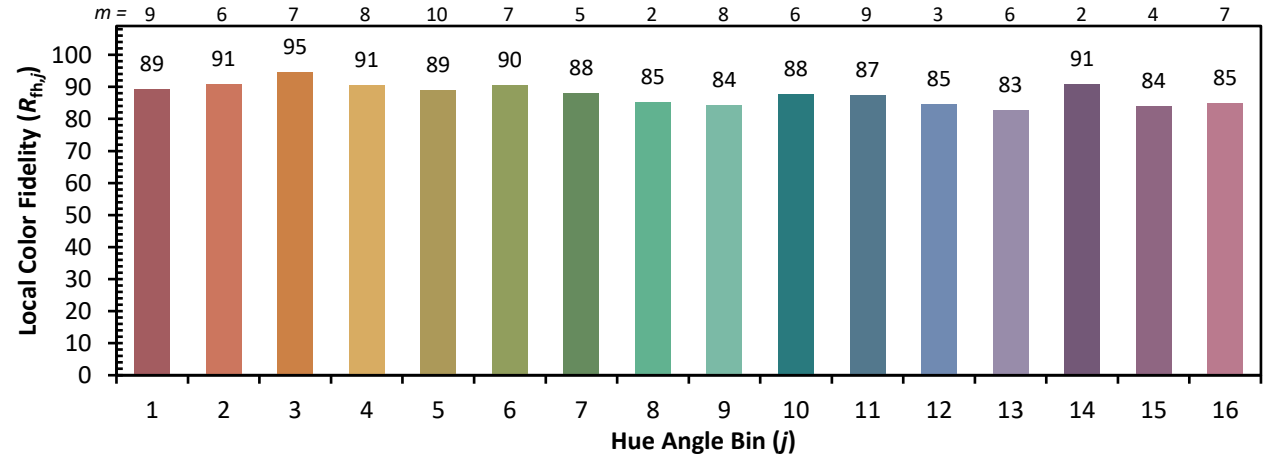
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Color Rendition by Hue-Angle Bin



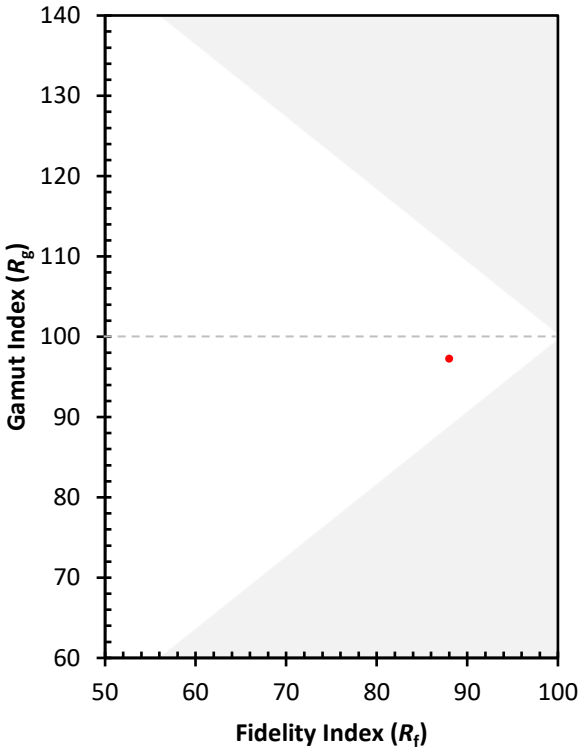


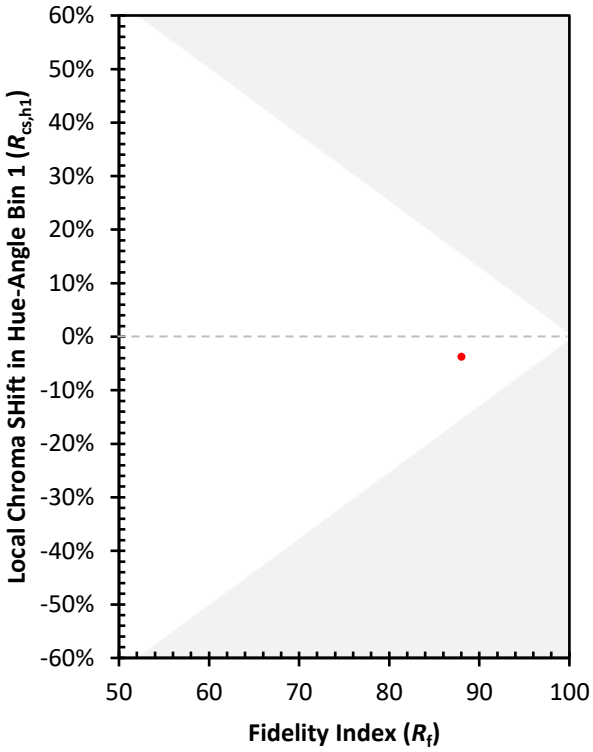


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Measure Comparisons





(END OF REPORT)