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: P1590722

Luminaire Tested: 22CGTX-20-L92765-W2A-3500K

Issue Date: 9/7/2026

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:	P1590722
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-566-13)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-20-L92765-W2A-3500K
Description:	2X2 2000 LUMEN CGTX TROFFER WITH VividTune LEDS AT 3500K CCT WITH FROSTED SMOOTH LENS
Light Source:	3500K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1969.1 lumens
Efficiency:	N/A
Efficacy:	107.0 lumens/watt
Spacing Criteria (0/90/45):	1.25 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	18.4
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

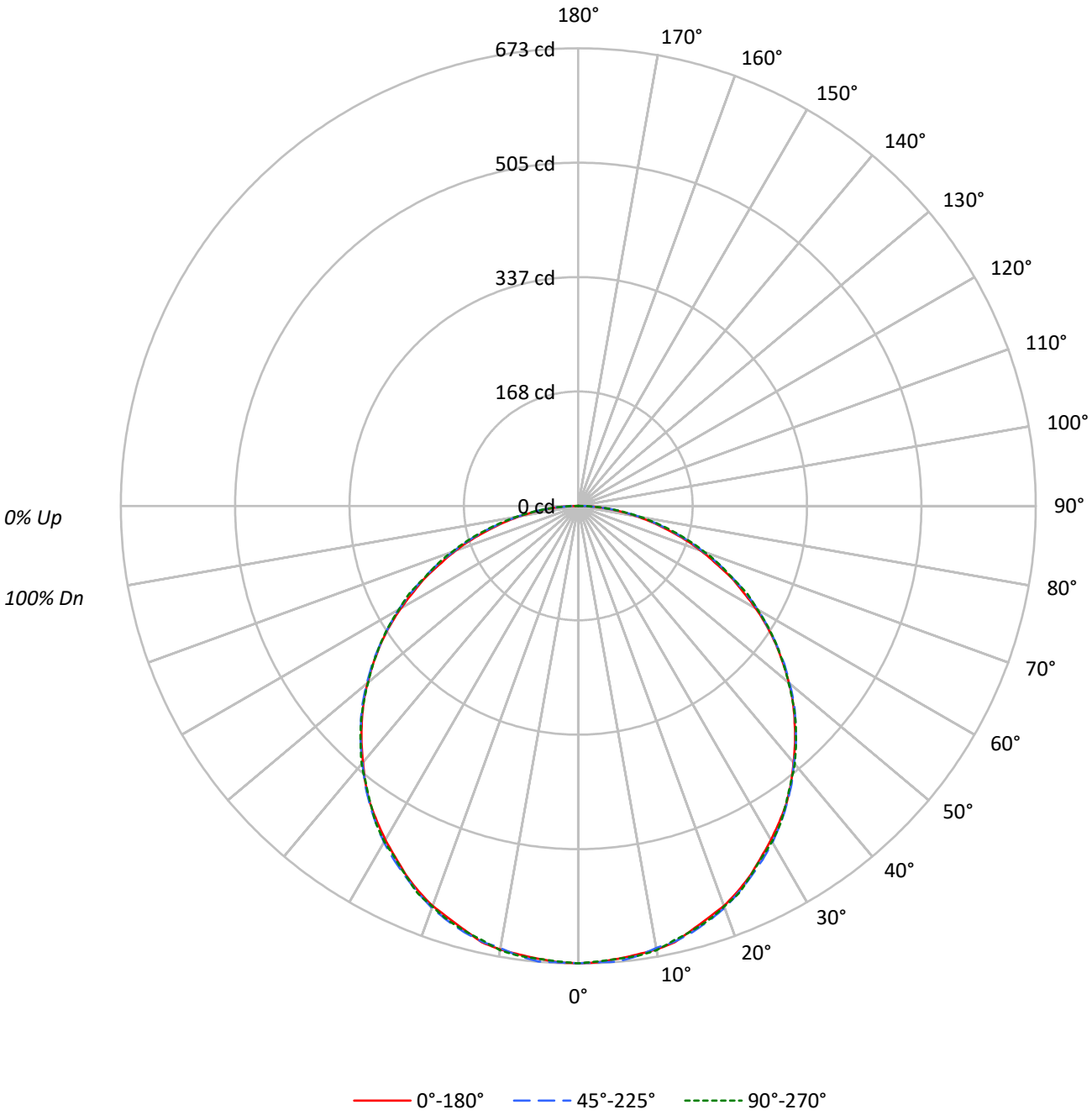


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TEST NUMBER: P1590722
CATALOG NUMBER: 22CGTX-20-L92765-W2A-3500K

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	94	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	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	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	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1810	1810	1810
5°	1806	1817	1806
10°	1810	1804	1813
15°	1799	1808	1802
20°	1793	1802	1796
25°	1779	1785	1782
30°	1762	1775	1772
35°	1754	1758	1751
40°	1730	1734	1741
45°	1713	1721	1721
50°	1694	1698	1690
55°	1666	1670	1670
60°	1621	1643	1638
65°	1575	1594	1588
70°	1507	1531	1555
75°	1420	1474	1496
80°	1331	1395	1427
85°	1183	1278	1309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 1721 cd/sqm

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TEST NUMBER: P1590722
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	3.2
10°-20°	182.8	9.3
20°-30°	277.0	14.1
30°-40°	334.6	17.0
40°-50°	348.8	17.7
50°-60°	318.0	16.1
60°-70°	247.4	12.6
70°-80°	150.1	7.6
80°-90°	46.6	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°	523.6	26.6
0°-40°	858.2	43.6
0°-60°	1525.0	77.4
0°-90°	1969.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	668	671	673	673	668	64
15°	646	648	649	648	647	182
25°	599	600	601	601	600	276
35°	534	535	535	536	533	333
45°	450	452	452	452	452	347
55°	355	355	356	357	356	317
65°	247	249	250	252	249	244
75°	137	142	142	144	144	145
85°	38	41	41	44	42	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*672.7*	*672.7*	*672.7*	*672.7*	*672.7*
2.5°	*671.7*	671.7	671.7	671.7	670.6
5°	*668.5*	670.6	672.7	672.7	668.5
7.5°	*665.4*	667.5	667.5	666.5	667.5
10°	*662.3*	662.3	660.3	660.3	663.4
12.5°	*657.2*	656.1	656.1	656.1	654.1
15°	*645.8*	647.8	648.9	647.8	646.8
17.5°	*635.4*	638.5	639.6	638.5	638.5
20°	*626.1*	629.2	629.2	628.2	627.2
22.5°	*613.7*	614.7	615.8	614.7	616.8
25°	*599.2*	600.2	601.3	601.3	600.2
27.5°	*582.6*	586.8	586.8	587.8	583.7
30°	*567.1*	569.2	571.3	570.2	570.2
32.5°	*550.6*	553.7	553.7	554.7	553.7
35°	*534.0*	535.0	535.0	536.1	533.0
37.5°	*514.3*	515.4	515.4	516.4	513.3
40°	*492.6*	495.7	493.6	496.8	495.7
42.5°	*471.9*	475.0	474.0	477.1	474.0
45°	*450.2*	452.3	452.3	452.3	452.3
47.5°	*428.4*	428.4	430.5	430.5	428.4
50°	*404.6*	405.7	405.7	406.7	403.6
52.5°	*379.8*	380.8	381.9	380.8	379.8
55°	*355.0*	355.0	356.0	357.0	356.0
57.5°	*329.1*	329.1	330.1	331.2	331.2
60°	*301.2*	302.2	305.3	305.3	304.3
62.5°	*273.2*	277.4	277.4	279.4	280.5
65°	*247.3*	249.4	250.4	252.5	249.4
67.5°	*217.3*	220.4	223.5	224.6	224.6
70°	*191.5*	194.6	194.6	197.7	197.7
72.5°	*164.5*	167.7	168.7	170.8	170.8
75°	*136.6*	141.8	141.8	143.9	143.9
77.5°	*110.7*	114.9	114.9	118.0	118.0
80°	*85.9*	90.0	90.0	92.1	92.1
82.5°	*62.1*	65.2	65.2	67.3	66.2
85°	*38.3*	41.4	41.4	43.5	42.4
87.5°	*16.6*	19.7	18.6	19.7	19.7
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 22CGTX-20-L92765-W2A-3500K

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	13.92	15.58	14.28	15.89	16.21	13.97	15.62	14.33	15.94	16.25
	3H	15.79	17.29	16.16	17.62	17.98	15.89	17.39	16.27	17.72	18.08
	4H	16.52	17.93	16.91	18.28	18.66	16.65	18.07	17.05	18.41	18.79
	6H	17.08	18.39	17.49	18.76	19.15	17.25	18.57	17.66	18.93	19.32
	8H	17.27	18.53	17.69	18.92	19.32	17.46	18.72	17.89	19.11	19.51
	12H	17.41	18.61	17.84	18.99	19.42	17.61	18.82	18.04	19.20	19.63
4H	2H	14.59	16.01	14.99	16.36	16.73	14.63	16.04	15.02	16.39	16.77
	3H	16.69	17.88	17.10	18.28	18.68	16.78	17.97	17.19	18.37	18.77
	4H	17.56	18.65	17.99	19.06	19.49	17.68	18.76	18.11	19.17	19.61
	6H	18.27	19.22	18.72	19.66	20.11	18.42	19.37	18.88	19.81	20.27
	8H	18.52	19.41	18.98	19.85	20.31	18.69	19.58	19.15	20.02	20.49
	12H	18.71	19.51	19.19	19.98	20.45	18.90	19.70	19.38	20.17	20.64
8H	4H	17.93	18.82	18.39	19.26	19.72	18.02	18.91	18.48	19.35	19.82
	6H	18.78	19.52	19.27	20.00	20.48	18.91	19.65	19.40	20.14	20.61
	8H	19.12	19.78	19.62	20.29	20.77	19.27	19.94	19.78	20.44	20.93
	12H	19.39	19.98	19.90	20.47	21.03	19.57	20.16	20.08	20.65	21.21
12H	4H	17.98	18.78	18.46	19.25	19.72	18.07	18.87	18.55	19.35	19.81
	6H	18.86	19.52	19.36	20.03	20.51	18.99	19.65	19.49	20.16	20.64
	8H	19.26	19.85	19.77	20.34	20.90	19.41	20.00	19.92	20.49	21.05

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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: SP1-2510-566-8-R2

Test Date: 10/14/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-3500K

Data in this report applies to families of products including 22CGTX

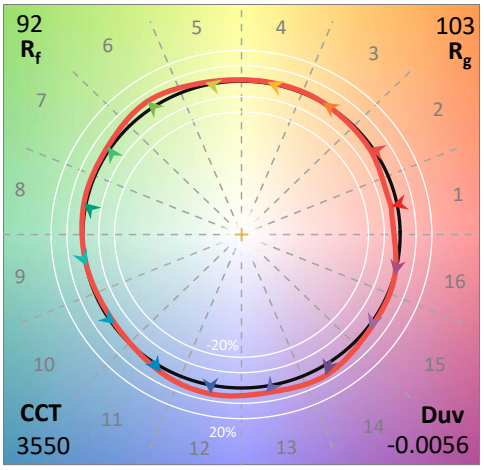
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-8-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:	**22CGTX-50-L92765-W2A-3500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-8-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 6.5 V

Spectral Parameters

CCT (K):	3550	CRI (Ra):	95.7		
CIE u':	0.2372	R1:	98.8	R9:	76.3
CIE v':	0.5029	R2:	98.1	R10:	94.9
Duv:	-0.0056	R3:	95.8	R11:	94.0
CIE x:	0.3970	R4:	95.8	R12:	83.5
CIE y:	0.3741	R5:	98.9	R13:	98.8
CIE z:	0.2289	R6:	94.8	R14:	96.6
Peak Wavelength (nm):	630	R7:	93.6	R15:	97.6
Dominant Wavelength (nm):	583	R8:	90.3		
Purity:	31.40196				
Rf:	91.7				
Rg:	102.7				



Test Conditions

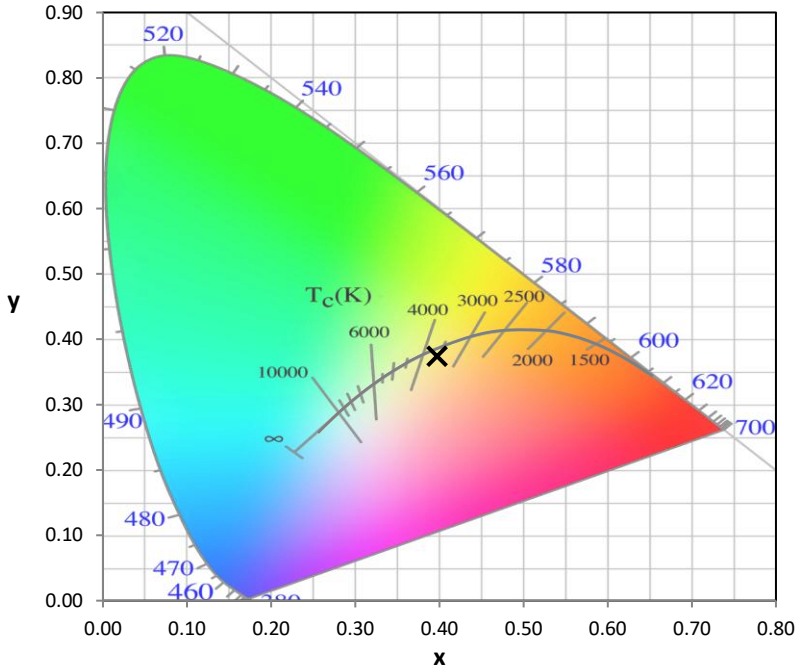
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2510-566-8-R2

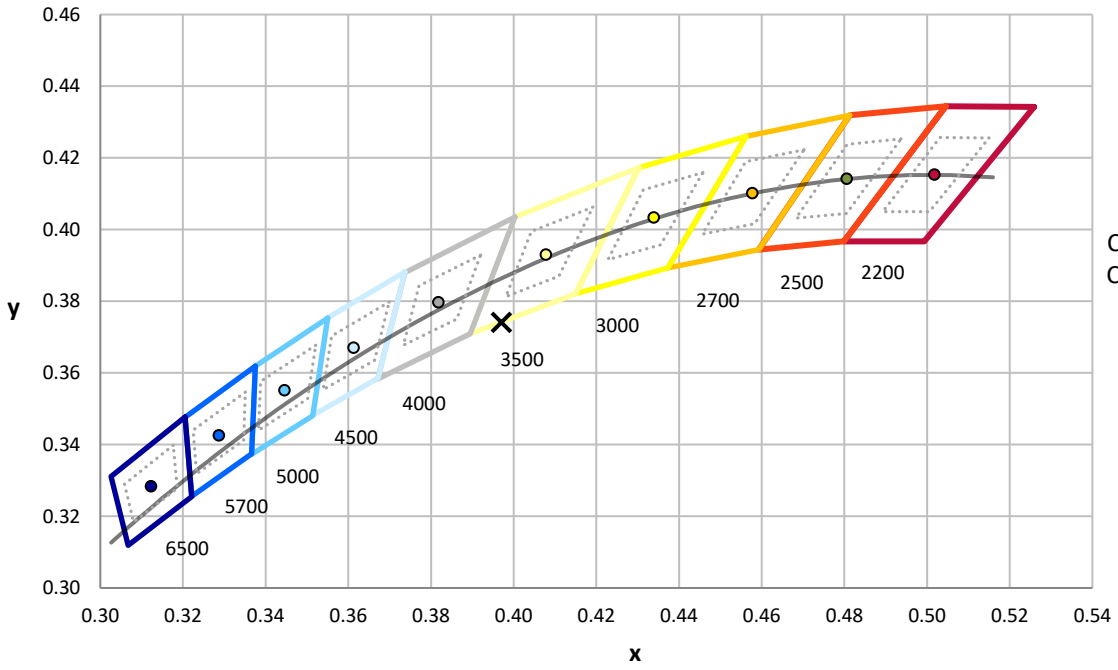
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2510-566-8-R2

CIE 1931 Chromaticity Diagram



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

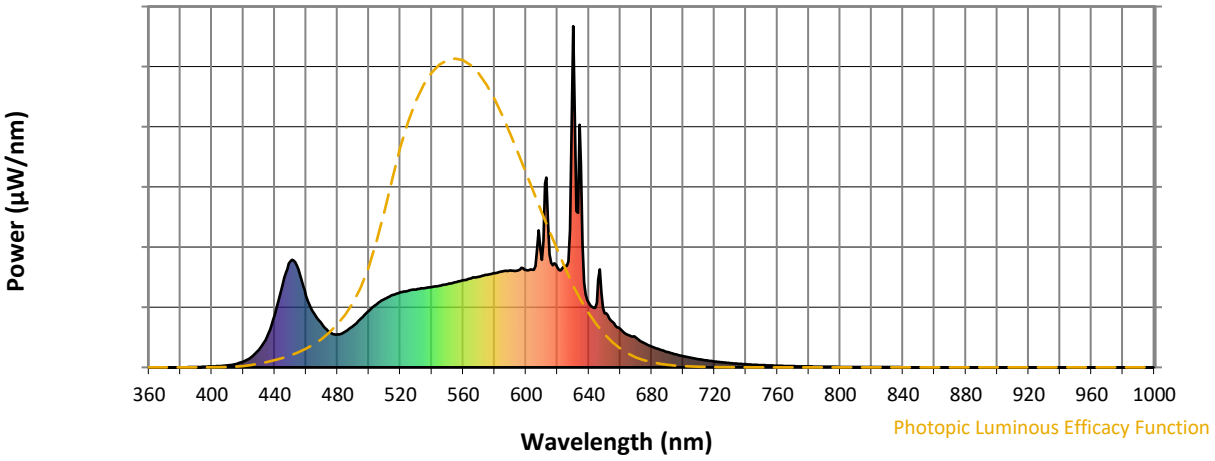


CCT = 3550K
CIE x = 0.3970
CIE y = 0.3741
Duv = -0.0056

Point lies outside the range

REPORT NUMBER: SP1-2510-566-8-R2

Photopic Flux vs. Wavelength

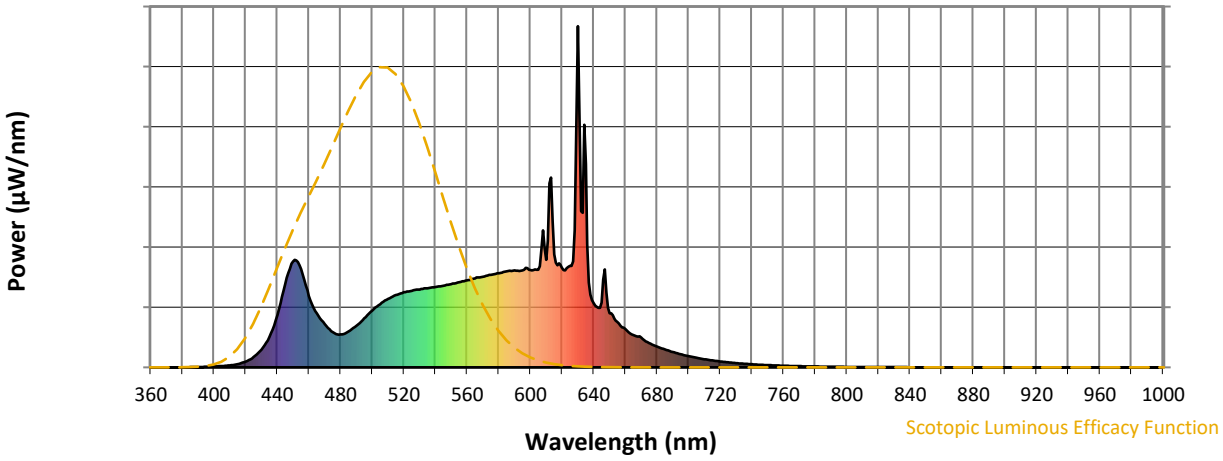


Photopic Lumens: NR

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	122	NR	620	291	NR	750	7	NR	880	0	NR
365	0	NR	495	143	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	166	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	185	NR	635	596	NR	765	4	NR	895	0	NR
380	0	NR	510	201	NR	640	188	NR	770	3	NR	900	0	NR
385	1	NR	515	212	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	220	NR	650	159	NR	780	3	NR	910	0	NR
395	2	NR	525	224	NR	655	133	NR	785	2	NR	915	0	NR
400	3	NR	530	228	NR	660	113	NR	790	2	NR	920	0	NR
405	4	NR	535	232	NR	665	95	NR	795	2	NR	925	0	NR
410	6	NR	540	236	NR	670	87	NR	800	1	NR	930	0	NR
415	10	NR	545	239	NR	675	71	NR	805	1	NR	935	0	NR
420	17	NR	550	244	NR	680	61	NR	810	1	NR	940	0	NR
425	30	NR	555	250	NR	685	53	NR	815	1	NR	945	0	NR
430	52	NR	560	255	NR	690	45	NR	820	1	NR	950	0	NR
435	89	NR	565	261	NR	695	39	NR	825	1	NR	955	0	NR
440	153	NR	570	265	NR	700	33	NR	830	1	NR	960	0	NR
445	243	NR	575	271	NR	705	28	NR	835	1	NR	965	0	NR
450	311	NR	580	276	NR	710	24	NR	840	0	NR	970	0	NR
455	288	NR	585	281	NR	715	20	NR	845	0	NR	975	0	NR
460	209	NR	590	285	NR	720	17	NR	850	0	NR	980	0	NR
465	158	NR	595	284	NR	725	15	NR	855	0	NR	985	0	NR
470	127	NR	600	285	NR	730	12	NR	860	0	NR	990	0	NR
475	103	NR	605	286	NR	735	11	NR	865	0	NR	995	0	NR
480	96	NR	610	315	NR	740	9	NR	870	0	NR	1000	0	NR
485	105	NR	615	332	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-8-R2

Scotopic Flux vs. Wavelength

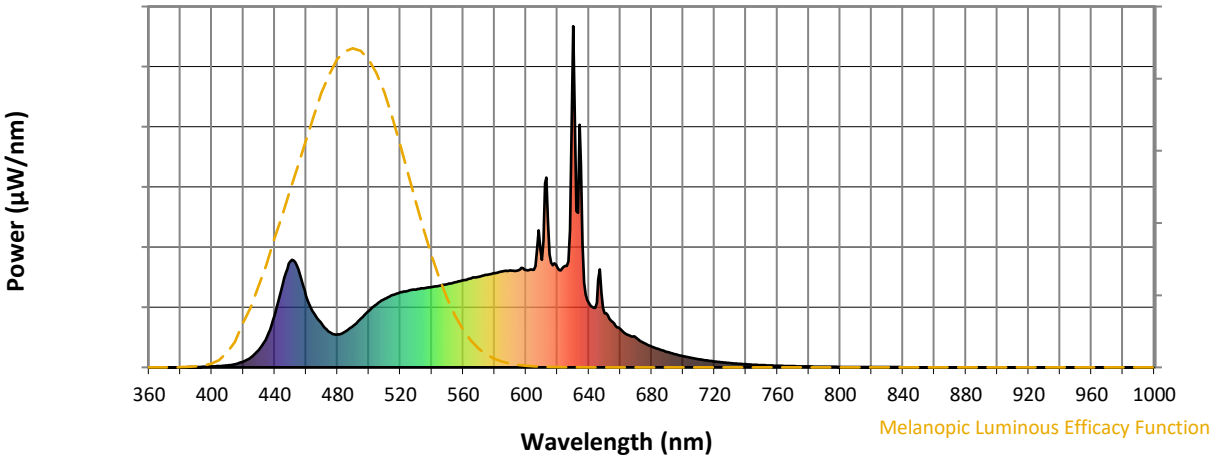


Scotopic Lumens: NR **S/P: 1.67**

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	122	NR	620	291	NR	750	7	NR	880	0	NR
365	0	NR	495	143	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	166	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	185	NR	635	596	NR	765	4	NR	895	0	NR
380	0	NR	510	201	NR	640	188	NR	770	3	NR	900	0	NR
385	1	NR	515	212	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	220	NR	650	159	NR	780	3	NR	910	0	NR
395	2	NR	525	224	NR	655	133	NR	785	2	NR	915	0	NR
400	3	NR	530	228	NR	660	113	NR	790	2	NR	920	0	NR
405	4	NR	535	232	NR	665	95	NR	795	2	NR	925	0	NR
410	6	NR	540	236	NR	670	87	NR	800	1	NR	930	0	NR
415	10	NR	545	239	NR	675	71	NR	805	1	NR	935	0	NR
420	17	NR	550	244	NR	680	61	NR	810	1	NR	940	0	NR
425	30	NR	555	250	NR	685	53	NR	815	1	NR	945	0	NR
430	52	NR	560	255	NR	690	45	NR	820	1	NR	950	0	NR
435	89	NR	565	261	NR	695	39	NR	825	1	NR	955	0	NR
440	153	NR	570	265	NR	700	33	NR	830	1	NR	960	0	NR
445	243	NR	575	271	NR	705	28	NR	835	1	NR	965	0	NR
450	311	NR	580	276	NR	710	24	NR	840	0	NR	970	0	NR
455	288	NR	585	281	NR	715	20	NR	845	0	NR	975	0	NR
460	209	NR	590	285	NR	720	17	NR	850	0	NR	980	0	NR
465	158	NR	595	284	NR	725	15	NR	855	0	NR	985	0	NR
470	127	NR	600	285	NR	730	12	NR	860	0	NR	990	0	NR
475	103	NR	605	286	NR	735	11	NR	865	0	NR	995	0	NR
480	96	NR	610	315	NR	740	9	NR	870	0	NR	1000	0	NR
485	105	NR	615	332	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.45**

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	122	NR	620	291	NR	750	7	NR	880	0	NR
365	0	NR	495	143	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	166	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	185	NR	635	596	NR	765	4	NR	895	0	NR
380	0	NR	510	201	NR	640	188	NR	770	3	NR	900	0	NR
385	1	NR	515	212	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	220	NR	650	159	NR	780	3	NR	910	0	NR
395	2	NR	525	224	NR	655	133	NR	785	2	NR	915	0	NR
400	3	NR	530	228	NR	660	113	NR	790	2	NR	920	0	NR
405	4	NR	535	232	NR	665	95	NR	795	2	NR	925	0	NR
410	6	NR	540	236	NR	670	87	NR	800	1	NR	930	0	NR
415	10	NR	545	239	NR	675	71	NR	805	1	NR	935	0	NR
420	17	NR	550	244	NR	680	61	NR	810	1	NR	940	0	NR
425	30	NR	555	250	NR	685	53	NR	815	1	NR	945	0	NR
430	52	NR	560	255	NR	690	45	NR	820	1	NR	950	0	NR
435	89	NR	565	261	NR	695	39	NR	825	1	NR	955	0	NR
440	153	NR	570	265	NR	700	33	NR	830	1	NR	960	0	NR
445	243	NR	575	271	NR	705	28	NR	835	1	NR	965	0	NR
450	311	NR	580	276	NR	710	24	NR	840	0	NR	970	0	NR
455	288	NR	585	281	NR	715	20	NR	845	0	NR	975	0	NR
460	209	NR	590	285	NR	720	17	NR	850	0	NR	980	0	NR
465	158	NR	595	284	NR	725	15	NR	855	0	NR	985	0	NR
470	127	NR	600	285	NR	730	12	NR	860	0	NR	990	0	NR
475	103	NR	605	286	NR	735	11	NR	865	0	NR	995	0	NR
480	96	NR	610	315	NR	740	9	NR	870	0	NR	1000	0	NR
485	105	NR	615	332	NR	745	8	NR	875	0	NR			

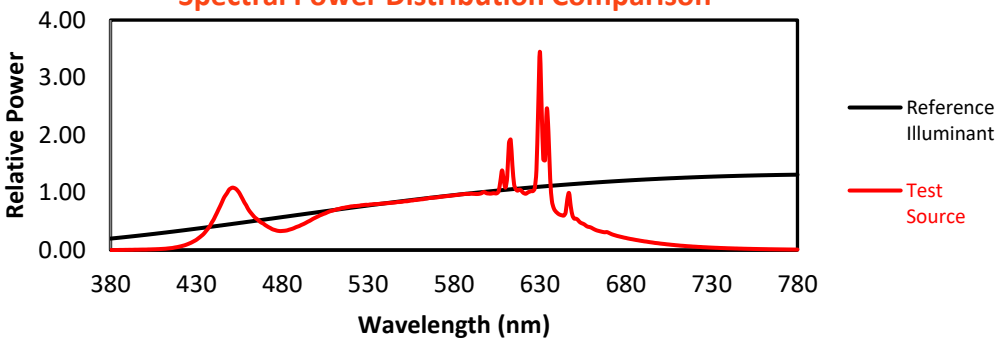
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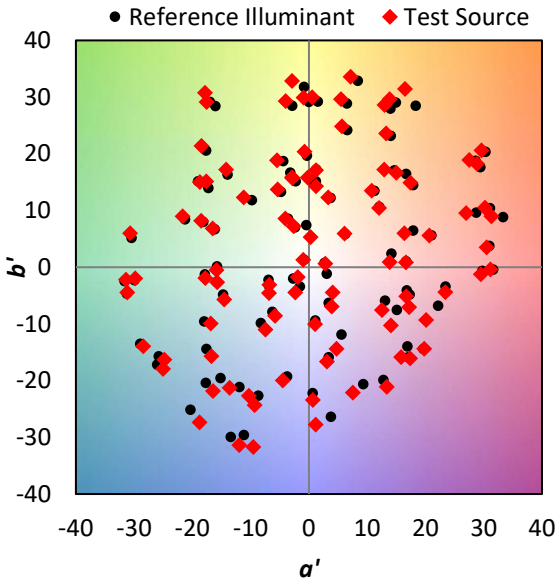
Summary

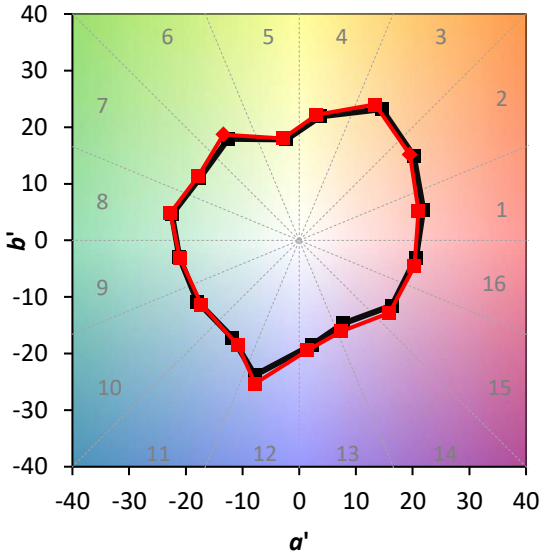
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R_g = 102.7
CIE R_a = 95.7
R_9 = 76.3

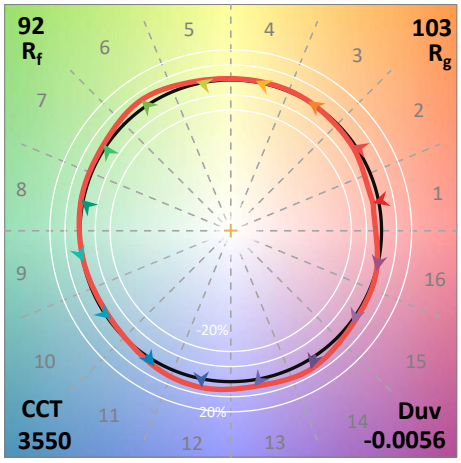
Spectral Power Distribution Comparison

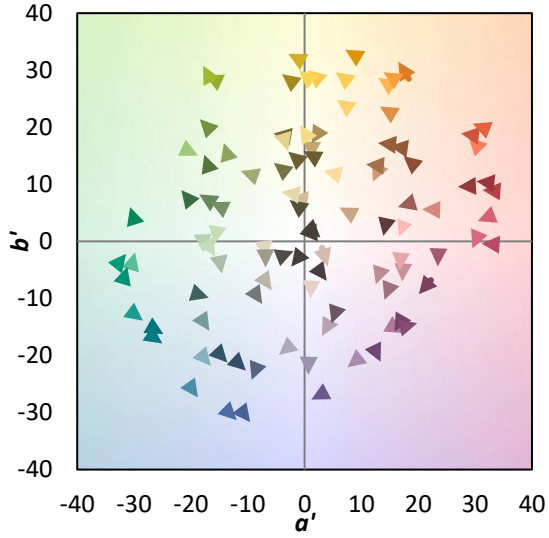


Color Vector Graphics







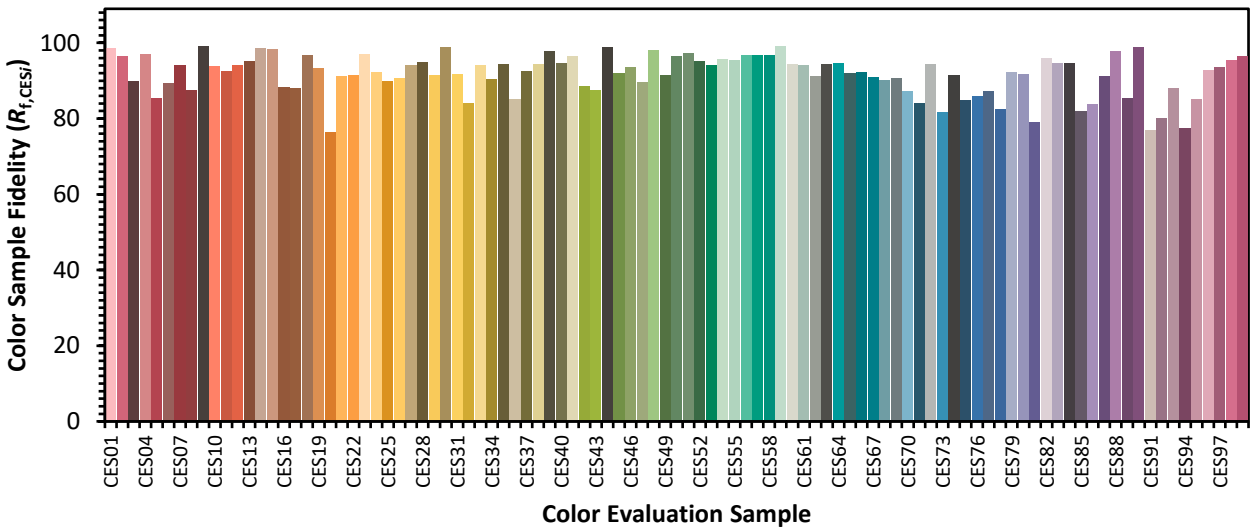


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Individual Sample Fidelity Index ($R_{f,i}$)

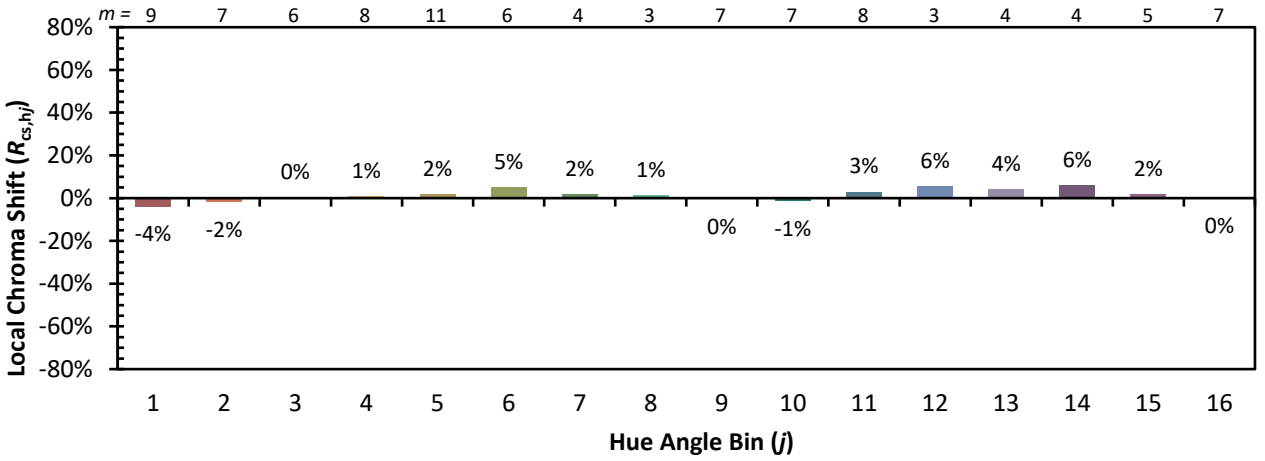
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CES02 = 62	CES27 = 94	CES52 = 95	CES77 = 87
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 70	CES29 = 92	CES54 = 96	CES79 = 92
CES05 = 50	CES30 = 99	CES55 = 95	CES80 = 92
CES06 = 51	CES31 = 92	CES56 = 97	CES81 = 79
CES07 = 43	CES32 = 84	CES57 = 97	CES82 = 96
CES08 = 42	CES33 = 94	CES58 = 97	CES83 = 95
CES09 = 29	CES34 = 90	CES59 = 99	CES84 = 95
CES10 = 75	CES35 = 94	CES60 = 94	CES85 = 82
CES11 = 58	CES36 = 85	CES61 = 94	CES86 = 84
CES12 = 64	CES37 = 92	CES62 = 91	CES87 = 91
CES13 = 44	CES38 = 94	CES63 = 94	CES88 = 98
CES14 = 74	CES39 = 98	CES64 = 95	CES89 = 85
CES15 = 72	CES40 = 95	CES65 = 92	CES90 = 99
CES16 = 48	CES41 = 96	CES66 = 92	CES91 = 77
CES17 = 49	CES42 = 89	CES67 = 91	CES92 = 80
CES18 = 56	CES43 = 87	CES68 = 90	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 78
CES20 = 67	CES45 = 92	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 94	CES71 = 84	CES96 = 93
CES22 = 78	CES47 = 90	CES72 = 94	CES97 = 93
CES23 = 91	CES48 = 98	CES73 = 82	CES98 = 95
CES24 = 90	CES49 = 91	CES74 = 91	CES99 = 97
CES25 = 71	CES50 = 97	CES75 = 85	

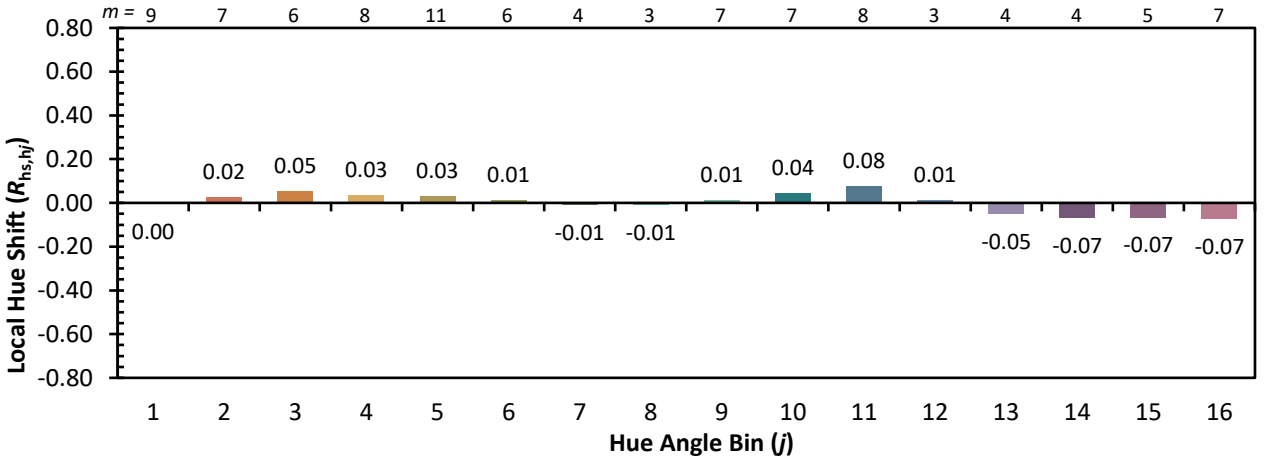


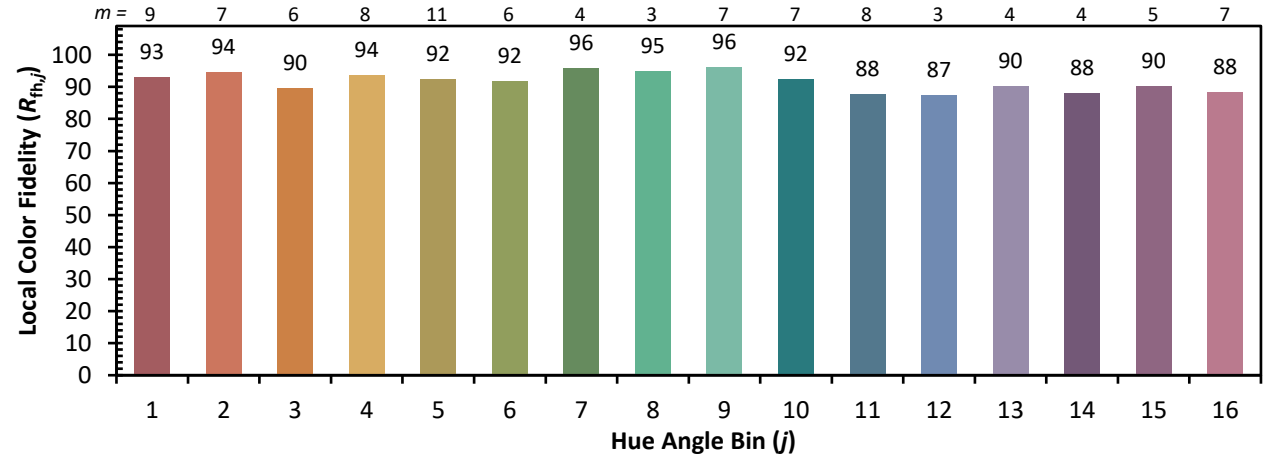
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Color Rendition by Hue-Angle Bin



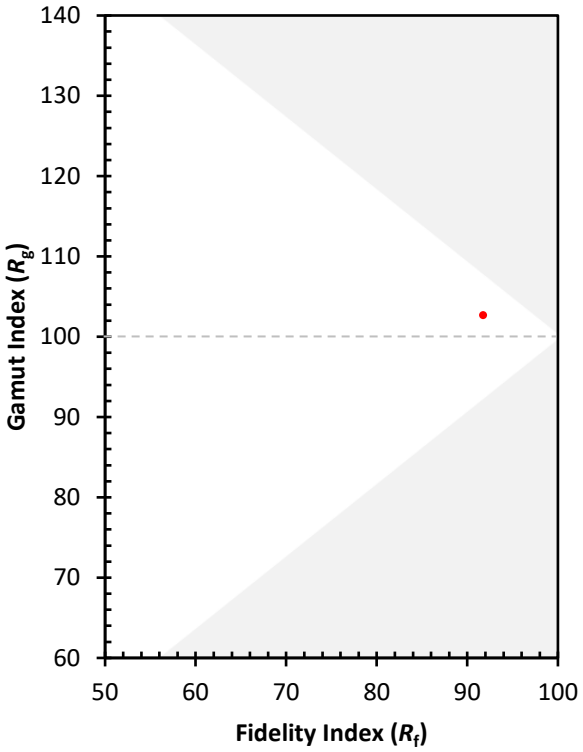


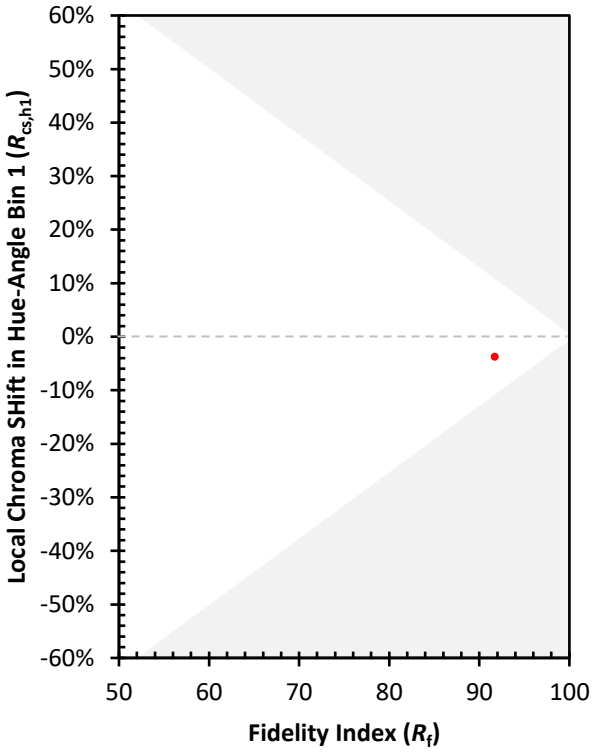


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Measure Comparisons





(END OF REPORT)