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: P1590909

Luminaire Tested: 22CGTX-20-L93050-W2A-4500K

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:	P1590909
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2512-631-1)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-20-L93050-W2A-4500K
Description:	2X2 2000 LUMEN CGTX TROFFER WITH VividTune LEDS AT 4500K CCT
Light Source:	4500K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2233.1 lumens
Efficiency:	N/A
Efficacy:	122.0 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	18.3
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

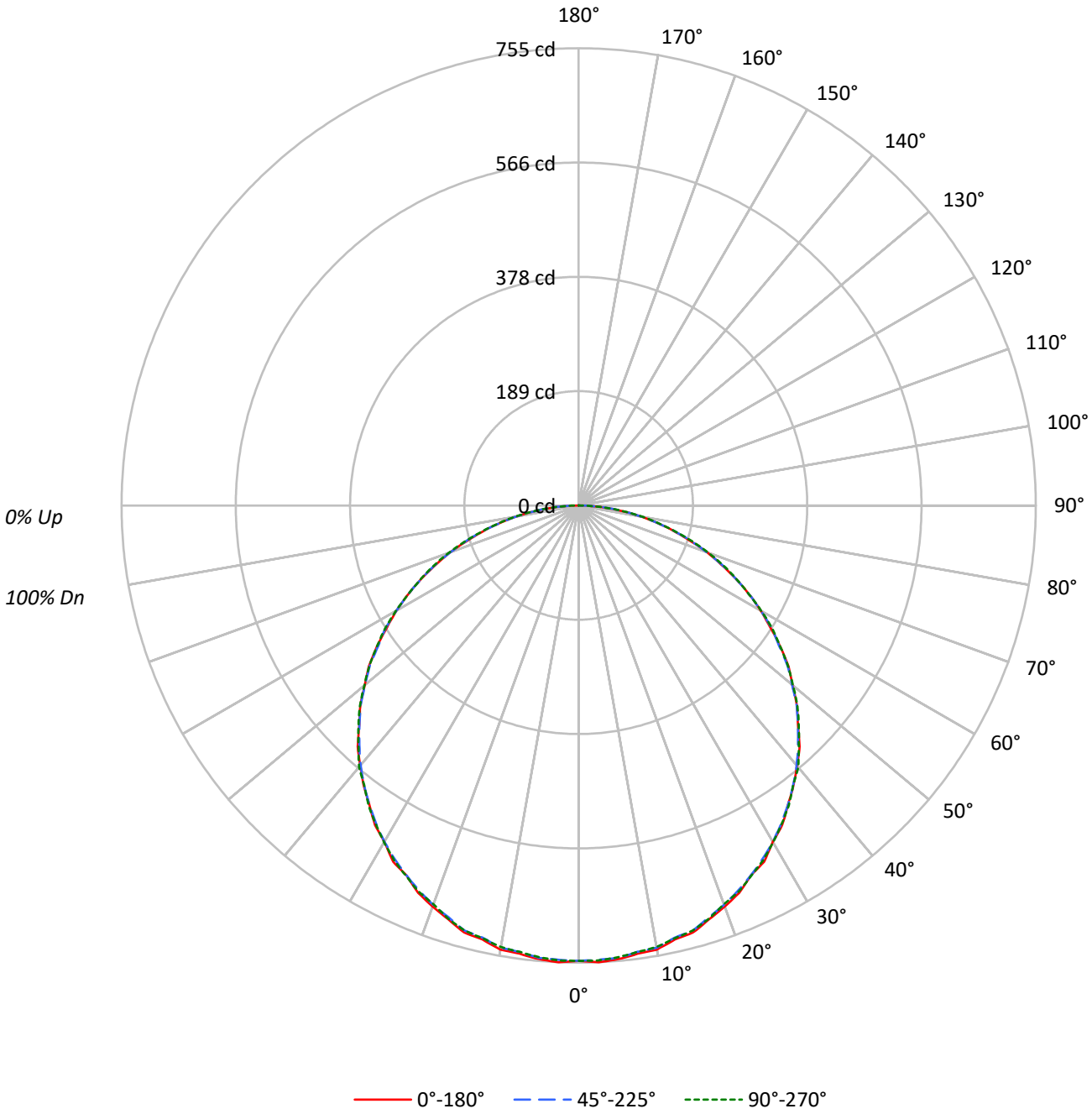


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Scaled Data Report

TEST NUMBER: P1590909
CATALOG NUMBER: 22CGTX-20-L93050-W2A-4500K

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	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	39	51	44	39	50	44	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°	2024	2024	2024
5°	2031	2026	2023
10°	2035	2026	2023
15°	2034	2025	2025
20°	2019	2010	2007
25°	2000	2000	2004
30°	1993	1993	1996
35°	1980	1980	1987
40°	1971	1968	1982
45°	1949	1949	1957
50°	1930	1925	1934
55°	1908	1894	1908
60°	1869	1869	1875
65°	1826	1826	1833
70°	1773	1764	1797
75°	1681	1702	1713
80°	1601	1601	1649
85°	1417	1482	1448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 1957 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590909
CATALOG NUMBER: 22CGTX-20-L93050-W2A-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.2
10°-20°	204.7	9.2
20°-30°	311.2	13.9
30°-40°	377.7	16.9
40°-50°	395.7	17.7
50°-60°	362.9	16.3
60°-70°	283.7	12.7
70°-80°	172.8	7.7
80°-90°	53.1	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°	587.3	26.3
0°-40°	965.0	43.2
0°-60°	1723.6	77.2
0°-90°	2233.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	752	751	750	750	749	71
15°	730	725	727	725	727	205
25°	674	675	674	674	675	312
35°	603	604	603	603	605	378
45°	512	513	512	513	514	396
55°	407	406	404	407	407	363
65°	287	286	287	288	288	283
75°	162	163	164	165	165	172
85°	46	46	48	48	47	53
90°	0	0	0	0	0	

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TEST NUMBER: P1590909
CATALOG NUMBER: 22CGTX-20-L93050-W2A-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*752.0*	752.0	752.0	752.0	752.0
2.5°	*755.1*	*753.0*	*750.9*	*749.9*	*752.0*
5°	*752.0*	750.9	749.9	749.9	748.8
7.5°	*746.7*	746.7	743.6	745.7	743.6
10°	*744.7*	741.5	741.5	740.5	740.5
12.5°	*734.2*	735.3	731.1	734.2	732.1
15°	*730.1*	724.8	726.9	724.8	726.9
17.5°	*716.5*	716.5	713.4	715.4	715.4
20°	*705.0*	702.9	701.9	700.8	700.8
22.5°	*692.5*	691.5	688.3	691.5	690.4
25°	*673.7*	674.8	673.7	673.7	674.8
27.5°	*663.3*	660.2	658.1	660.2	660.2
30°	*641.4*	641.4	641.4	642.4	642.4
32.5°	*625.8*	623.7	622.6	623.7	623.7
35°	*602.8*	603.9	602.8	602.8	604.9
37.5°	*583.0*	584.0	582.0	584.0	582.0
40°	*561.1*	561.1	560.1	558.0	564.2
42.5°	*540.2*	536.1	536.1	538.2	538.2
45°	*512.1*	513.1	512.1	513.1	514.2
47.5°	*489.1*	487.0	488.1	488.1	490.2
50°	*461.0*	461.0	459.9	462.0	462.0
52.5°	*437.0*	433.9	434.9	433.9	435.9
55°	*406.7*	405.7	403.6	406.7	406.7
57.5°	*375.5*	376.5	378.6	376.5	379.6
60°	*347.3*	347.3	347.3	349.4	348.3
62.5°	*317.1*	315.0	317.1	318.1	317.1
65°	*286.8*	285.8	286.8	287.8	287.8
67.5°	*254.5*	254.5	256.6	256.6	258.6
70°	*225.3*	224.2	224.2	224.2	228.4
72.5°	*191.9*	192.9	194.0	195.0	196.1
75°	*161.7*	162.7	163.7	164.8	164.8
77.5°	*132.5*	132.5	132.5	134.5	134.5
80°	*103.3*	102.2	103.3	104.3	106.4
82.5°	*75.1*	74.0	75.1	76.1	76.1
85°	*45.9*	45.9	48.0	48.0	46.9
87.5°	*20.9*	19.8	21.9	21.9	20.9
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1590909
CATALOG NUMBER: 22CGTX-20-L93050-W2A-4500K

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	14.41	16.07	14.78	16.39	16.70	14.43	16.09	14.79	16.40	16.72
	3H	16.33	17.84	16.71	18.16	18.52	16.37	17.88	16.74	18.20	18.56
	4H	17.08	18.50	17.47	18.85	19.22	17.13	18.56	17.53	18.90	19.28
	6H	17.67	18.99	18.08	19.35	19.74	17.74	19.06	18.15	19.42	19.81
	8H	17.87	19.14	18.30	19.53	19.92	17.95	19.21	18.37	19.60	20.00
	12H	18.02	19.23	18.45	19.61	20.04	18.10	19.31	18.52	19.69	20.12
4H	2H	15.08	16.51	15.48	16.85	17.23	15.10	16.52	15.49	16.87	17.24
	3H	17.23	18.43	17.64	18.82	19.22	17.26	18.46	17.67	18.85	19.25
	4H	18.11	19.20	18.54	19.61	20.05	18.16	19.25	18.59	19.66	20.10
	6H	18.84	19.79	19.29	20.23	20.69	18.91	19.86	19.36	20.30	20.75
	8H	19.10	20.00	19.56	20.44	20.90	19.18	20.07	19.64	20.51	20.98
	12H	19.30	20.10	19.78	20.58	21.05	19.38	20.18	19.86	20.66	21.12
8H	4H	18.47	19.37	18.93	19.81	20.27	18.52	19.41	18.98	19.85	20.32
	6H	19.34	20.08	19.83	20.57	21.04	19.40	20.15	19.89	20.63	21.11
	8H	19.69	20.35	20.19	20.86	21.34	19.76	20.43	20.27	20.93	21.42
	12H	19.96	20.56	20.47	21.05	21.61	20.05	20.64	20.55	21.13	21.69
12H	4H	18.52	19.33	19.00	19.80	20.27	18.56	19.37	19.04	19.84	20.31
	6H	19.42	20.09	19.92	20.59	21.08	19.48	20.15	19.98	20.65	21.14
	8H	19.83	20.42	20.33	20.91	21.47	19.90	20.49	20.40	20.98	21.54

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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: SP1-2512-631-28-R2

Test Date: 02/05/2026

Luminaire Tested: 22CGTX-50-L93050-W2A-4500K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

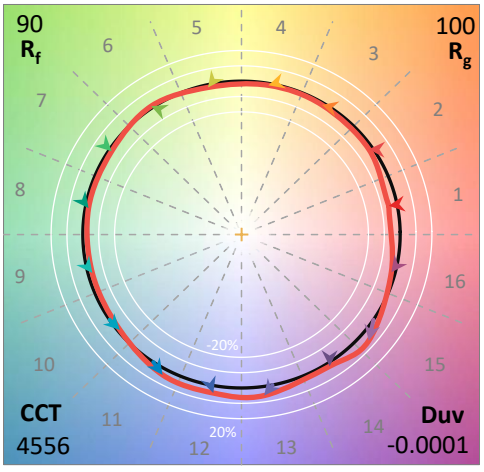
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-631-28-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-L93050-W2A-4500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-631-28-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 5000 LUMEN HE CGTX TUNABLE WHITE FROM 3000K TO 5000K - 3 Volt

Spectral Parameters

CCT (K):	4556
CIE u':	0.2166
CIE v':	0.4916
Duv:	-0.0001
CIE x:	0.3588
CIE y:	0.3619
CIE z:	0.2793
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	576
Purity:	16.26758
Rf:	90.4
Rg:	99.5

CRI (Ra):	93.8		
R1:	95.1	R9:	68.4
R2:	96.4	R10:	89.0
R3:	95.1	R11:	94.6
R4:	94.5	R12:	68.9
R5:	93.5	R13:	95.8
R6:	93.0	R14:	96.7
R7:	94.8	R15:	92.7
R8:	88.3		



Test Conditions

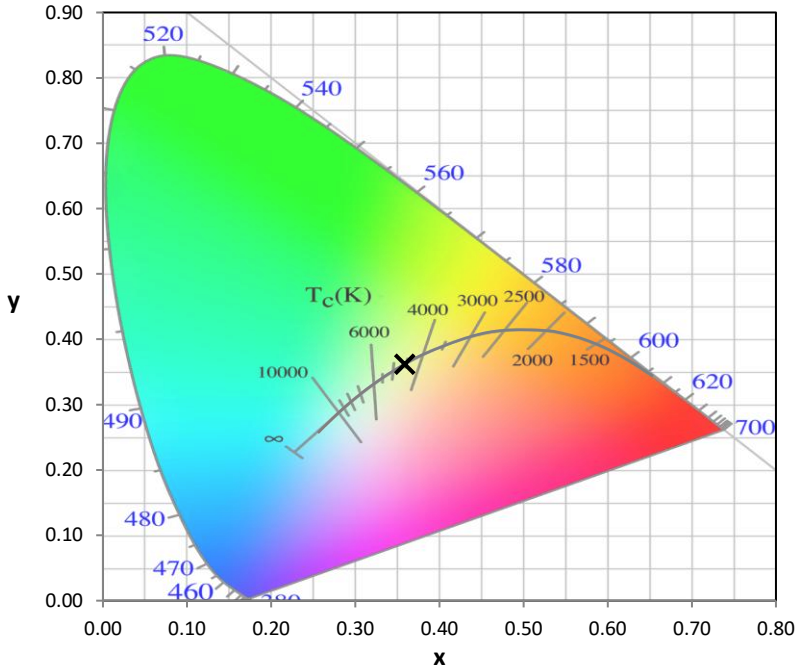
Stabilization Time:	41M
Operation Time:	1H 41M
Sphere Temperature (°C):	25.1

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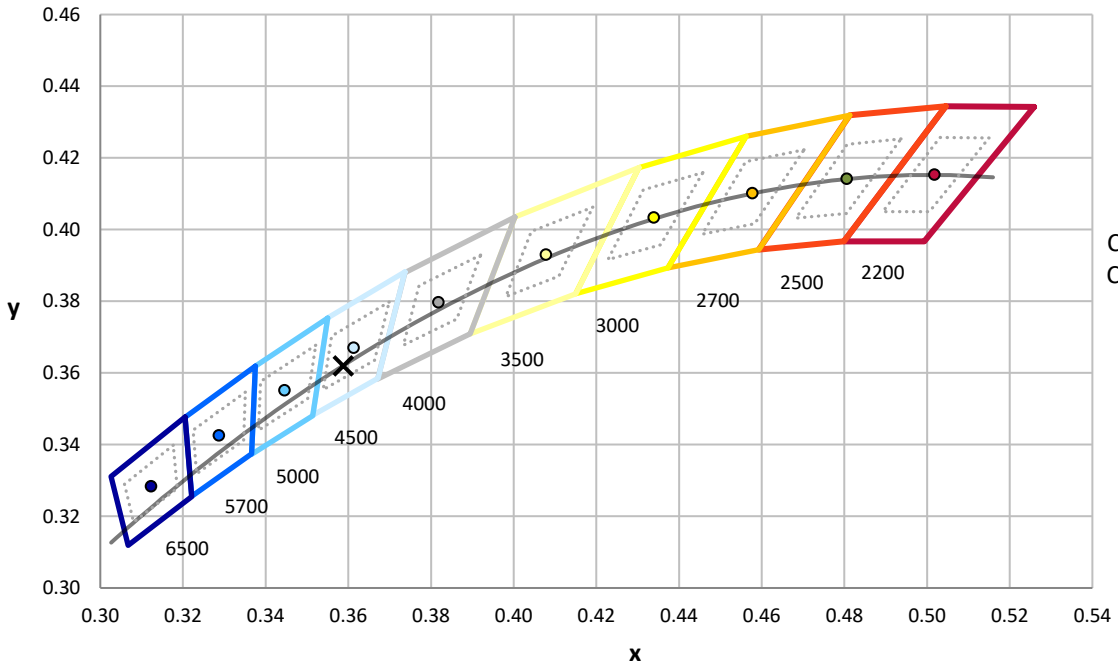
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2512-631-28-R2

CIE 1931 Chromaticity Diagram



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

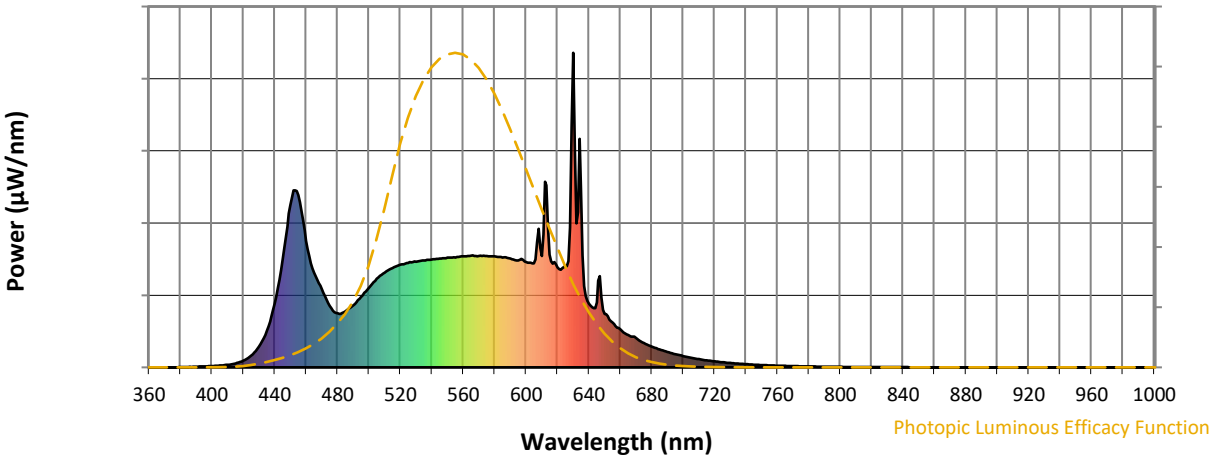


CCT = 4556K
CIE x = 0.3588
CIE y = 0.3619
Duv = -0.0001

Point lies inside the ANSI 4500K 4-step quadrangle

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Photopic Flux vs. Wavelength

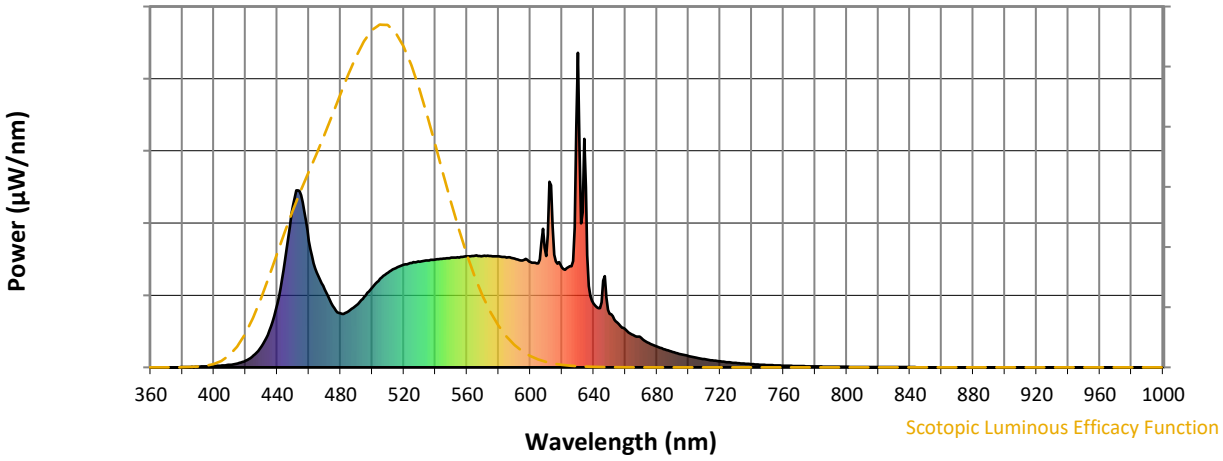


Photopic Lumens: NR

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	198	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	223	NR	625	321	NR	755	6	NR	885	0	NR
370	0	NR	500	254	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	282	NR	635	572	NR	765	5	NR	895	0	NR
380	1	NR	510	301	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	316	NR	645	207	NR	775	3	NR	905	0	NR
390	2	NR	520	327	NR	650	170	NR	780	3	NR	910	0	NR
395	3	NR	525	332	NR	655	143	NR	785	2	NR	915	0	NR
400	4	NR	530	336	NR	660	121	NR	790	2	NR	920	0	NR
405	6	NR	535	340	NR	665	102	NR	795	2	NR	925	0	NR
410	8	NR	540	343	NR	670	94	NR	800	2	NR	930	0	NR
415	12	NR	545	346	NR	675	77	NR	805	1	NR	935	0	NR
420	21	NR	550	349	NR	680	66	NR	810	1	NR	940	0	NR
425	37	NR	555	349	NR	685	57	NR	815	1	NR	945	0	NR
430	66	NR	560	353	NR	690	49	NR	820	1	NR	950	0	NR
435	117	NR	565	355	NR	695	42	NR	825	1	NR	955	0	NR
440	203	NR	570	354	NR	700	36	NR	830	1	NR	960	0	NR
445	343	NR	575	354	NR	705	31	NR	835	1	NR	965	0	NR
450	516	NR	580	353	NR	710	26	NR	840	1	NR	970	0	NR
455	547	NR	585	349	NR	715	22	NR	845	0	NR	975	0	NR
460	402	NR	590	346	NR	720	19	NR	850	0	NR	980	0	NR
465	301	NR	595	340	NR	725	16	NR	855	0	NR	985	0	NR
470	248	NR	600	335	NR	730	14	NR	860	0	NR	990	0	NR
475	195	NR	605	330	NR	735	12	NR	865	0	NR	995	0	NR
480	172	NR	610	354	NR	740	10	NR	870	0	NR	1000	0	NR
485	178	NR	615	358	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-28-R2

Scotopic Flux vs. Wavelength

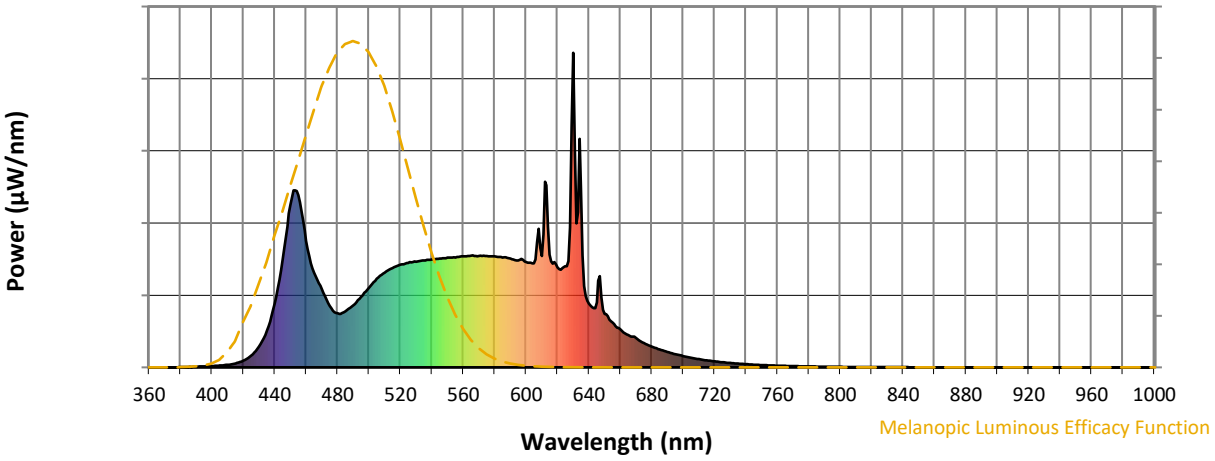


Scotopic Lumens: NR **S/P: 1.95**

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	198	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	223	NR	625	321	NR	755	6	NR	885	0	NR
370	0	NR	500	254	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	282	NR	635	572	NR	765	5	NR	895	0	NR
380	1	NR	510	301	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	316	NR	645	207	NR	775	3	NR	905	0	NR
390	2	NR	520	327	NR	650	170	NR	780	3	NR	910	0	NR
395	3	NR	525	332	NR	655	143	NR	785	2	NR	915	0	NR
400	4	NR	530	336	NR	660	121	NR	790	2	NR	920	0	NR
405	6	NR	535	340	NR	665	102	NR	795	2	NR	925	0	NR
410	8	NR	540	343	NR	670	94	NR	800	2	NR	930	0	NR
415	12	NR	545	346	NR	675	77	NR	805	1	NR	935	0	NR
420	21	NR	550	349	NR	680	66	NR	810	1	NR	940	0	NR
425	37	NR	555	349	NR	685	57	NR	815	1	NR	945	0	NR
430	66	NR	560	353	NR	690	49	NR	820	1	NR	950	0	NR
435	117	NR	565	355	NR	695	42	NR	825	1	NR	955	0	NR
440	203	NR	570	354	NR	700	36	NR	830	1	NR	960	0	NR
445	343	NR	575	354	NR	705	31	NR	835	1	NR	965	0	NR
450	516	NR	580	353	NR	710	26	NR	840	1	NR	970	0	NR
455	547	NR	585	349	NR	715	22	NR	845	0	NR	975	0	NR
460	402	NR	590	346	NR	720	19	NR	850	0	NR	980	0	NR
465	301	NR	595	340	NR	725	16	NR	855	0	NR	985	0	NR
470	248	NR	600	335	NR	730	14	NR	860	0	NR	990	0	NR
475	195	NR	605	330	NR	735	12	NR	865	0	NR	995	0	NR
480	172	NR	610	354	NR	740	10	NR	870	0	NR	1000	0	NR
485	178	NR	615	358	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.17**

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	198	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	223	NR	625	321	NR	755	6	NR	885	0	NR
370	0	NR	500	254	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	282	NR	635	572	NR	765	5	NR	895	0	NR
380	1	NR	510	301	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	316	NR	645	207	NR	775	3	NR	905	0	NR
390	2	NR	520	327	NR	650	170	NR	780	3	NR	910	0	NR
395	3	NR	525	332	NR	655	143	NR	785	2	NR	915	0	NR
400	4	NR	530	336	NR	660	121	NR	790	2	NR	920	0	NR
405	6	NR	535	340	NR	665	102	NR	795	2	NR	925	0	NR
410	8	NR	540	343	NR	670	94	NR	800	2	NR	930	0	NR
415	12	NR	545	346	NR	675	77	NR	805	1	NR	935	0	NR
420	21	NR	550	349	NR	680	66	NR	810	1	NR	940	0	NR
425	37	NR	555	349	NR	685	57	NR	815	1	NR	945	0	NR
430	66	NR	560	353	NR	690	49	NR	820	1	NR	950	0	NR
435	117	NR	565	355	NR	695	42	NR	825	1	NR	955	0	NR
440	203	NR	570	354	NR	700	36	NR	830	1	NR	960	0	NR
445	343	NR	575	354	NR	705	31	NR	835	1	NR	965	0	NR
450	516	NR	580	353	NR	710	26	NR	840	1	NR	970	0	NR
455	547	NR	585	349	NR	715	22	NR	845	0	NR	975	0	NR
460	402	NR	590	346	NR	720	19	NR	850	0	NR	980	0	NR
465	301	NR	595	340	NR	725	16	NR	855	0	NR	985	0	NR
470	248	NR	600	335	NR	730	14	NR	860	0	NR	990	0	NR
475	195	NR	605	330	NR	735	12	NR	865	0	NR	995	0	NR
480	172	NR	610	354	NR	740	10	NR	870	0	NR	1000	0	NR
485	178	NR	615	358	NR	745	9	NR	875	0	NR			

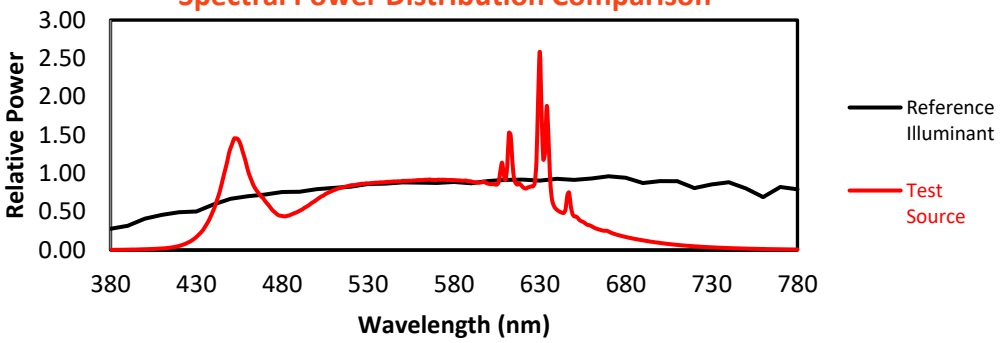
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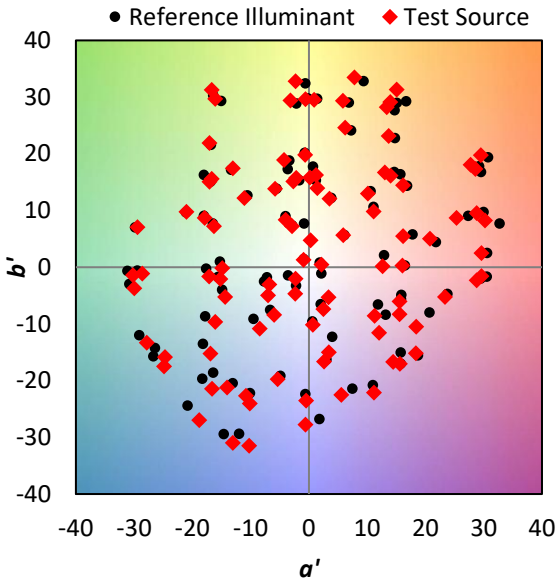
Summary

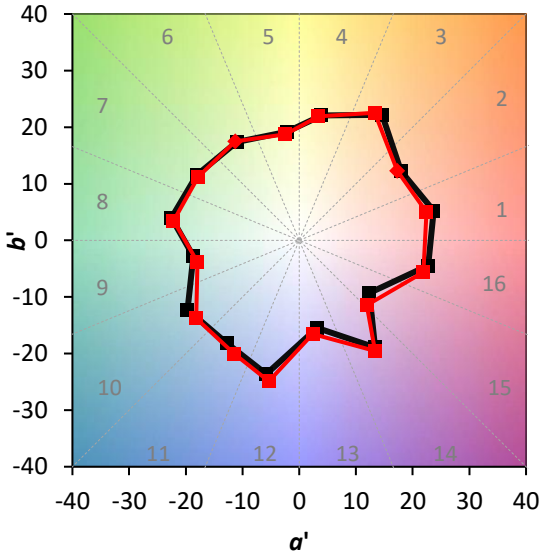
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R_g = 99.5
CIE R_a = 93.8
R_9 = 68.4

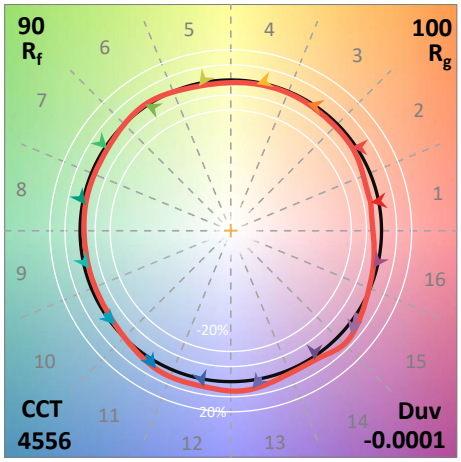
Spectral Power Distribution Comparison

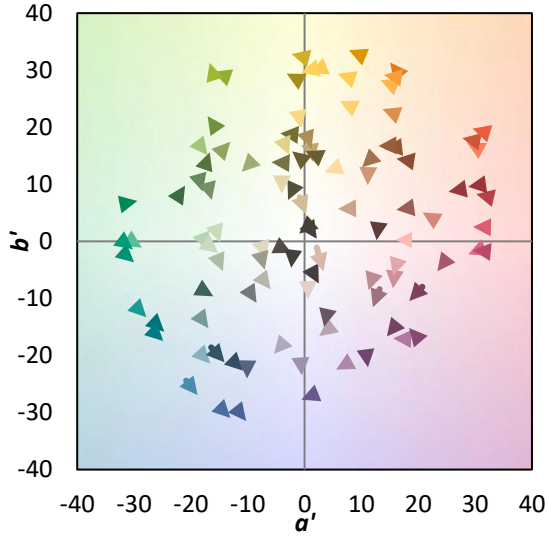


Color Vector Graphics







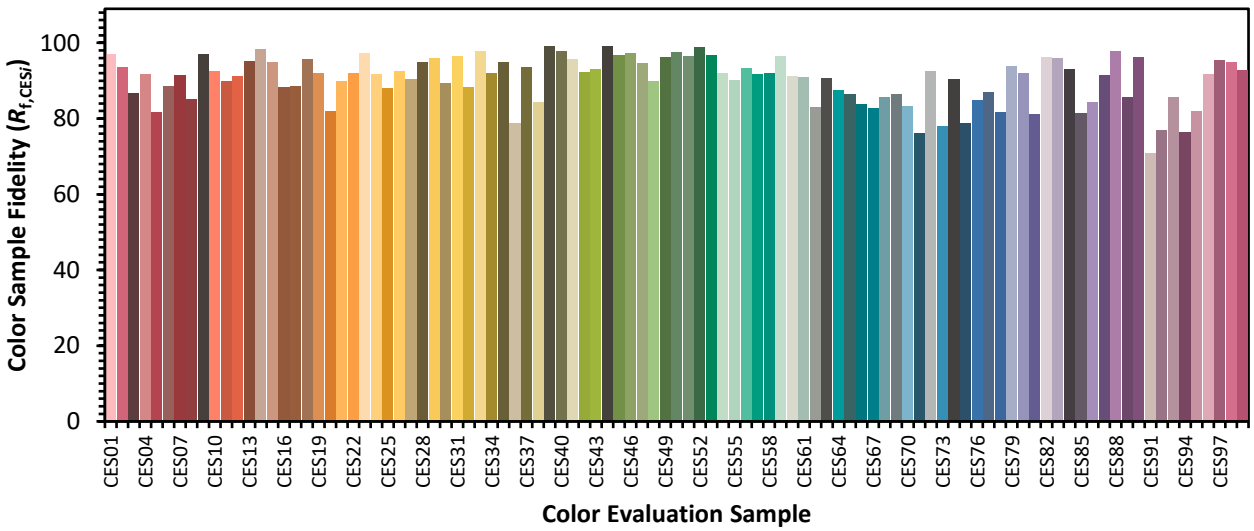


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Individual Sample Fidelity Index ($R_{f,i}$)

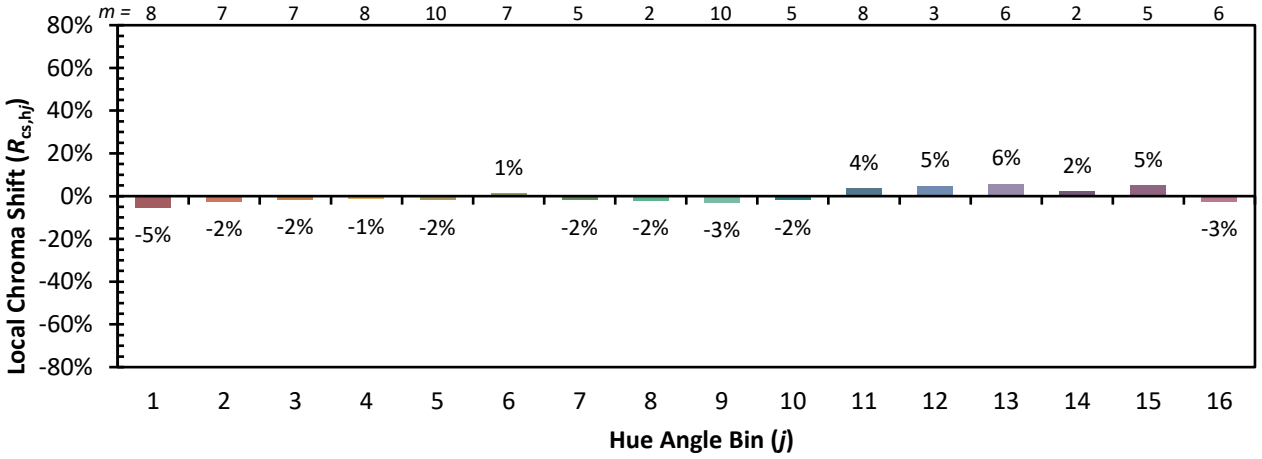
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CES02 = 61	CES27 = 90	CES52 = 99	CES77 = 87
CES03 = 31	CES28 = 95	CES53 = 97	CES78 = 82
CES04 = 69	CES29 = 96	CES54 = 92	CES79 = 94
CES05 = 48	CES30 = 89	CES55 = 90	CES80 = 92
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 81
CES07 = 41	CES32 = 88	CES57 = 92	CES82 = 96
CES08 = 40	CES33 = 98	CES58 = 92	CES83 = 96
CES09 = 29	CES34 = 92	CES59 = 97	CES84 = 93
CES10 = 74	CES35 = 95	CES60 = 91	CES85 = 82
CES11 = 56	CES36 = 79	CES61 = 91	CES86 = 84
CES12 = 62	CES37 = 94	CES62 = 83	CES87 = 91
CES13 = 43	CES38 = 84	CES63 = 91	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 87	CES89 = 86
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 96
CES16 = 47	CES41 = 96	CES66 = 84	CES91 = 71
CES17 = 49	CES42 = 92	CES67 = 83	CES92 = 77
CES18 = 56	CES43 = 93	CES68 = 86	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 87	CES94 = 76
CES20 = 65	CES45 = 97	CES70 = 83	CES95 = 82
CES21 = 85	CES46 = 97	CES71 = 76	CES96 = 92
CES22 = 77	CES47 = 95	CES72 = 92	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 91	CES99 = 93
CES25 = 70	CES50 = 98	CES75 = 79	

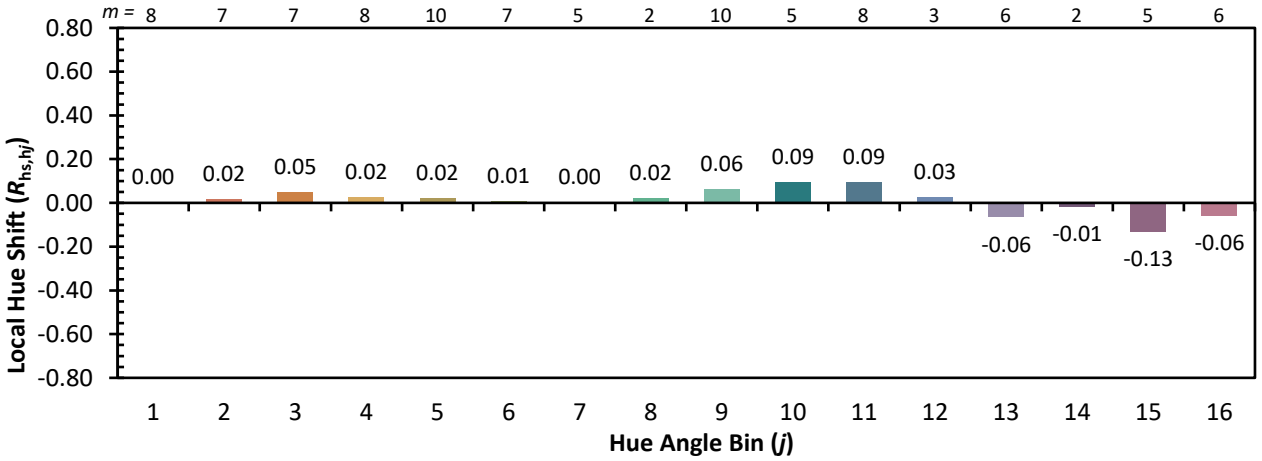


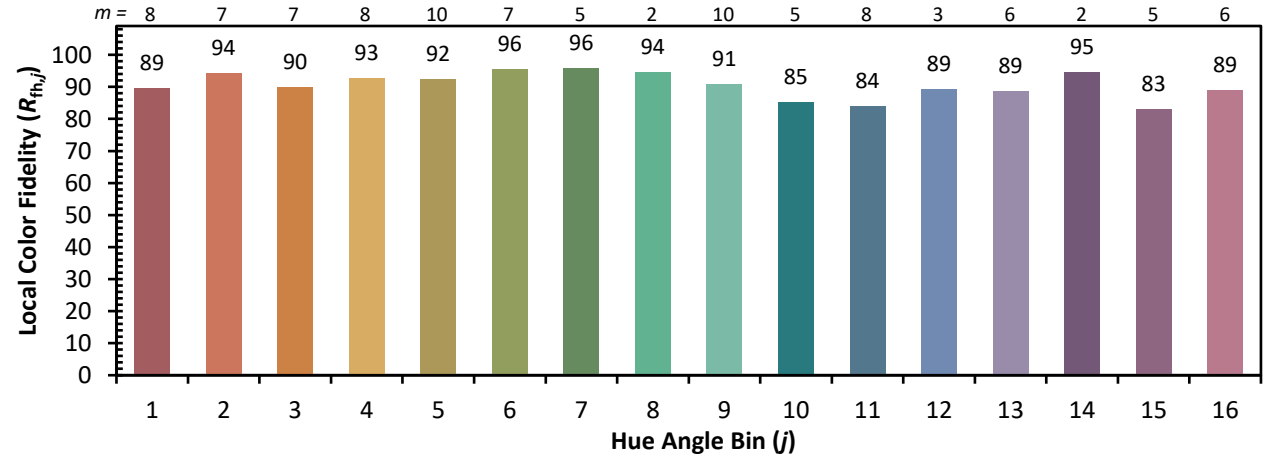
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Color Rendition by Hue-Angle Bin



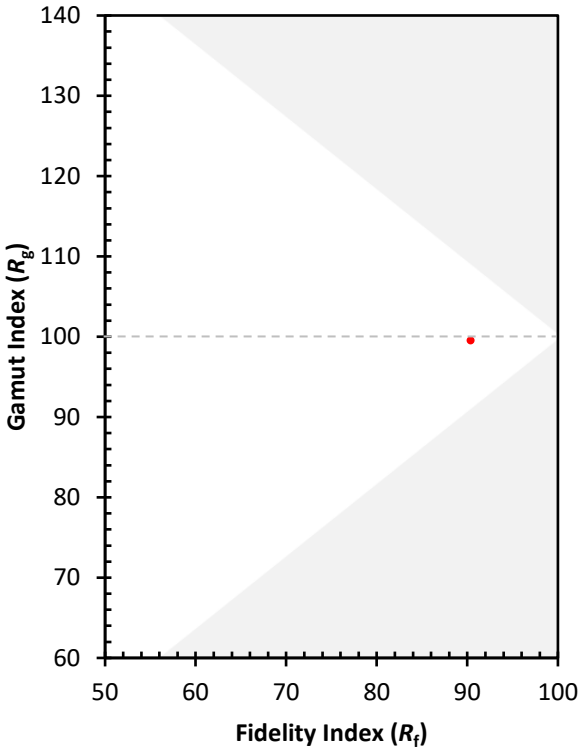


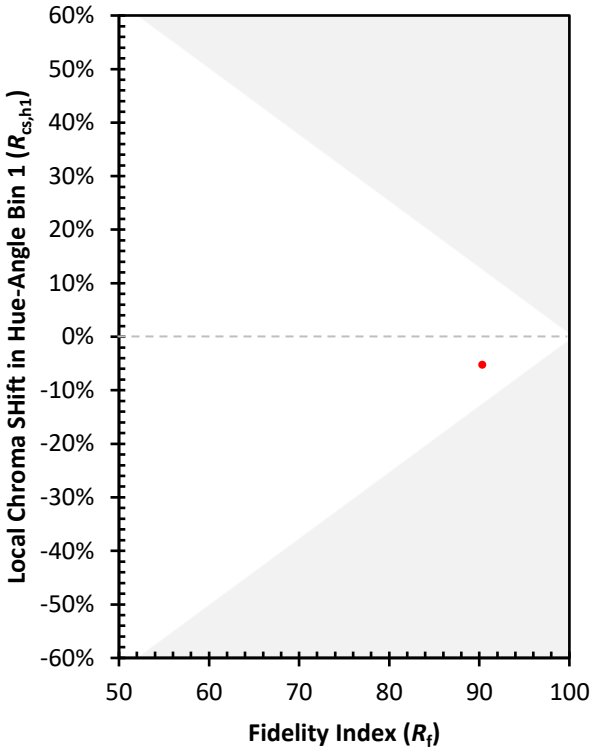


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Measure Comparisons





(END OF REPORT)