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: P1590907

Luminaire Tested: 22CGTX-20-L93050-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:	P1590907
	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-3500K
Description:	2X2 2000 LUMEN CGTX TROFFER WITH VividTune LEDS AT 3500K CCT
Light Source:	3500K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2189.2 lumens
Efficiency:	N/A
Efficacy:	119.6 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

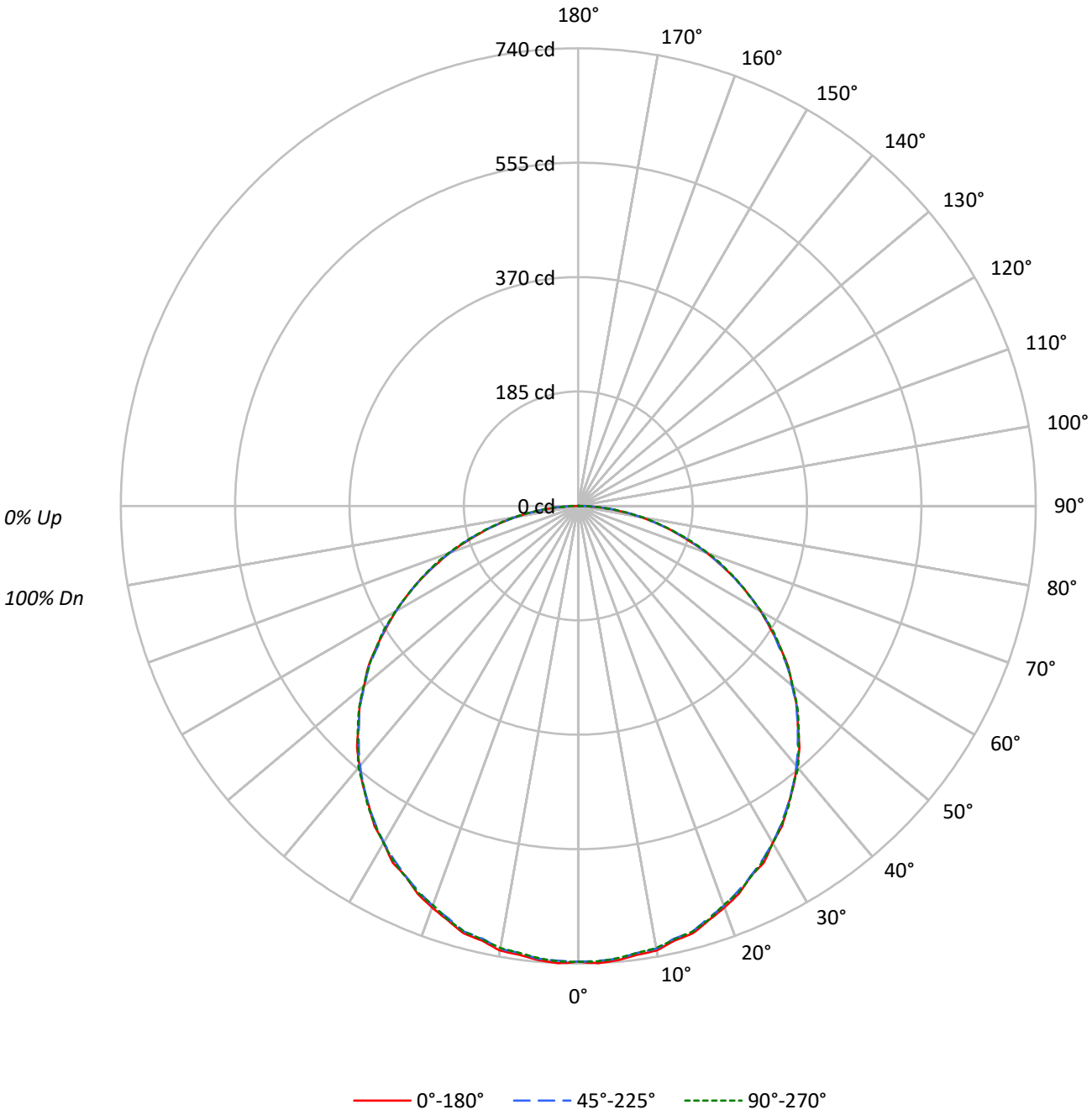


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Scaled Data Report

TEST NUMBER: P1590907
CATALOG NUMBER: 22CGTX-20-L93050-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	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°	1984	1984	1984
5°	1991	1986	1983
10°	1995	1987	1984
15°	1994	1985	1985
20°	1979	1970	1968
25°	1961	1961	1964
30°	1954	1954	1957
35°	1941	1941	1948
40°	1932	1929	1943
45°	1910	1910	1918
50°	1892	1888	1896
55°	1871	1856	1871
60°	1833	1833	1838
65°	1791	1791	1797
70°	1737	1729	1762
75°	1648	1669	1679
80°	1568	1568	1616
85°	1389	1451	1420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 1918 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590907
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.2
10°-20°	200.7	9.2
20°-30°	305.1	13.9
30°-40°	370.3	16.9
40°-50°	387.9	17.7
50°-60°	355.8	16.3
60°-70°	278.1	12.7
70°-80°	169.4	7.7
80°-90°	52.1	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°	575.7	26.3
0°-40°	946.0	43.2
0°-60°	1689.7	77.2
0°-90°	2189.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	737	736	735	735	734	70
15°	716	711	713	711	713	201
25°	660	662	660	660	662	306
35°	591	592	591	591	593	371
45°	502	503	502	503	504	389
55°	399	398	396	399	399	356
65°	281	280	281	282	282	278
75°	158	160	160	162	162	168
85°	45	45	47	47	46	52
90°	0	0	0	0	0	

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TEST NUMBER: P1590907
CATALOG NUMBER: 22CGTX-20-L93050-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*737.2*	737.2	737.2	737.2	737.2
2.5°	*740.2*	*738.2*	*736.2*	*735.1*	*737.2*
5°	*737.2*	736.2	735.1	735.1	734.1
7.5°	*732.1*	732.1	729.0	731.0	729.0
10°	*730.0*	727.0	727.0	725.9	725.9
12.5°	*719.8*	720.8	716.7	719.8	717.8
15°	*715.7*	710.6	712.6	710.6	712.6
17.5°	*702.4*	702.4	699.3	701.4	701.4
20°	*691.2*	689.1	688.1	687.1	687.1
22.5°	*678.9*	677.9	674.8	677.9	676.9
25°	*660.5*	661.5	660.5	660.5	661.5
27.5°	*650.3*	647.2	645.2	647.2	647.2
30°	*628.8*	628.8	628.8	629.8	629.8
32.5°	*613.5*	611.4	610.4	611.4	611.4
35°	*591.0*	592.0	591.0	591.0	593.0
37.5°	*571.5*	572.6	570.5	572.6	570.5
40°	*550.1*	550.1	549.0	547.0	553.1
42.5°	*529.6*	525.5	525.5	527.6	527.6
45°	*502.0*	503.0	502.0	503.0	504.1
47.5°	*479.5*	477.5	478.5	478.5	480.5
50°	*451.9*	451.9	450.9	452.9	452.9
52.5°	*428.4*	425.3	426.4	425.3	427.4
55°	*398.8*	397.7	395.7	398.8	398.8
57.5°	*368.1*	369.1	371.1	369.1	372.2
60°	*340.5*	340.5	340.5	342.5	341.5
62.5°	*310.8*	308.8	310.8	311.8	310.8
65°	*281.2*	280.1	281.2	282.2	282.2
67.5°	*249.5*	249.5	251.5	251.5	253.6
70°	*220.8*	219.8	219.8	219.8	223.9
72.5°	*188.1*	189.2	190.2	191.2	192.2
75°	*158.5*	159.5	160.5	161.5	161.5
77.5°	*129.8*	129.8	129.8	131.9	131.9
80°	*101.2*	100.2	101.2	102.2	104.3
82.5°	*73.6*	72.6	73.6	74.6	74.6
85°	*45.0*	45.0	47.0	47.0	46.0
87.5°	*20.4*	19.4	21.5	21.5	20.4
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1590907
CATALOG NUMBER: 22CGTX-20-L93050-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	14.34	16.01	14.71	16.32	16.63	14.36	16.02	14.72	16.34	16.65
	3H	16.26	17.77	16.64	18.09	18.45	16.30	17.81	16.68	18.13	18.49
	4H	17.01	18.43	17.40	18.78	19.15	17.06	18.49	17.46	18.83	19.21
	6H	17.60	18.92	18.01	19.28	19.67	17.67	18.99	18.08	19.35	19.74
	8H	17.80	19.07	18.23	19.46	19.85	17.88	19.14	18.30	19.53	19.93
	12H	17.95	19.16	18.38	19.54	19.97	18.03	19.24	18.46	19.62	20.05
4H	2H	15.01	16.44	15.41	16.78	17.16	15.03	16.45	15.42	16.80	17.17
	3H	17.16	18.36	17.57	18.75	19.15	17.19	18.39	17.60	18.79	19.19
	4H	18.04	19.13	18.48	19.54	19.98	18.09	19.18	18.52	19.59	20.03
	6H	18.77	19.72	19.22	20.16	20.62	18.84	19.79	19.29	20.23	20.69
	8H	19.03	19.93	19.49	20.37	20.83	19.11	20.00	19.57	20.44	20.91
	12H	19.23	20.03	19.71	20.51	20.98	19.31	20.11	19.79	20.59	21.06
8H	4H	18.40	19.30	18.86	19.74	20.20	18.45	19.34	18.91	19.78	20.25
	6H	19.27	20.01	19.76	20.50	20.97	19.33	20.08	19.82	20.56	21.04
	8H	19.62	20.28	20.12	20.79	21.27	19.69	20.36	20.20	20.86	21.35
	12H	19.90	20.49	20.40	20.98	21.54	19.98	20.57	20.48	21.06	21.62
12H	4H	18.45	19.26	18.93	19.73	20.20	18.50	19.30	18.97	19.77	20.24
	6H	19.35	20.02	19.85	20.52	21.01	19.41	20.08	19.91	20.58	21.07
	8H	19.76	20.35	20.26	20.84	21.40	19.83	20.42	20.33	20.91	21.47

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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: SP1-2512-631-36-R2

Test Date: 02/05/2026

Luminaire Tested: 22CGTX-50-L93050-W2A-3500K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

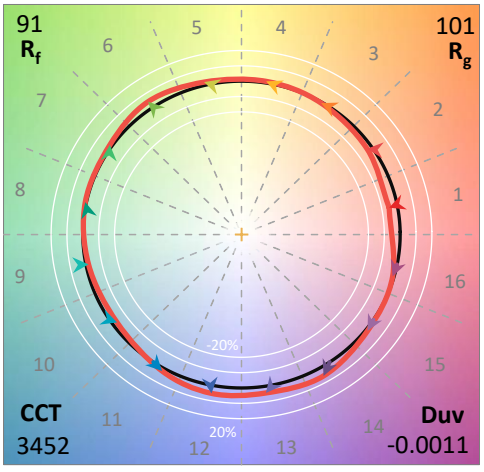
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-631-36-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-3500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-631-36-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 5000 LUMEN HE CGTX TUNABLE WHITE FROM 3000K TO 5000K - 7 Volt

Spectral Parameters

CCT (K):	3452
CIE u':	0.2375
CIE v':	0.5107
Duv:	-0.0011
CIE x:	0.4068
CIE y:	0.3888
CIE z:	0.2044
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	581
Purity:	38.79211
Rf:	91.1
Rg:	101.1

CRI (Ra):	93.4
R1:	95.1
R2:	95.5
R3:	94.7
R4:	94.6
R5:	94.4
R6:	94.6
R7:	93.0
R8:	84.9
R9:	61.5
R10:	88.0
R11:	95.0
R12:	80.7
R13:	95.0
R14:	96.1
R15:	91.3



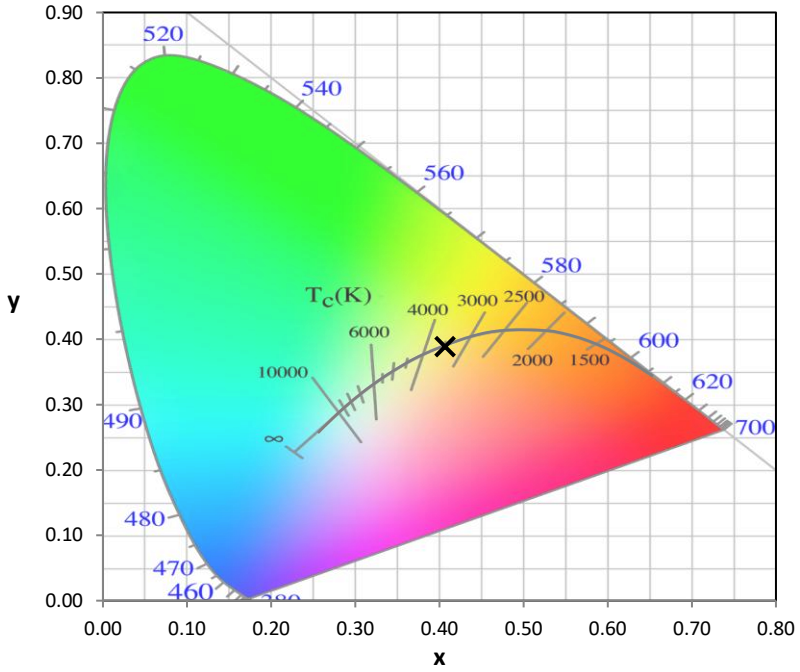
Test Conditions

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

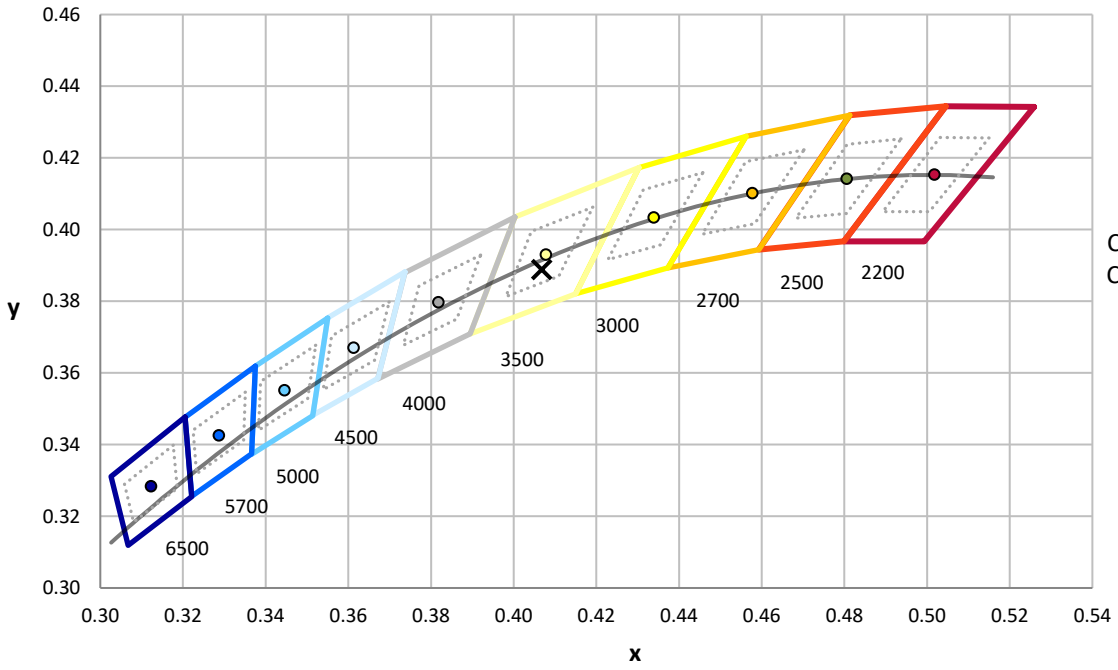
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2512-631-36-R2

CIE 1931 Chromaticity Diagram



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

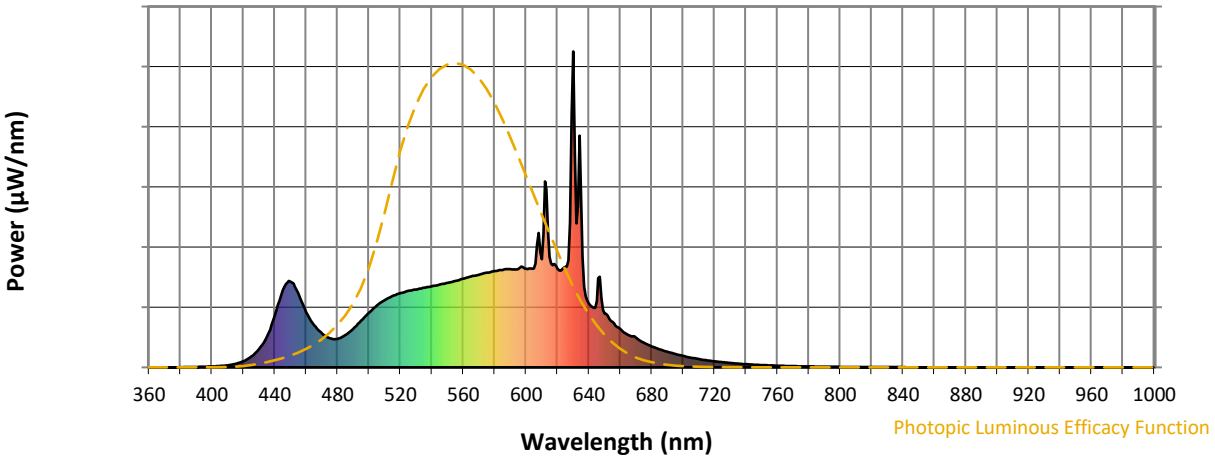


CCT = 3452K
CIE x = 0.4068
CIE y = 0.3888
Duv = -0.0011

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2512-631-36-R2

Photopic Flux vs. Wavelength

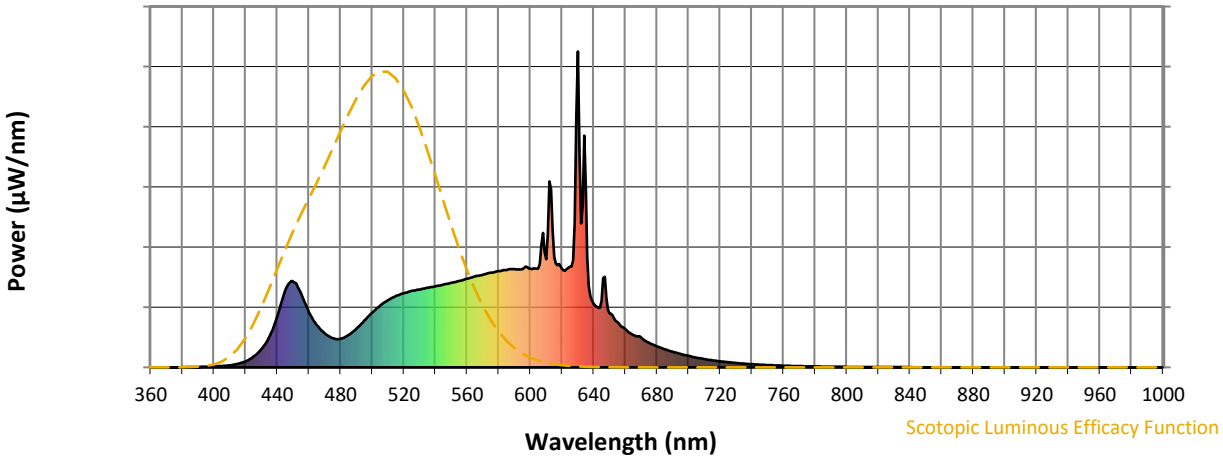


Photopic Lumens: NR

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	312	NR	750	7	NR	880	0	NR
365	0	NR	495	147	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	173	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	196	NR	635	559	NR	765	5	NR	895	0	NR
380	1	NR	510	213	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	226	NR	645	211	NR	775	3	NR	905	0	NR
390	2	NR	520	235	NR	650	171	NR	780	3	NR	910	0	NR
395	2	NR	525	242	NR	655	144	NR	785	2	NR	915	0	NR
400	3	NR	530	246	NR	660	122	NR	790	2	NR	920	0	NR
405	4	NR	535	252	NR	665	103	NR	795	2	NR	925	0	NR
410	7	NR	540	257	NR	670	94	NR	800	2	NR	930	0	NR
415	11	NR	545	263	NR	675	78	NR	805	1	NR	935	0	NR
420	19	NR	550	268	NR	680	66	NR	810	1	NR	940	0	NR
425	34	NR	555	273	NR	685	57	NR	815	1	NR	945	0	NR
430	58	NR	560	281	NR	690	49	NR	820	1	NR	950	0	NR
435	97	NR	565	288	NR	695	42	NR	825	1	NR	955	0	NR
440	163	NR	570	293	NR	700	36	NR	830	1	NR	960	0	NR
445	243	NR	575	300	NR	705	31	NR	835	1	NR	965	0	NR
450	272	NR	580	305	NR	710	26	NR	840	1	NR	970	0	NR
455	234	NR	585	308	NR	715	22	NR	845	0	NR	975	0	NR
460	175	NR	590	311	NR	720	19	NR	850	0	NR	980	0	NR
465	134	NR	595	311	NR	725	16	NR	855	0	NR	985	0	NR
470	107	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	92	NR	605	313	NR	735	12	NR	865	0	NR	995	0	NR
480	91	NR	610	343	NR	740	10	NR	870	0	NR	1000	0	NR
485	103	NR	615	349	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-36-R2

Scotopic Flux vs. Wavelength

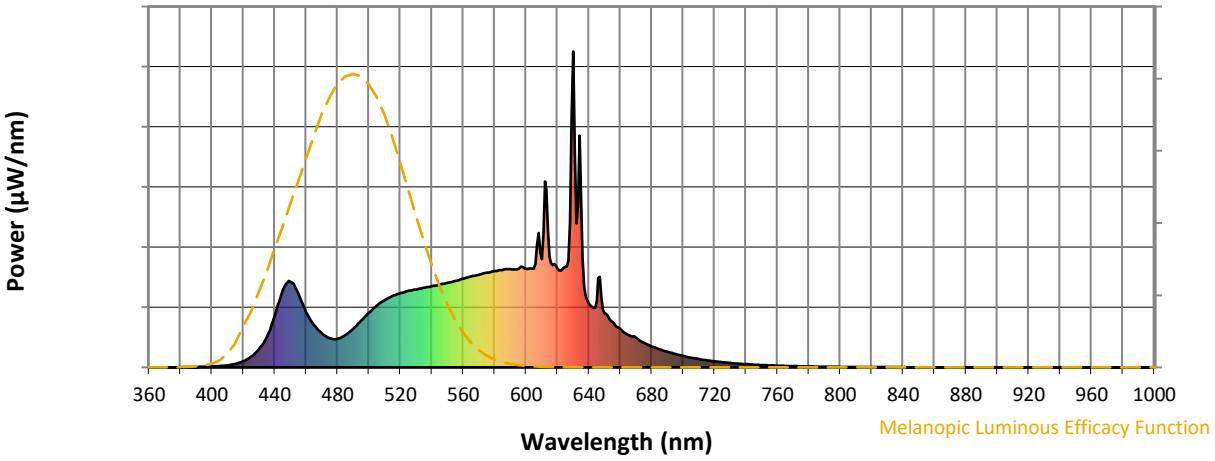


Scotopic Lumens: NR **S/P: 1.59**

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	312	NR	750	7	NR	880	0	NR
365	0	NR	495	147	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	173	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	196	NR	635	559	NR	765	5	NR	895	0	NR
380	1	NR	510	213	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	226	NR	645	211	NR	775	3	NR	905	0	NR
390	2	NR	520	235	NR	650	171	NR	780	3	NR	910	0	NR
395	2	NR	525	242	NR	655	144	NR	785	2	NR	915	0	NR
400	3	NR	530	246	NR	660	122	NR	790	2	NR	920	0	NR
405	4	NR	535	252	NR	665	103	NR	795	2	NR	925	0	NR
410	7	NR	540	257	NR	670	94	NR	800	2	NR	930	0	NR
415	11	NR	545	263	NR	675	78	NR	805	1	NR	935	0	NR
420	19	NR	550	268	NR	680	66	NR	810	1	NR	940	0	NR
425	34	NR	555	273	NR	685	57	NR	815	1	NR	945	0	NR
430	58	NR	560	281	NR	690	49	NR	820	1	NR	950	0	NR
435	97	NR	565	288	NR	695	42	NR	825	1	NR	955	0	NR
440	163	NR	570	293	NR	700	36	NR	830	1	NR	960	0	NR
445	243	NR	575	300	NR	705	31	NR	835	1	NR	965	0	NR
450	272	NR	580	305	NR	710	26	NR	840	1	NR	970	0	NR
455	234	NR	585	308	NR	715	22	NR	845	0	NR	975	0	NR
460	175	NR	590	311	NR	720	19	NR	850	0	NR	980	0	NR
465	134	NR	595	311	NR	725	16	NR	855	0	NR	985	0	NR
470	107	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	92	NR	605	313	NR	735	12	NR	865	0	NR	995	0	NR
480	91	NR	610	343	NR	740	10	NR	870	0	NR	1000	0	NR
485	103	NR	615	349	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.18**

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	312	NR	750	7	NR	880	0	NR
365	0	NR	495	147	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	173	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	196	NR	635	559	NR	765	5	NR	895	0	NR
380	1	NR	510	213	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	226	NR	645	211	NR	775	3	NR	905	0	NR
390	2	NR	520	235	NR	650	171	NR	780	3	NR	910	0	NR
395	2	NR	525	242	NR	655	144	NR	785	2	NR	915	0	NR
400	3	NR	530	246	NR	660	122	NR	790	2	NR	920	0	NR
405	4	NR	535	252	NR	665	103	NR	795	2	NR	925	0	NR
410	7	NR	540	257	NR	670	94	NR	800	2	NR	930	0	NR
415	11	NR	545	263	NR	675	78	NR	805	1	NR	935	0	NR
420	19	NR	550	268	NR	680	66	NR	810	1	NR	940	0	NR
425	34	NR	555	273	NR	685	57	NR	815	1	NR	945	0	NR
430	58	NR	560	281	NR	690	49	NR	820	1	NR	950	0	NR
435	97	NR	565	288	NR	695	42	NR	825	1	NR	955	0	NR
440	163	NR	570	293	NR	700	36	NR	830	1	NR	960	0	NR
445	243	NR	575	300	NR	705	31	NR	835	1	NR	965	0	NR
450	272	NR	580	305	NR	710	26	NR	840	1	NR	970	0	NR
455	234	NR	585	308	NR	715	22	NR	845	0	NR	975	0	NR
460	175	NR	590	311	NR	720	19	NR	850	0	NR	980	0	NR
465	134	NR	595	311	NR	725	16	NR	855	0	NR	985	0	NR
470	107	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	92	NR	605	313	NR	735	12	NR	865	0	NR	995	0	NR
480	91	NR	610	343	NR	740	10	NR	870	0	NR	1000	0	NR
485	103	NR	615	349	NR	745	9	NR	875	0	NR			

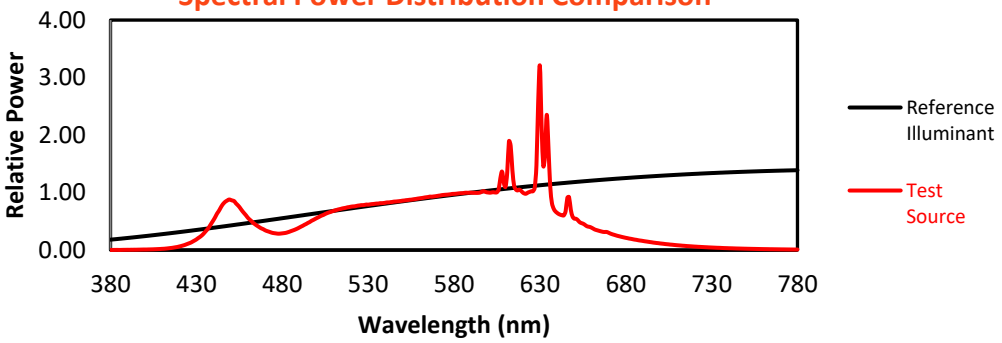
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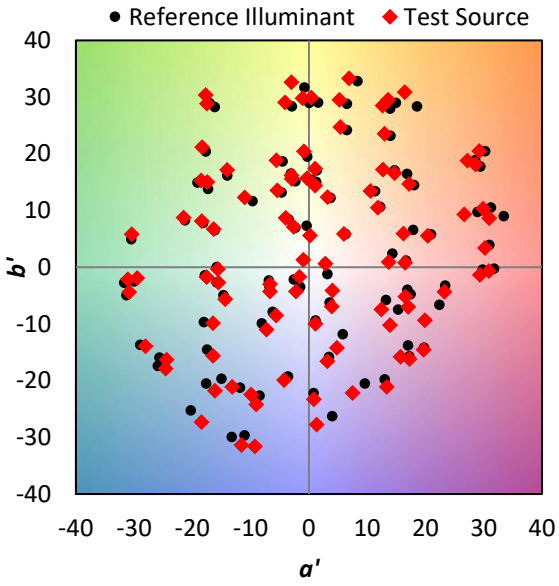
Summary

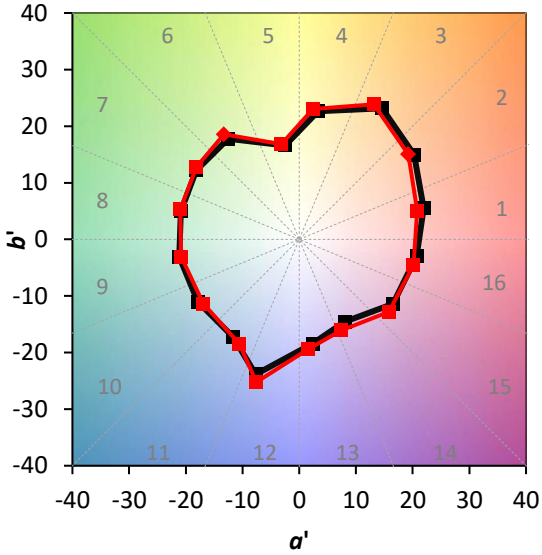
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R_g = 101.1
CIE R_a = 93.4
R_9 = 61.5

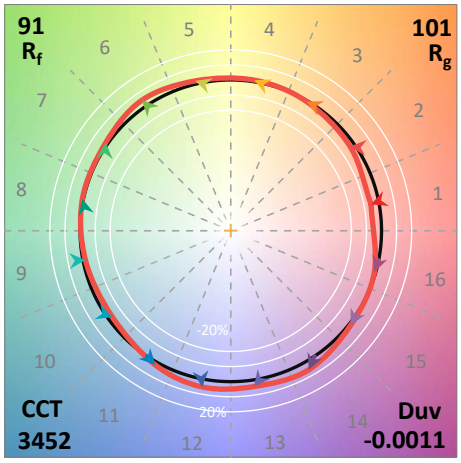
Spectral Power Distribution Comparison

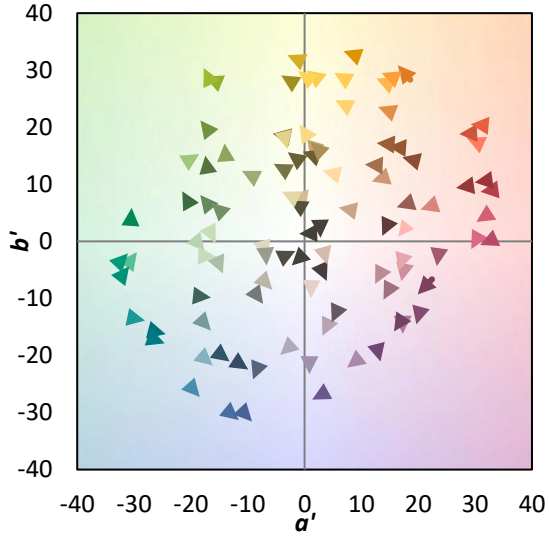


Color Vector Graphics







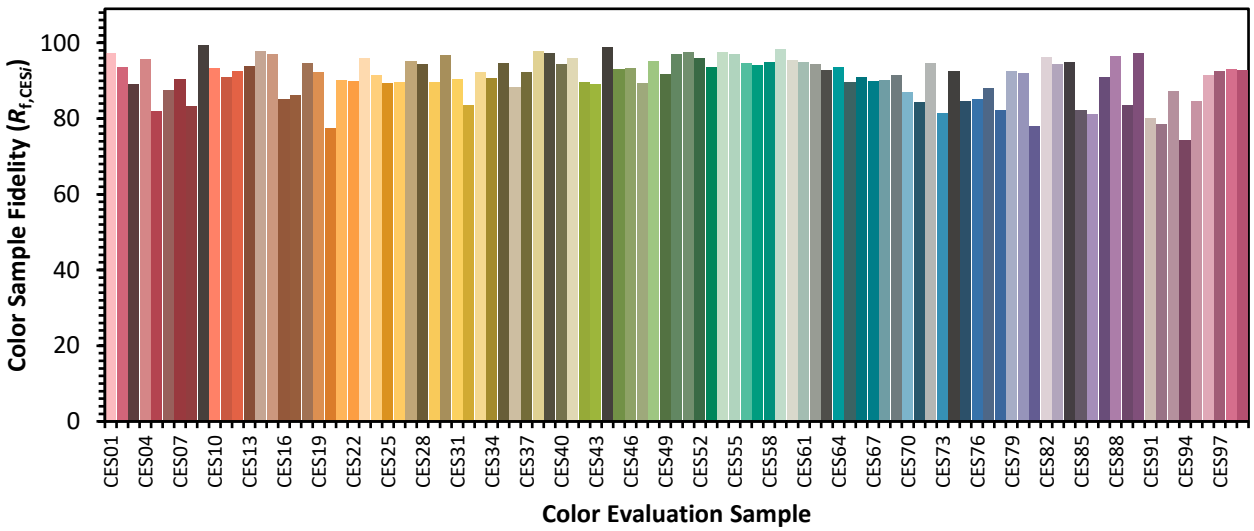


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Individual Sample Fidelity Index ($R_{f,i}$)

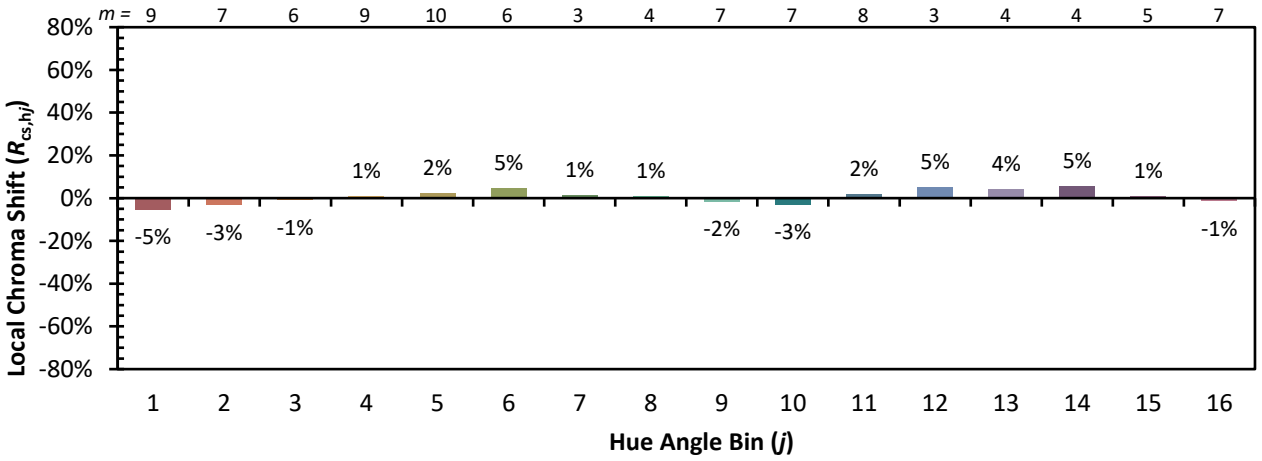
CES01 = 86	CES26 = 90	CES51 = 98	CES76 = 85
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 88
CES03 = 31	CES28 = 94	CES53 = 94	CES78 = 82
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 97	CES55 = 97	CES80 = 92
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 78
CES07 = 43	CES32 = 84	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 92	CES58 = 95	CES83 = 94
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 95	CES60 = 96	CES85 = 82
CES11 = 58	CES36 = 88	CES61 = 95	CES86 = 81
CES12 = 64	CES37 = 92	CES62 = 94	CES87 = 91
CES13 = 43	CES38 = 98	CES63 = 93	CES88 = 97
CES14 = 74	CES39 = 97	CES64 = 94	CES89 = 84
CES15 = 71	CES40 = 94	CES65 = 90	CES90 = 97
CES16 = 47	CES41 = 96	CES66 = 91	CES91 = 80
CES17 = 49	CES42 = 90	CES67 = 90	CES92 = 79
CES18 = 56	CES43 = 89	CES68 = 90	CES93 = 87
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 74
CES20 = 67	CES45 = 93	CES70 = 87	CES95 = 84
CES21 = 86	CES46 = 93	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 89	CES72 = 95	CES97 = 93
CES23 = 91	CES48 = 95	CES73 = 81	CES98 = 93
CES24 = 90	CES49 = 92	CES74 = 92	CES99 = 93
CES25 = 71	CES50 = 97	CES75 = 85	

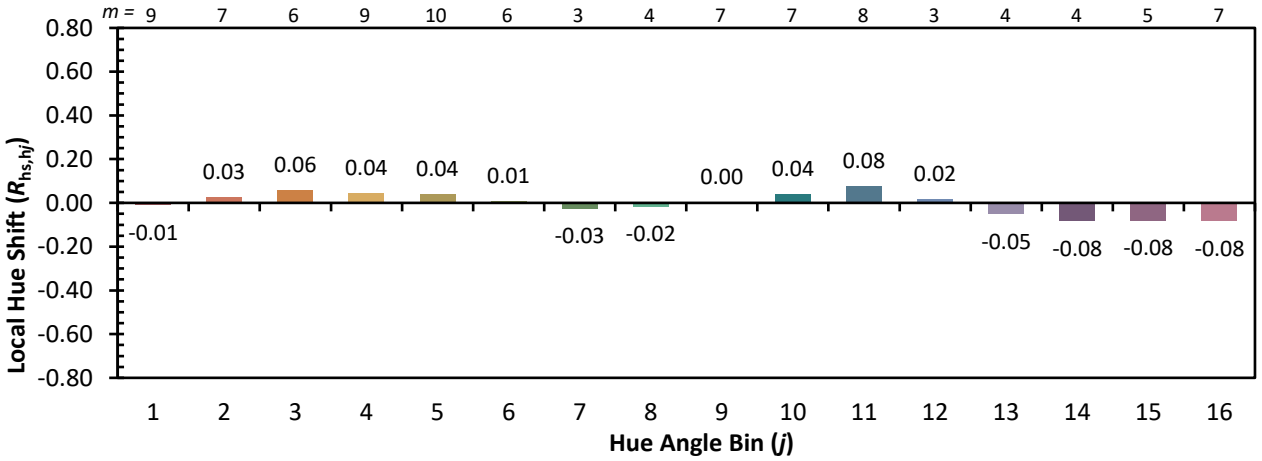


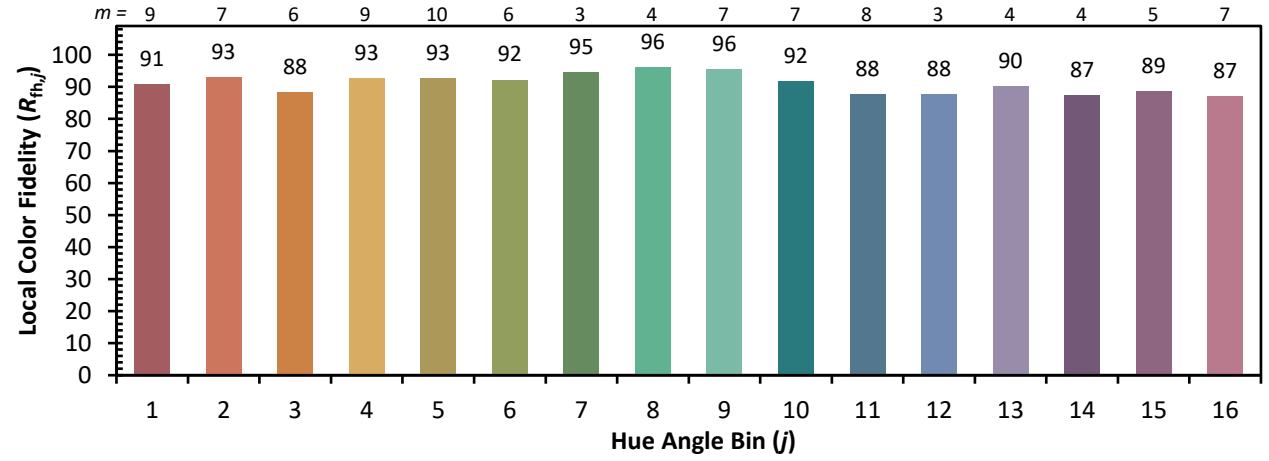
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Color Rendition by Hue-Angle Bin



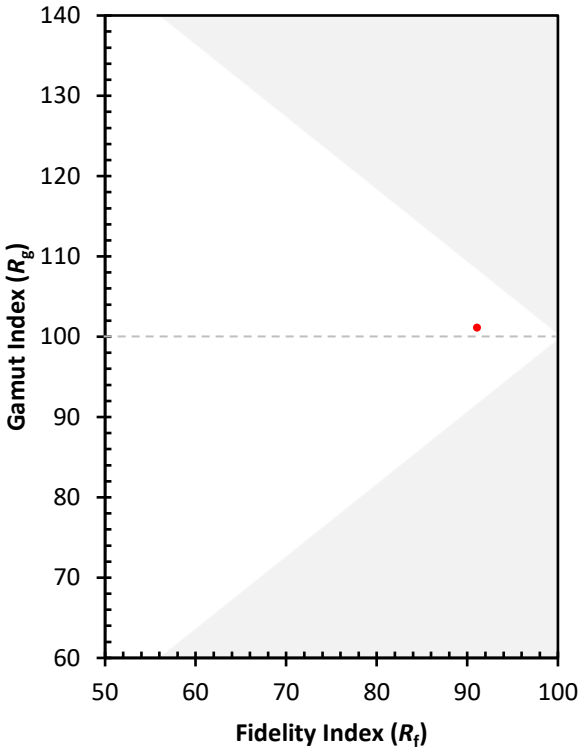


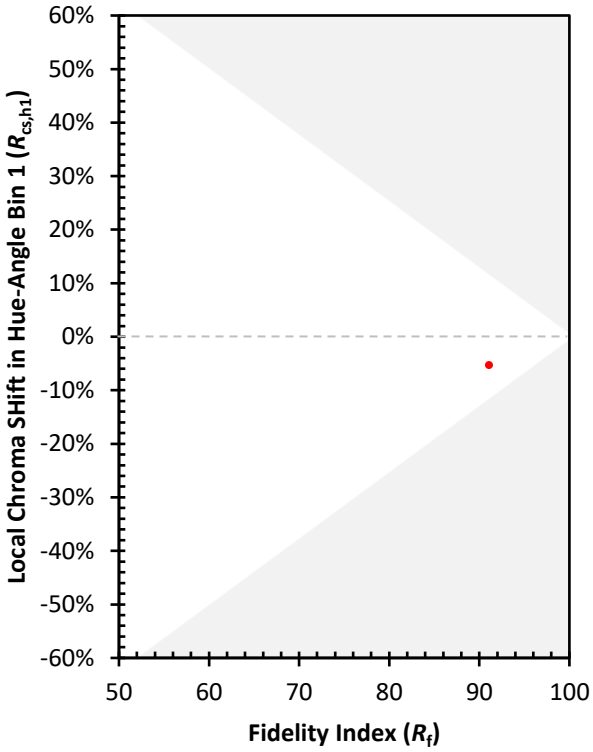


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Measure Comparisons





(END OF REPORT)