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: P1590912

Luminaire Tested: 22CGTX-25-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:	P1590912
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2512-631-2)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-25-L93050-W2A-3500K
Description:	2X2 2500 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:	2808.9 lumens
Efficiency:	N/A
Efficacy:	118.0 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	23.8
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

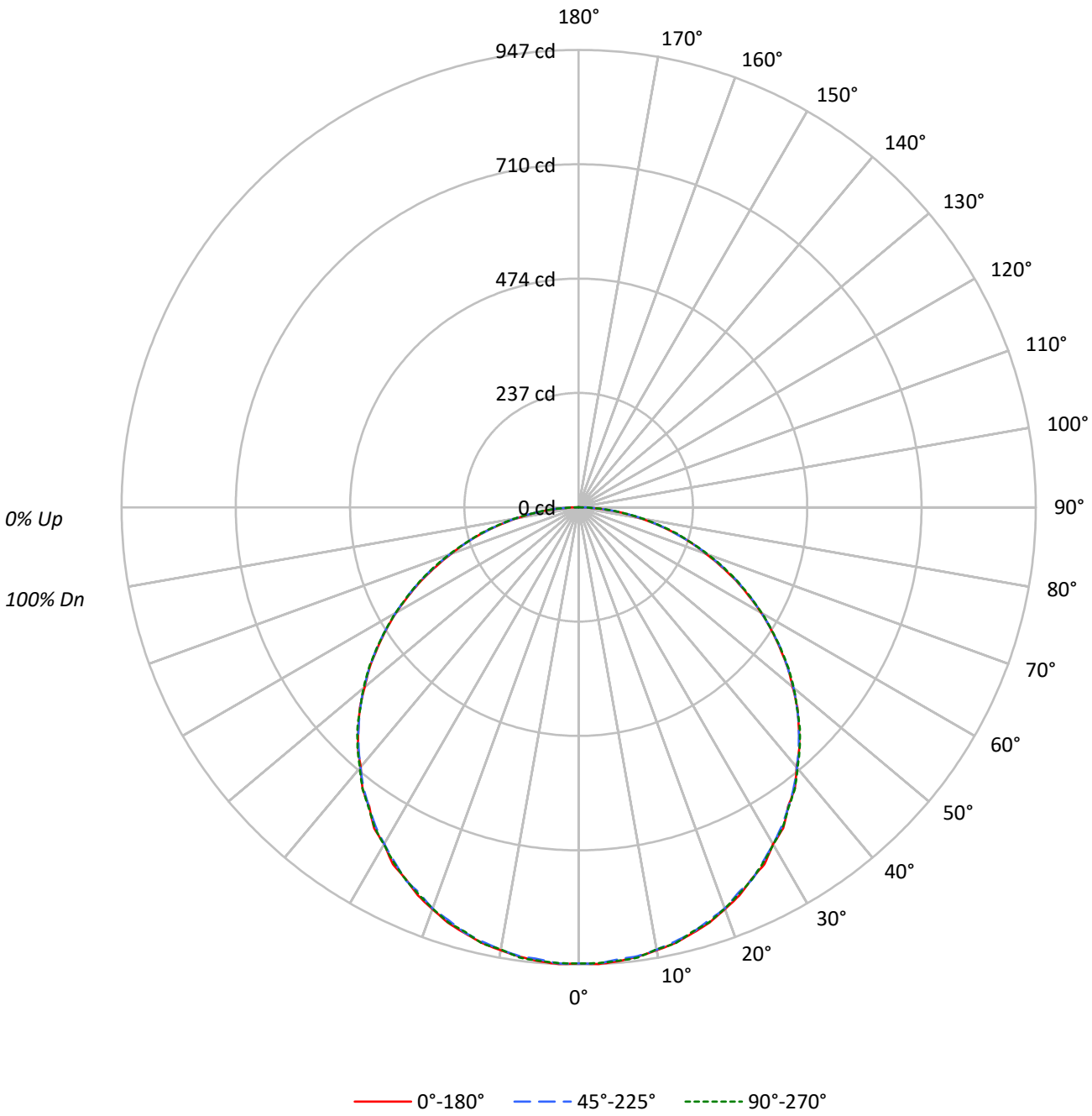


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Scaled Data Report

TEST NUMBER: P1590912
CATALOG NUMBER: 22CGTX-25-L93050-W2A-3500K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590912
CATALOG NUMBER: 22CGTX-25-L93050-W2A-3500K

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	41	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	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2542	2542	2542
5°	2549	2538	2546
10°	2545	2542	2539
15°	2544	2540	2535
20°	2536	2532	2532
25°	2519	2526	2523
30°	2503	2503	2506
35°	2485	2489	2492
40°	2467	2471	2478
45°	2455	2455	2467
50°	2422	2431	2435
55°	2388	2398	2398
60°	2349	2355	2361
65°	2292	2304	2311
70°	2204	2228	2236
75°	2137	2137	2190
80°	1996	2044	2091
85°	1800	1831	1862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 2467 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590912
CATALOG NUMBER: 22CGTX-25-L93050-W2A-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	3.2
10°-20°	257.3	9.2
20°-30°	391.2	13.9
30°-40°	474.8	16.9
40°-50°	497.7	17.7
50°-60°	456.3	16.2
60°-70°	357.1	12.7
70°-80°	217.9	7.8
80°-90°	67.1	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°	738.0	26.3
0°-40°	1212.8	43.2
0°-60°	2166.8	77.1
0°-90°	2808.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	944	943	940	943	943	90
15°	913	912	912	910	910	258
25°	848	850	851	848	850	392
35°	756	758	758	758	759	475
45°	645	645	645	645	648	498
55°	509	511	511	510	511	455
65°	360	360	362	362	363	355
75°	206	203	206	209	211	217
85°	58	58	59	60	60	66
90°	0	0	0	0	0	

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CATALOG NUMBER: 22CGTX-25-L93050-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*944.6*	944.6	944.6	944.6	944.6
2.5°	*946.7*	*946.7*	*945.7*	*942.6*	*944.6*
5°	*943.6*	942.6	939.5	942.6	942.6
7.5°	*938.5*	937.5	937.5	937.5	940.6
10°	*931.4*	932.4	930.3	929.3	929.3
12.5°	*924.2*	922.2	921.1	923.2	925.2
15°	*913.0*	911.9	911.9	909.9	909.9
17.5°	*901.7*	897.6	896.6	898.6	900.7
20°	*885.4*	884.3	884.3	882.3	884.3
22.5°	*870.0*	868.0	863.9	867.0	867.0
25°	*848.5*	849.6	850.6	847.5	849.6
27.5°	*833.2*	828.1	827.1	829.1	829.1
30°	*805.6*	806.6	805.6	804.6	806.6
32.5°	*788.2*	784.1	783.1	785.2	786.2
35°	*756.5*	757.6	757.6	757.6	758.6
37.5°	*735.1*	733.0	732.0	735.1	735.1
40°	*702.4*	703.4	703.4	703.4	705.4
42.5°	*676.8*	676.8	674.7	676.8	677.8
45°	*645.1*	645.1	645.1	645.1	648.2
47.5°	*614.4*	613.4	613.4	614.4	613.4
50°	*578.6*	579.7	580.7	580.7	581.7
52.5°	*545.9*	544.9	545.9	547.0	548.0
55°	*509.1*	511.2	511.2	510.2	511.2
57.5°	*473.3*	472.3	474.4	476.4	474.4
60°	*436.5*	437.6	437.6	436.5	438.6
62.5°	*397.7*	397.7	399.7	401.8	399.7
65°	*359.9*	359.9	361.9	361.9	362.9
67.5°	*319.0*	321.0	323.1	323.1	324.1
70°	*280.1*	281.1	283.2	284.2	284.2
72.5°	*244.3*	243.3	243.3	245.4	245.4
75°	*205.5*	203.4	205.5	208.6	210.6
77.5°	*166.6*	166.6	168.7	169.7	170.7
80°	*128.8*	129.8	131.9	131.9	134.9
82.5°	*93.0*	94.1	95.1	97.1	95.1
85°	*58.3*	58.3	59.3	60.3	60.3
87.5°	*25.6*	26.6	26.6	26.6	26.6
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 22CGTX-25-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	15.20	16.86	15.56	17.17	17.49	15.24	16.91	15.61	17.22	17.54
	3H	17.11	18.62	17.49	18.94	19.30	17.17	18.68	17.55	19.01	19.37
	4H	17.87	19.29	18.27	19.64	20.01	17.94	19.37	18.34	19.72	20.09
	6H	18.46	19.78	18.87	20.14	20.53	18.56	19.88	18.97	20.24	20.63
	8H	18.66	19.93	19.09	20.31	20.71	18.77	20.03	19.19	20.42	20.82
	12H	18.81	20.02	19.23	20.40	20.83	18.91	20.13	19.34	20.51	20.94
4H	2H	15.88	17.30	16.27	17.65	18.02	15.91	17.34	16.31	17.68	18.06
	3H	18.01	19.21	18.42	19.61	20.01	18.07	19.27	18.48	19.66	20.06
	4H	18.91	19.99	19.34	20.41	20.84	18.98	20.07	19.41	20.48	20.91
	6H	19.63	20.59	20.09	21.03	21.48	19.73	20.68	20.18	21.12	21.58
	8H	19.89	20.79	20.35	21.23	21.69	20.00	20.89	20.46	21.33	21.80
	12H	20.09	20.90	20.57	21.37	21.84	20.20	21.01	20.68	21.48	21.95
8H	4H	19.27	20.16	19.73	20.60	21.07	19.33	20.23	19.79	20.67	21.13
	6H	20.14	20.88	20.63	21.37	21.85	20.23	20.97	20.72	21.46	21.93
	8H	20.49	21.15	20.99	21.66	22.14	20.58	21.25	21.09	21.76	22.24
	12H	20.77	21.36	21.27	21.85	22.41	20.87	21.47	21.38	21.96	22.52
12H	4H	19.32	20.12	19.80	20.60	21.07	19.38	20.19	19.86	20.66	21.13
	6H	20.22	20.89	20.73	21.40	21.88	20.30	20.97	20.81	21.48	21.96
	8H	20.63	21.22	21.14	21.71	22.27	20.73	21.32	21.23	21.81	22.37

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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

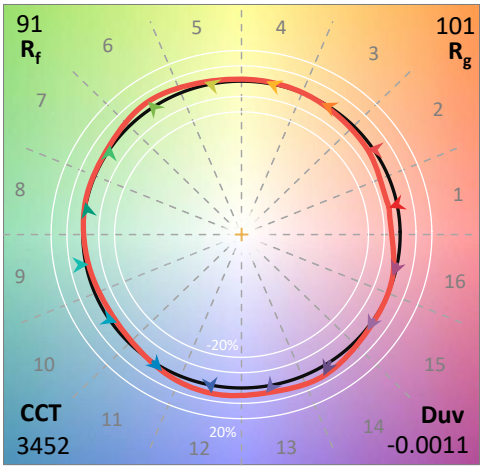
Test Information

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



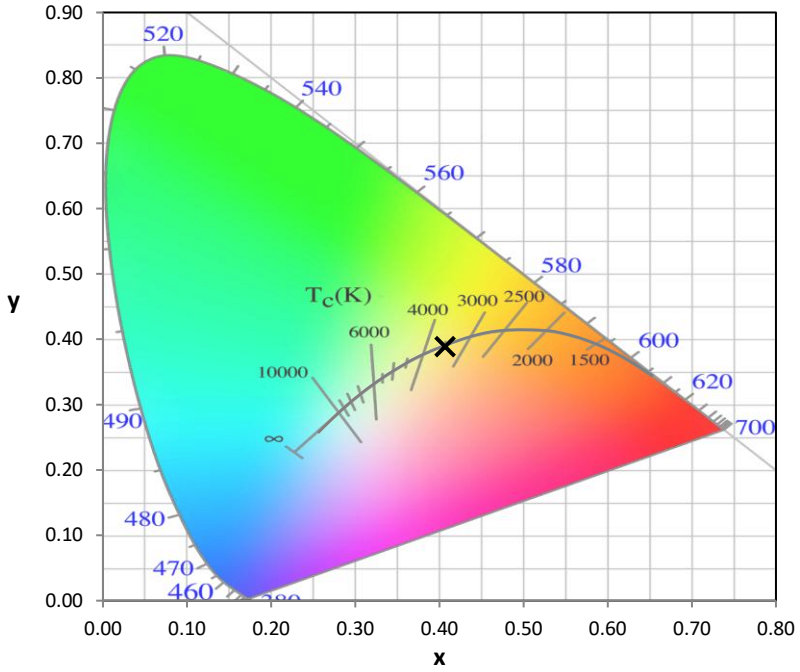
Test Conditions

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

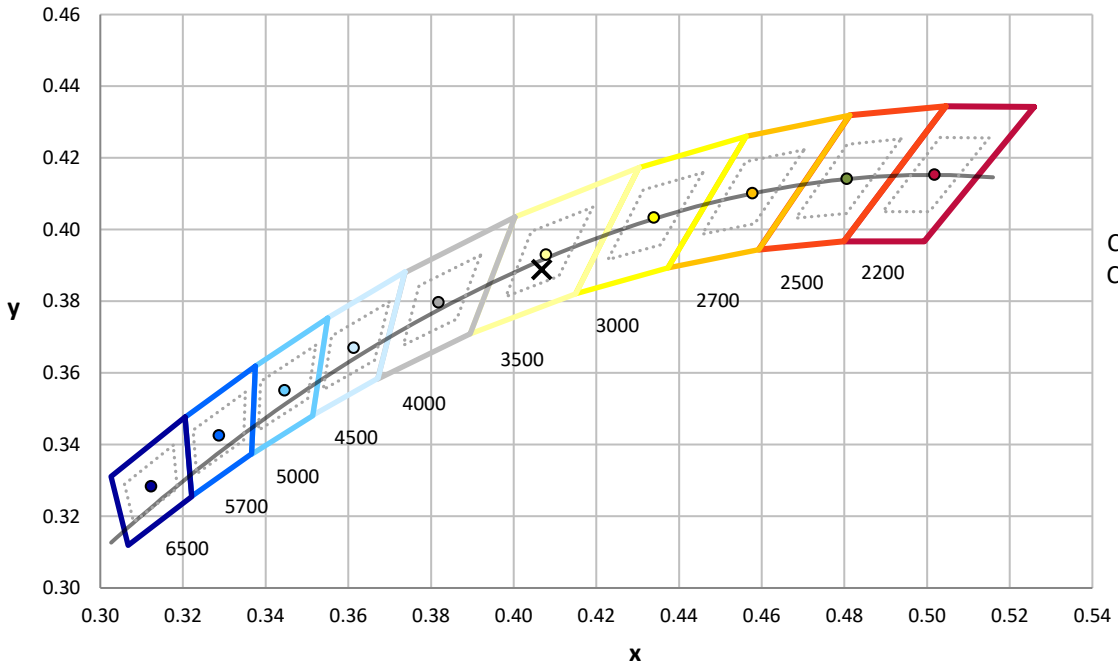
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

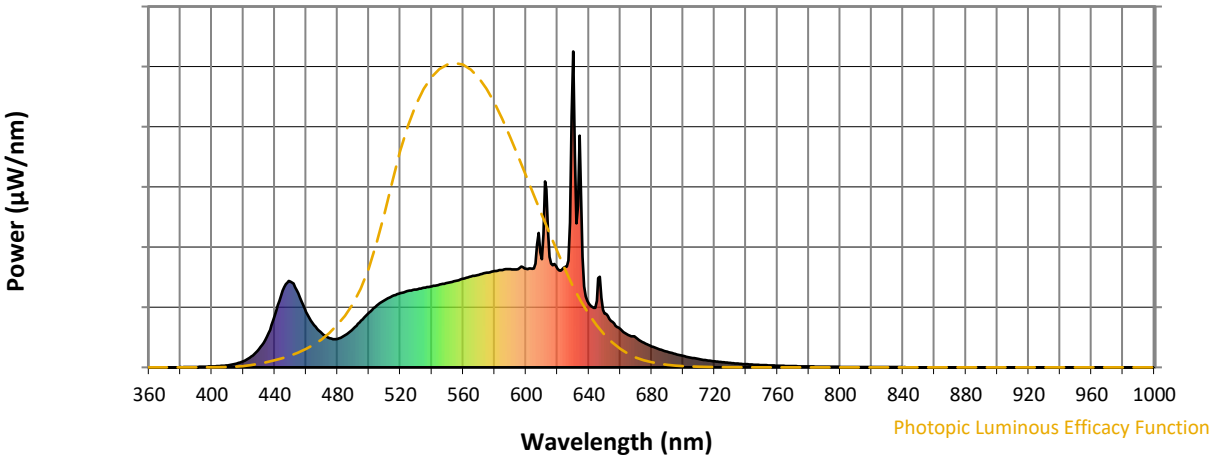


CCT = 3452K
CIE x = 0.4068
CIE y = 0.3888
Duv = -0.0011

Point lies inside the ANSI 3500K 4-step quadrangle

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

Photopic Flux vs. Wavelength

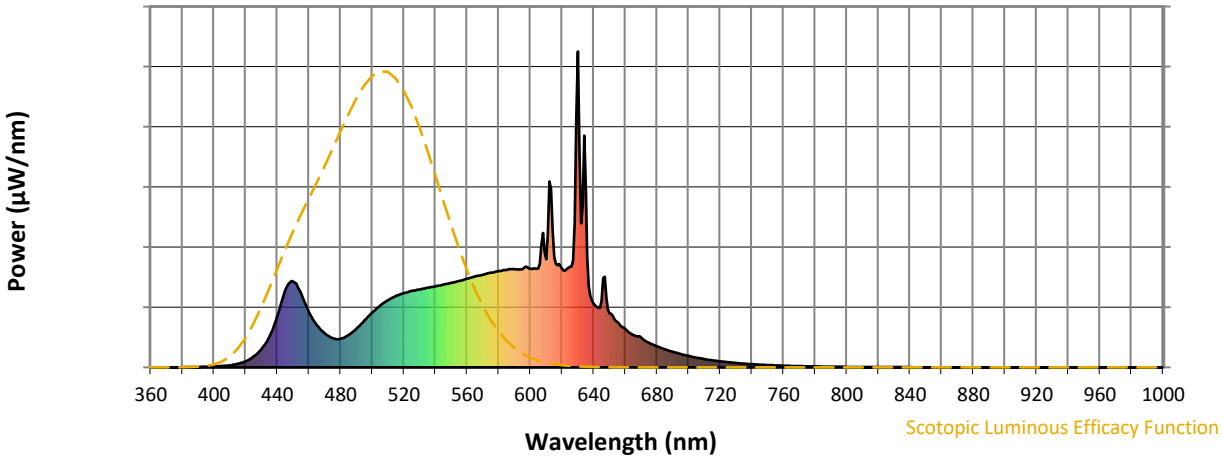


Photopic Lumens: NR

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

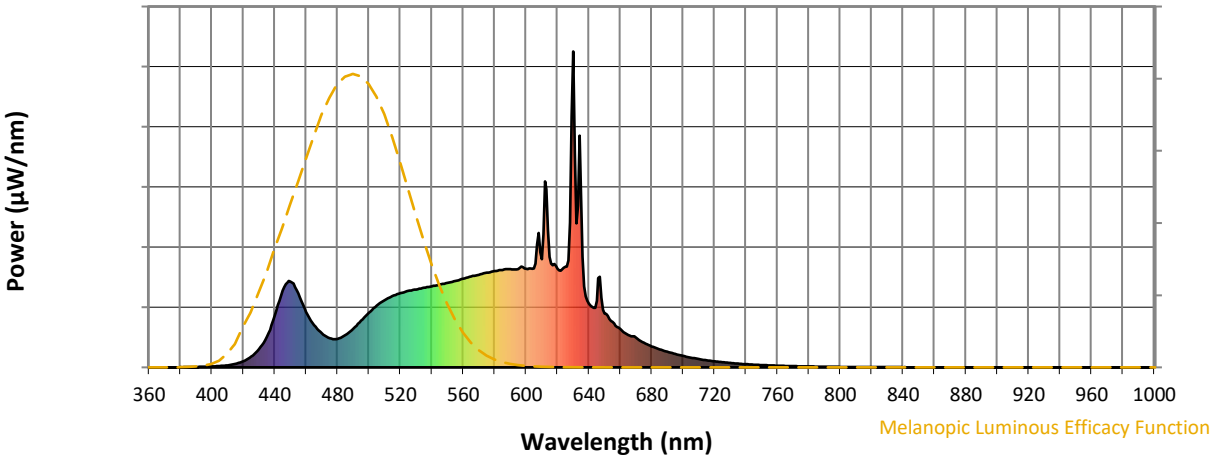


Scotopic Lumens: NR **S/P: 1.59**

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			

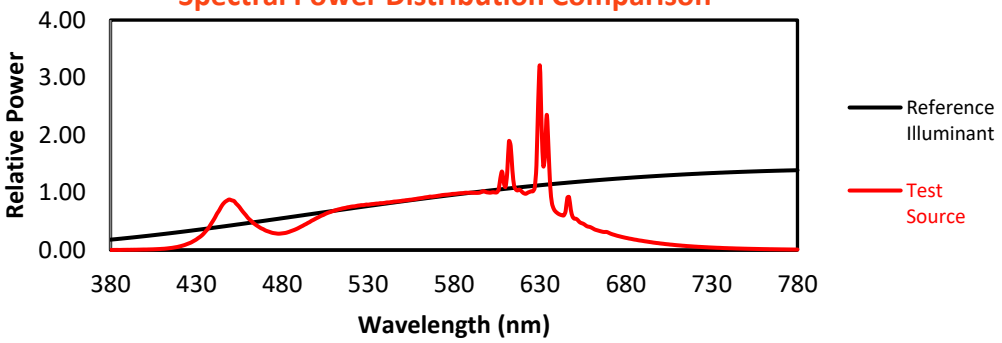
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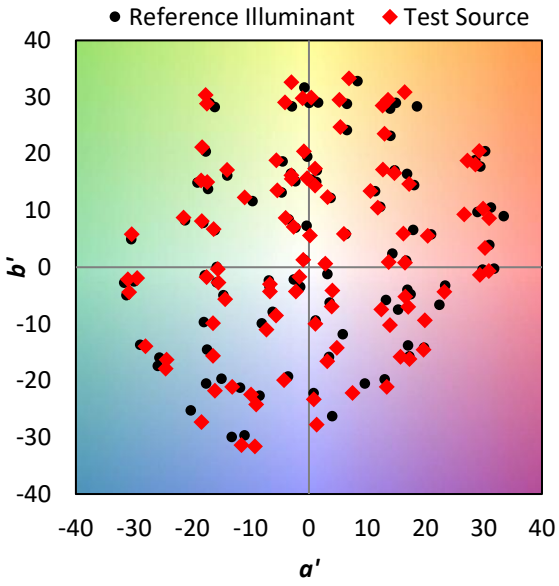
Summary

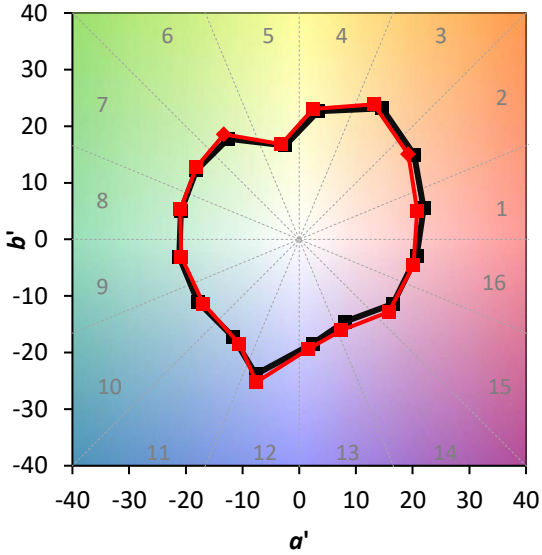
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R_g = 101.1
CIE R_a = 93.4
R_9 = 61.5

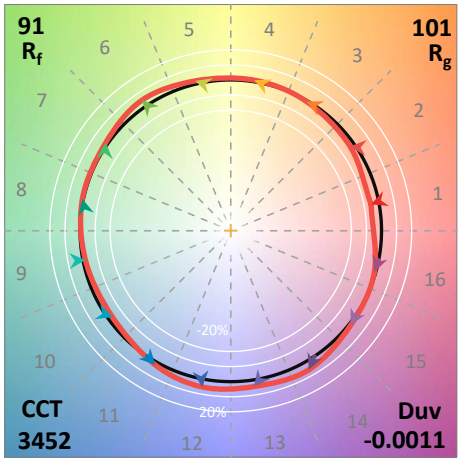
Spectral Power Distribution Comparison

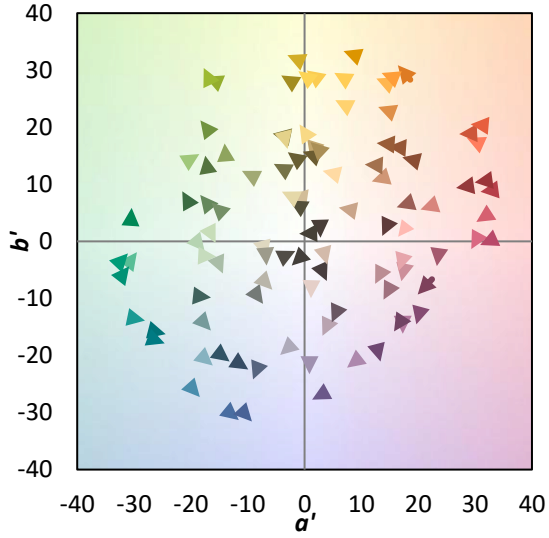


Color Vector Graphics







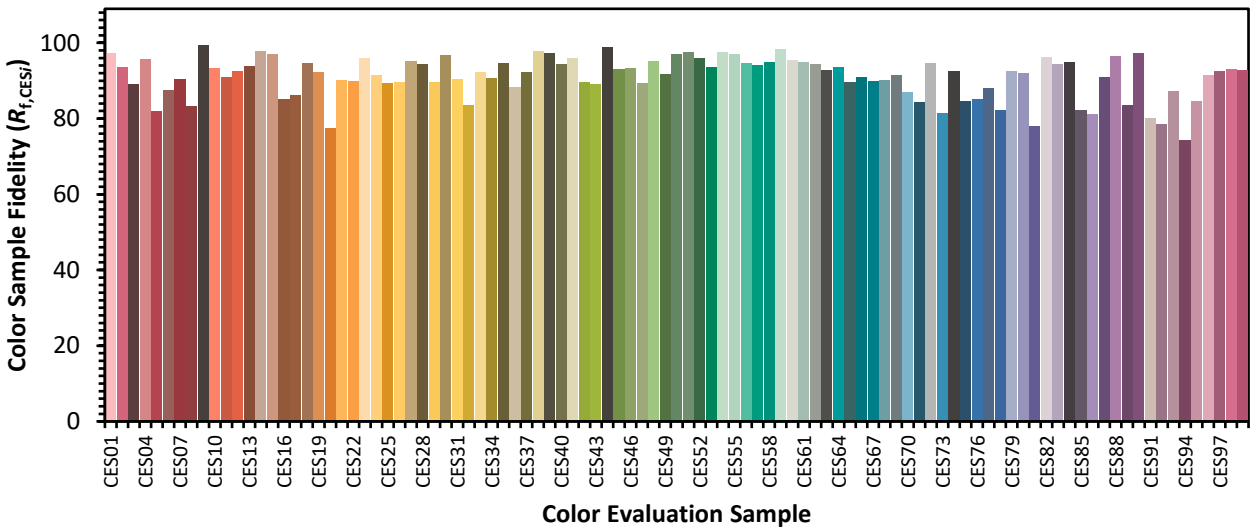


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Individual Sample Fidelity Index ($R_{f,i}$)

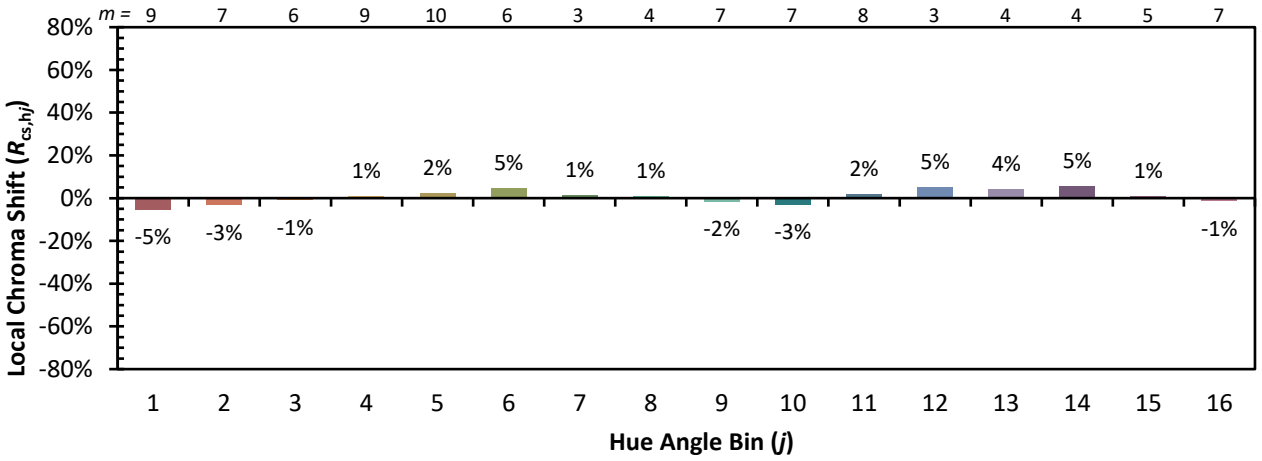
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 88
CES03 = 31	CES28 = 94	CES53 = 94	CES78 = 82
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 97	CES55 = 97	CES80 = 92
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 78
CES07 = 43	CES32 = 84	CES57 = 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	

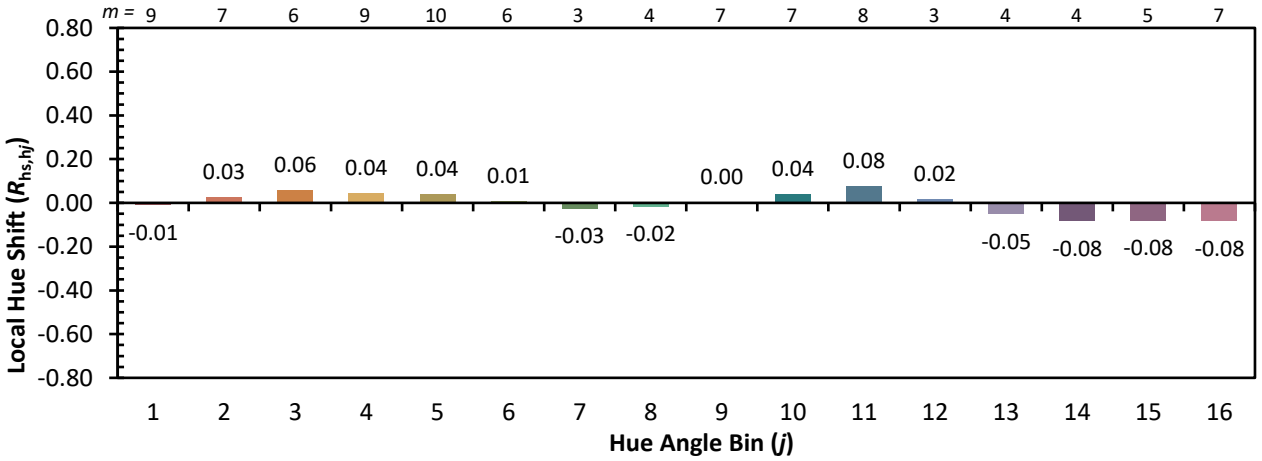


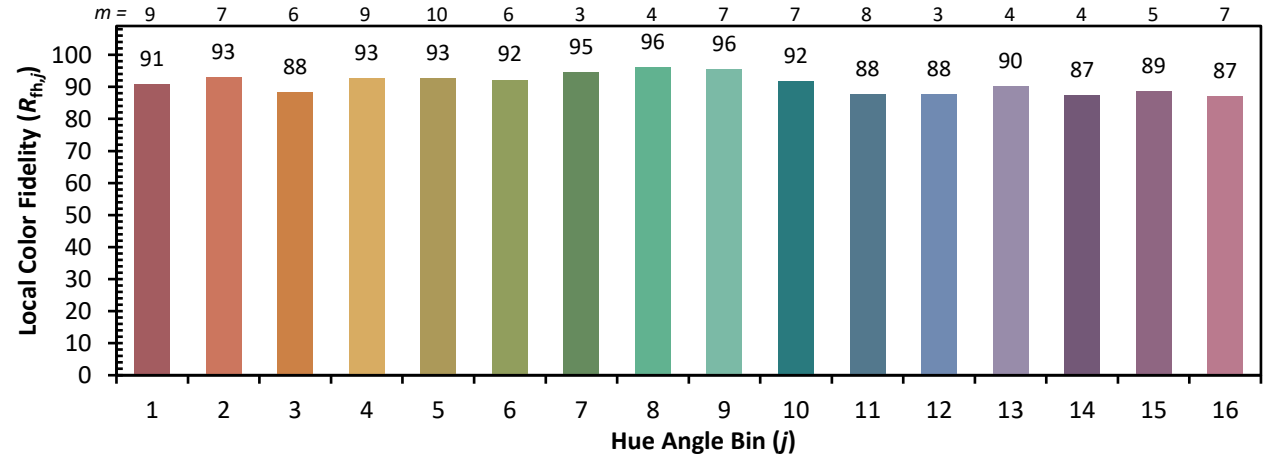
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Color Rendition by Hue-Angle Bin



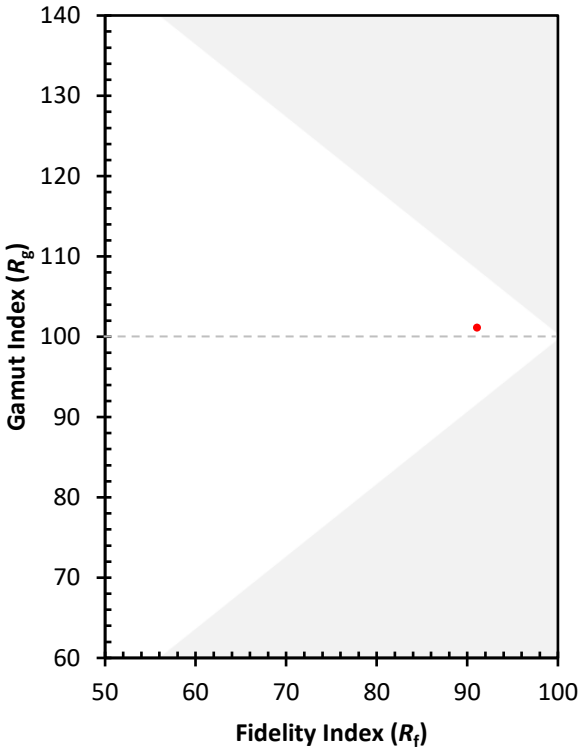


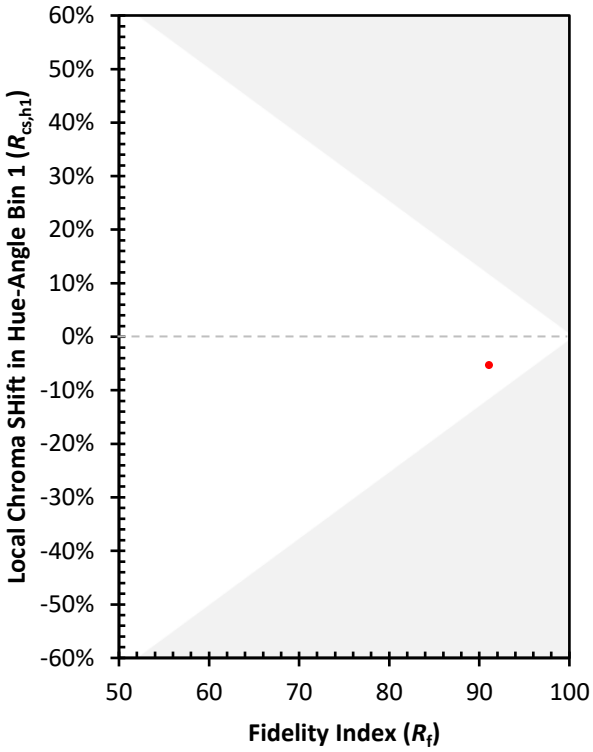


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Measure Comparisons





(END OF REPORT)