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: P1590911

Luminaire Tested: 22CGTX-25-L93050-W2A-3000K

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:	P1590911
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-25-L93050-W2A-3000K
Description:	2X2 2500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 3000K CCT
Light Source:	3000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2747.5 lumens
Efficiency:	N/A
Efficacy:	115.4 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 1.81' x L: 1.81' 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

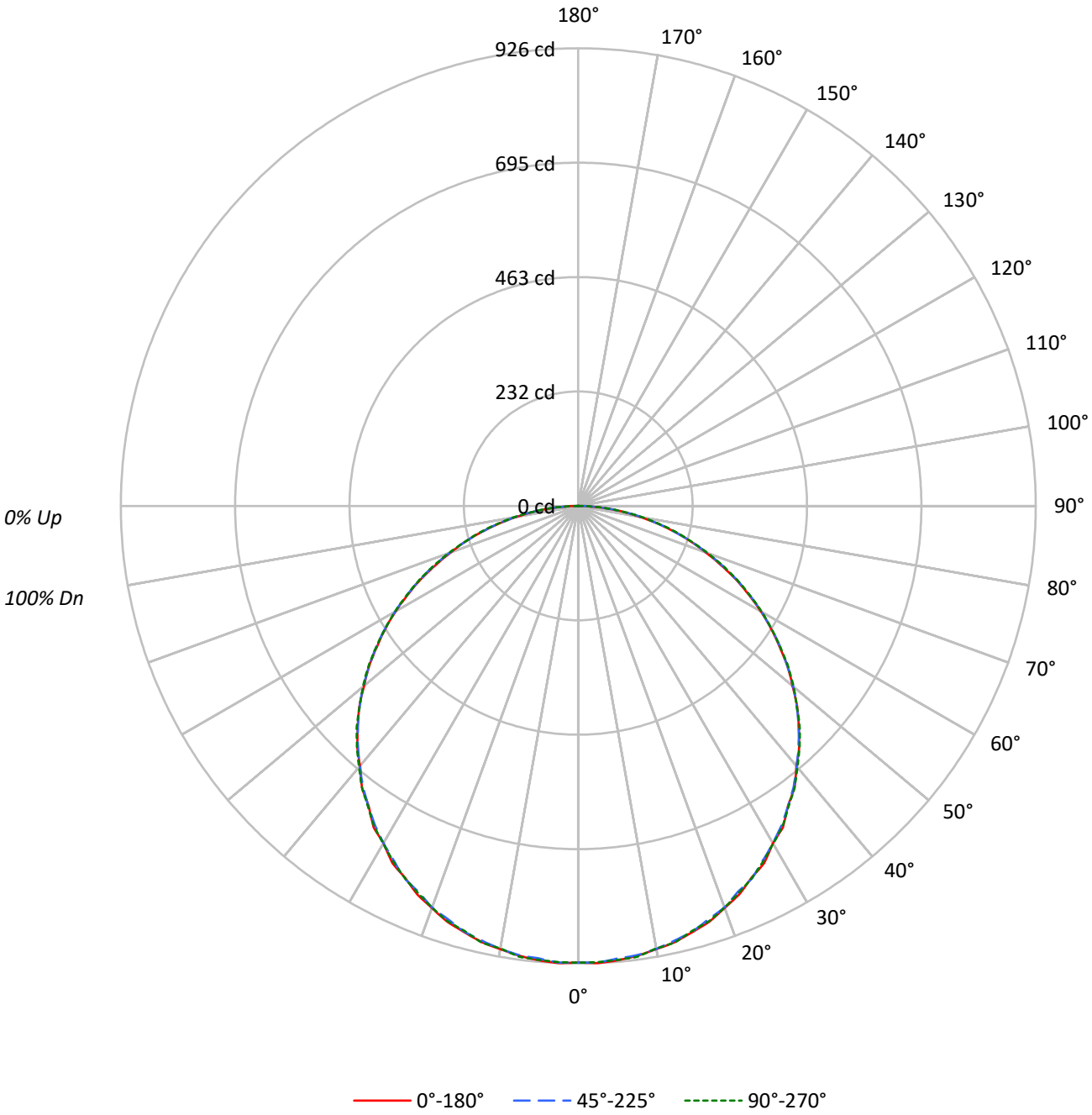


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Scaled Data Report

TEST NUMBER: P1590911
CATALOG NUMBER: 22CGTX-25-L93050-W2A-3000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590911
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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	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°	3028	3028	3028
5°	3036	3023	3033
10°	3031	3028	3024
15°	3029	3026	3019
20°	3020	3016	3016
25°	3001	3008	3004
30°	2981	2981	2985
35°	2960	2964	2968
40°	2938	2943	2951
45°	2924	2924	2938
50°	2885	2895	2900
55°	2845	2856	2856
60°	2798	2805	2811
65°	2729	2745	2752
70°	2625	2654	2663
75°	2545	2545	2608
80°	2377	2434	2491
85°	2143	2180	2218

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 2938 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590911
CATALOG NUMBER: 22CGTX-25-L93050-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.2
10°-20°	251.6	9.2
20°-30°	382.6	13.9
30°-40°	464.4	16.9
40°-50°	486.9	17.7
50°-60°	446.3	16.2
60°-70°	349.3	12.7
70°-80°	213.1	7.8
80°-90°	65.6	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°	721.9	26.3
0°-40°	1186.3	43.2
0°-60°	2119.5	77.1
0°-90°	2747.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	923	922	919	922	922	88
15°	893	892	892	890	890	252
25°	830	831	832	829	831	384
35°	740	741	741	741	742	465
45°	631	631	631	631	634	487
55°	498	500	500	499	500	445
65°	352	352	354	354	355	347
75°	201	199	201	204	206	212
85°	57	57	58	59	59	64
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1590911
CATALOG NUMBER: 22CGTX-25-L93050-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*924*	924	924	924	924
2.5°	*926*	*926*	*925*	*922*	*924*
5°	*923*	922	919	922	922
7.5°	*918*	917	917	917	920
10°	*911*	912	910	909	909
12.5°	*904*	902	901	903	905
15°	*893*	892	892	890	890
17.5°	*882*	878	877	879	881
20°	*866*	865	865	863	865
22.5°	*851*	849	845	848	848
25°	*830*	831	832	829	831
27.5°	*815*	810	809	811	811
30°	*788*	789	788	787	789
32.5°	*771*	767	766	768	769
35°	*740*	741	741	741	742
37.5°	*719*	717	716	719	719
40°	*687*	688	688	688	690
42.5°	*662*	662	660	662	663
45°	*631*	631	631	631	634
47.5°	*601*	600	600	601	600
50°	*566*	567	568	568	569
52.5°	*534*	533	534	535	536
55°	*498*	500	500	499	500
57.5°	*463*	462	464	466	464
60°	*427*	428	428	427	429
62.5°	*389*	389	391	393	391
65°	*352*	352	354	354	355
67.5°	*312*	314	316	316	317
70°	*274*	275	277	278	278
72.5°	*239*	238	238	240	240
75°	*201*	199	201	204	206
77.5°	*163*	163	165	166	167
80°	*126*	127	129	129	132
82.5°	*91*	92	93	95	93
85°	*57*	57	58	59	59
87.5°	*25*	26	26	26	26
90°	*0*	0	0	0	0

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TEST NUMBER: P1590911
CATALOG NUMBER: 22CGTX-25-L93050-W2A-3000K

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	15.80	17.47	16.17	17.78	18.10	15.85	17.52	16.22	17.83	18.14
	3H	17.72	19.23	18.09	19.55	19.91	17.78	19.29	18.16	19.61	19.97
	4H	18.48	19.90	18.87	20.25	20.62	18.55	19.98	18.95	20.32	20.70
	6H	19.07	20.39	19.48	20.75	21.14	19.16	20.48	19.57	20.85	21.24
	8H	19.27	20.53	19.69	20.92	21.32	19.37	20.64	19.80	21.03	21.42
	12H	19.41	20.63	19.84	21.01	21.44	19.52	20.73	19.95	21.12	21.54
4H	2H	16.48	17.91	16.88	18.25	18.63	16.52	17.94	16.92	18.29	18.67
	3H	18.62	19.82	19.03	20.22	20.62	18.67	19.87	19.08	20.27	20.67
	4H	19.51	20.60	19.94	21.01	21.45	19.59	20.67	20.02	21.09	21.52
	6H	20.24	21.20	20.70	21.64	22.09	20.34	21.29	20.79	21.73	22.18
	8H	20.50	21.40	20.96	21.84	22.30	20.61	21.50	21.07	21.94	22.40
	12H	20.70	21.50	21.18	21.98	22.45	20.81	21.61	21.29	22.09	22.56
8H	4H	19.88	20.77	20.34	21.21	21.68	19.94	20.83	20.40	21.28	21.74
	6H	20.75	21.49	21.24	21.98	22.45	20.83	21.58	21.32	22.06	22.54
	8H	21.09	21.76	21.60	22.27	22.75	21.19	21.86	21.70	22.36	22.85
	12H	21.37	21.97	21.88	22.46	23.02	21.48	22.07	21.99	22.56	23.12
12H	4H	19.93	20.73	20.41	21.21	21.67	19.99	20.79	20.47	21.27	21.74
	6H	20.83	21.50	21.33	22.00	22.49	20.91	21.58	21.42	22.08	22.57
	8H	21.24	21.83	21.74	22.32	22.88	21.33	21.93	21.84	22.42	22.97

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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: SP1-2512-631-41-R2

Test Date: 02/05/2026

Luminaire Tested: 22CGTX-50-L93050-W2A-3000K

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

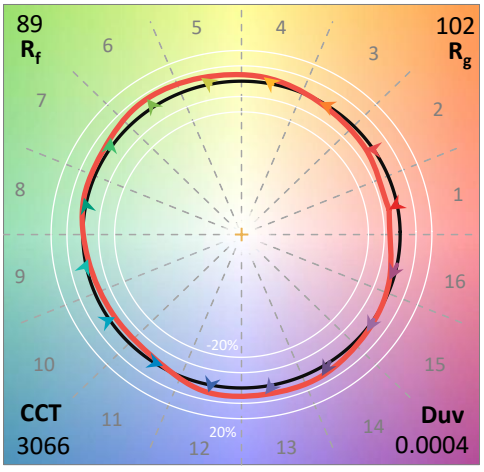
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-631-41-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-3000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-631-41-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 5000 LUMEN HE CGTX TUNABLE WHITE FROM 3000K TO 5000K - 9.5 Volt

Spectral Parameters

CCT (K):	3066	CRI (Ra):	91.7		
CIE u':	0.2482	R1:	93.0	R9:	52.5
CIE v':	0.5206	R2:	94.0	R10:	85.0
Duv:	0.0004	R3:	94.3	R11:	94.8
CIE x:	0.4328	R4:	93.4	R12:	82.8
CIE y:	0.4036	R5:	92.4	R13:	92.9
CIE z:	0.1636	R6:	94.1	R14:	95.7
Peak Wavelength (nm):	630	R7:	91.5	R15:	87.8
Dominant Wavelength (nm):	582	R8:	80.7		
Purity:	51.0461				
Rf:	89.5				
Rg:	102				



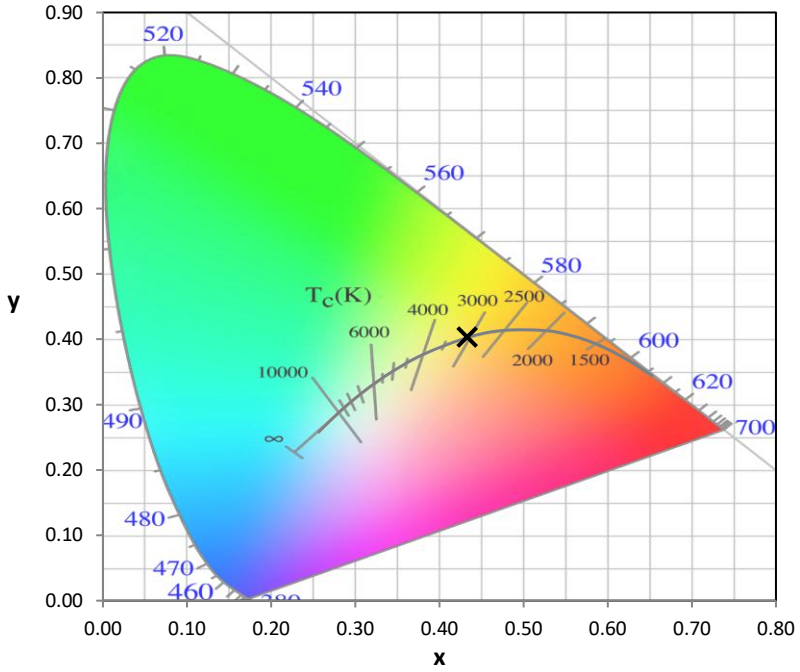
Test Conditions

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

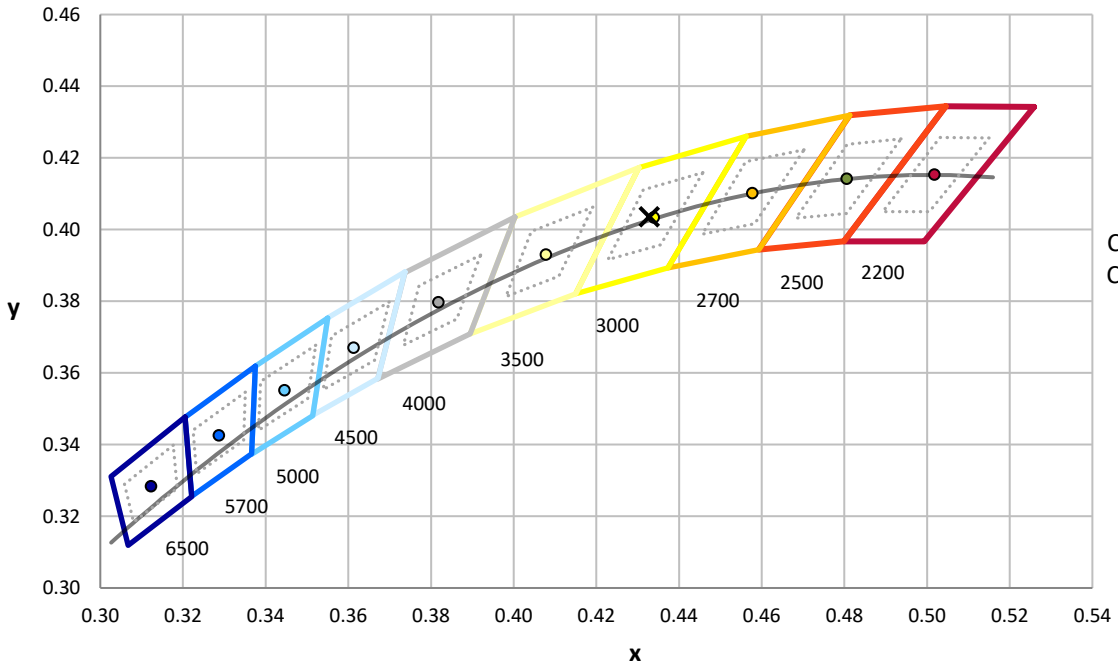
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2512-631-41-R2

CIE 1931 Chromaticity Diagram



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

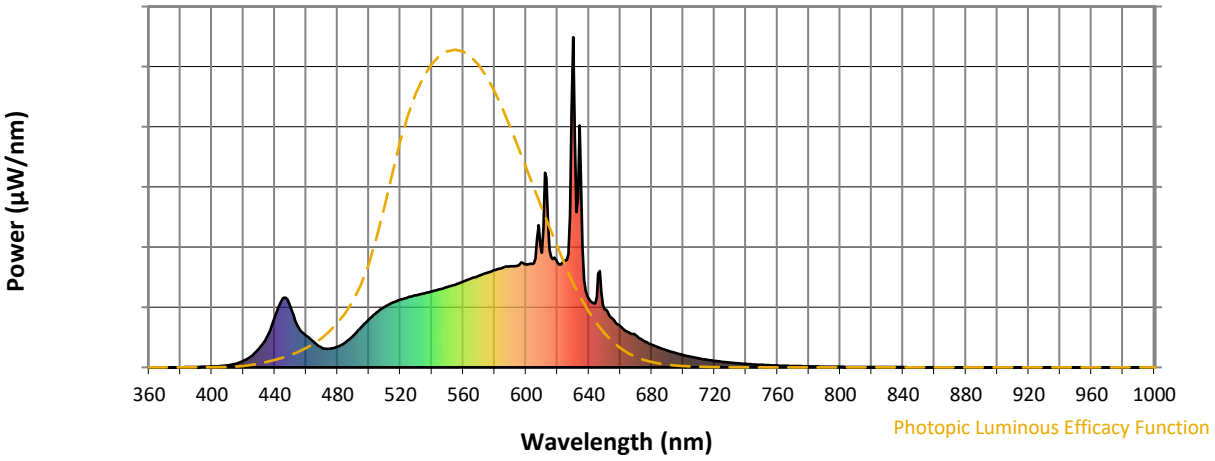


CCT = 3066K
CIE x = 0.4328
CIE y = 0.4036
Duv = 0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-631-41-R2

Photopic Flux vs. Wavelength

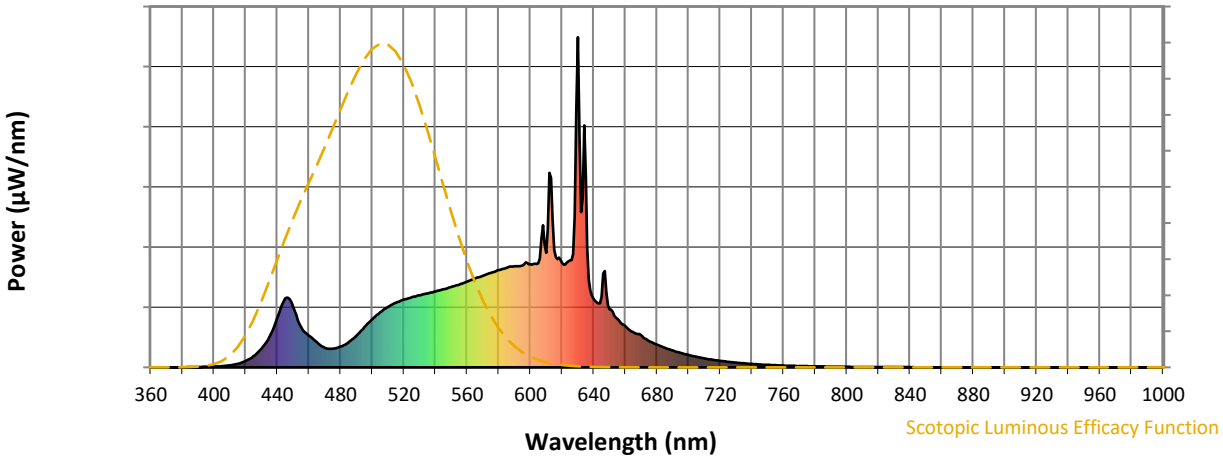


Photopic Lumens: NR

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	96	NR	620	317	NR	750	8	NR	880	0	NR
365	0	NR	495	121	NR	625	324	NR	755	7	NR	885	0	NR
370	0	NR	500	146	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	167	NR	635	572	NR	765	5	NR	895	0	NR
380	0	NR	510	183	NR	640	207	NR	770	4	NR	900	0	NR
385	1	NR	515	196	NR	645	215	NR	775	3	NR	905	0	NR
390	1	NR	520	205	NR	650	175	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	3	NR	915	0	NR
400	3	NR	530	218	NR	660	125	NR	790	2	NR	920	0	NR
405	4	NR	535	224	NR	665	106	NR	795	2	NR	925	0	NR
410	6	NR	540	230	NR	670	97	NR	800	2	NR	930	0	NR
415	11	NR	545	236	NR	675	80	NR	805	1	NR	935	0	NR
420	19	NR	550	244	NR	680	69	NR	810	1	NR	940	0	NR
425	34	NR	555	250	NR	685	59	NR	815	1	NR	945	0	NR
430	57	NR	560	260	NR	690	51	NR	820	1	NR	950	0	NR
435	92	NR	565	269	NR	695	44	NR	825	1	NR	955	0	NR
440	151	NR	570	277	NR	700	37	NR	830	1	NR	960	0	NR
445	208	NR	575	286	NR	705	32	NR	835	1	NR	965	0	NR
450	184	NR	580	294	NR	710	27	NR	840	1	NR	970	0	NR
455	122	NR	585	301	NR	715	23	NR	845	0	NR	975	0	NR
460	96	NR	590	307	NR	720	20	NR	850	0	NR	980	0	NR
465	76	NR	595	308	NR	725	17	NR	855	0	NR	985	0	NR
470	59	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	57	NR	605	315	NR	735	12	NR	865	0	NR	995	0	NR
480	63	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	76	NR	615	356	NR	745	9	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

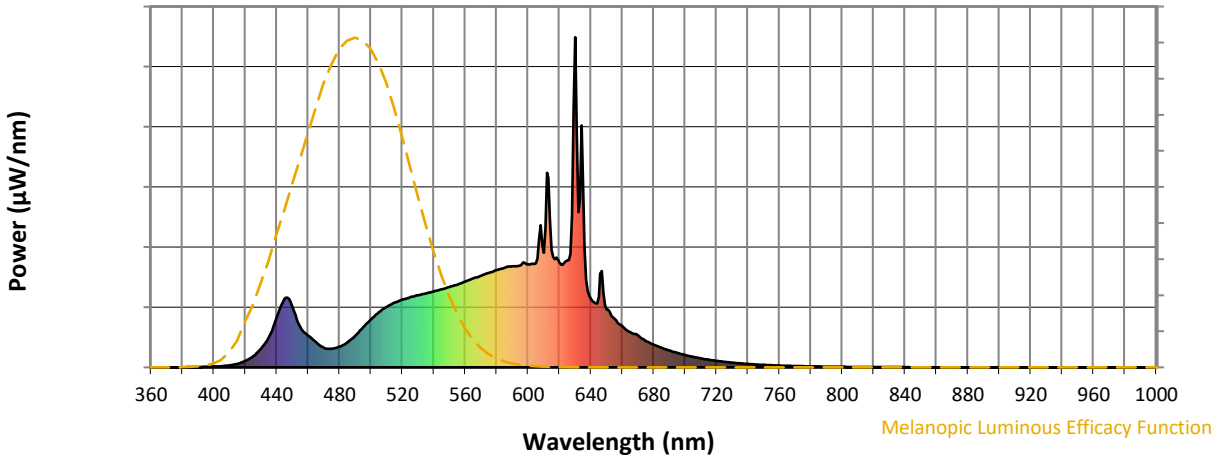


Scotopic Lumens: NR **S/P: 1.41**

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	96	NR	620	317	NR	750	8	NR	880	0	NR
365	0	NR	495	121	NR	625	324	NR	755	7	NR	885	0	NR
370	0	NR	500	146	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	167	NR	635	572	NR	765	5	NR	895	0	NR
380	0	NR	510	183	NR	640	207	NR	770	4	NR	900	0	NR
385	1	NR	515	196	NR	645	215	NR	775	3	NR	905	0	NR
390	1	NR	520	205	NR	650	175	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	3	NR	915	0	NR
400	3	NR	530	218	NR	660	125	NR	790	2	NR	920	0	NR
405	4	NR	535	224	NR	665	106	NR	795	2	NR	925	0	NR
410	6	NR	540	230	NR	670	97	NR	800	2	NR	930	0	NR
415	11	NR	545	236	NR	675	80	NR	805	1	NR	935	0	NR
420	19	NR	550	244	NR	680	69	NR	810	1	NR	940	0	NR
425	34	NR	555	250	NR	685	59	NR	815	1	NR	945	0	NR
430	57	NR	560	260	NR	690	51	NR	820	1	NR	950	0	NR
435	92	NR	565	269	NR	695	44	NR	825	1	NR	955	0	NR
440	151	NR	570	277	NR	700	37	NR	830	1	NR	960	0	NR
445	208	NR	575	286	NR	705	32	NR	835	1	NR	965	0	NR
450	184	NR	580	294	NR	710	27	NR	840	1	NR	970	0	NR
455	122	NR	585	301	NR	715	23	NR	845	0	NR	975	0	NR
460	96	NR	590	307	NR	720	20	NR	850	0	NR	980	0	NR
465	76	NR	595	308	NR	725	17	NR	855	0	NR	985	0	NR
470	59	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	57	NR	605	315	NR	735	12	NR	865	0	NR	995	0	NR
480	63	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	76	NR	615	356	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.7**

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	96	NR	620	317	NR	750	8	NR	880	0	NR
365	0	NR	495	121	NR	625	324	NR	755	7	NR	885	0	NR
370	0	NR	500	146	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	167	NR	635	572	NR	765	5	NR	895	0	NR
380	0	NR	510	183	NR	640	207	NR	770	4	NR	900	0	NR
385	1	NR	515	196	NR	645	215	NR	775	3	NR	905	0	NR
390	1	NR	520	205	NR	650	175	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	3	NR	915	0	NR
400	3	NR	530	218	NR	660	125	NR	790	2	NR	920	0	NR
405	4	NR	535	224	NR	665	106	NR	795	2	NR	925	0	NR
410	6	NR	540	230	NR	670	97	NR	800	2	NR	930	0	NR
415	11	NR	545	236	NR	675	80	NR	805	1	NR	935	0	NR
420	19	NR	550	244	NR	680	69	NR	810	1	NR	940	0	NR
425	34	NR	555	250	NR	685	59	NR	815	1	NR	945	0	NR
430	57	NR	560	260	NR	690	51	NR	820	1	NR	950	0	NR
435	92	NR	565	269	NR	695	44	NR	825	1	NR	955	0	NR
440	151	NR	570	277	NR	700	37	NR	830	1	NR	960	0	NR
445	208	NR	575	286	NR	705	32	NR	835	1	NR	965	0	NR
450	184	NR	580	294	NR	710	27	NR	840	1	NR	970	0	NR
455	122	NR	585	301	NR	715	23	NR	845	0	NR	975	0	NR
460	96	NR	590	307	NR	720	20	NR	850	0	NR	980	0	NR
465	76	NR	595	308	NR	725	17	NR	855	0	NR	985	0	NR
470	59	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	57	NR	605	315	NR	735	12	NR	865	0	NR	995	0	NR
480	63	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	76	NR	615	356	NR	745	9	NR	875	0	NR			

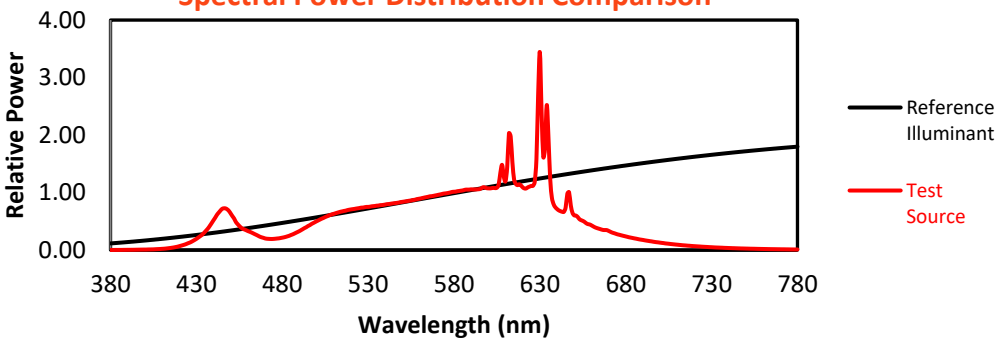
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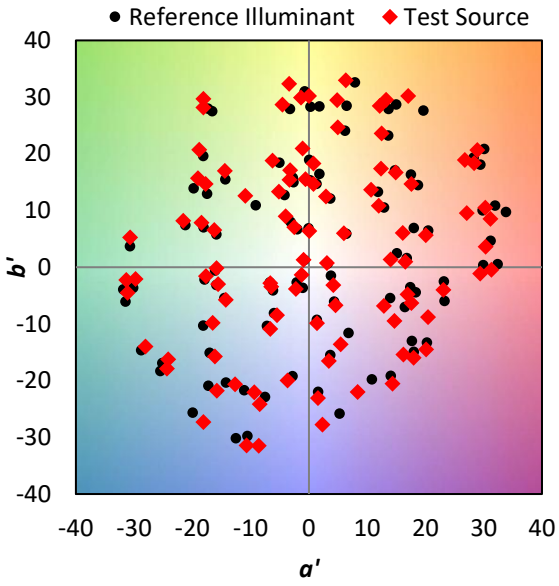
Summary

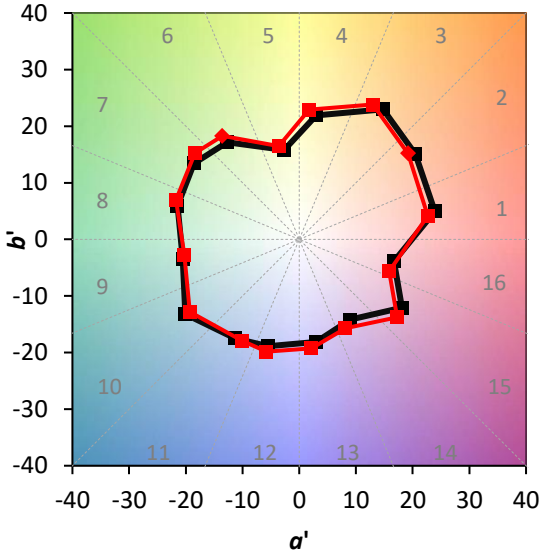
R_f = 89.5
R_g = 102
CIE R_a = 91.7
R_9 = 52.5

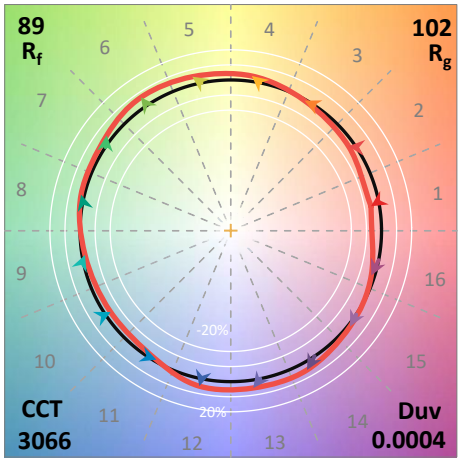
Spectral Power Distribution Comparison

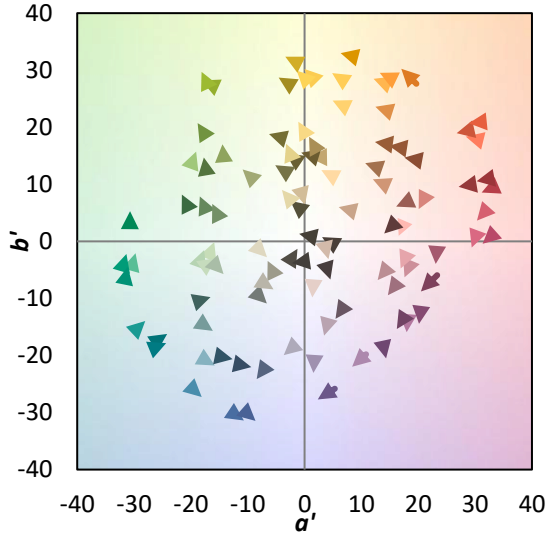


Color Vector Graphics







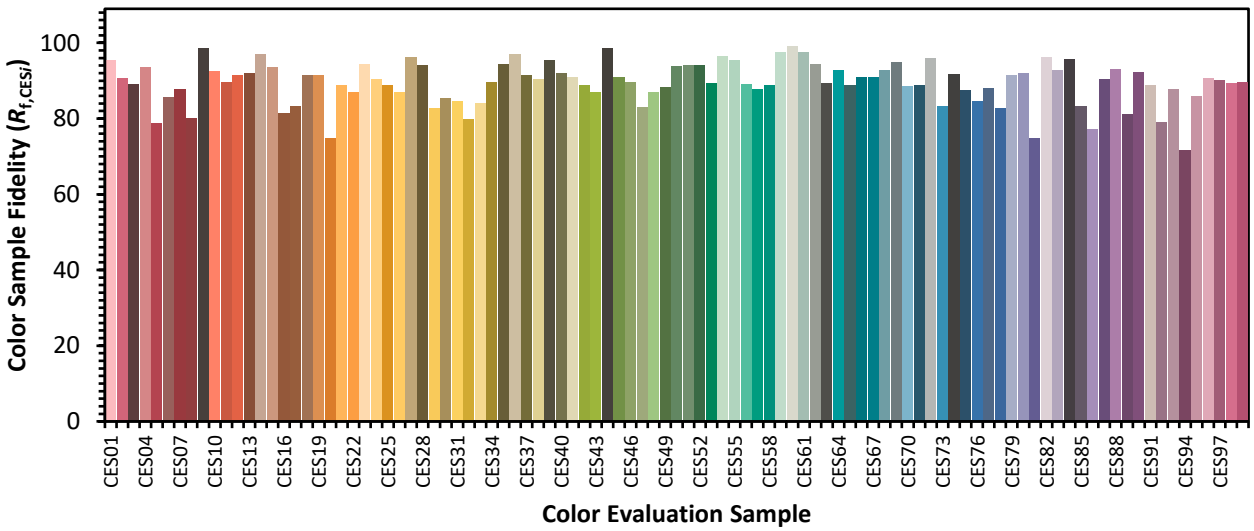


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Individual Sample Fidelity Index ($R_{f,i}$)

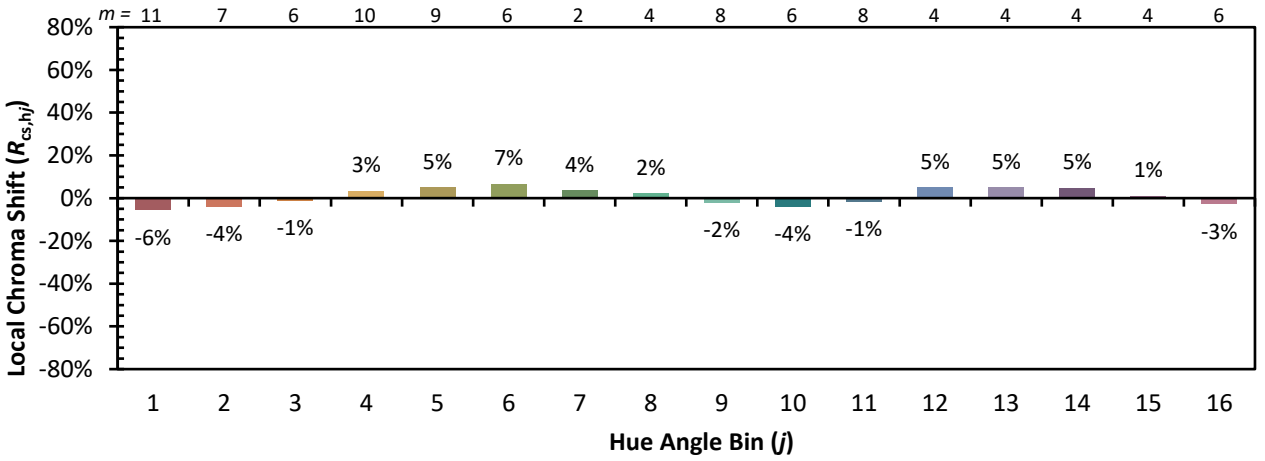
CES01 = 86	CES26 = 87	CES51 = 94	CES76 = 85
CES02 = 63	CES27 = 96	CES52 = 94	CES77 = 88
CES03 = 32	CES28 = 94	CES53 = 89	CES78 = 83
CES04 = 70	CES29 = 83	CES54 = 97	CES79 = 92
CES05 = 50	CES30 = 85	CES55 = 95	CES80 = 92
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 75
CES07 = 43	CES32 = 80	CES57 = 88	CES82 = 96
CES08 = 42	CES33 = 84	CES58 = 89	CES83 = 93
CES09 = 29	CES34 = 90	CES59 = 98	CES84 = 96
CES10 = 76	CES35 = 94	CES60 = 99	CES85 = 83
CES11 = 58	CES36 = 97	CES61 = 97	CES86 = 77
CES12 = 65	CES37 = 91	CES62 = 94	CES87 = 91
CES13 = 44	CES38 = 90	CES63 = 89	CES88 = 93
CES14 = 74	CES39 = 95	CES64 = 93	CES89 = 81
CES15 = 72	CES40 = 92	CES65 = 89	CES90 = 92
CES16 = 48	CES41 = 91	CES66 = 91	CES91 = 89
CES17 = 50	CES42 = 89	CES67 = 91	CES92 = 79
CES18 = 57	CES43 = 87	CES68 = 93	CES93 = 88
CES19 = 72	CES44 = 99	CES69 = 95	CES94 = 72
CES20 = 67	CES45 = 91	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 90	CES71 = 89	CES96 = 91
CES22 = 79	CES47 = 83	CES72 = 96	CES97 = 90
CES23 = 92	CES48 = 87	CES73 = 83	CES98 = 89
CES24 = 91	CES49 = 88	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 94	CES75 = 87	

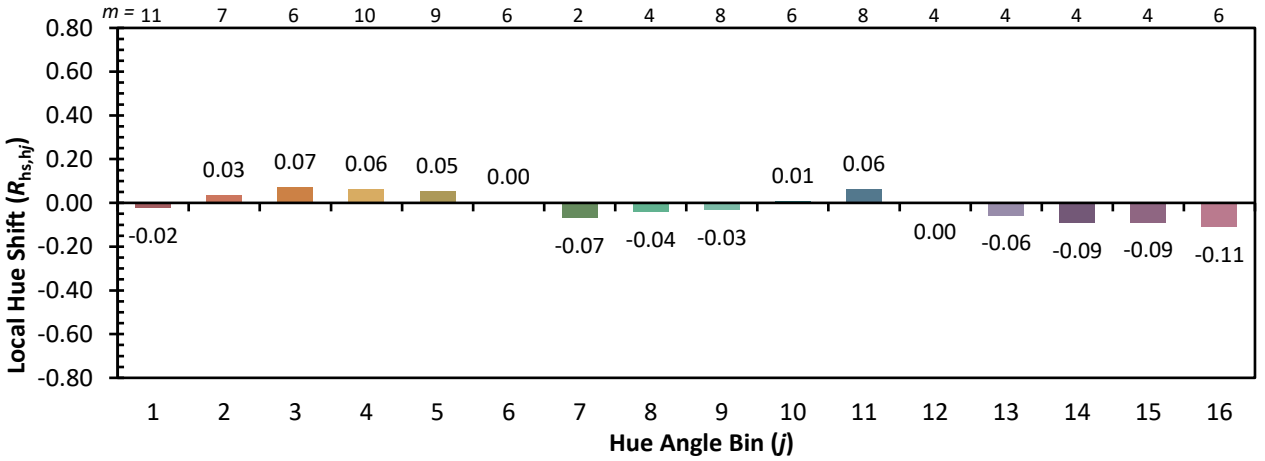


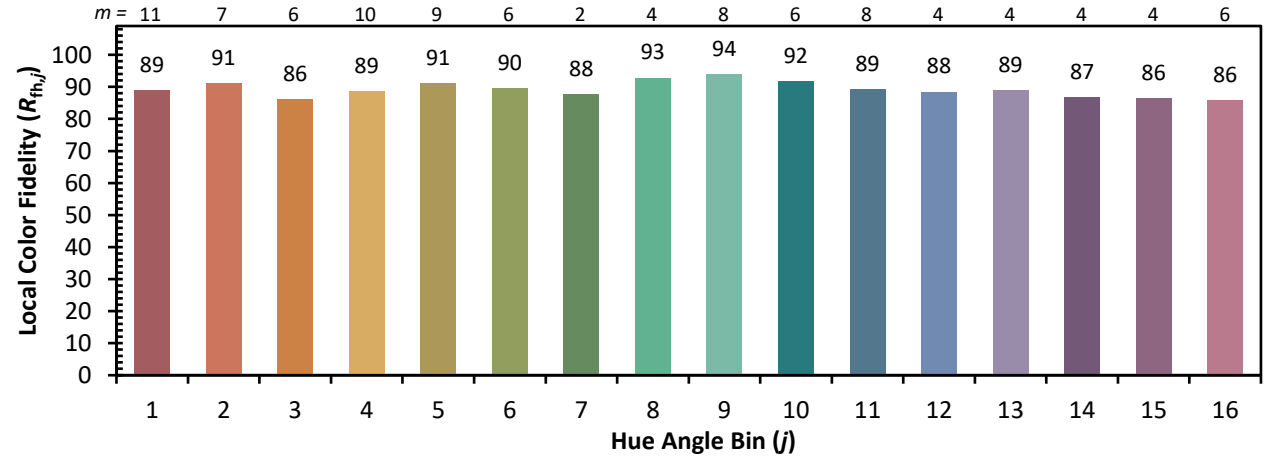
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Color Rendition by Hue-Angle Bin



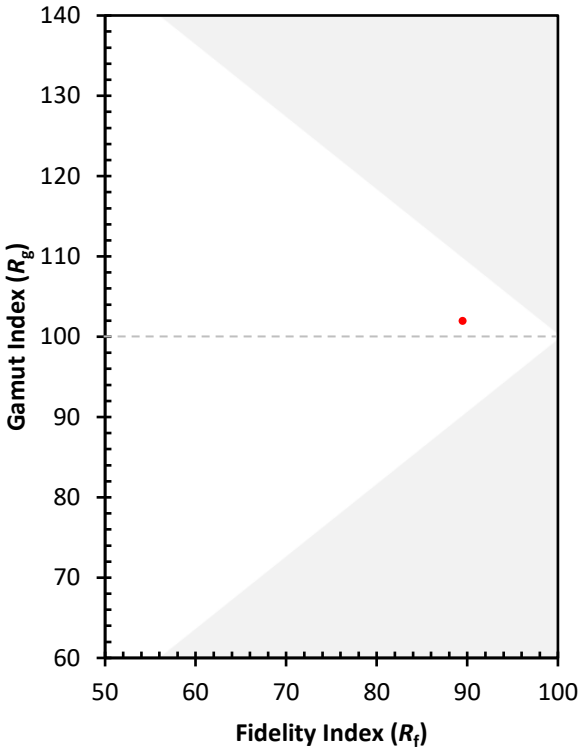


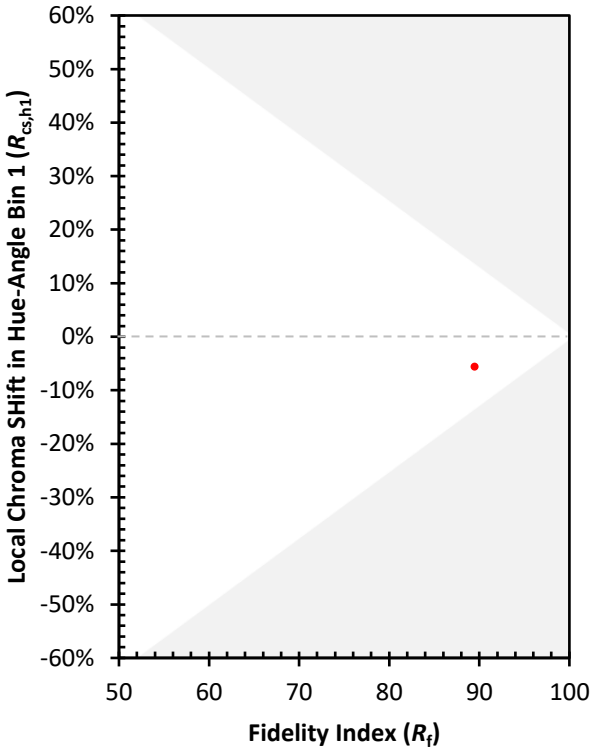


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Measure Comparisons





(END OF REPORT)