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: P1590728

Luminaire Tested: 22CGTX-25-L92765-W2A-2700K

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:	P1590728
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-25-L92765-W2A-2700K
Description:	2X2 2500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 2700K CCT WITH FROSTED SMOOTH LENS
Light Source:	2700K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2395.2 lumens
Efficiency:	N/A
Efficacy:	100.2 lumens/watt
Spacing Criteria (0/90/45):	1.25 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 1.81' x L: 1.81' x H: 0')
CIE Type:	Direct
Input Watts (W):	23.9
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

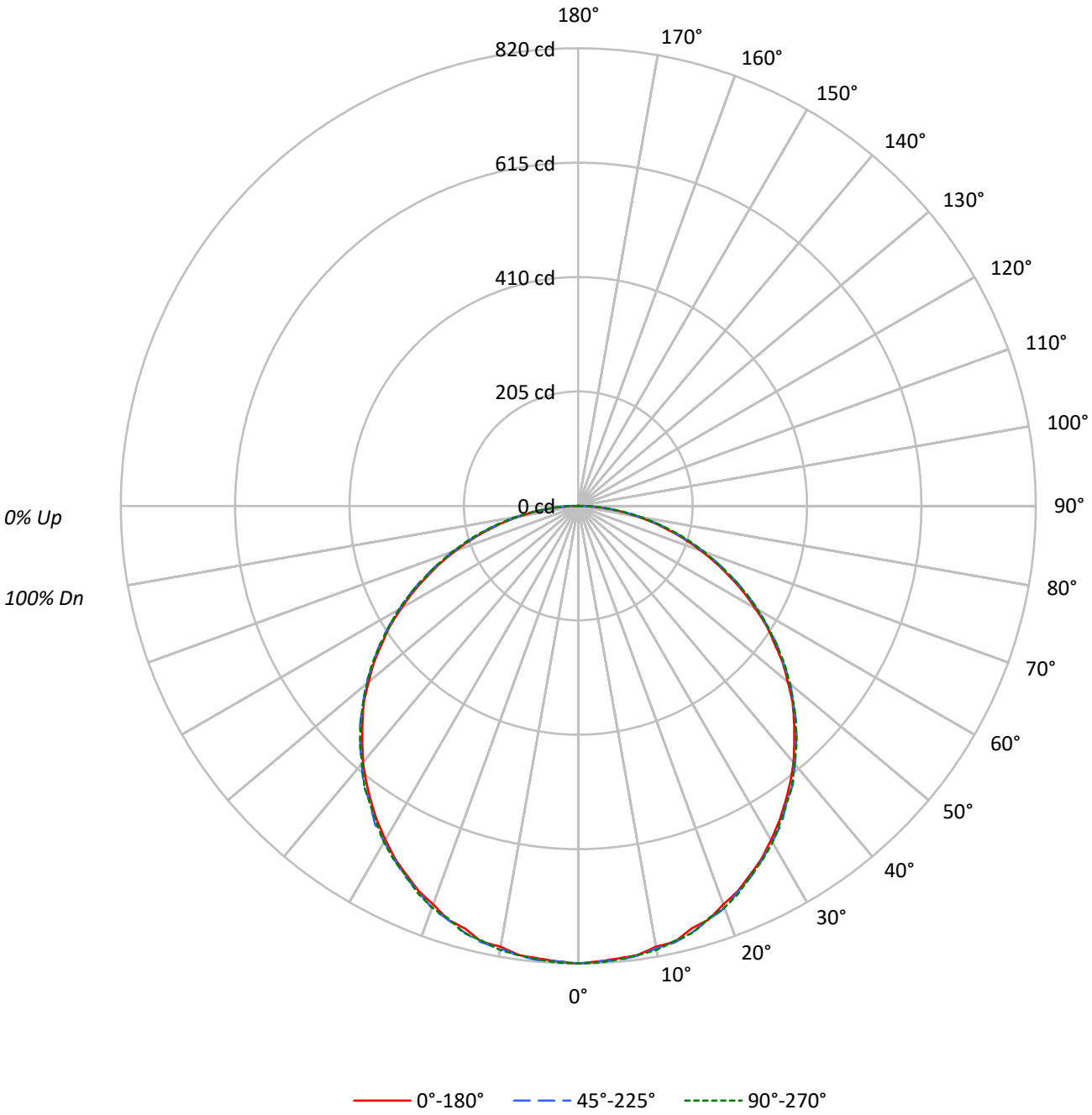


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TEST NUMBER: P1590728
CATALOG NUMBER: 22CGTX-25-L92765-W2A-2700K

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	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	36	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	40	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°	2687	2687	2687
5°	2677	2687	2684
10°	2668	2678	2688
15°	2659	2683	2687
20°	2650	2674	2671
25°	2636	2650	2643
30°	2614	2629	2633
35°	2588	2600	2604
40°	2566	2583	2575
45°	2535	2562	2553
50°	2498	2528	2518
55°	2451	2485	2473
60°	2392	2431	2431
65°	2318	2365	2357
70°	2232	2290	2290
75°	2127	2190	2215
80°	1981	2076	2113
85°	1767	1917	1917

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
Vertical Angle: 45°
Luminance: 2562 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590728
CATALOG NUMBER: 22CGTX-25-L92765-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.2
10°-20°	222.8	9.3
20°-30°	337.5	14.1
30°-40°	407.4	17.0
40°-50°	424.7	17.7
50°-60°	386.9	16.2
60°-70°	300.3	12.5
70°-80°	182.0	7.6
80°-90°	56.0	2.3
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°	637.9	26.6
0°-40°	1045.3	43.6
0°-60°	1857.0	77.5
0°-90°	2395.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2395.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	814	815	817	818	816	77
15°	784	790	791	791	792	222
25°	729	735	733	732	731	336
35°	647	651	650	651	651	405
45°	547	551	553	552	551	422
55°	429	432	435	434	433	384
65°	299	303	305	303	304	297
75°	168	172	173	172	175	178
85°	47	50	51	49	51	53
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1590728
CATALOG NUMBER: 22CGTX-25-L92765-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820	820	820	820	820
2.5°	817	820	817	817	819
5°	814	815	817	818	816
7.5°	812	814	813	811	812
10°	802	805	805	808	808
12.5°	800	801	801	799	798
15°	784	790	791	791	792
17.5°	777	777	777	777	775
20°	760	766	767	766	766
22.5°	747	748	748	749	751
25°	729	735	733	732	731
27.5°	712	713	714	716	715
30°	691	695	695	694	696
32.5°	670	673	677	675	673
35°	647	651	650	651	651
37.5°	624	627	631	628	630
40°	600	604	604	603	602
42.5°	573	578	578	578	579
45°	547	551	553	552	551
47.5°	521	521	523	523	523
50°	490	494	496	496	494
52.5°	462	463	464	464	466
55°	429	432	435	434	433
57.5°	400	401	403	400	402
60°	365	369	371	369	371
62.5°	334	336	339	336	338
65°	299	303	305	303	304
67.5°	267	270	272	270	271
70°	233	236	239	238	239
72.5°	201	203	206	204	208
75°	168	172	173	172	175
77.5°	137	140	142	140	143
80°	105	109	110	108	112
82.5°	76	79	80	78	81
85°	47	50	51	49	51
87.5°	21	24	23	21	24
90°	0	0	0	0	0

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TEST NUMBER: P1590728
CATALOG NUMBER: 22CGTX-25-L92765-W2A-2700K

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	15.29	16.95	15.66	17.27	17.58	15.29	16.95	15.65	17.26	17.58
	3H	17.17	18.67	17.55	19.00	19.36	17.20	18.70	17.58	19.03	19.39
	4H	17.90	19.32	18.30	19.67	20.04	17.96	19.38	18.36	19.73	20.10
	6H	18.47	19.79	18.88	20.15	20.54	18.56	19.88	18.97	20.24	20.63
	8H	18.67	19.92	19.09	20.31	20.71	18.78	20.03	19.20	20.42	20.82
	12H	18.80	20.01	19.23	20.39	20.82	18.93	20.13	19.36	20.51	20.94
4H	2H	15.97	17.38	16.36	17.73	18.11	15.96	17.38	16.36	17.73	18.10
	3H	18.07	19.27	18.48	19.66	20.06	18.10	19.29	18.51	19.69	20.09
	4H	18.95	20.03	19.38	20.44	20.87	18.99	20.07	19.42	20.49	20.92
	6H	19.65	20.60	20.11	21.04	21.50	19.73	20.67	20.18	21.11	21.57
	8H	19.91	20.79	20.36	21.23	21.70	19.99	20.88	20.45	21.32	21.79
	12H	20.09	20.89	20.57	21.37	21.83	20.20	21.00	20.67	21.47	21.94
8H	4H	19.31	20.20	19.77	20.64	21.10	19.35	20.24	19.81	20.68	21.14
	6H	20.16	20.90	20.65	21.39	21.86	20.22	20.96	20.71	21.44	21.92
	8H	20.50	21.16	21.00	21.67	22.15	20.56	21.23	21.07	21.74	22.22
	12H	20.77	21.36	21.28	21.85	22.41	20.85	21.44	21.36	21.93	22.49
12H	4H	19.35	20.15	19.83	20.63	21.10	19.39	20.19	19.87	20.67	21.14
	6H	20.24	20.90	20.74	21.41	21.89	20.29	20.96	20.80	21.47	21.95
	8H	20.64	21.23	21.15	21.72	22.28	20.71	21.30	21.21	21.79	22.34

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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: SP1-2510-566-2-R2

Test Date: 10/14/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-2700K

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

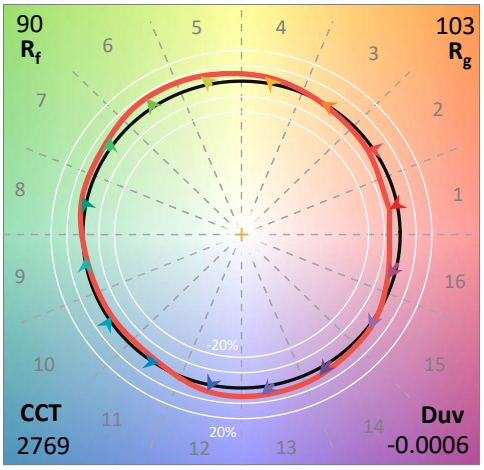
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-2-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-2700K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-2-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 9.5V

Spectral Parameters

CCT (K):	2769	CRI (Ra):	93.3		
CIE u':	0.2597	R1:	95.3	R9:	56.5
CIE v':	0.5252	R2:	96.1	R10:	89.8
Duv:	-0.0006	R3:	96.0	R11:	95.2
CIE x:	0.4534	R4:	94.8	R12:	89.7
CIE y:	0.4074	R5:	94.9	R13:	95.3
CIE z:	0.1392	R6:	97.1	R14:	96.4
Peak Wavelength (nm):	630	R7:	91.2	R15:	89.6
Dominant Wavelength (nm):	584	R8:	81.4		
Purity:	58.37672				
Rf:	89.8				
Rg:	102.5				



Test Conditions

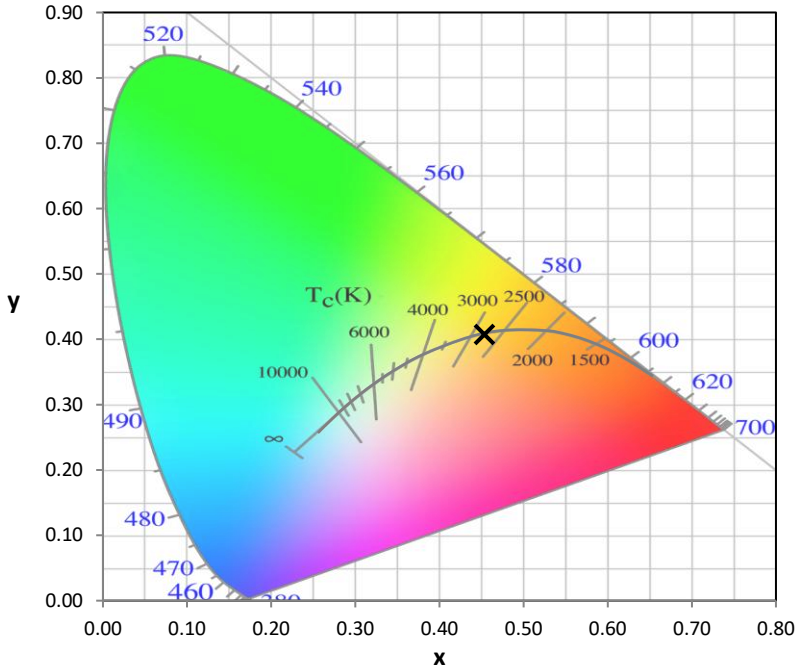
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2510-566-2-R2

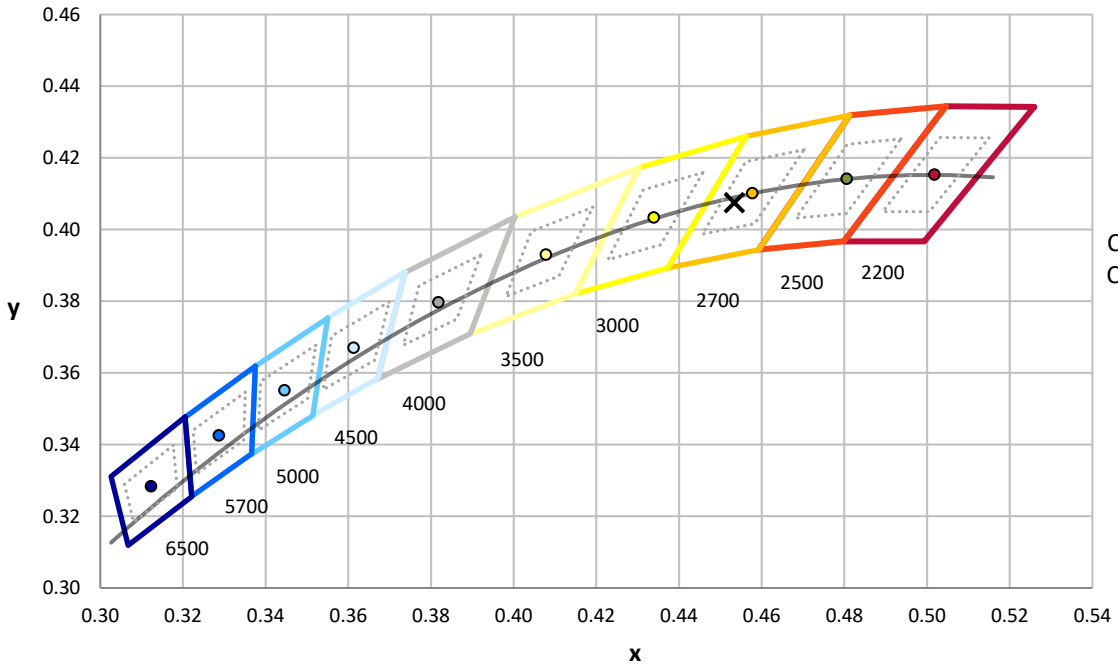
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



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

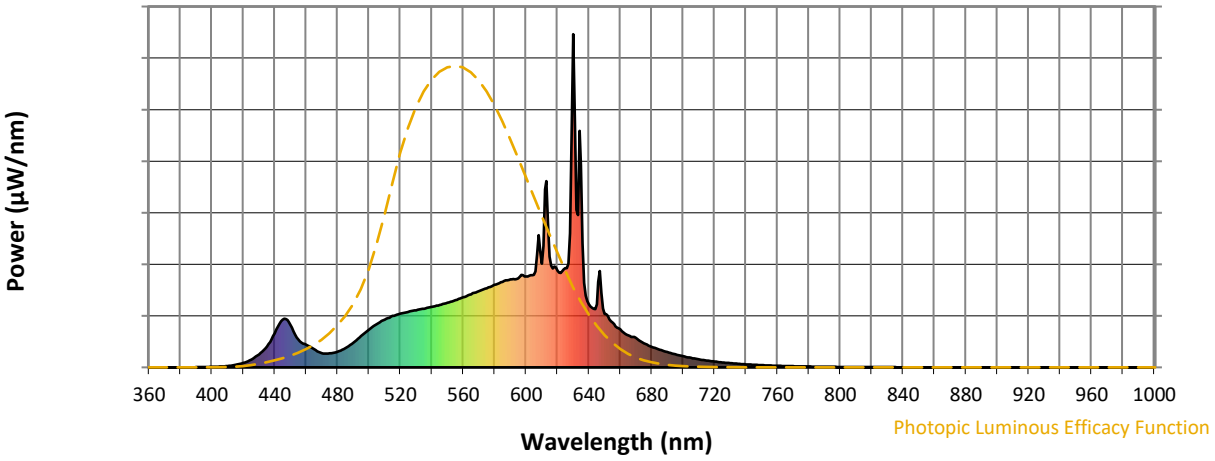


CCT = 2769K
CIE x = 0.4534
CIE y = 0.4074
Duv = -0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

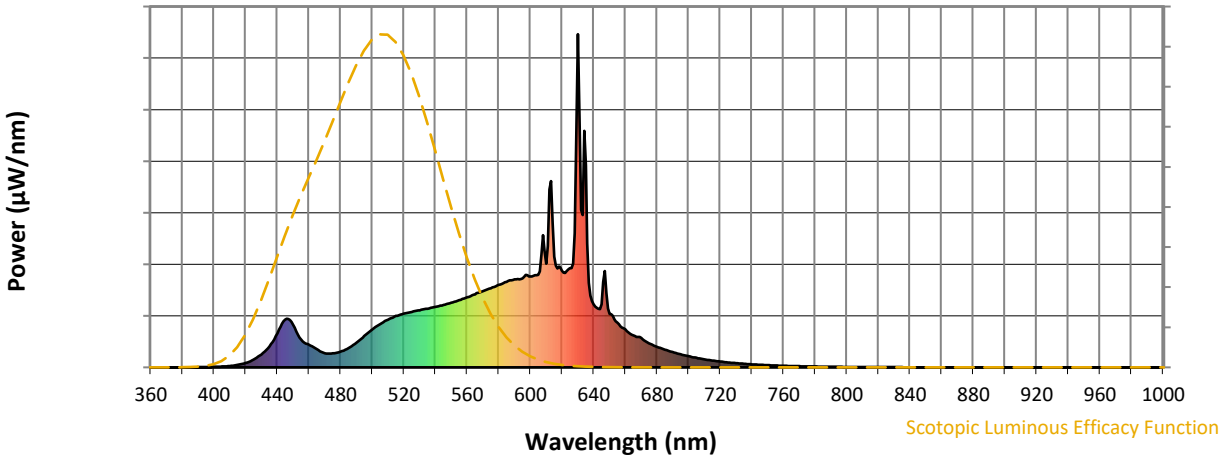


Photopic Lumens: NR

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	74	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	94	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	113	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	130	NR	635	606	NR	765	4	NR	895	0	NR
380	0	NR	510	143	NR	640	189	NR	770	3	NR	900	0	NR
385	0	NR	515	154	NR	645	190	NR	775	3	NR	905	0	NR
390	1	NR	520	162	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	166	NR	655	134	NR	785	2	NR	915	0	NR
400	2	NR	530	171	NR	660	114	NR	790	2	NR	920	0	NR
405	3	NR	535	176	NR	665	96	NR	795	2	NR	925	0	NR
410	4	NR	540	182	NR	670	89	NR	800	1	NR	930	0	NR
415	7	NR	545	187	NR	675	72	NR	805	1	NR	935	0	NR
420	14	NR	550	194	NR	680	62	NR	810	1	NR	940	0	NR
425	23	NR	555	202	NR	685	53	NR	815	1	NR	945	0	NR
430	38	NR	560	210	NR	690	46	NR	820	1	NR	950	0	NR
435	63	NR	565	219	NR	695	39	NR	825	1	NR	955	0	NR
440	102	NR	570	228	NR	700	33	NR	830	1	NR	960	0	NR
445	144	NR	575	238	NR	705	28	NR	835	1	NR	965	0	NR
450	128	NR	580	247	NR	710	24	NR	840	0	NR	970	0	NR
455	83	NR	585	257	NR	715	20	NR	845	0	NR	975	0	NR
460	68	NR	590	264	NR	720	18	NR	850	0	NR	980	0	NR
465	55	NR	595	267	NR	725	15	NR	855	0	NR	985	0	NR
470	43	NR	600	273	NR	730	13	NR	860	0	NR	990	0	NR
475	42	NR	605	278	NR	735	11	NR	865	0	NR	995	0	NR
480	47	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	58	NR	615	333	NR	745	8	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

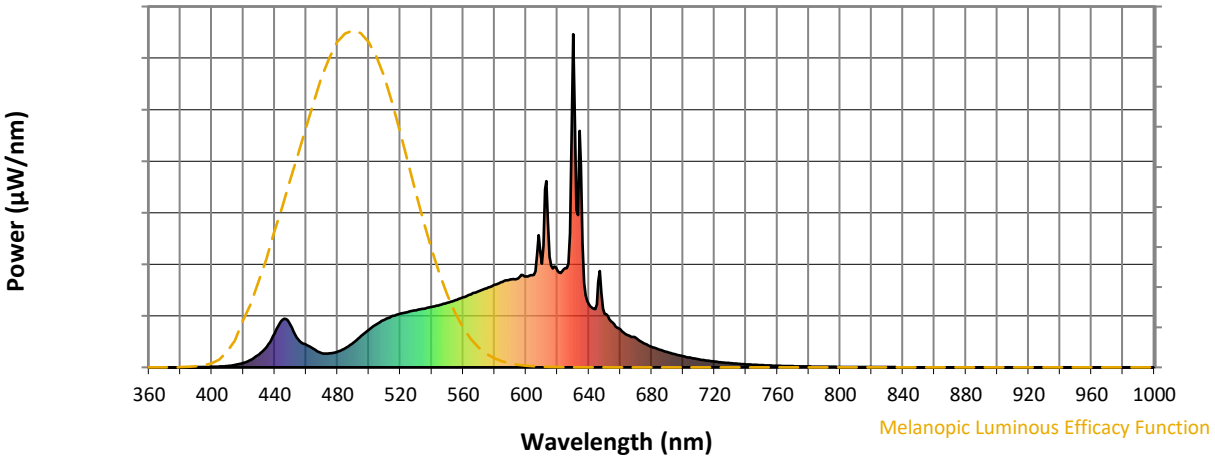


Scotopic Lumens: NR **S/P: 1.3**

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	74	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	94	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	113	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	130	NR	635	606	NR	765	4	NR	895	0	NR
380	0	NR	510	143	NR	640	189	NR	770	3	NR	900	0	NR
385	0	NR	515	154	NR	645	190	NR	775	3	NR	905	0	NR
390	1	NR	520	162	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	166	NR	655	134	NR	785	2	NR	915	0	NR
400	2	NR	530	171	NR	660	114	NR	790	2	NR	920	0	NR
405	3	NR	535	176	NR	665	96	NR	795	2	NR	925	0	NR
410	4	NR	540	182	NR	670	89	NR	800	1	NR	930	0	NR
415	7	NR	545	187	NR	675	72	NR	805	1	NR	935	0	NR
420	14	NR	550	194	NR	680	62	NR	810	1	NR	940	0	NR
425	23	NR	555	202	NR	685	53	NR	815	1	NR	945	0	NR
430	38	NR	560	210	NR	690	46	NR	820	1	NR	950	0	NR
435	63	NR	565	219	NR	695	39	NR	825	1	NR	955	0	NR
440	102	NR	570	228	NR	700	33	NR	830	1	NR	960	0	NR
445	144	NR	575	238	NR	705	28	NR	835	1	NR	965	0	NR
450	128	NR	580	247	NR	710	24	NR	840	0	NR	970	0	NR
455	83	NR	585	257	NR	715	20	NR	845	0	NR	975	0	NR
460	68	NR	590	264	NR	720	18	NR	850	0	NR	980	0	NR
465	55	NR	595	267	NR	725	15	NR	855	0	NR	985	0	NR
470	43	NR	600	273	NR	730	13	NR	860	0	NR	990	0	NR
475	42	NR	605	278	NR	735	11	NR	865	0	NR	995	0	NR
480	47	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	58	NR	615	333	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-2-R2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	74	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	94	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	113	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	130	NR	635	606	NR	765	4	NR	895	0	NR
380	0	NR	510	143	NR	640	189	NR	770	3	NR	900	0	NR
385	0	NR	515	154	NR	645	190	NR	775	3	NR	905	0	NR
390	1	NR	520	162	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	166	NR	655	134	NR	785	2	NR	915	0	NR
400	2	NR	530	171	NR	660	114	NR	790	2	NR	920	0	NR
405	3	NR	535	176	NR	665	96	NR	795	2	NR	925	0	NR
410	4	NR	540	182	NR	670	89	NR	800	1	NR	930	0	NR
415	7	NR	545	187	NR	675	72	NR	805	1	NR	935	0	NR
420	14	NR	550	194	NR	680	62	NR	810	1	NR	940	0	NR
425	23	NR	555	202	NR	685	53	NR	815	1	NR	945	0	NR
430	38	NR	560	210	NR	690	46	NR	820	1	NR	950	0	NR
435	63	NR	565	219	NR	695	39	NR	825	1	NR	955	0	NR
440	102	NR	570	228	NR	700	33	NR	830	1	NR	960	0	NR
445	144	NR	575	238	NR	705	28	NR	835	1	NR	965	0	NR
450	128	NR	580	247	NR	710	24	NR	840	0	NR	970	0	NR
455	83	NR	585	257	NR	715	20	NR	845	0	NR	975	0	NR
460	68	NR	590	264	NR	720	18	NR	850	0	NR	980	0	NR
465	55	NR	595	267	NR	725	15	NR	855	0	NR	985	0	NR
470	43	NR	600	273	NR	730	13	NR	860	0	NR	990	0	NR
475	42	NR	605	278	NR	735	11	NR	865	0	NR	995	0	NR
480	47	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	58	NR	615	333	NR	745	8	NR	875	0	NR			

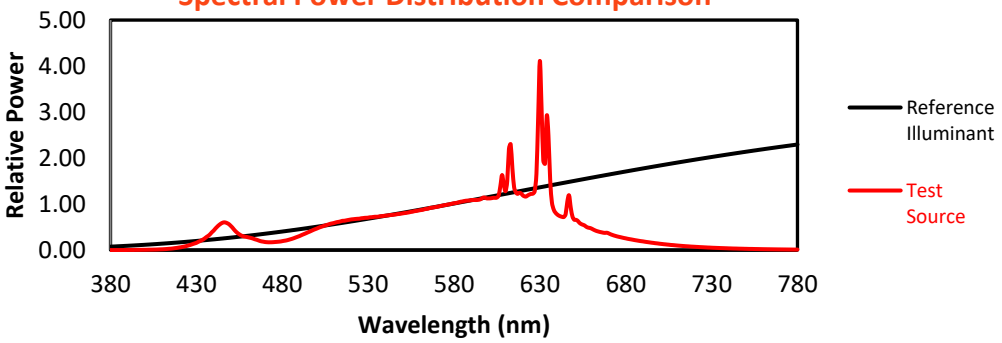
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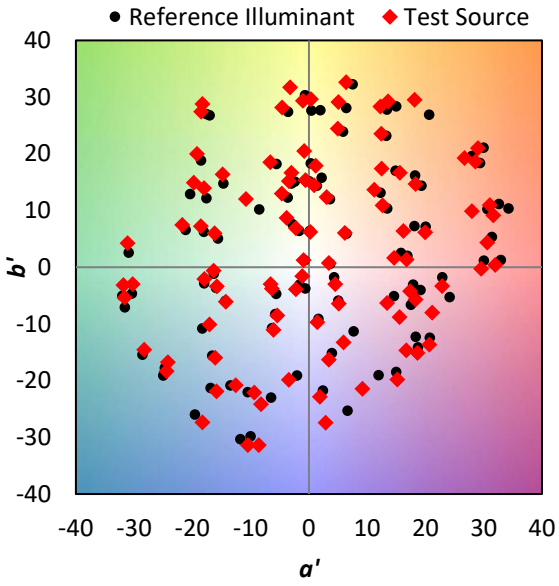
Summary

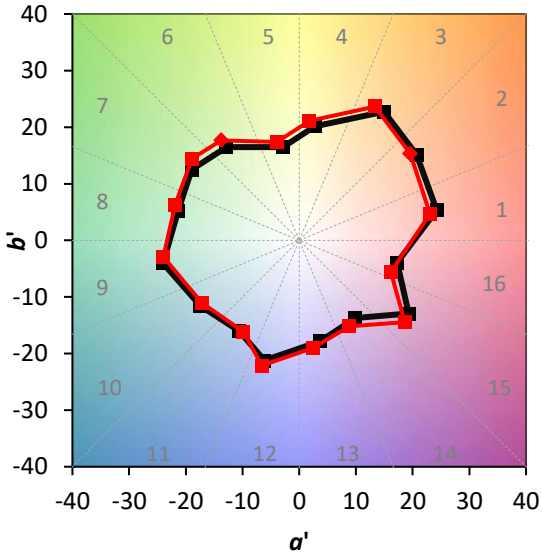
R_f = 89.8
R_g = 102.5
CIE R_a = 93.3
R_9 = 56.5

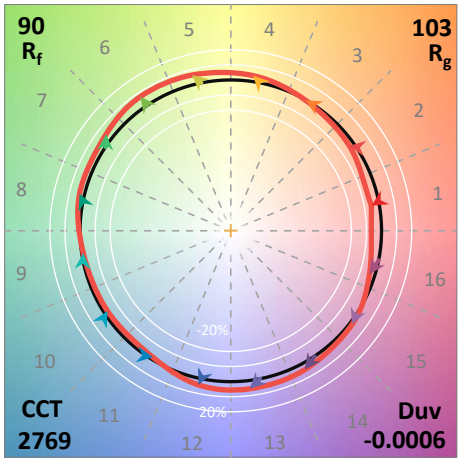
Spectral Power Distribution Comparison

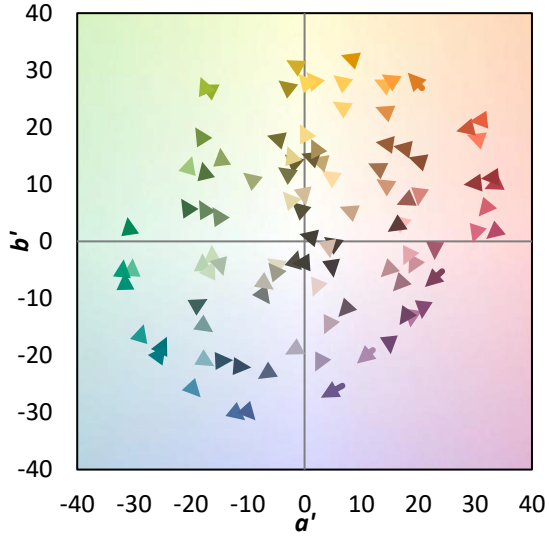


Color Vector Graphics







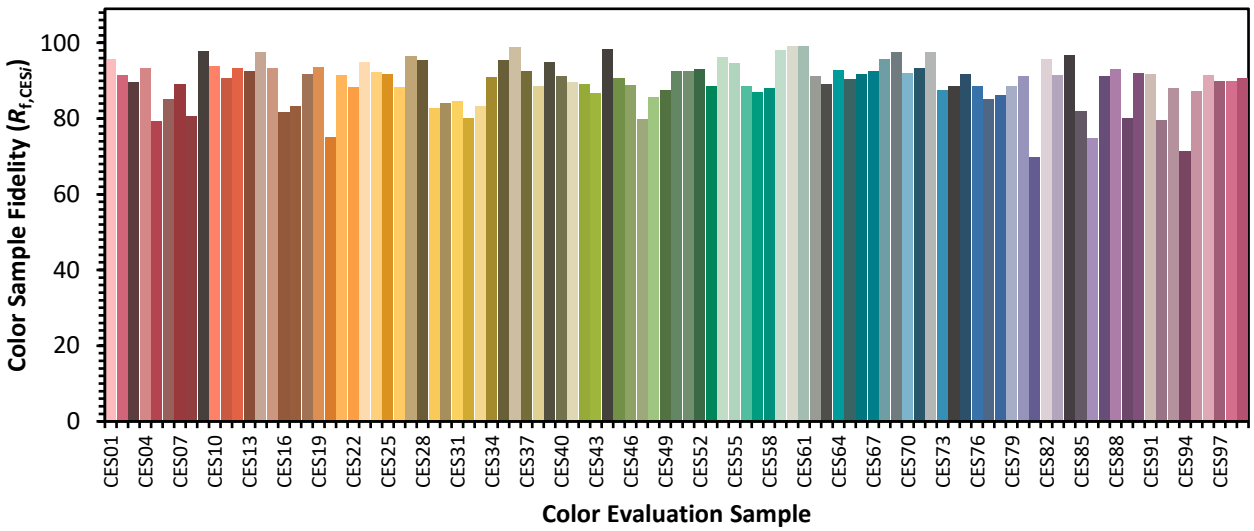


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Individual Sample Fidelity Index ($R_{f,i}$)

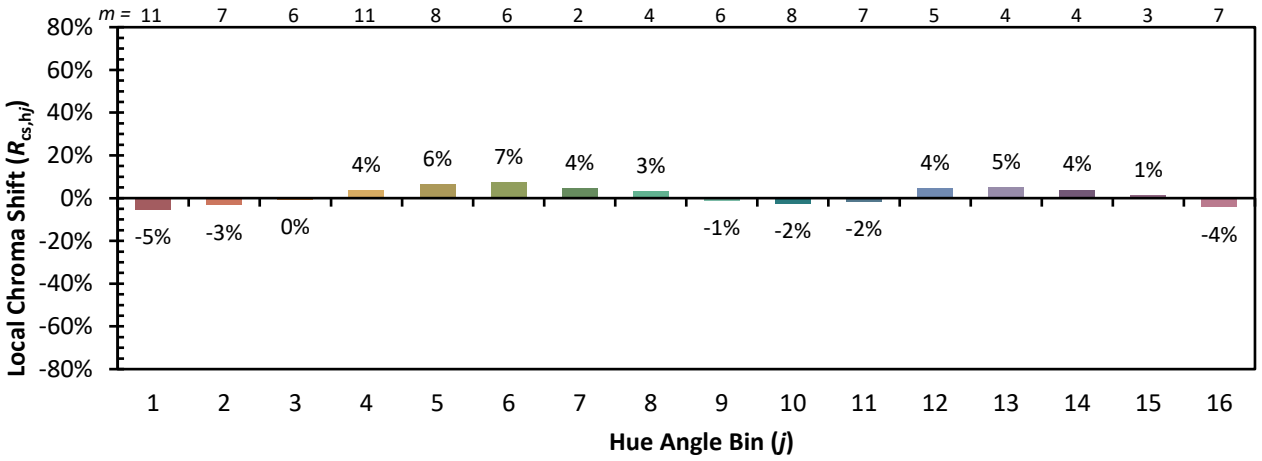
CES01 = 86	CES26 = 88	CES51 = 92	CES76 = 89
CES02 = 64	CES27 = 97	CES52 = 93	CES77 = 85
CES03 = 32	CES28 = 95	CES53 = 88	CES78 = 86
CES04 = 70	CES29 = 83	CES54 = 96	CES79 = 89
CES05 = 51	CES30 = 84	CES55 = 95	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 70
CES07 = 44	CES32 = 80	CES57 = 87	CES82 = 96
CES08 = 43	CES33 = 83	CES58 = 88	CES83 = 92
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 97
CES10 = 77	CES35 = 95	CES60 = 99	CES85 = 82
CES11 = 59	CES36 = 99	CES61 = 99	CES86 = 75
CES12 = 66	CES37 = 93	CES62 = 91	CES87 = 91
CES13 = 44	CES38 = 88	CES63 = 89	CES88 = 93
CES14 = 74	CES39 = 95	CES64 = 93	CES89 = 80
CES15 = 72	CES40 = 91	CES65 = 90	CES90 = 92
CES16 = 48	CES41 = 90	CES66 = 92	CES91 = 92
CES17 = 50	CES42 = 89	CES67 = 93	CES92 = 80
CES18 = 57	CES43 = 87	CES68 = 96	CES93 = 88
CES19 = 72	CES44 = 98	CES69 = 98	CES94 = 71
CES20 = 68	CES45 = 91	CES70 = 92	CES95 = 87
CES21 = 87	CES46 = 89	CES71 = 93	CES96 = 92
CES22 = 79	CES47 = 80	CES72 = 97	CES97 = 90
CES23 = 92	CES48 = 86	CES73 = 87	CES98 = 90
CES24 = 91	CES49 = 87	CES74 = 89	CES99 = 91
CES25 = 72	CES50 = 92	CES75 = 92	

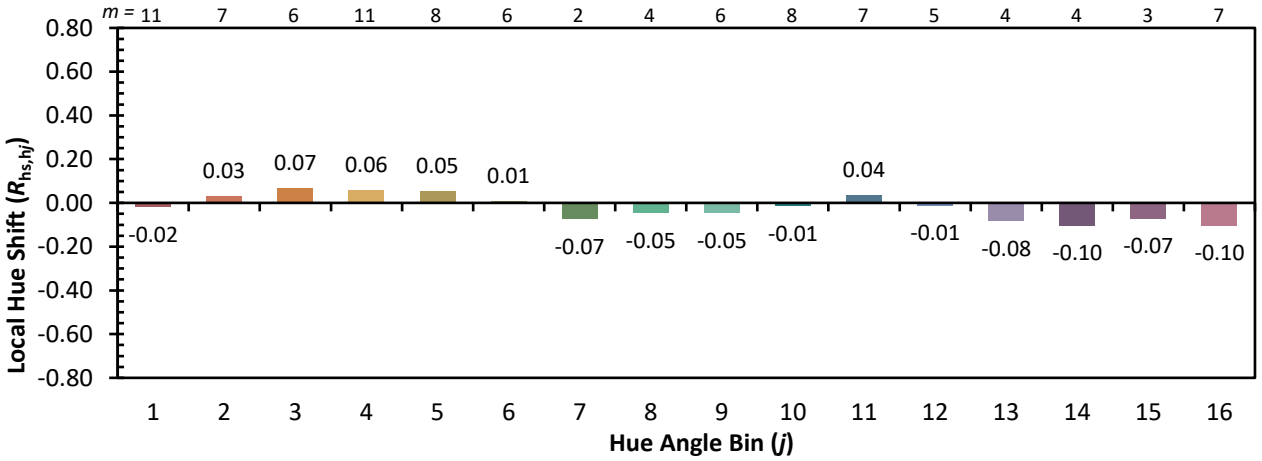


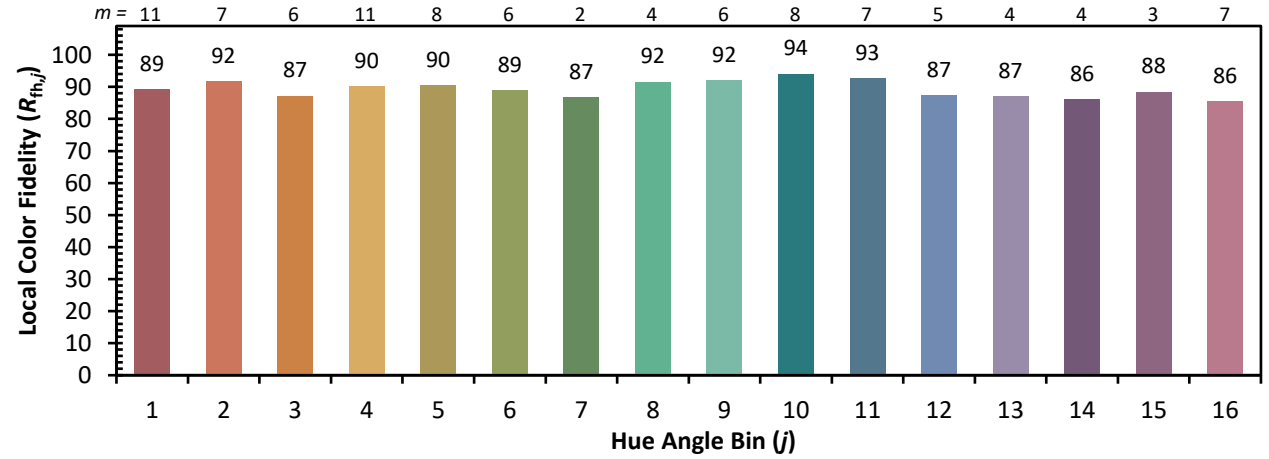
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Color Rendition by Hue-Angle Bin



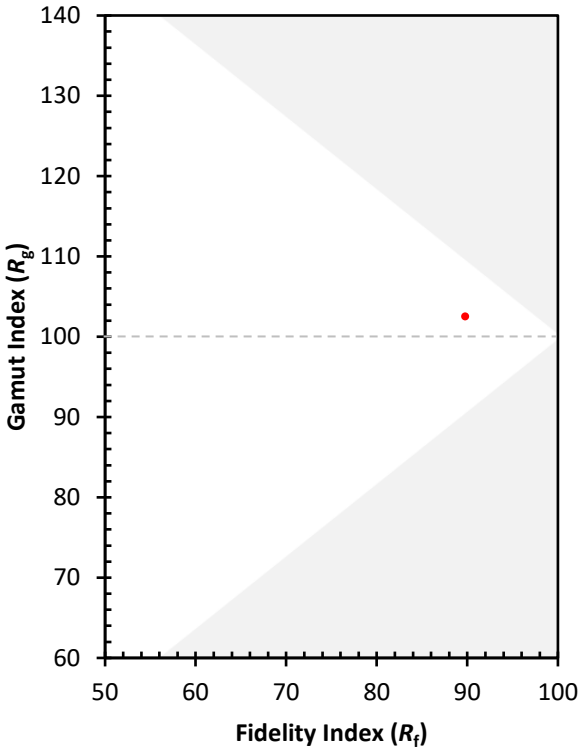


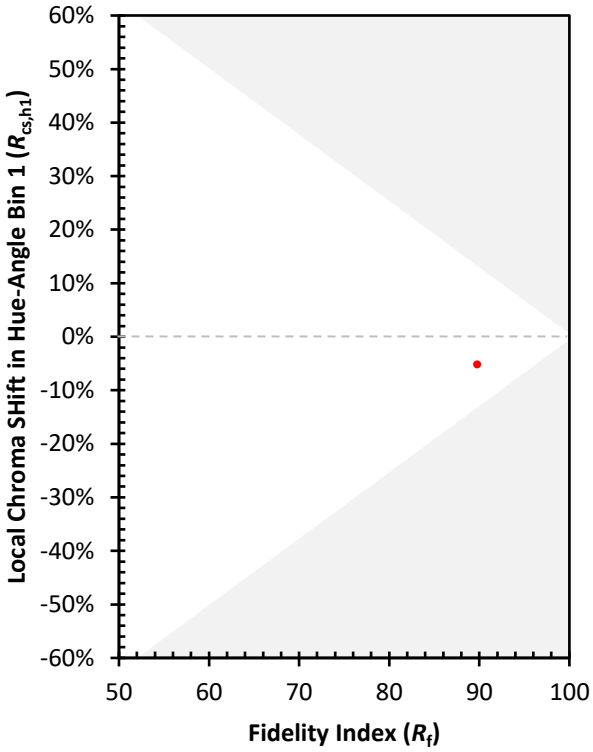


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Measure Comparisons





(END OF REPORT)