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: P1590792

Luminaire Tested: 24CGTX-45-L92765-W2A-2700K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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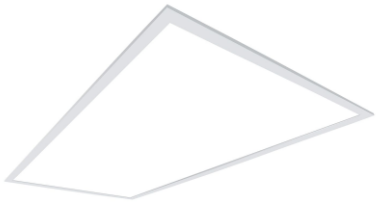
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590792
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-45-L92765-W2A-2700K
Description:	2X4 4500 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:	4944.8 lumens
Efficiency:	N/A
Efficacy:	111.4 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type:	Direct
Input Watts (W):	44.4
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

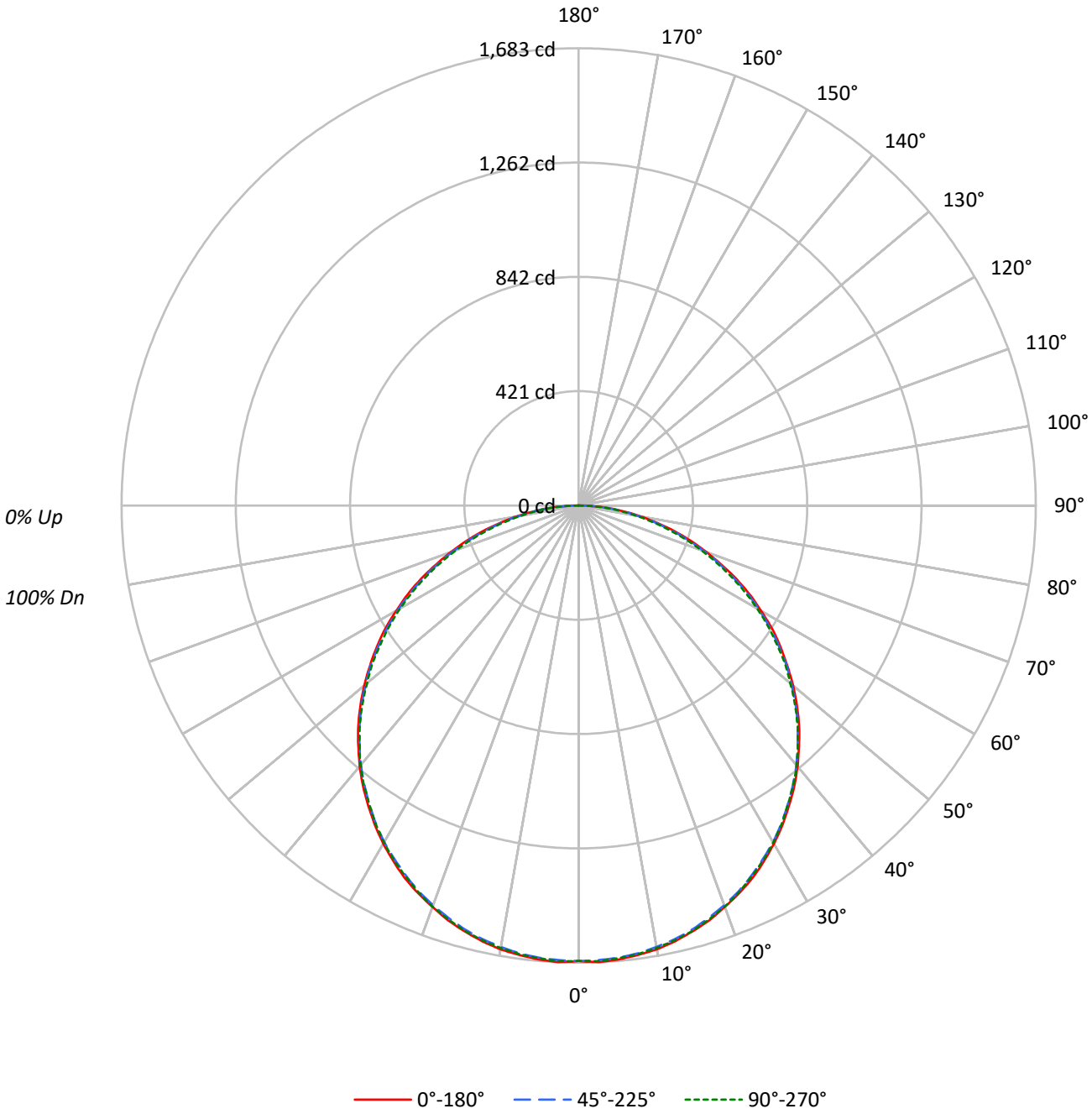


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Scaled Data Report

TEST NUMBER: P1590792
CATALOG NUMBER: 24CGTX-45-L92765-W2A-2700K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590792
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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	91	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	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2569	2569	2569
5°	2580	2569	2572
10°	2580	2566	2572
15°	2574	2562	2570
20°	2564	2552	2562
25°	2559	2542	2547
30°	2543	2531	2534
35°	2524	2511	2511
40°	2507	2493	2497
45°	2487	2469	2467
50°	2457	2438	2423
55°	2422	2401	2377
60°	2374	2350	2325
65°	2323	2280	2243
70°	2235	2194	2141
75°	2160	2089	2006
80°	2037	1958	1870
85°	1898	1775	1687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2487 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590792
CATALOG NUMBER: 24CGTX-45-L92765-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	3.2
10°-20°	456.6	9.2
20°-30°	694.7	14.0
30°-40°	841.8	17.0
40°-50°	879.9	17.8
50°-60°	803.2	16.2
60°-70°	622.4	12.6
70°-80°	373.4	7.6
80°-90°	113.6	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°	1310.3	26.5
0°-40°	2152.2	43.5
0°-60°	3835.3	77.6
0°-90°	4944.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4944.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1678	1673	1671	1669	1673	160
15°	1623	1619	1616	1615	1621	458
25°	1514	1508	1504	1507	1507	697
35°	1350	1349	1343	1342	1343	845
45°	1148	1144	1140	1137	1139	885
55°	907	904	899	894	890	810
65°	641	637	629	621	619	633
75°	365	360	353	346	339	385
85°	108	105	101	97	96	119
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1590792
CATALOG NUMBER: 24CGTX-45-L92765-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1677*	1677	1677	1677	1677
2.5°	*1683*	*1677*	*1675*	*1673*	*1679*
5°	*1678*	1673	1671	1669	1673
7.5°	*1669*	1665	1663	1661	1666
10°	*1659*	1654	1650	1649	1654
12.5°	*1643*	1637	1635	1635	1639
15°	*1623*	1619	1616	1615	1621
17.5°	*1601*	1596	1592	1593	1597
20°	*1573*	1570	1566	1568	1572
22.5°	*1545*	1542	1538	1538	1541
25°	*1514*	1508	1504	1507	1507
27.5°	*1477*	1472	1468	1469	1472
30°	*1438*	1435	1431	1430	1433
32.5°	*1396*	1392	1389	1388	1391
35°	*1350*	1349	1343	1342	1343
37.5°	*1304*	1301	1296	1296	1298
40°	*1254*	1250	1247	1244	1249
42.5°	*1201*	1199	1194	1193	1194
45°	*1148*	1144	1140	1137	1139
47.5°	*1090*	1089	1083	1080	1079
50°	*1031*	1029	1023	1019	1017
52.5°	*968*	967	964	958	958
55°	*907*	904	899	894	890
57.5°	*845*	839	834	827	826
60°	*775*	772	767	760	759
62.5°	*711*	705	699	692	689
65°	*641*	637	629	621	619
67.5°	*569*	567	561	550	549
70°	*499*	496	490	482	478
72.5°	*433*	429	420	415	411
75°	*365*	360	353	346	339
77.5°	*295*	294	288	279	275
80°	*231*	227	222	214	212
82.5°	*168*	166	162	154	153
85°	*108*	105	101	97	96
87.5°	*46*	46	46	44	44
90°	*0*	0	0	0	0

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TEST NUMBER: P1590792
CATALOG NUMBER: 24CGTX-45-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	15.28	16.93	15.64	17.25	17.56	15.16	16.82	15.53	17.14	17.45
	3H	17.18	18.69	17.56	19.01	19.37	17.02	18.52	17.39	18.85	19.21
	4H	17.94	19.36	18.34	19.70	20.08	17.73	19.15	18.13	19.49	19.87
	6H	18.53	19.84	18.94	20.21	20.60	18.27	19.59	18.68	19.95	20.34
	8H	18.74	20.00	19.16	20.38	20.78	18.46	19.72	18.88	20.10	20.50
	12H	18.89	20.10	19.32	20.48	20.91	18.59	19.80	19.02	20.18	20.61
4H	2H	15.92	17.34	16.32	17.69	18.06	15.84	17.25	16.23	17.60	17.98
	3H	18.06	19.25	18.47	19.65	20.05	17.92	19.11	18.32	19.51	19.90
	4H	18.95	20.03	19.38	20.44	20.88	18.76	19.84	19.19	20.25	20.69
	6H	19.68	20.63	20.13	21.07	21.52	19.44	20.39	19.89	20.82	21.28
	8H	19.95	20.83	20.41	21.28	21.74	19.68	20.56	20.14	21.01	21.47
	12H	20.15	20.95	20.63	21.43	21.90	19.86	20.66	20.34	21.13	21.60
8H	4H	19.29	20.18	19.75	20.62	21.08	19.12	20.01	19.58	20.45	20.91
	6H	20.15	20.90	20.65	21.38	21.86	19.93	20.67	20.42	21.16	21.63
	8H	20.51	21.17	21.01	21.68	22.16	20.25	20.92	20.76	21.42	21.91
	12H	20.80	21.39	21.31	21.88	22.44	20.52	21.10	21.02	21.59	22.15
12H	4H	19.33	20.13	19.81	20.60	21.07	19.17	19.97	19.65	20.44	20.91
	6H	20.22	20.89	20.73	21.39	21.88	20.01	20.68	20.52	21.18	21.67
	8H	20.64	21.23	21.15	21.72	22.28	20.40	20.98	20.90	21.47	22.03

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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

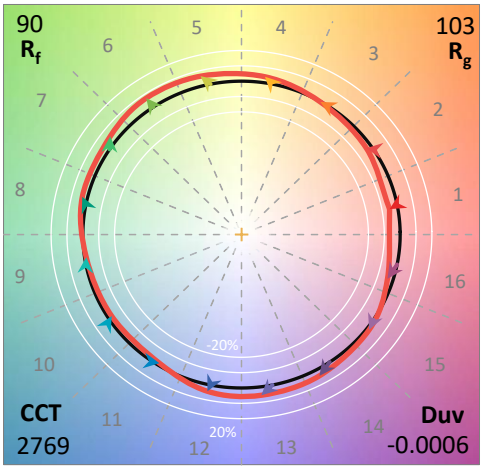
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Version: v7.05

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

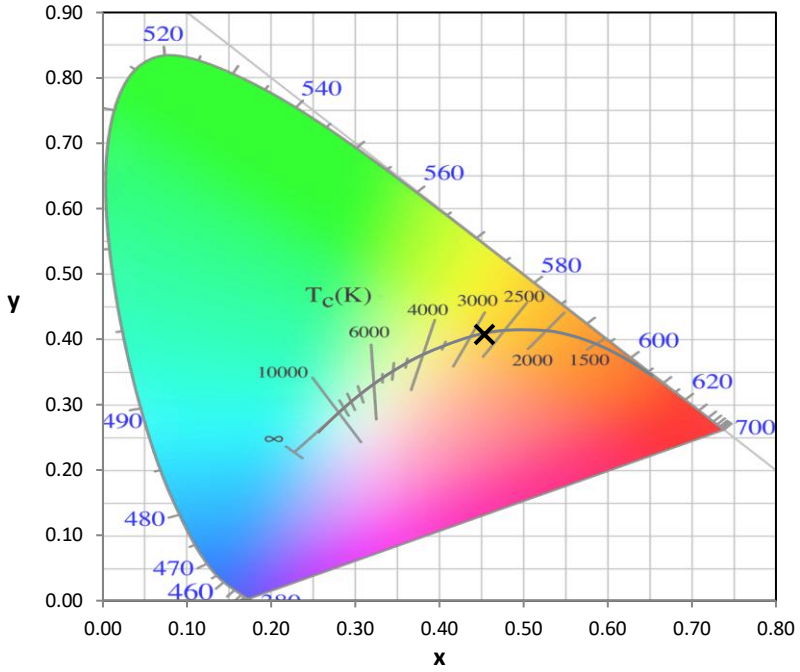
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

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

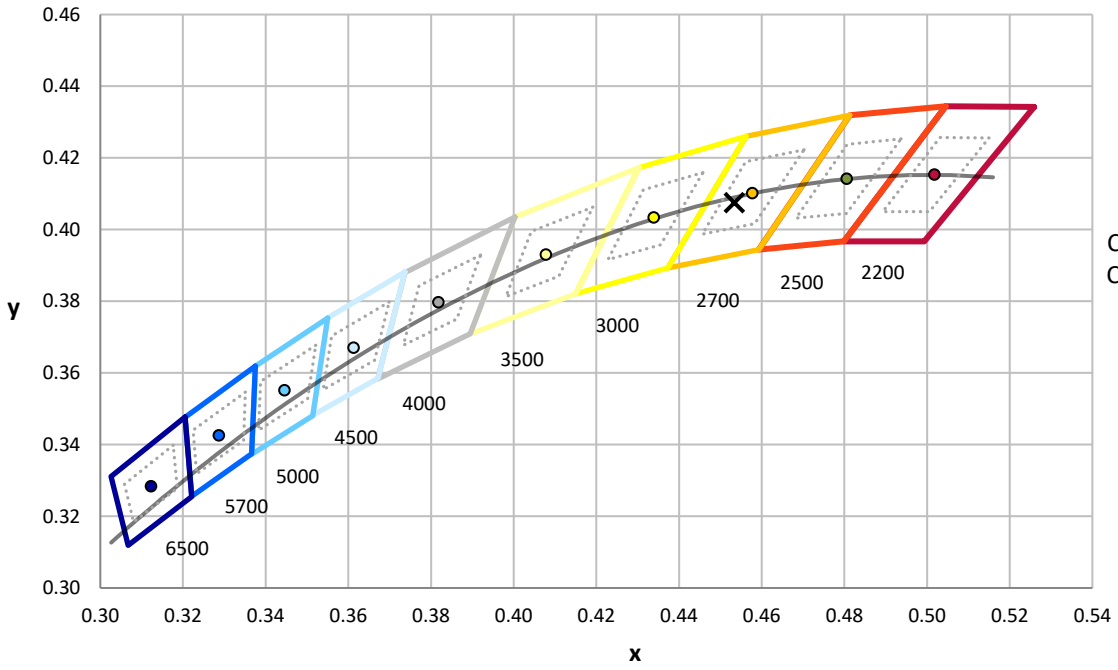
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

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

CIE 1931 Chromaticity Diagram



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

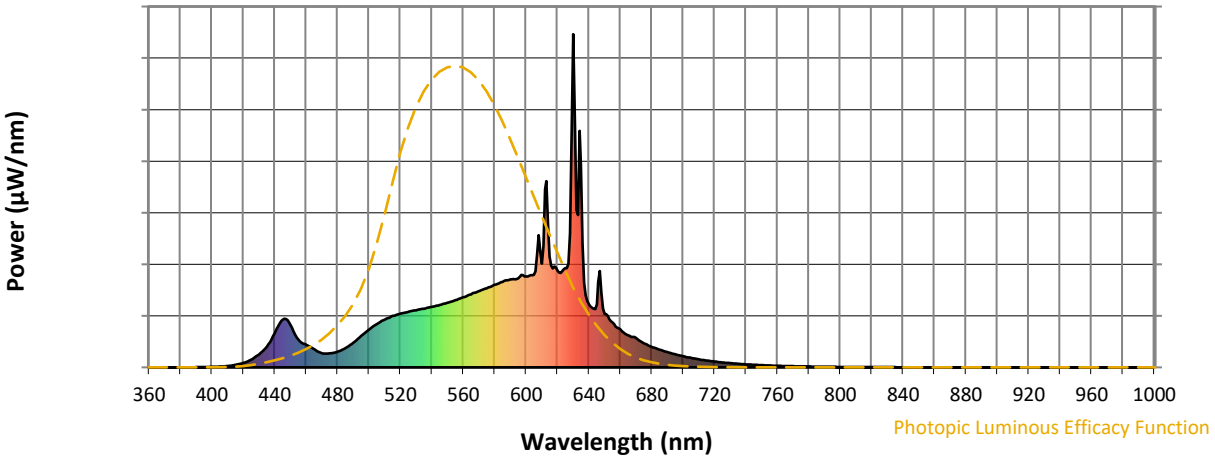


CCT = 2769K
CIE x = 0.4534
CIE y = 0.4074
Duv = -0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

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

Photopic Flux vs. Wavelength

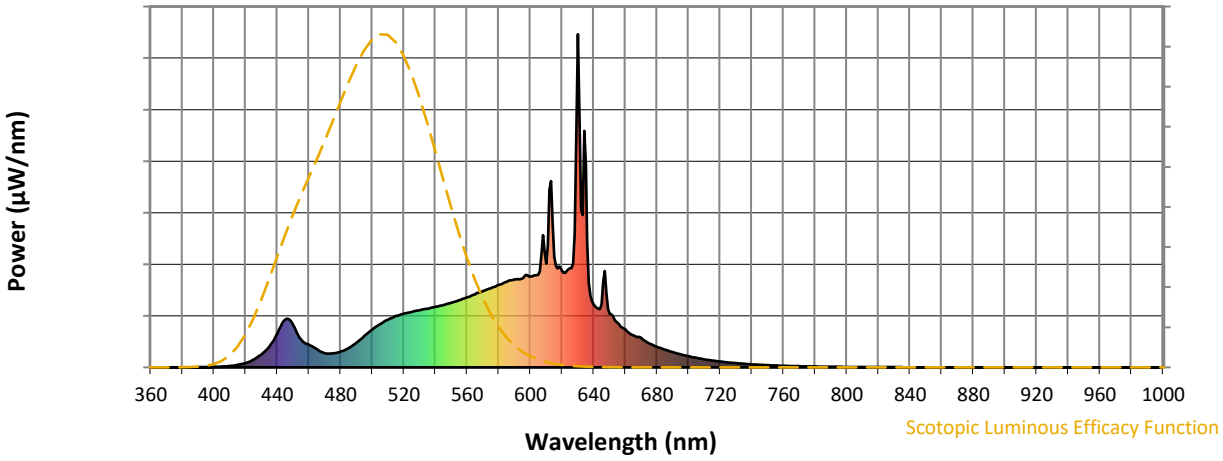


Photopic Lumens: NR

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	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

Scotopic Flux vs. Wavelength

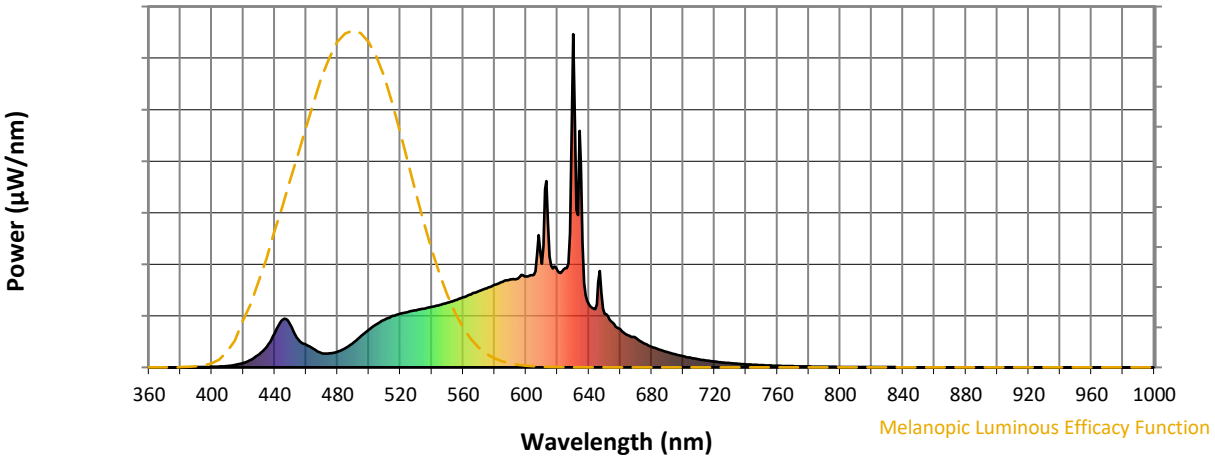


Scotopic Lumens: NR **S/P: 1.3**

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			

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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			

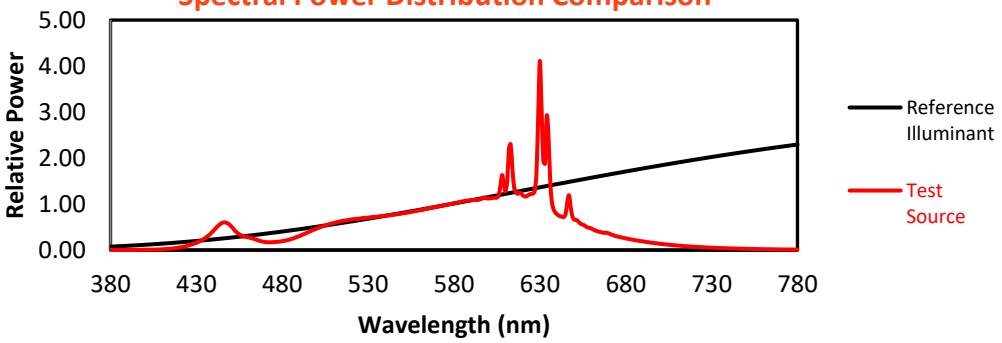
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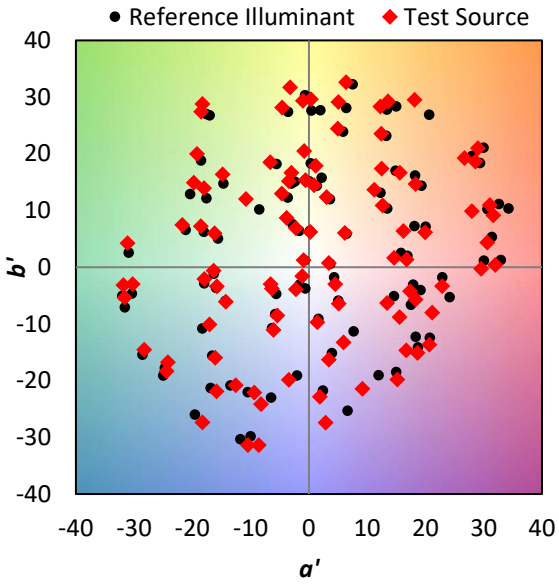
Summary

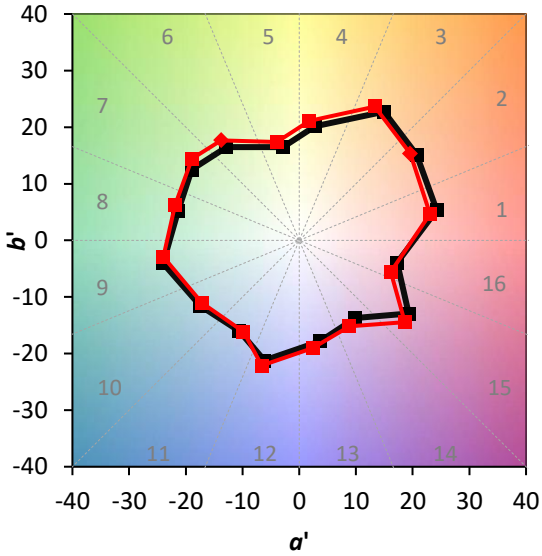
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R_g = 102.5
CIE R_a = 93.3
R_9 = 56.5

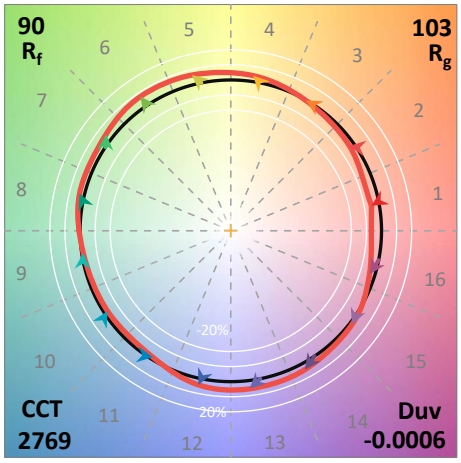
Spectral Power Distribution Comparison

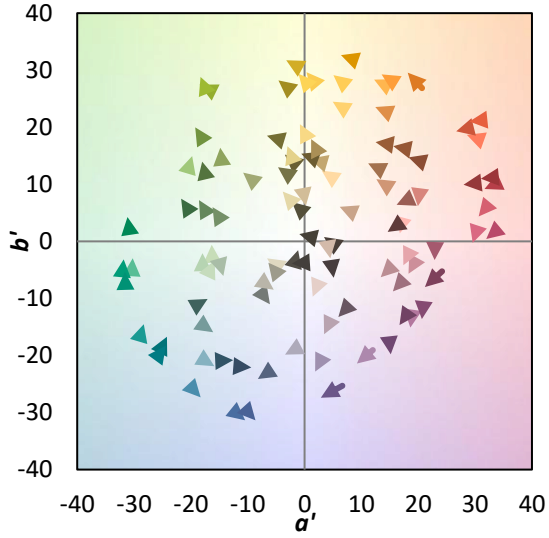


Color Vector Graphics







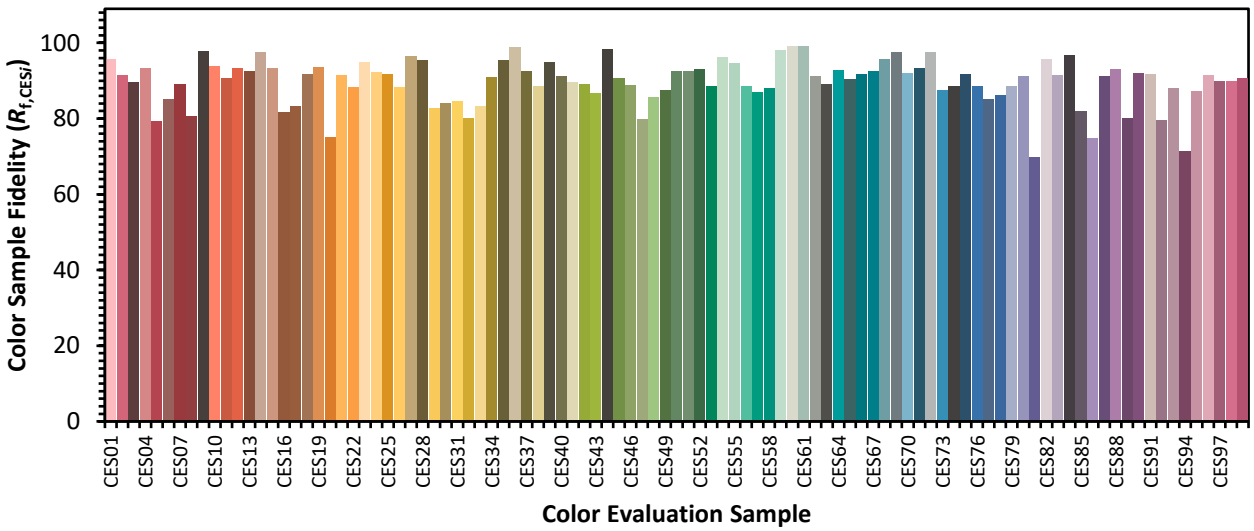


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Individual Sample Fidelity Index ($R_{f,i}$)

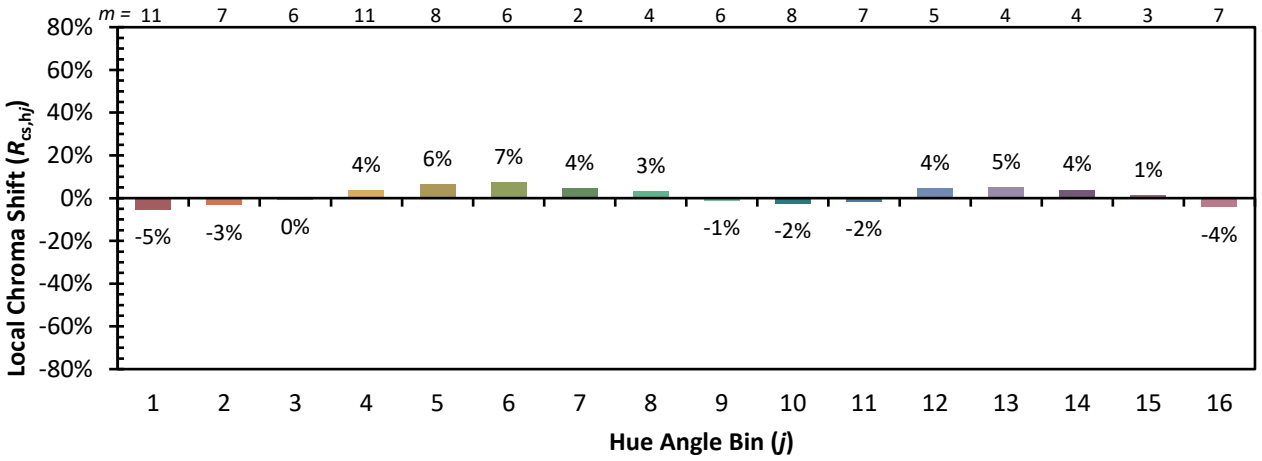
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CES02 = 64	CES27 = 97	CES52 = 93	CES77 = 85
CES03 = 32	CES28 = 95	CES53 = 88	CES78 = 86
CES04 = 70	CES29 = 83	CES54 = 96	CES79 = 89
CES05 = 51	CES30 = 84	CES55 = 95	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 70
CES07 = 44	CES32 = 80	CES57 = 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	

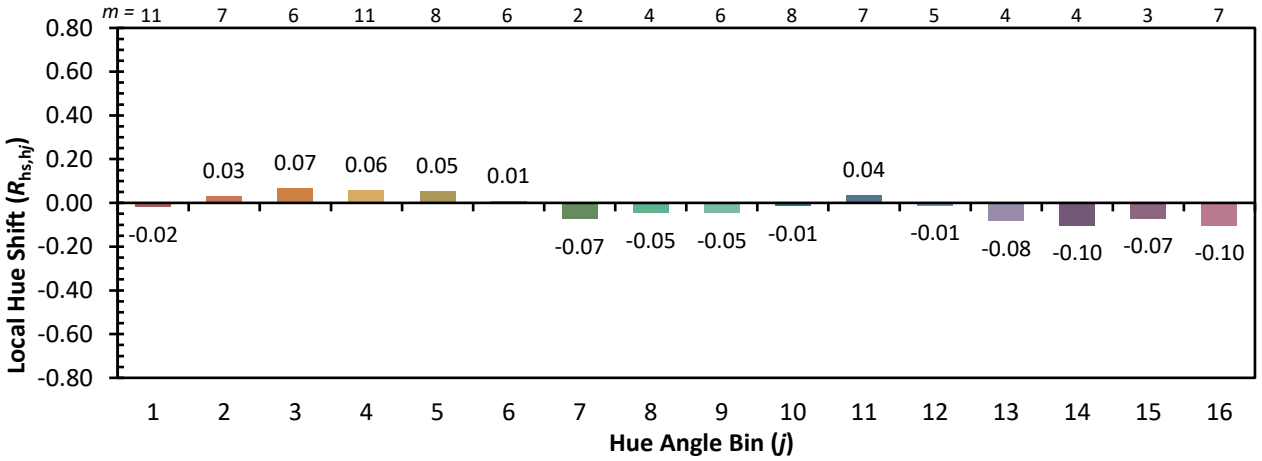


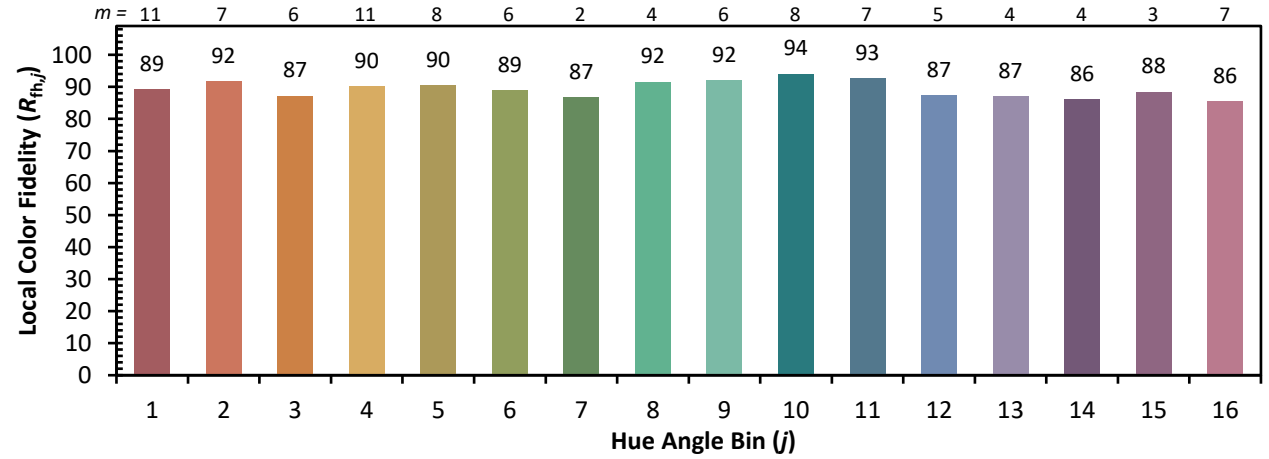
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Color Rendition by Hue-Angle Bin



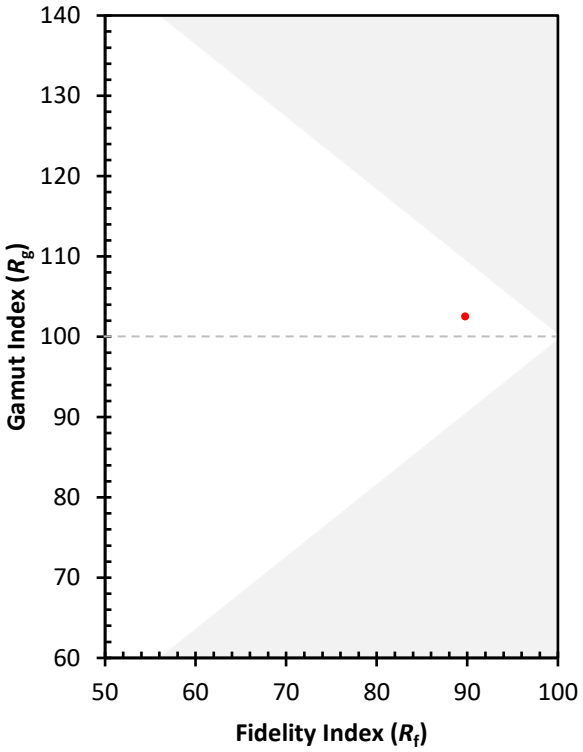


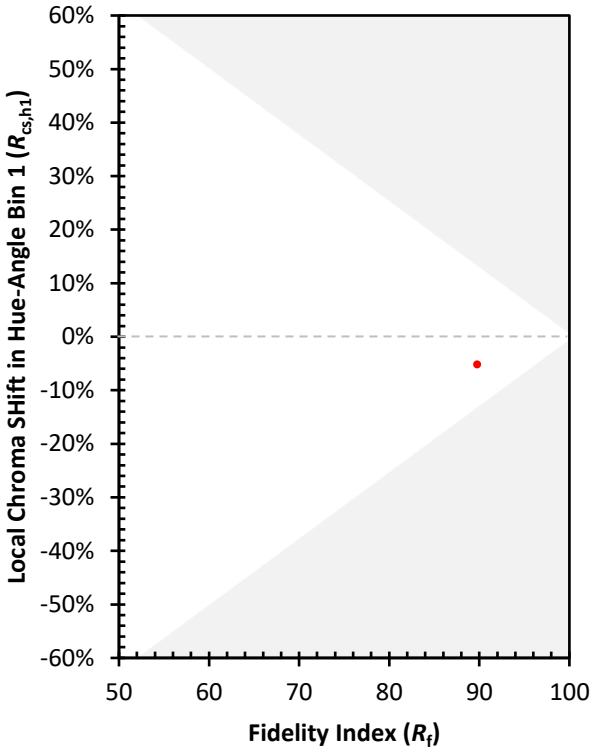


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Measure Comparisons





(END OF REPORT)