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: P1590752

Luminaire Tested: 22CGTX-50-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:	P1590752
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-50-L92765-W2A-2700K
Description:	2X2 5000 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:	5358.0 lumens
Efficiency:	N/A
Efficacy:	100.7 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	53.2
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

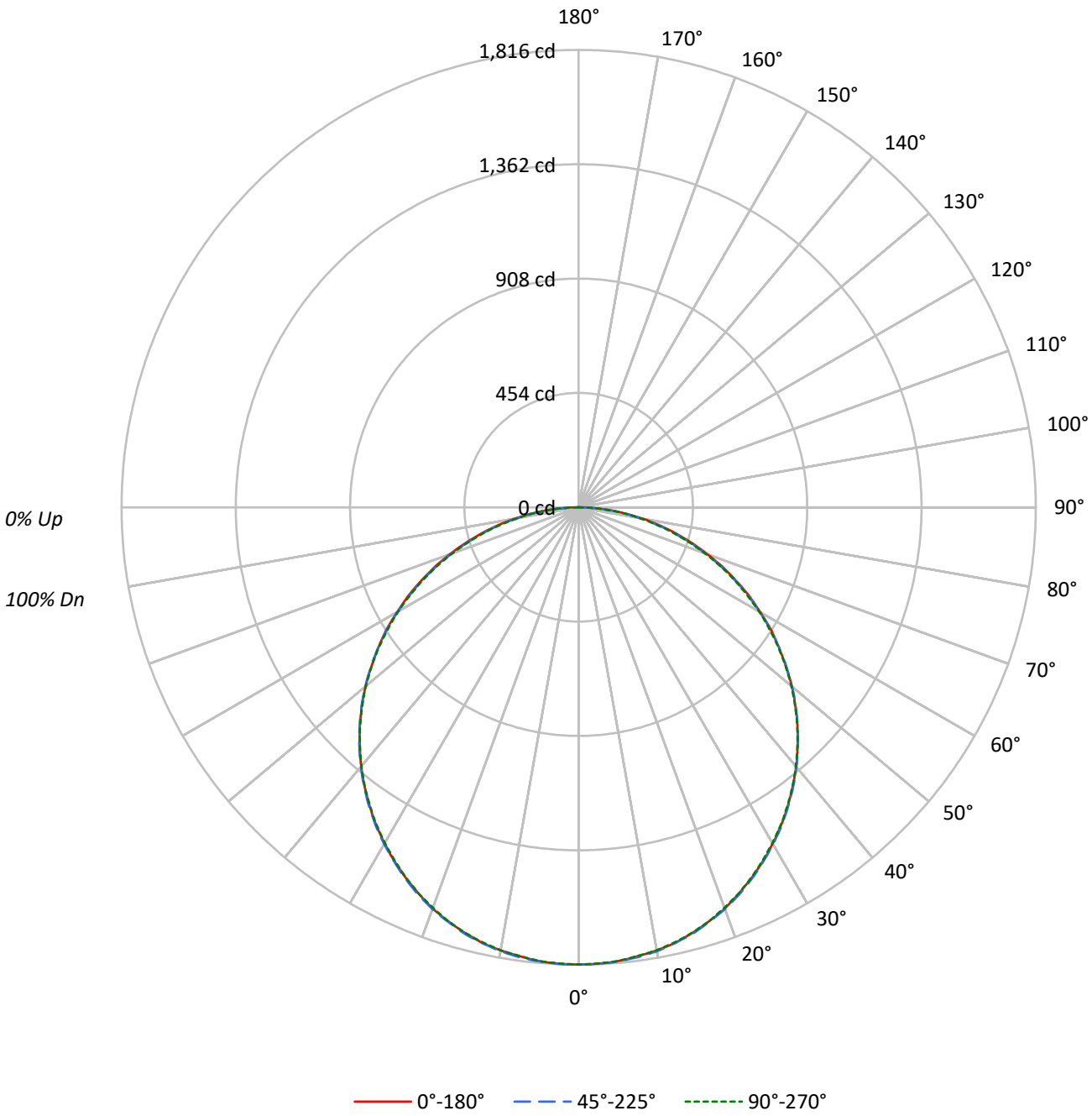


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TEST NUMBER: P1590752
CATALOG NUMBER: 22CGTX-50-L92765-W2A-2700K

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	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	69
3	89	79	70	64	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	40	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	37	31	43	36	31	42	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	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4887	4887	4887
5°	4887	4889	4884
10°	4883	4891	4880
15°	4873	4884	4870
20°	4857	4863	4845
25°	4822	4834	4819
30°	4791	4801	4782
35°	4757	4767	4750
40°	4721	4728	4714
45°	4677	4685	4673
50°	4626	4630	4618
55°	4556	4560	4541
60°	4478	4467	4451
65°	4394	4355	4336
70°	4280	4225	4186
75°	4138	4055	4013
80°	3952	3812	3781
85°	3643	3427	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 4689 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590752
CATALOG NUMBER: 22CGTX-50-L92765-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.2
10°-20°	494.0	9.2
20°-30°	749.2	14.0
30°-40°	906.7	16.9
40°-50°	948.4	17.7
50°-60°	868.1	16.2
60°-70°	678.2	12.7
70°-80°	413.7	7.7
80°-90°	127.7	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°	1415.2	26.4
0°-40°	2321.9	43.3
0°-60°	4138.3	77.2
0°-90°	5358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1809	1809	1810	1810	1808	172
15°	1749	1751	1753	1751	1748	494
25°	1624	1626	1628	1625	1623	749
35°	1448	1450	1451	1447	1446	906
45°	1229	1232	1231	1228	1228	948
55°	971	975	972	969	968	869
65°	690	688	684	683	681	683
75°	398	395	390	390	386	420
85°	118	116	111	114	110	132
90°	0	0	0	0	0	

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TEST NUMBER: P1590752
CATALOG NUMBER: 22CGTX-50-L92765-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816	1816	1816	*1816*	1816
2.5°	*1814*	*1816*	*1815*	*1817*	*1813*
5°	1809	1809	1810	*1810*	1808
7.5°	1798	1800	1802	*1800*	1797
10°	1787	1788	1790	*1788*	1786
12.5°	1772	1772	1772	*1772*	1769
15°	1749	1751	1753	*1751*	1748
17.5°	1724	1725	1726	*1725*	1723
20°	1696	1696	1698	*1695*	1692
22.5°	1661	1663	1665	*1662*	1660
25°	1624	1626	1628	*1625*	1623
27.5°	1585	1586	1587	*1584*	1582
30°	1542	1542	1545	*1542*	1539
32.5°	1497	1499	1500	*1496*	1495
35°	1448	1450	1451	*1447*	1446
37.5°	1397	1400	1400	*1398*	1396
40°	1344	1347	1346	*1342*	1342
42.5°	1287	1291	1290	*1287*	1286
45°	1229	1232	1231	*1228*	1228
47.5°	1168	1171	1170	*1166*	1166
50°	1105	1107	1106	*1103*	1103
52.5°	1038	1042	1040	*1038*	1036
55°	971	975	972	*969*	968
57.5°	906	904	903	*900*	898
60°	832	834	830	*829*	827
62.5°	764	762	758	*756*	754
65°	690	688	684	*683*	681
67.5°	618	616	611	*609*	607
70°	544	542	537	*535*	532
72.5°	470	469	461	*461*	458
75°	398	395	390	*390*	386
77.5°	325	323	317	*319*	313
80°	255	252	246	*249*	244
82.5°	184	182	177	*179*	175
85°	118	116	111	*114*	110
87.5°	55	53	49	*53*	49
90°	0	0	0	*0*	0

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TEST NUMBER: P1590752
CATALOG NUMBER: 22CGTX-50-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	17.46	19.13	17.83	19.44	19.75	17.43	19.09	17.79	19.40	19.72
	3H	19.41	20.91	19.78	21.24	21.60	19.34	20.84	19.71	21.17	21.53
	4H	20.17	21.60	20.57	21.94	22.32	20.08	21.51	20.48	21.85	22.23
	6H	20.78	22.10	21.19	22.47	22.86	20.67	21.99	21.08	22.35	22.74
	8H	21.00	22.26	21.42	22.65	23.05	20.87	22.13	21.30	22.52	22.92
	12H	21.15	22.36	21.58	22.74	23.17	21.01	22.22	21.44	22.61	23.03
4H	2H	18.13	19.55	18.52	19.89	20.27	18.10	19.52	18.49	19.87	20.24
	3H	20.29	21.49	20.70	21.89	22.29	20.23	21.43	20.64	21.83	22.23
	4H	21.20	22.29	21.63	22.70	23.14	21.12	22.21	21.55	22.62	23.06
	6H	21.95	22.90	22.41	23.34	23.80	21.85	22.80	22.31	23.24	23.70
	8H	22.22	23.12	22.68	23.56	24.02	22.11	23.00	22.57	23.44	23.91
	12H	22.43	23.24	22.91	23.71	24.18	22.31	23.11	22.78	23.58	24.05
8H	4H	21.55	22.44	22.01	22.89	23.35	21.49	22.38	21.94	22.82	23.28
	6H	22.44	23.19	22.93	23.67	24.15	22.35	23.10	22.85	23.59	24.06
	8H	22.80	23.47	23.31	23.97	24.46	22.70	23.37	23.21	23.87	24.36
	12H	23.10	23.69	23.61	24.18	24.74	22.98	23.58	23.49	24.07	24.62
12H	4H	21.60	22.40	22.08	22.88	23.35	21.53	22.34	22.01	22.81	23.28
	6H	22.52	23.19	23.02	23.69	24.18	22.43	23.10	22.94	23.61	24.09
	8H	22.94	23.53	23.44	24.02	24.58	22.84	23.43	23.35	23.92	24.48

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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

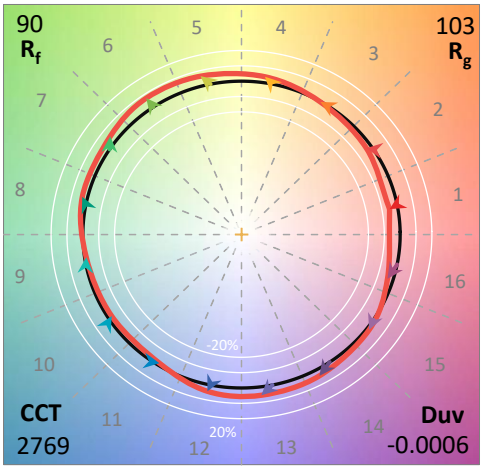
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Version: v7.05

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

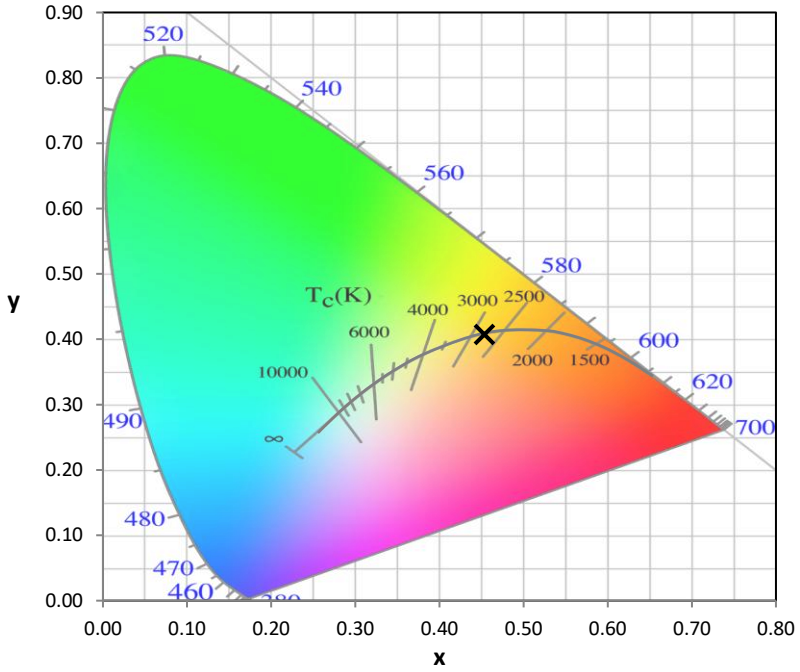
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

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

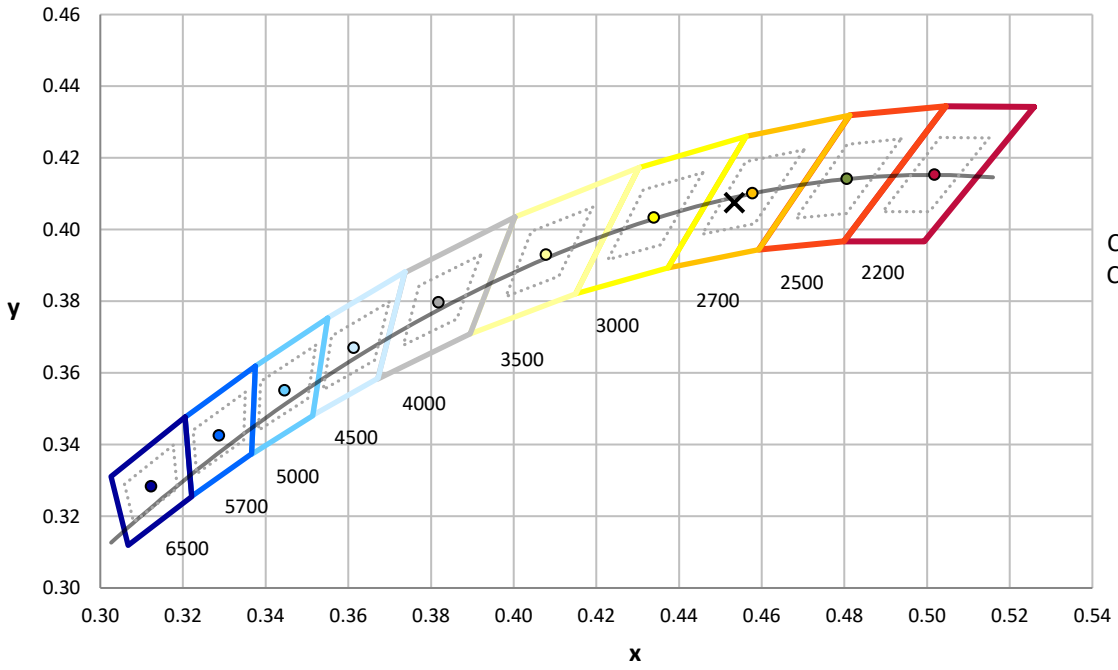
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

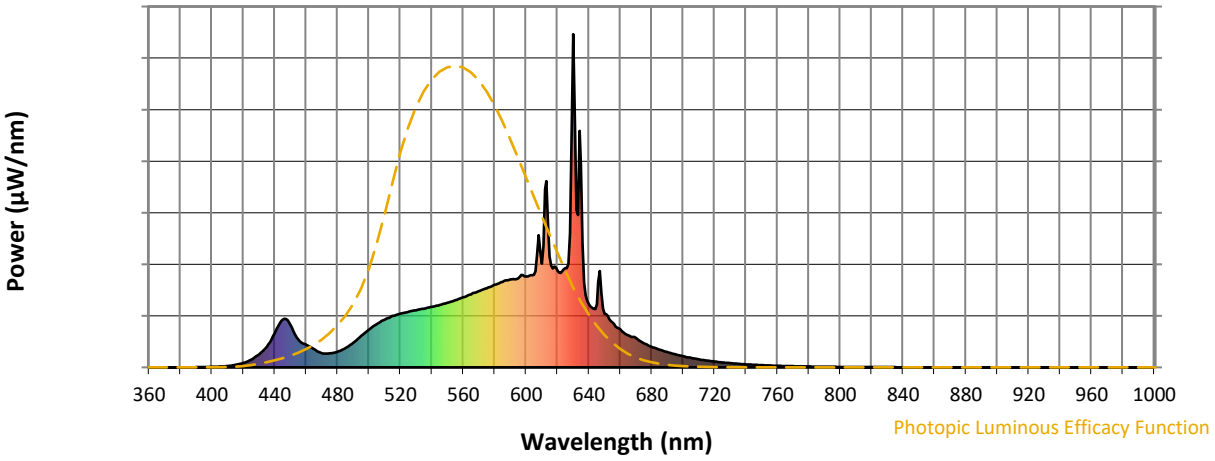


CCT = 2769K
CIE x = 0.4534
CIE y = 0.4074
Duv = -0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

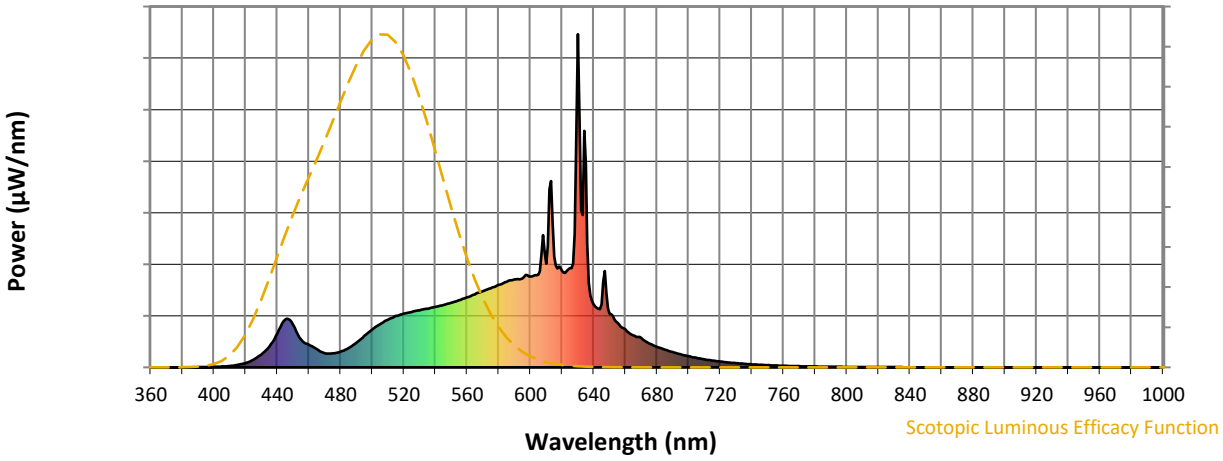


Photopic Lumens: NR

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

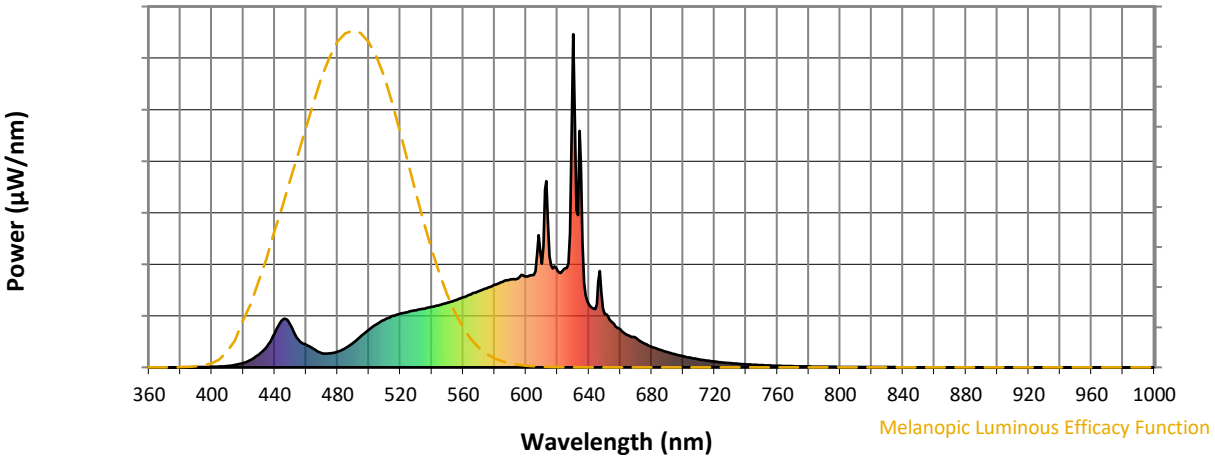


Scotopic Lumens: NR **S/P: 1.3**

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			

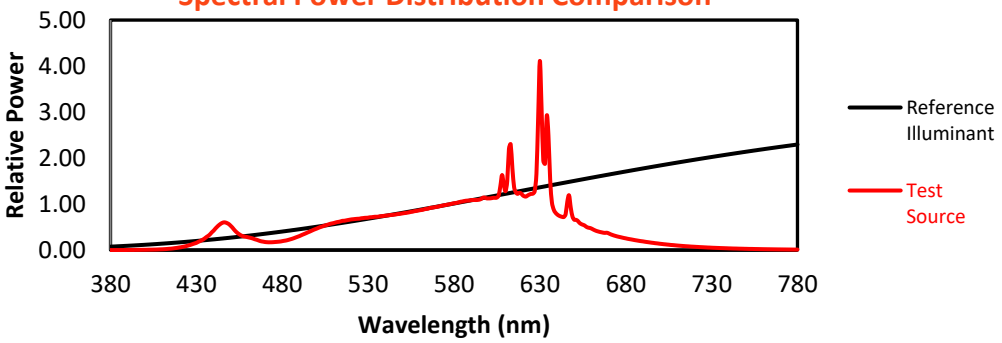
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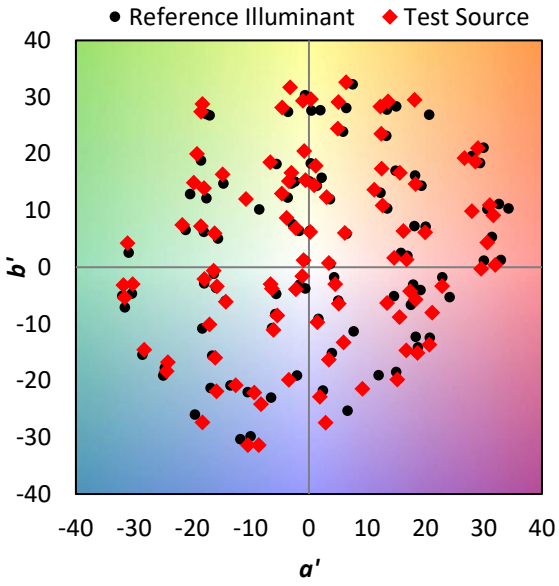
Summary

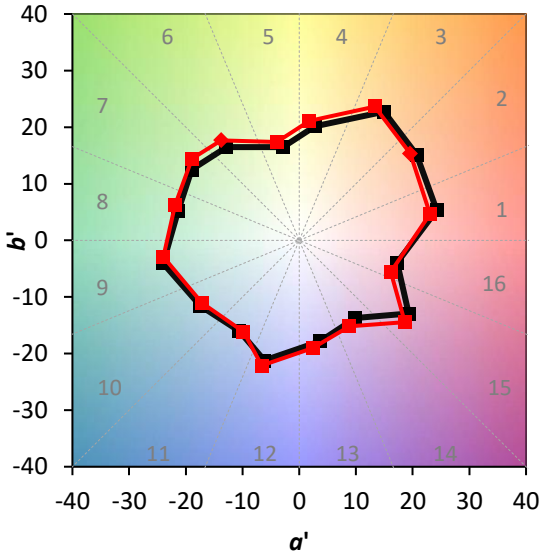
R_f = 89.8
R_g = 102.5
CIE R_a = 93.3
R_9 = 56.5

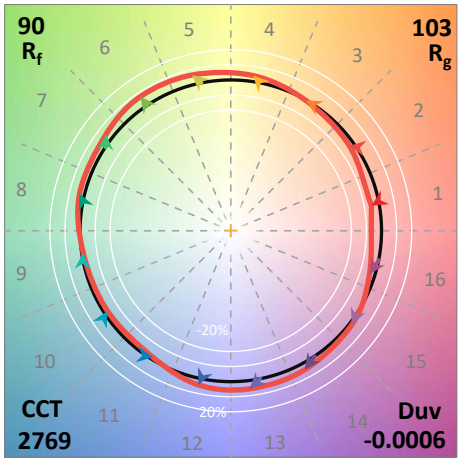
Spectral Power Distribution Comparison

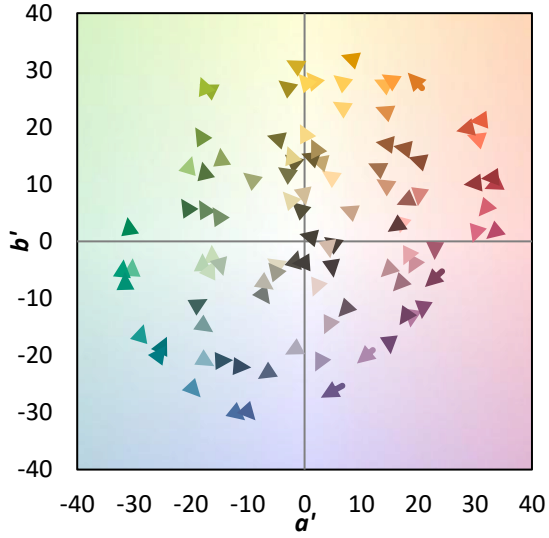


Color Vector Graphics







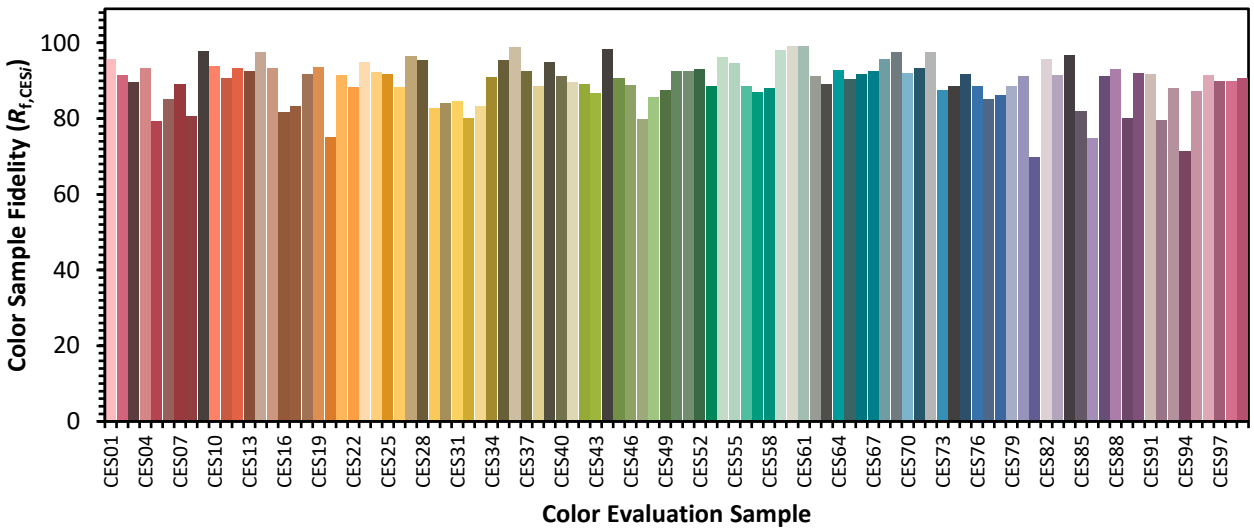


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Individual Sample Fidelity Index ($R_{f,i}$)

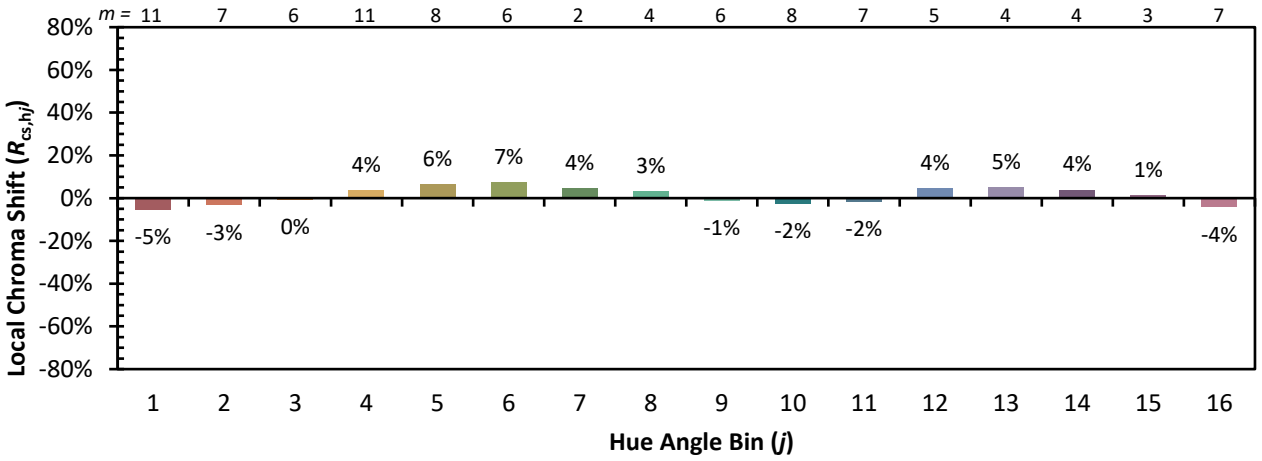
CES01 = 86	CES26 = 88	CES51 = 92	CES76 = 89
CES02 = 64	CES27 = 97	CES52 = 93	CES77 = 85
CES03 = 32	CES28 = 95	CES53 = 88	CES78 = 86
CES04 = 70	CES29 = 83	CES54 = 96	CES79 = 89
CES05 = 51	CES30 = 84	CES55 = 95	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 70
CES07 = 44	CES32 = 80	CES57 = 87	CES82 = 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	

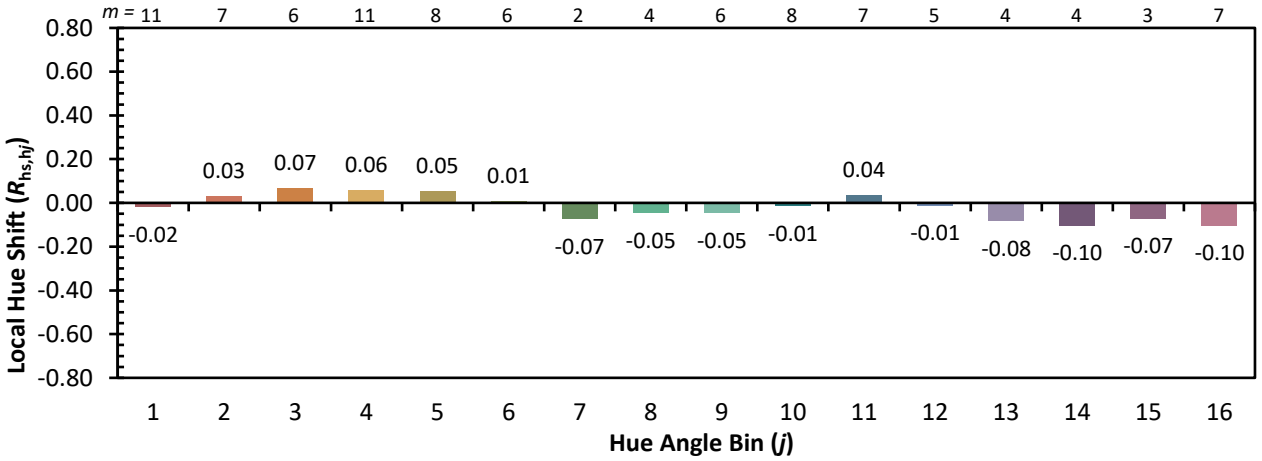


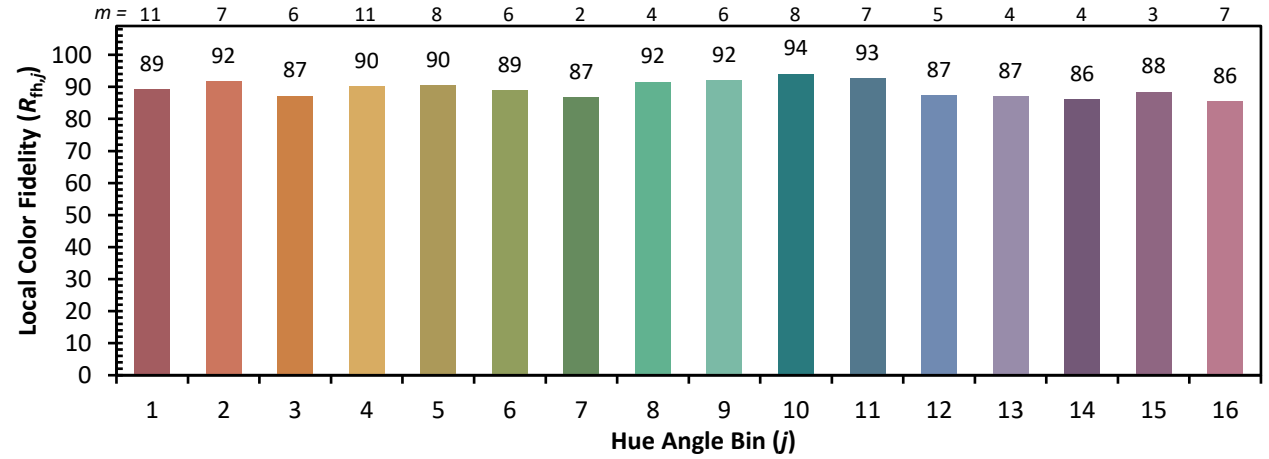
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Color Rendition by Hue-Angle Bin



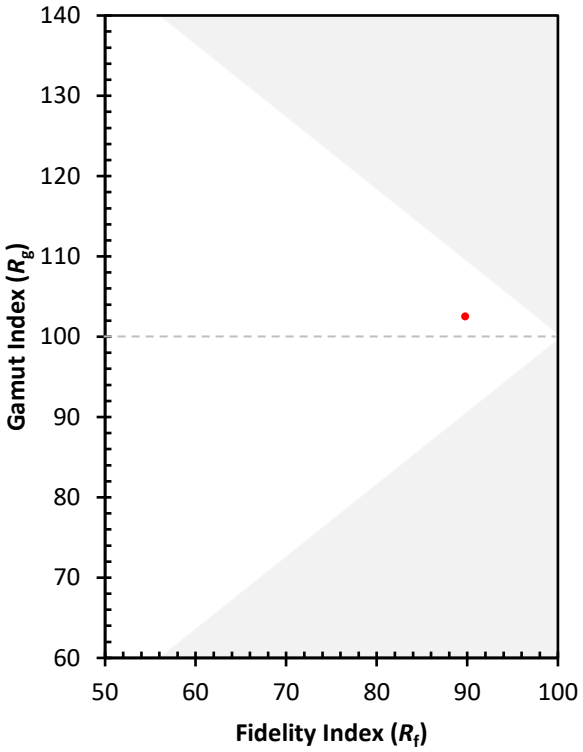


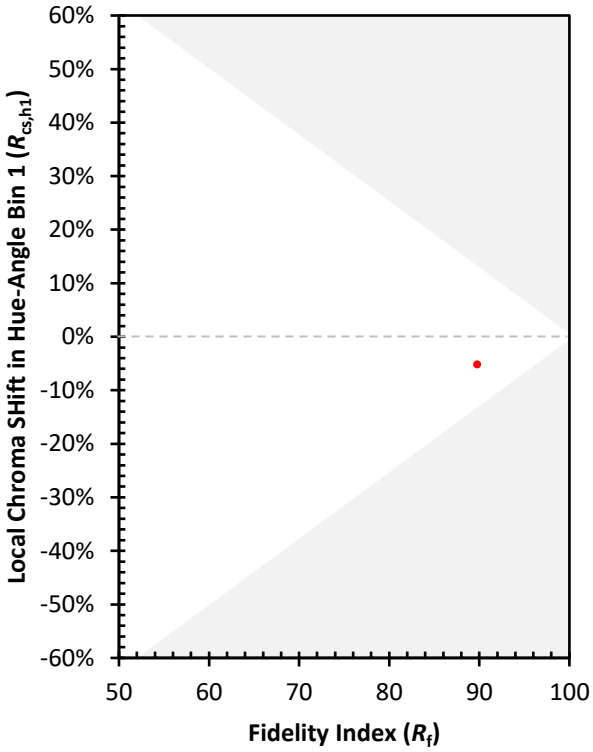


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Measure Comparisons





(END OF REPORT)