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: P1590926

Luminaire Tested: 22CGTX-50-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:	P1590926
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-50-L93050-W2A-3000K
Description:	2X2 5000 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:	5416.4 lumens
Efficiency:	N/A
Efficacy:	102.0 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 1.81' x L: 1.81' x H: 0')
CIE Type:	Direct
Input Watts (W):	53.1
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

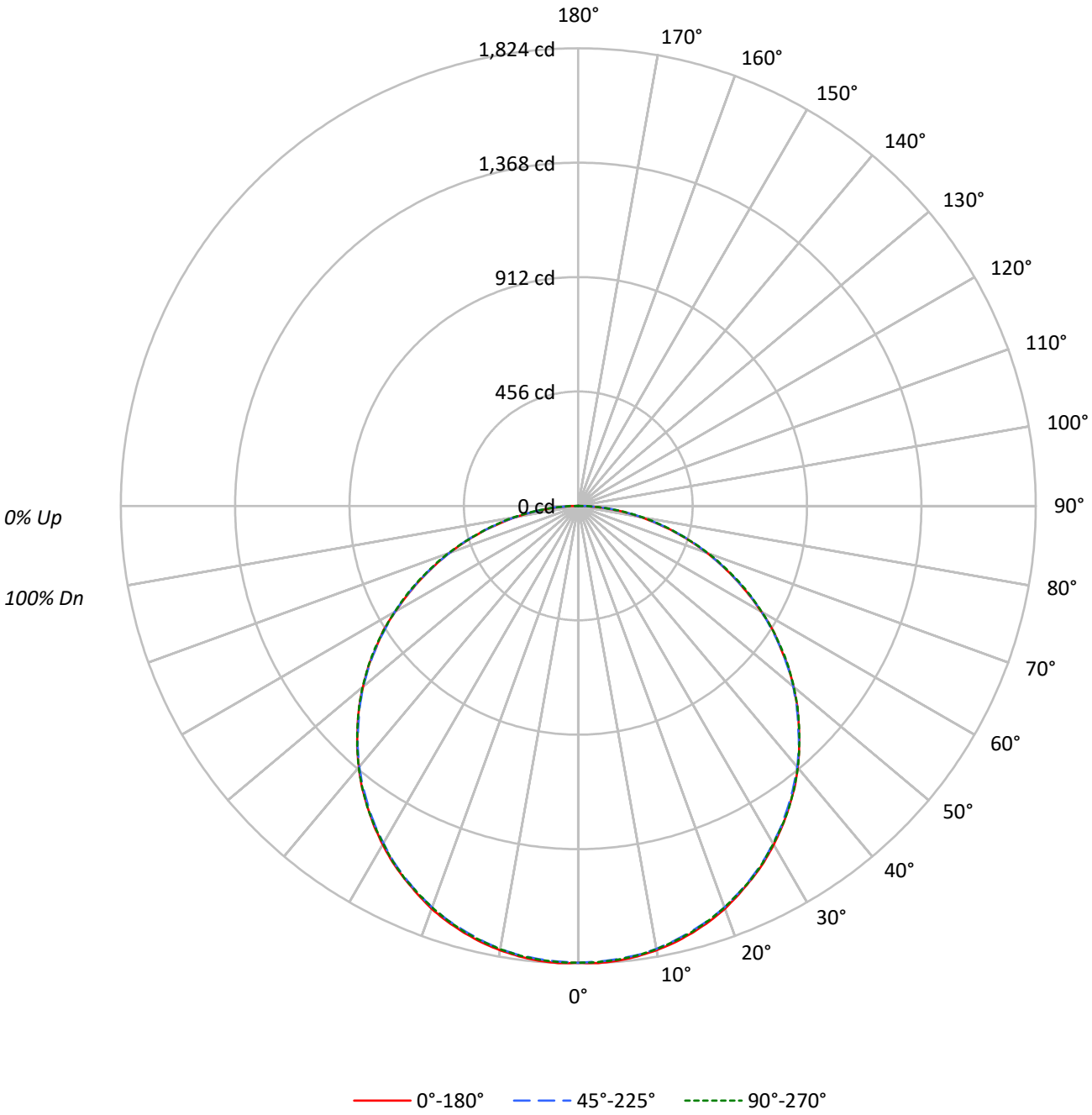


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Scaled Data Report

TEST NUMBER: P1590926
CATALOG NUMBER: 22CGTX-50-L93050-W2A-3000K

Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1590926
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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°	5967	5967	5967
5°	5986	5963	5970
10°	5982	5965	5969
15°	5974	5950	5960
20°	5959	5938	5938
25°	5925	5911	5922
30°	5898	5876	5883
35°	5860	5840	5864
40°	5821	5808	5826
45°	5764	5746	5769
50°	5709	5699	5719
55°	5615	5621	5650
60°	5518	5531	5537
65°	5373	5388	5419
70°	5221	5211	5288
75°	5001	5051	5051
80°	4698	4774	4868
85°	4135	4398	4361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 5769 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590926
CATALOG NUMBER: 22CGTX-50-L93050-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.6	3.2
10°-20°	495.8	9.2
20°-30°	754.3	13.9
30°-40°	915.2	16.9
40°-50°	959.2	17.7
50°-60°	880.7	16.3
60°-70°	688.4	12.7
70°-80°	420.6	7.8
80°-90°	129.6	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°	1422.7	26.3
0°-40°	2338.0	43.2
0°-60°	4177.8	77.1
0°-90°	5416.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5416.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1820	1818	1813	1813	1815	173
15°	1761	1758	1754	1754	1757	497
25°	1639	1637	1635	1634	1638	756
35°	1465	1463	1460	1463	1466	917
45°	1244	1242	1240	1245	1245	960
55°	983	986	984	985	989	881
65°	693	694	695	699	699	686
75°	395	396	399	401	399	417
85°	110	113	117	116	116	126
90°	0	0	0	0	0	

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TEST NUMBER: P1590926
CATALOG NUMBER: 22CGTX-50-L93050-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1821*	1821	1821	1821	1821
2.5°	*1824*	*1821*	*1818*	*1817*	*1820*
5°	*1820*	1818	1813	1813	1815
7.5°	*1811*	1808	1806	1804	1807
10°	*1798*	1795	1793	1792	1794
12.5°	*1782*	1779	1775	1775	1777
15°	*1761*	1758	1754	1754	1757
17.5°	*1737*	1734	1731	1731	1732
20°	*1709*	1705	1703	1703	1703
22.5°	*1675*	1672	1670	1670	1671
25°	*1639*	1637	1635	1634	1638
27.5°	*1602*	1599	1597	1598	1599
30°	*1559*	1556	1553	1555	1555
32.5°	*1514*	1511	1509	1509	1512
35°	*1465*	1463	1460	1463	1466
37.5°	*1416*	1413	1410	1411	1415
40°	*1361*	1358	1358	1358	1362
42.5°	*1304*	1302	1302	1302	1304
45°	*1244*	1242	1240	1245	1245
47.5°	*1185*	1181	1181	1183	1185
50°	*1120*	1121	1118	1119	1122
52.5°	*1056*	1053	1052	1053	1057
55°	*983*	986	984	985	989
57.5°	*920*	914	913	919	918
60°	*842*	842	844	847	845
62.5°	*767*	768	770	773	774
65°	*693*	694	695	699	699
67.5°	*618*	619	620	620	625
70°	*545*	544	544	550	552
72.5°	*469*	470	475	475	473
75°	*395*	396	399	401	399
77.5°	*319*	322	323	327	328
80°	*249*	250	253	254	258
82.5°	*179*	180	182	185	187
85°	*110*	113	117	116	116
87.5°	*51*	51	53	53	56
90°	*0*	0	0	0	0

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TEST NUMBER: P1590926
CATALOG NUMBER: 22CGTX-50-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	18.19	19.85	18.55	20.17	20.48	18.22	19.88	18.58	20.20	20.51
	3H	20.10	21.61	20.48	21.94	22.30	20.14	21.65	20.52	21.98	22.34
	4H	20.86	22.28	21.25	22.63	23.00	20.90	22.33	21.30	22.68	23.05
	6H	21.44	22.76	21.85	23.12	23.51	21.51	22.83	21.92	23.20	23.59
	8H	21.64	22.90	22.06	23.29	23.69	21.73	22.99	22.15	23.38	23.78
	12H	21.78	22.99	22.21	23.37	23.80	21.88	23.09	22.31	23.47	23.90
4H	2H	18.86	20.28	19.25	20.63	21.00	18.88	20.30	19.28	20.65	21.02
	3H	21.00	22.20	21.41	22.60	22.99	21.04	22.24	21.45	22.63	23.03
	4H	21.89	22.98	22.32	23.39	23.83	21.94	23.03	22.37	23.44	23.87
	6H	22.61	23.57	23.07	24.01	24.46	22.69	23.64	23.14	24.08	24.53
	8H	22.87	23.77	23.33	24.21	24.67	22.96	23.85	23.42	24.29	24.76
	12H	23.06	23.87	23.54	24.34	24.81	23.16	23.97	23.64	24.44	24.91
8H	4H	22.25	23.15	22.71	23.59	24.05	22.30	23.19	22.76	23.63	24.10
	6H	23.12	23.86	23.61	24.35	24.82	23.18	23.93	23.67	24.41	24.89
	8H	23.46	24.13	23.97	24.63	25.12	23.54	24.21	24.05	24.71	25.20
	12H	23.74	24.33	24.24	24.82	25.38	23.83	24.43	24.34	24.92	25.47
12H	4H	22.30	23.11	22.78	23.58	24.05	22.34	23.15	22.82	23.62	24.09
	6H	23.20	23.87	23.70	24.37	24.86	23.26	23.93	23.76	24.43	24.92
	8H	23.60	24.20	24.11	24.69	25.24	23.68	24.27	24.19	24.76	25.32

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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

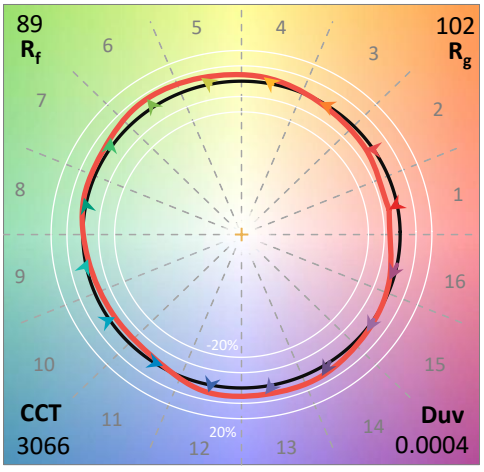
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

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				



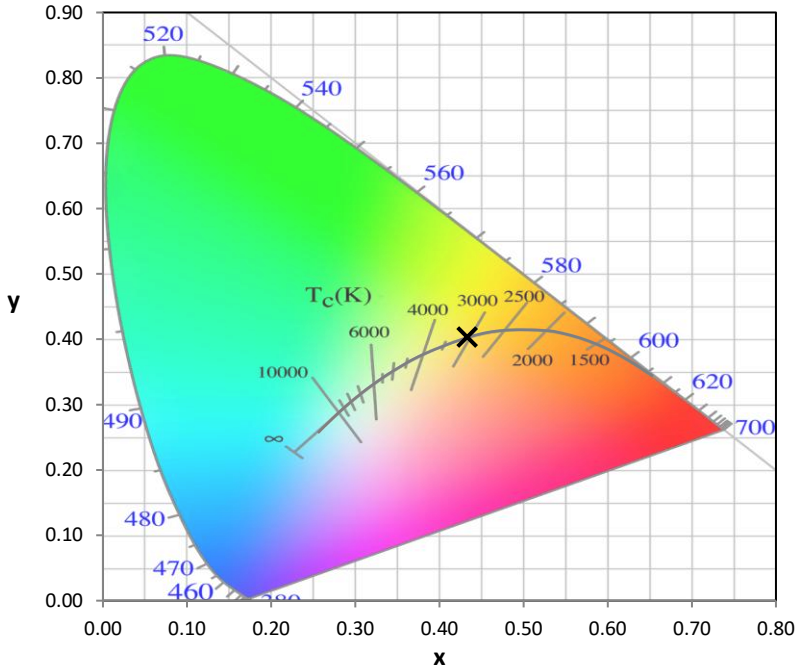
Test Conditions

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

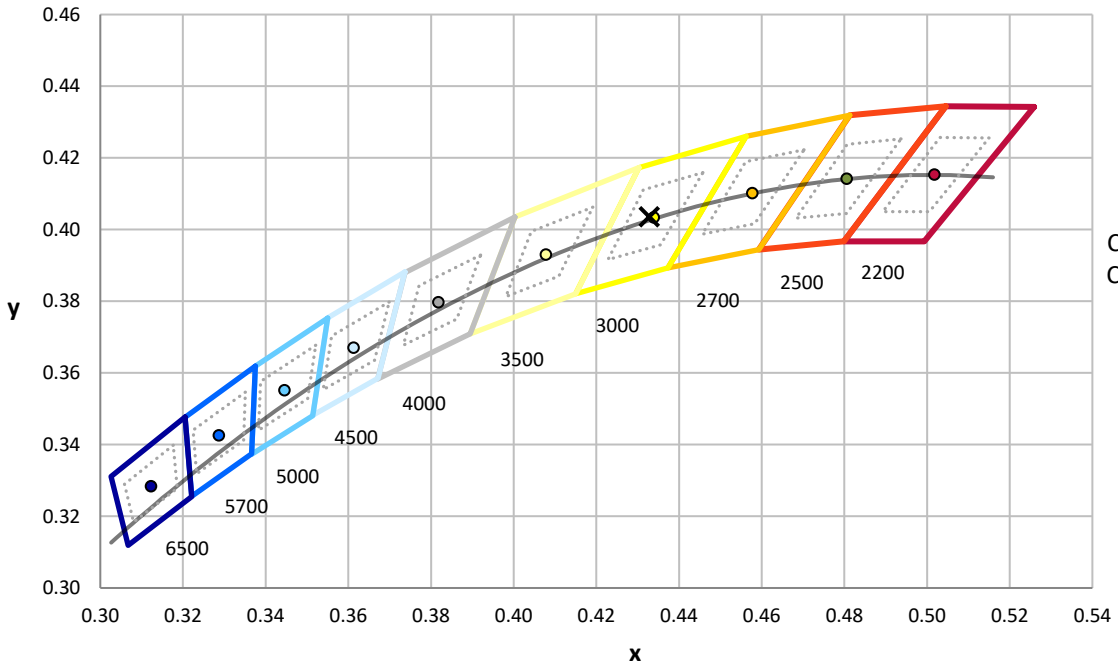
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



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

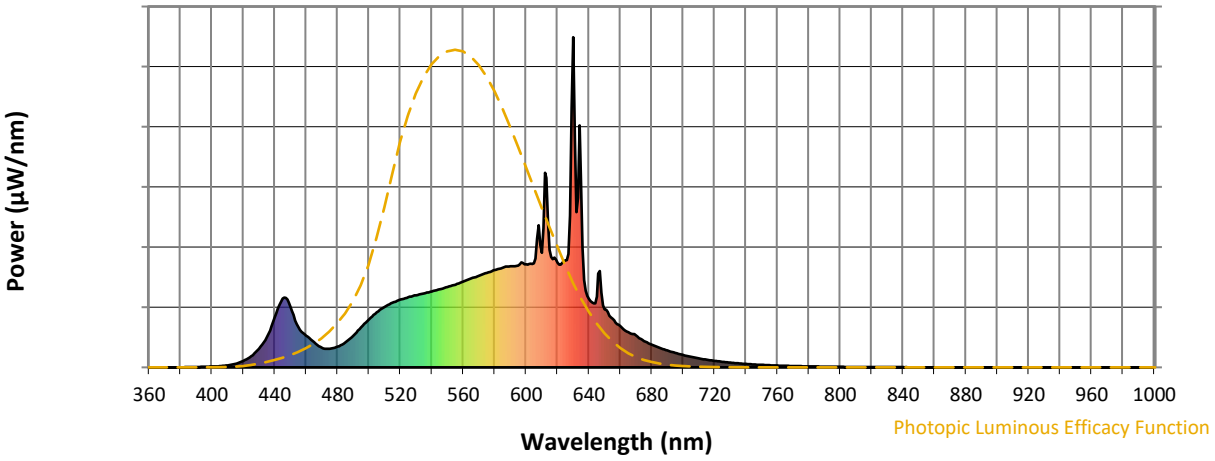


CCT = 3066K
CIE x = 0.4328
CIE y = 0.4036
Duv = 0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

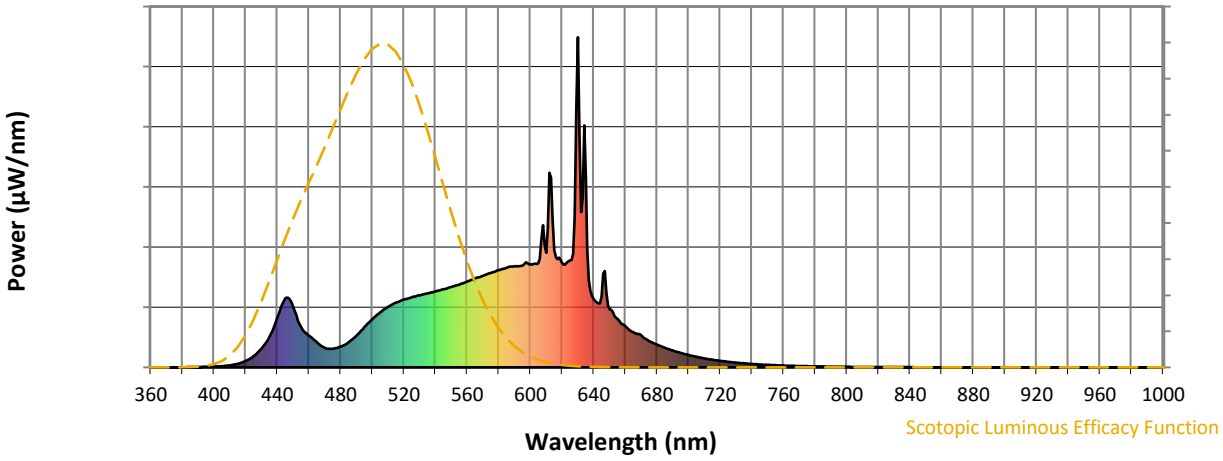


Photopic Lumens: NR

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	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

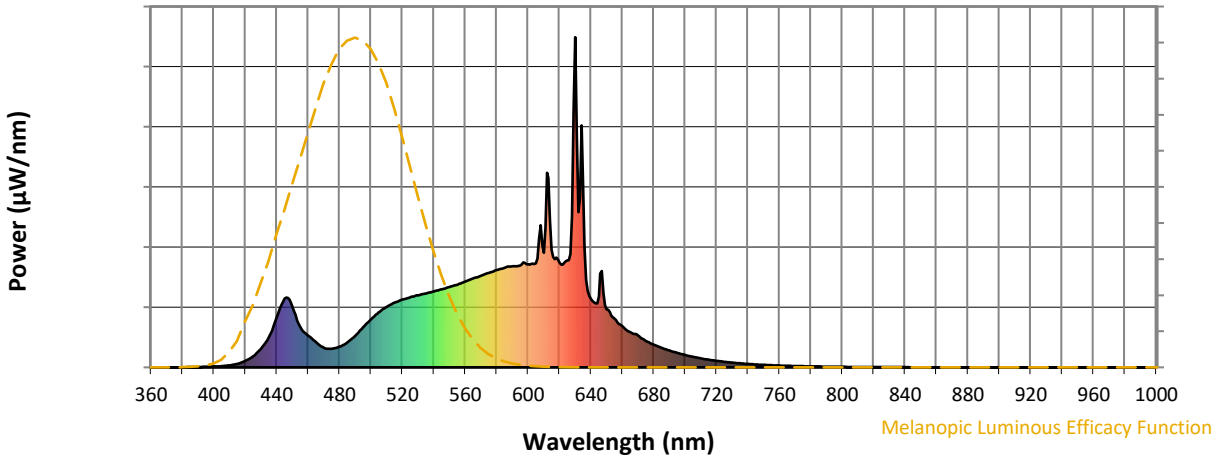


Scotopic Lumens: NR **S/P: 1.41**

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			

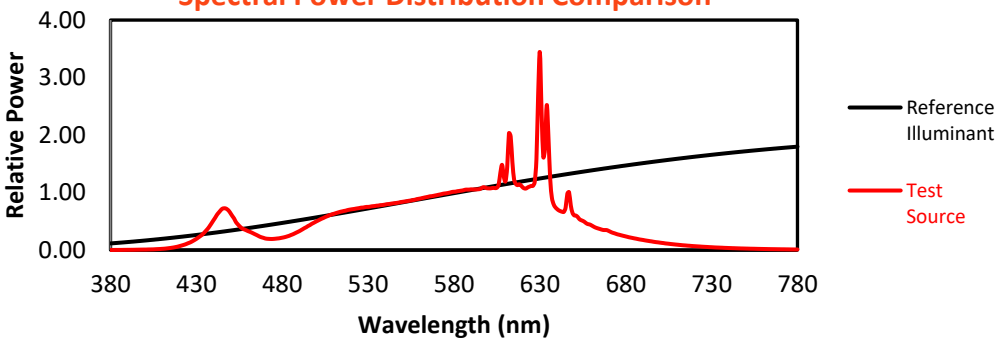
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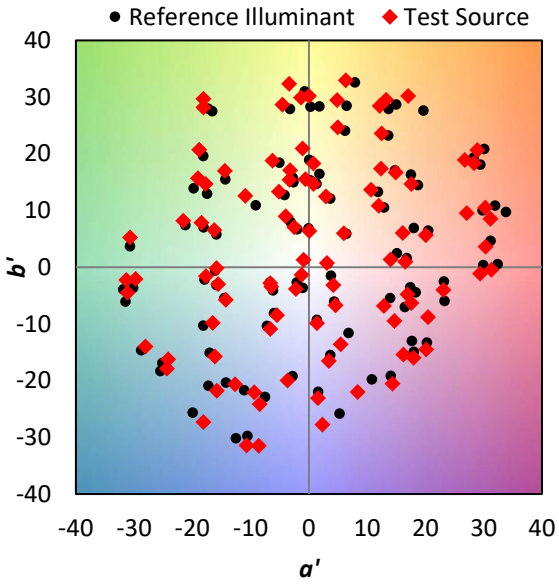
Summary

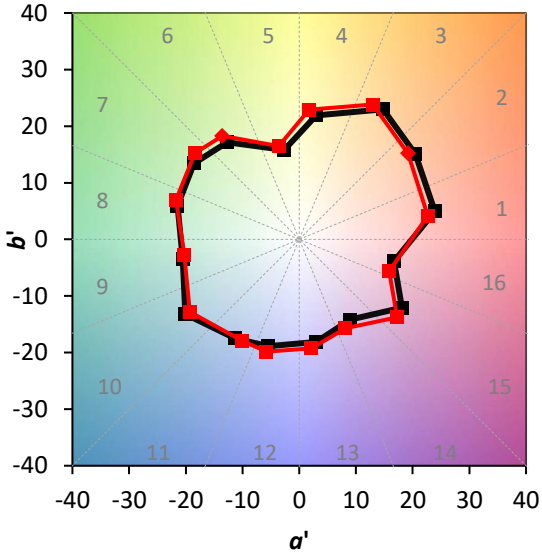
R_f = 89.5
R_g = 102
CIE R_a = 91.7
R_9 = 52.5

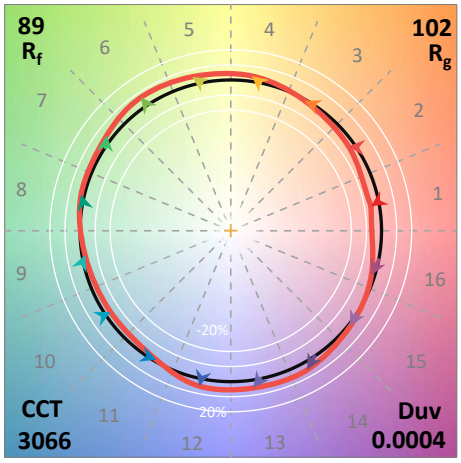
Spectral Power Distribution Comparison

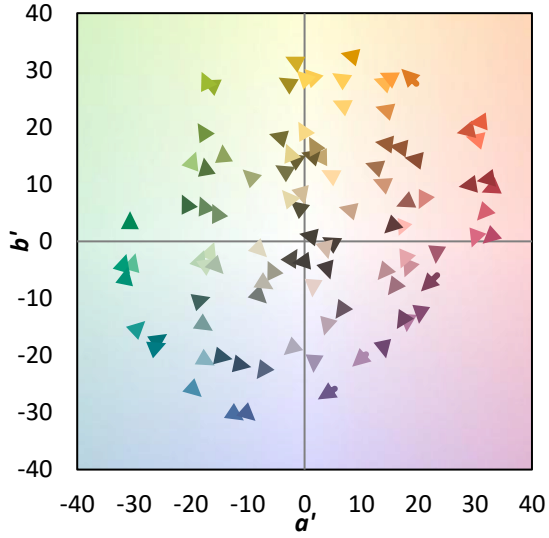


Color Vector Graphics







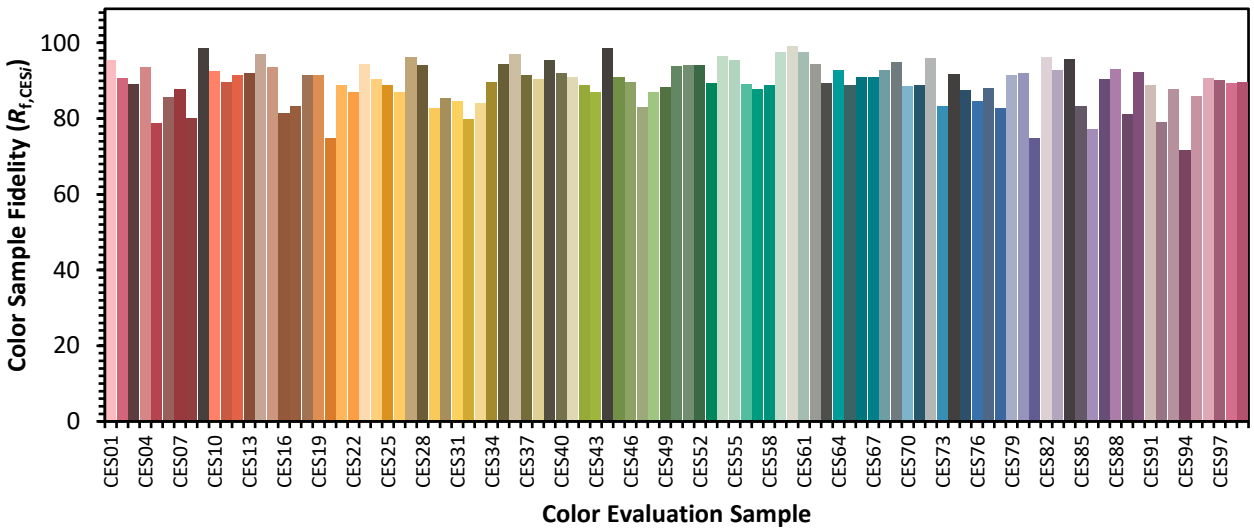


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Individual Sample Fidelity Index ($R_{f,i}$)

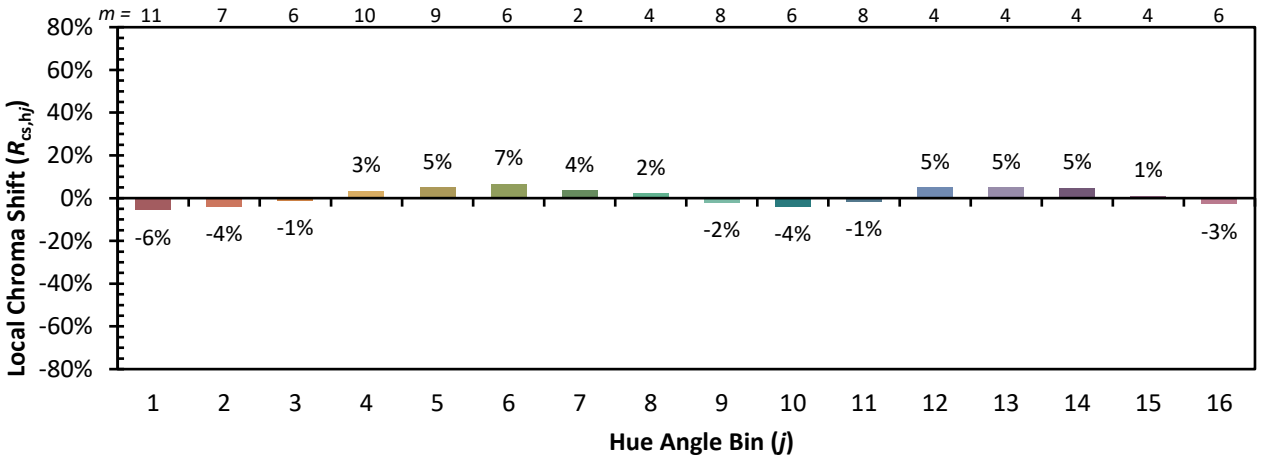
CES01 = 86	CES26 = 87	CES51 = 94	CES76 = 85
CES02 = 63	CES27 = 96	CES52 = 94	CES77 = 88
CES03 = 32	CES28 = 94	CES53 = 89	CES78 = 83
CES04 = 70	CES29 = 83	CES54 = 97	CES79 = 92
CES05 = 50	CES30 = 85	CES55 = 95	CES80 = 92
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 75
CES07 = 43	CES32 = 80	CES57 = 88	CES82 = 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	

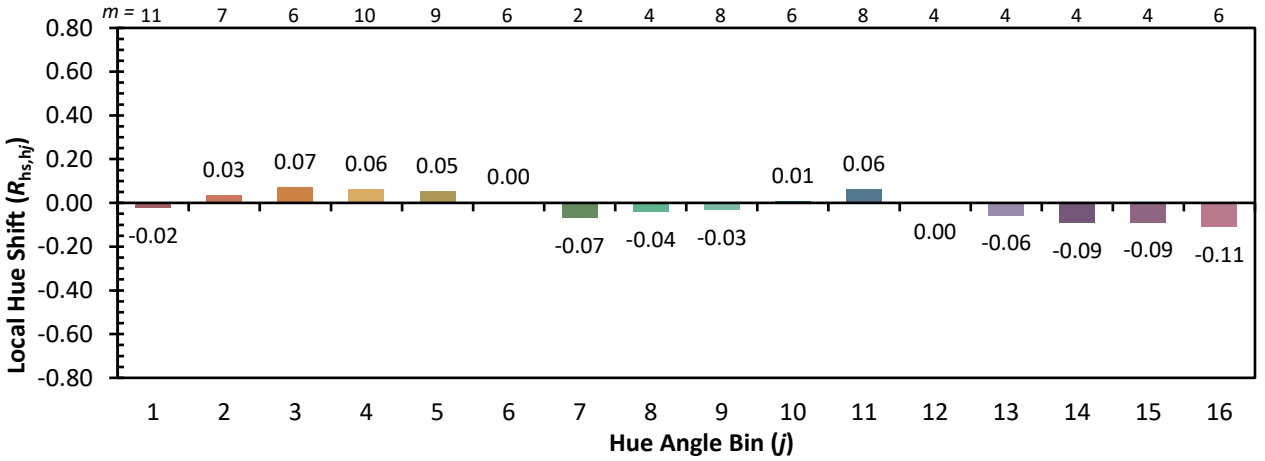


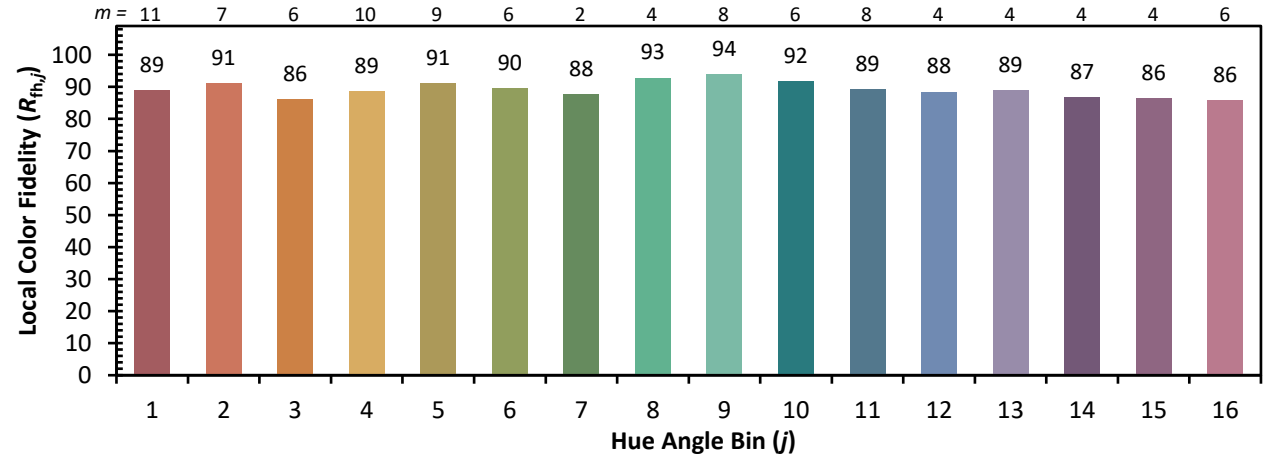
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Color Rendition by Hue-Angle Bin



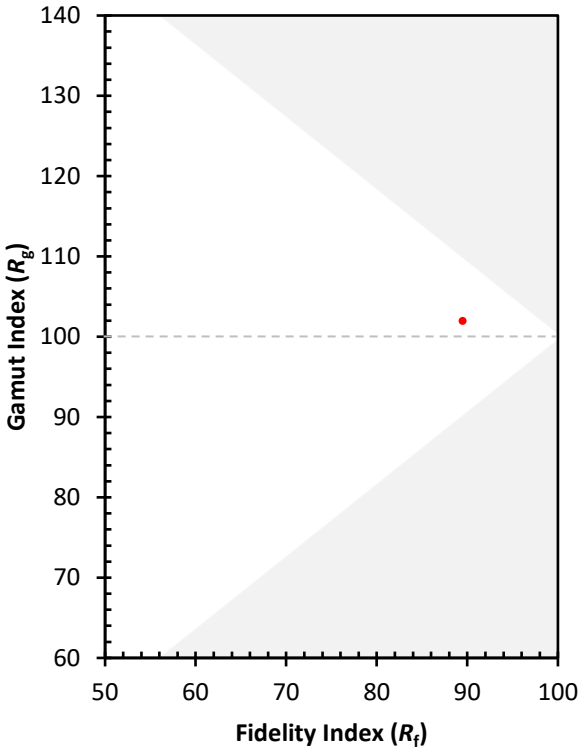


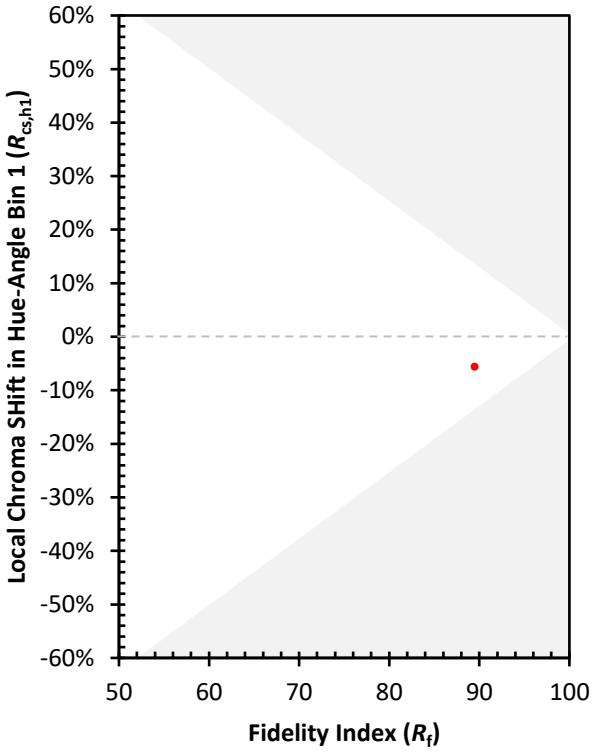


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Measure Comparisons





(END OF REPORT)