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: P1590955

Luminaire Tested: 24CGTX-45-L93050-W2A-5000K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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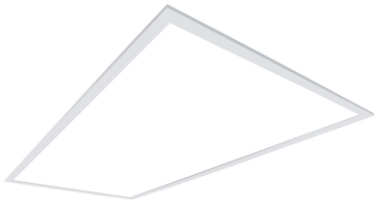
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590955
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2512-631-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-45-L93050-W2A-5000K
Description:	2X4 4500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 5000K CCT
Light Source:	5000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5220.8 lumens
Efficiency:	N/A
Efficacy:	121.1 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	43.1
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

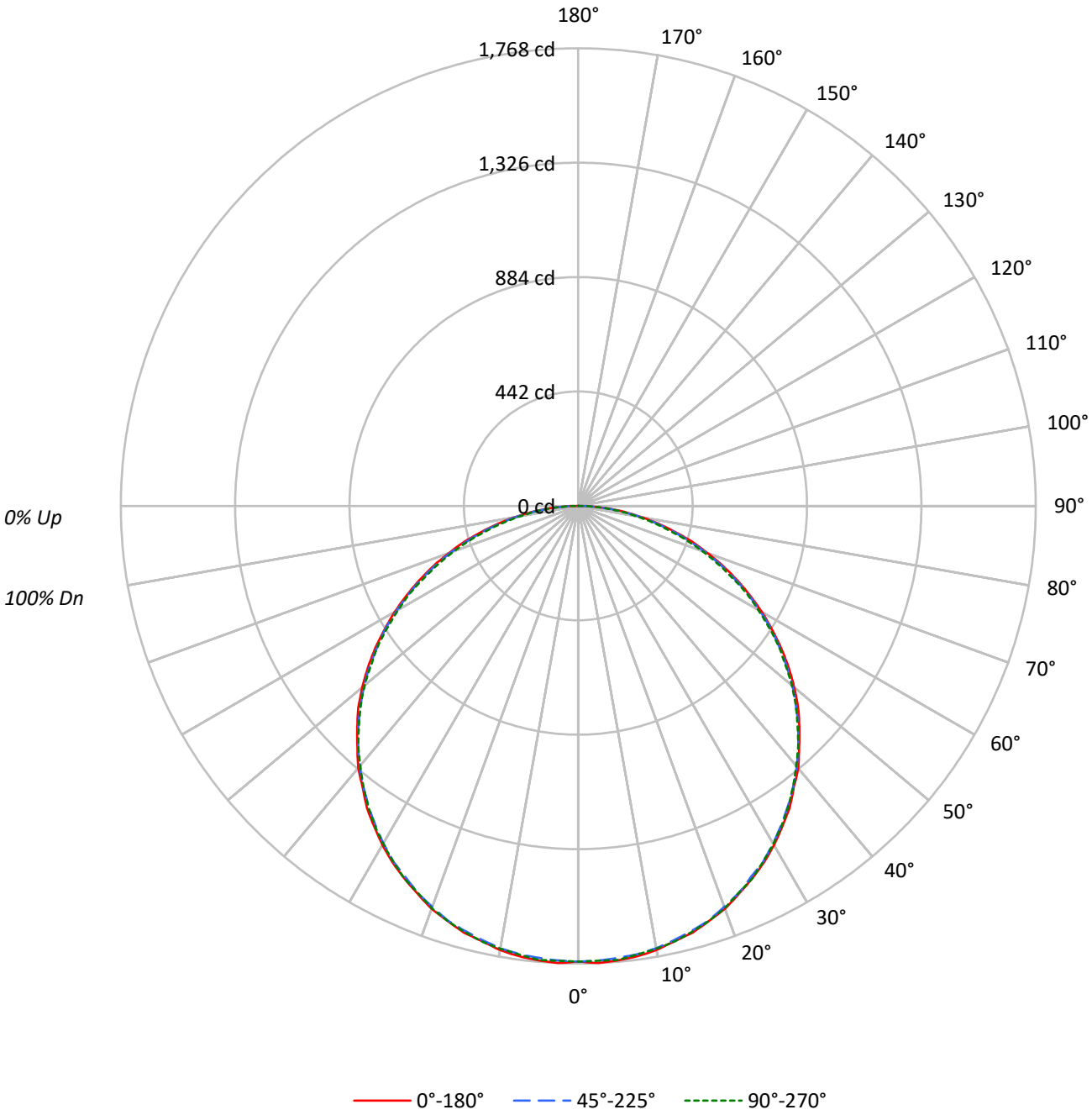


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Scaled Data Report

TEST NUMBER: P1590955
CATALOG NUMBER: 24CGTX-45-L93050-W2A-5000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590955
CATALOG NUMBER: 24CGTX-45-L93050-W2A-5000K

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	66	61	69	64	60	57
4	82	70	61	54	79	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	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	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°	2368	2368	2368
5°	2380	2368	2378
10°	2381	2371	2374
15°	2378	2366	2372
20°	2372	2360	2368
25°	2359	2347	2359
30°	2350	2339	2342
35°	2339	2322	2325
40°	2323	2307	2301
45°	2299	2287	2281
50°	2279	2260	2255
55°	2246	2224	2219
60°	2203	2180	2158
65°	2151	2124	2084
70°	2087	2058	2004
75°	2008	1959	1883
80°	1909	1853	1740
85°	1772	1692	1579

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2299 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590955
CATALOG NUMBER: 24CGTX-45-L93050-W2A-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	3.2
10°-20°	480.1	9.2
20°-30°	730.6	14.0
30°-40°	885.8	17.0
40°-50°	927.3	17.8
50°-60°	848.4	16.3
60°-70°	660.1	12.6
70°-80°	397.8	7.6
80°-90°	123.6	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°	1377.8	26.4
0°-40°	2263.6	43.4
0°-60°	4039.2	77.4
0°-90°	5220.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5220.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1760	1760	1760	1760	1760	
5°	1762	1757	1753	1756	1760	168
15°	1707	1701	1699	1697	1703	481
25°	1589	1585	1581	1581	1589	733
35°	1424	1418	1414	1410	1416	889
45°	1208	1207	1202	1199	1199	933
55°	957	954	948	944	946	855
65°	676	674	667	662	655	669
75°	386	383	377	370	362	410
85°	115	114	110	106	102	129
90°	0	0	0	0	0	

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TEST NUMBER: P1590955
CATALOG NUMBER: 24CGTX-45-L93050-W2A-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1760.3*	1760.3	1760.3	1760.3	1760.3
2.5°	*1767.6*	*1761.3*	*1758.2*	*1760.3*	*1759.2*
5°	*1762.3*	1757.1	1752.9	1756.1	1760.3
7.5°	*1755.0*	1750.9	1746.7	1745.6	1747.7
10°	*1742.5*	1735.2	1735.2	1732.1	1737.3
12.5°	*1721.6*	1723.7	1717.4	1719.5	1723.7
15°	*1707.0*	1700.7	1698.7	1696.6	1702.8
17.5°	*1680.9*	1678.8	1678.8	1675.7	1680.9
20°	*1656.9*	1649.6	1648.5	1647.5	1653.8
22.5°	*1622.4*	1622.4	1619.3	1618.3	1618.3
25°	*1589.0*	1584.9	1580.7	1580.7	1589.0
27.5°	*1553.5*	1548.3	1548.3	1545.2	1548.3
30°	*1512.8*	1508.6	1505.5	1504.5	1507.6
32.5°	*1467.9*	1463.7	1460.6	1460.6	1463.7
35°	*1424.1*	1417.8	1413.6	1410.5	1415.7
37.5°	*1368.7*	1370.8	1364.6	1364.6	1364.6
40°	*1322.8*	1315.5	1313.4	1310.3	1310.3
42.5°	*1263.3*	1261.2	1259.1	1258.1	1258.1
45°	*1208.0*	1206.9	1201.7	1198.6	1198.6
47.5°	*1152.6*	1145.3	1141.1	1137.0	1140.1
50°	*1088.9*	1084.8	1079.5	1074.3	1077.5
52.5°	*1024.2*	1021.1	1014.8	1012.7	1008.5
55°	*957.4*	954.3	948.0	943.8	945.9
57.5°	*887.4*	885.3	883.3	877.0	873.9
60°	*818.5*	817.5	810.2	805.0	801.8
62.5°	*747.5*	745.4	740.2	734.0	735.0
65°	*675.5*	674.5	667.1	661.9	654.6
67.5°	*605.5*	602.4	594.1	586.8	583.6
70°	*530.4*	527.2	523.1	512.6	509.5
72.5°	*462.5*	456.2	446.8	439.5	436.4
75°	*386.3*	383.2	376.9	369.6	362.3
77.5°	*316.3*	314.3	305.9	296.5	293.4
80°	*246.4*	244.3	239.1	229.7	224.5
82.5°	*181.7*	179.6	173.3	169.1	165.0
85°	*114.8*	113.8	109.6	106.5	102.3
87.5°	*54.3*	54.3	51.2	51.2	50.1
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 24CGTX-45-L93050-W2A-5000K

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	15.00	16.66	15.37	16.98	17.29	14.93	16.59	15.29	16.90	17.22
	3H	16.94	18.44	17.31	18.77	19.13	16.79	18.30	17.17	18.63	18.99
	4H	17.70	19.12	18.10	19.47	19.84	17.51	18.93	17.91	19.28	19.65
	6H	18.30	19.62	18.71	19.98	20.37	18.05	19.37	18.46	19.74	20.13
	8H	18.51	19.78	18.94	20.16	20.56	18.25	19.51	18.67	19.89	20.29
	12H	18.67	19.88	19.10	20.26	20.69	18.38	19.59	18.81	19.97	20.40
4H	2H	15.66	17.08	16.06	17.43	17.80	15.60	17.02	16.00	17.37	17.74
	3H	17.82	19.01	18.23	19.41	19.81	17.69	18.89	18.10	19.28	19.68
	4H	18.72	19.80	19.15	20.21	20.65	18.54	19.63	18.97	20.04	20.48
	6H	19.46	20.41	19.91	20.85	21.30	19.22	20.17	19.68	20.61	21.07
	8H	19.73	20.62	20.19	21.07	21.53	19.47	20.36	19.93	20.80	21.27
	12H	19.95	20.75	20.43	21.22	21.69	19.66	20.46	20.14	20.93	21.40
8H	4H	19.06	19.95	19.52	20.39	20.85	18.91	19.80	19.36	20.24	20.70
	6H	19.94	20.68	20.43	21.17	21.65	19.72	20.47	20.22	20.95	21.43
	8H	20.31	20.97	20.81	21.48	21.96	20.06	20.72	20.56	21.23	21.71
	12H	20.61	21.20	21.11	21.69	22.25	20.33	20.92	20.83	21.41	21.97
12H	4H	19.10	19.90	19.58	20.38	20.85	18.96	19.76	19.44	20.23	20.70
	6H	20.01	20.68	20.52	21.19	21.67	19.81	20.47	20.31	20.98	21.46
	8H	20.44	21.03	20.95	21.52	22.08	20.20	20.79	20.71	21.28	21.84

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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: SP1-2512-631-24-R2

Test Date: 02/04/2026

Luminaire Tested: 22CGTX-50-L93050-W2A-5000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

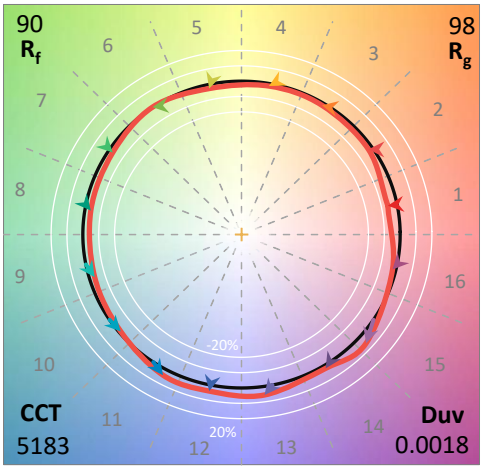
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-631-24-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-5000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-631-24-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 5000 LUMEN HE CGTX TUNABLE WHITE FROM 3000K TO 5000K - 1 Volt

Spectral Parameters

CCT (K):	5183
CIE u':	0.2084
CIE v':	0.4838
Duv:	0.0018
CIE x:	0.3404
CIE y:	0.3513
CIE z:	0.3084
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	567
Purity:	7.523728
Rf:	89.8
Rg:	98.4

CRI (Ra):	93.0
R1:	94.0
R2:	95.9
R3:	95.1
R4:	93.5
R5:	92.7
R6:	92.2
R7:	94.0
R8:	86.9
R9:	64.0
R10:	88.2
R11:	93.7
R12:	69.8
R13:	94.9
R14:	97.0
R15:	92.0



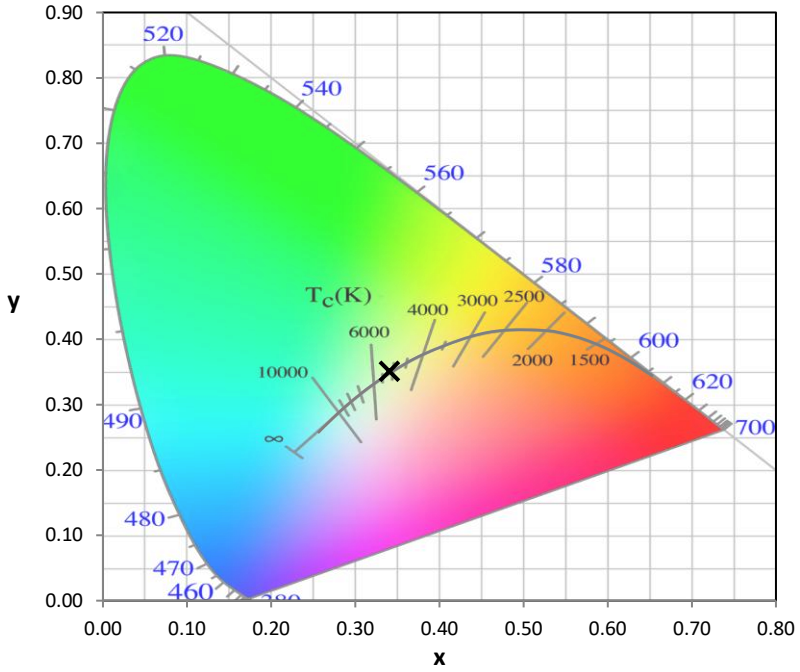
Test Conditions

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

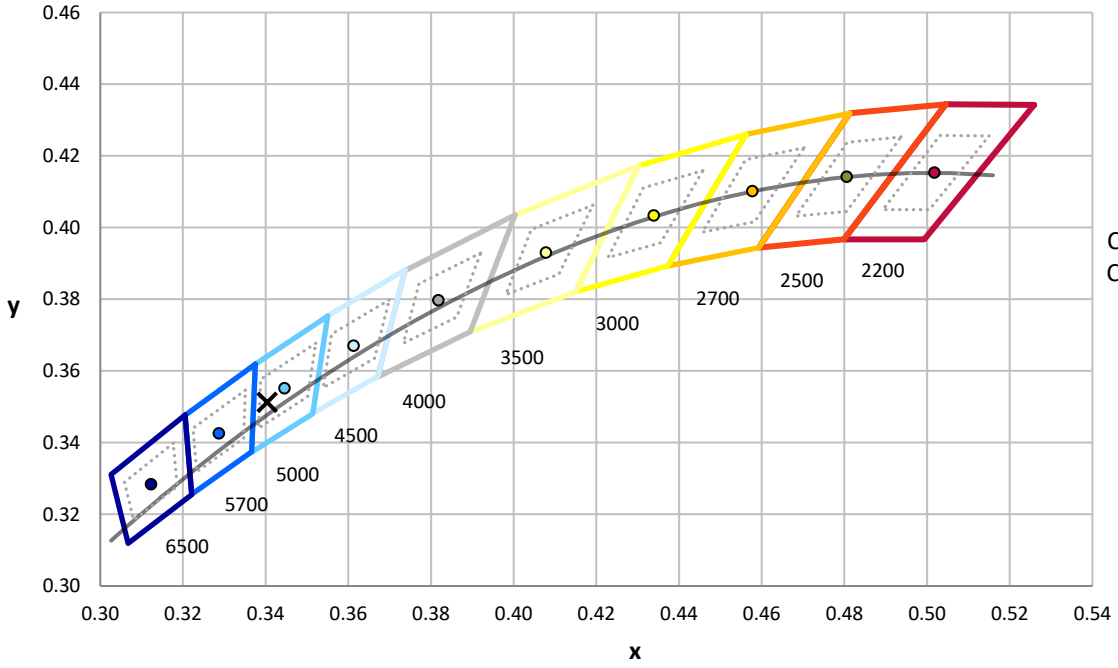
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2512-631-24-R2

CIE 1931 Chromaticity Diagram



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

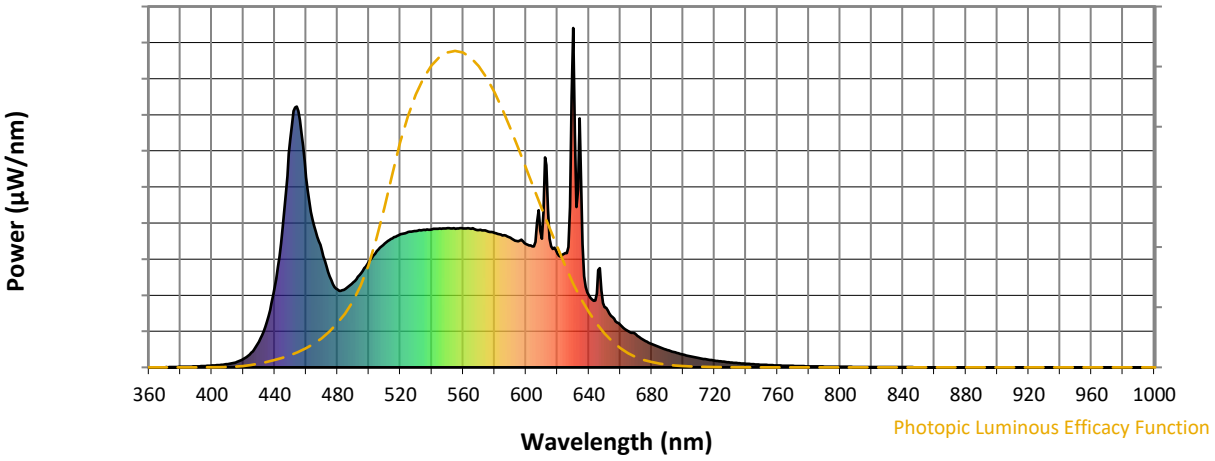


CCT = 5183K
CIE x = 0.3404
CIE y = 0.3513
Duv = 0.0018

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2512-631-24-R2

Photopic Flux vs. Wavelength

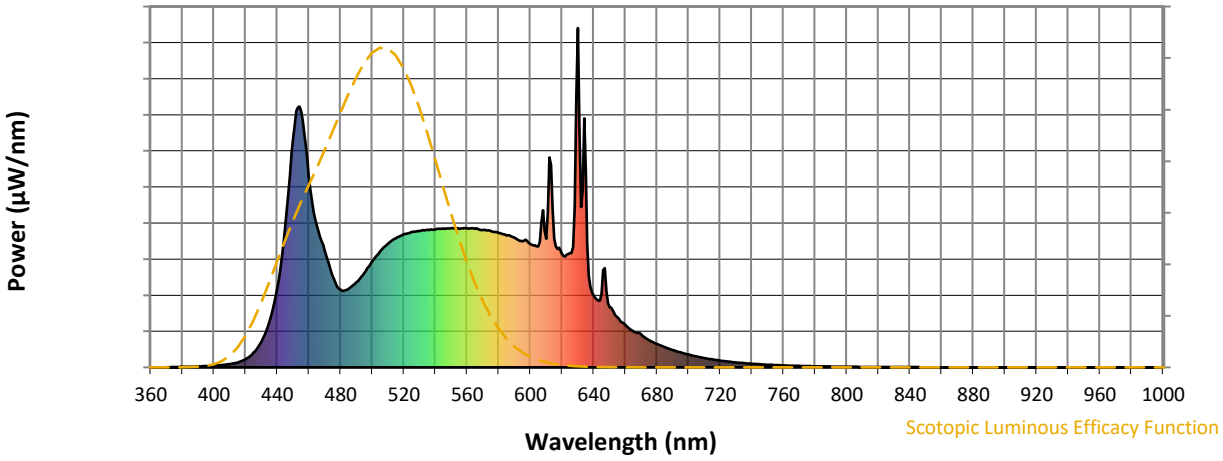


Photopic Lumens: NR

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	251	NR	620	335	NR	750	8	NR	880	0	NR
365	0	NR	495	277	NR	625	337	NR	755	7	NR	885	0	NR
370	0	NR	500	312	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	342	NR	635	569	NR	765	5	NR	895	0	NR
380	2	NR	510	365	NR	640	212	NR	770	4	NR	900	0	NR
385	2	NR	515	380	NR	645	218	NR	775	4	NR	905	0	NR
390	3	NR	520	392	NR	650	177	NR	780	3	NR	910	0	NR
395	4	NR	525	399	NR	655	148	NR	785	3	NR	915	0	NR
400	5	NR	530	402	NR	660	126	NR	790	2	NR	920	0	NR
405	7	NR	535	406	NR	665	106	NR	795	2	NR	925	0	NR
410	10	NR	540	407	NR	670	97	NR	800	2	NR	930	0	NR
415	15	NR	545	409	NR	675	80	NR	805	2	NR	935	0	NR
420	25	NR	550	410	NR	680	69	NR	810	1	NR	940	0	NR
425	43	NR	555	409	NR	685	59	NR	815	1	NR	945	0	NR
430	76	NR	560	409	NR	690	51	NR	820	1	NR	950	0	NR
435	135	NR	565	409	NR	695	44	NR	825	1	NR	955	0	NR
440	235	NR	570	405	NR	700	38	NR	830	1	NR	960	0	NR
445	412	NR	575	402	NR	705	32	NR	835	1	NR	965	0	NR
450	675	NR	580	396	NR	710	27	NR	840	1	NR	970	0	NR
455	756	NR	585	389	NR	715	23	NR	845	1	NR	975	0	NR
460	560	NR	590	382	NR	720	20	NR	850	0	NR	980	0	NR
465	418	NR	595	371	NR	725	17	NR	855	0	NR	985	0	NR
470	344	NR	600	363	NR	730	15	NR	860	0	NR	990	0	NR
475	268	NR	605	356	NR	735	13	NR	865	0	NR	995	0	NR
480	229	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	231	NR	615	379	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-24-R2

Scotopic Flux vs. Wavelength

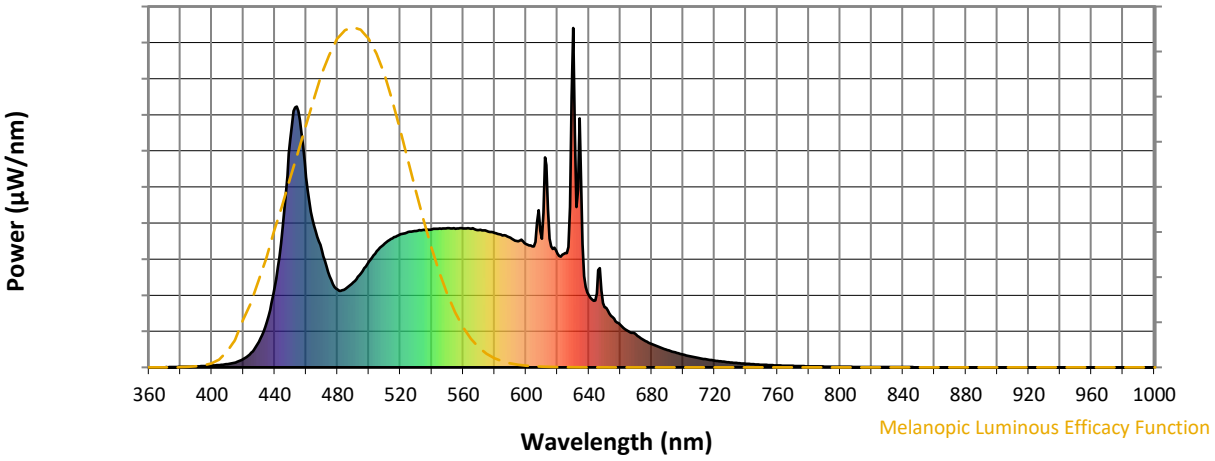


Scotopic Lumens: NR **S/P: 2.11**

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	251	NR	620	335	NR	750	8	NR	880	0	NR
365	0	NR	495	277	NR	625	337	NR	755	7	NR	885	0	NR
370	0	NR	500	312	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	342	NR	635	569	NR	765	5	NR	895	0	NR
380	2	NR	510	365	NR	640	212	NR	770	4	NR	900	0	NR
385	2	NR	515	380	NR	645	218	NR	775	4	NR	905	0	NR
390	3	NR	520	392	NR	650	177	NR	780	3	NR	910	0	NR
395	4	NR	525	399	NR	655	148	NR	785	3	NR	915	0	NR
400	5	NR	530	402	NR	660	126	NR	790	2	NR	920	0	NR
405	7	NR	535	406	NR	665	106	NR	795	2	NR	925	0	NR
410	10	NR	540	407	NR	670	97	NR	800	2	NR	930	0	NR
415	15	NR	545	409	NR	675	80	NR	805	2	NR	935	0	NR
420	25	NR	550	410	NR	680	69	NR	810	1	NR	940	0	NR
425	43	NR	555	409	NR	685	59	NR	815	1	NR	945	0	NR
430	76	NR	560	409	NR	690	51	NR	820	1	NR	950	0	NR
435	135	NR	565	409	NR	695	44	NR	825	1	NR	955	0	NR
440	235	NR	570	405	NR	700	38	NR	830	1	NR	960	0	NR
445	412	NR	575	402	NR	705	32	NR	835	1	NR	965	0	NR
450	675	NR	580	396	NR	710	27	NR	840	1	NR	970	0	NR
455	756	NR	585	389	NR	715	23	NR	845	1	NR	975	0	NR
460	560	NR	590	382	NR	720	20	NR	850	0	NR	980	0	NR
465	418	NR	595	371	NR	725	17	NR	855	0	NR	985	0	NR
470	344	NR	600	363	NR	730	15	NR	860	0	NR	990	0	NR
475	268	NR	605	356	NR	735	13	NR	865	0	NR	995	0	NR
480	229	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	231	NR	615	379	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.6**

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	251	NR	620	335	NR	750	8	NR	880	0	NR
365	0	NR	495	277	NR	625	337	NR	755	7	NR	885	0	NR
370	0	NR	500	312	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	342	NR	635	569	NR	765	5	NR	895	0	NR
380	2	NR	510	365	NR	640	212	NR	770	4	NR	900	0	NR
385	2	NR	515	380	NR	645	218	NR	775	4	NR	905	0	NR
390	3	NR	520	392	NR	650	177	NR	780	3	NR	910	0	NR
395	4	NR	525	399	NR	655	148	NR	785	3	NR	915	0	NR
400	5	NR	530	402	NR	660	126	NR	790	2	NR	920	0	NR
405	7	NR	535	406	NR	665	106	NR	795	2	NR	925	0	NR
410	10	NR	540	407	NR	670	97	NR	800	2	NR	930	0	NR
415	15	NR	545	409	NR	675	80	NR	805	2	NR	935	0	NR
420	25	NR	550	410	NR	680	69	NR	810	1	NR	940	0	NR
425	43	NR	555	409	NR	685	59	NR	815	1	NR	945	0	NR
430	76	NR	560	409	NR	690	51	NR	820	1	NR	950	0	NR
435	135	NR	565	409	NR	695	44	NR	825	1	NR	955	0	NR
440	235	NR	570	405	NR	700	38	NR	830	1	NR	960	0	NR
445	412	NR	575	402	NR	705	32	NR	835	1	NR	965	0	NR
450	675	NR	580	396	NR	710	27	NR	840	1	NR	970	0	NR
455	756	NR	585	389	NR	715	23	NR	845	1	NR	975	0	NR
460	560	NR	590	382	NR	720	20	NR	850	0	NR	980	0	NR
465	418	NR	595	371	NR	725	17	NR	855	0	NR	985	0	NR
470	344	NR	600	363	NR	730	15	NR	860	0	NR	990	0	NR
475	268	NR	605	356	NR	735	13	NR	865	0	NR	995	0	NR
480	229	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	231	NR	615	379	NR	745	9	NR	875	0	NR			

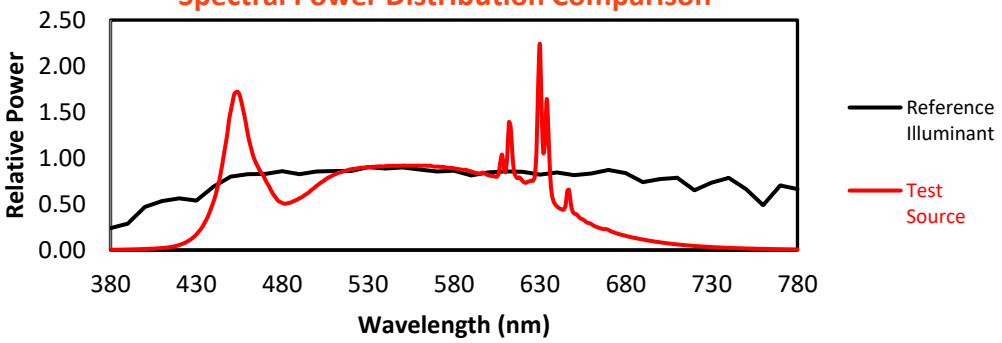
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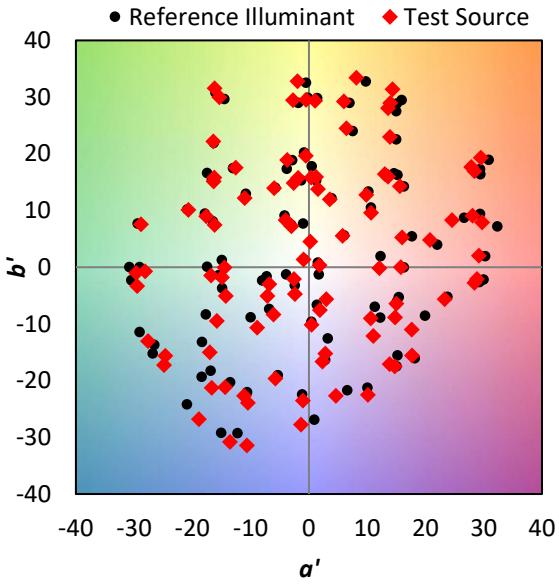
Summary

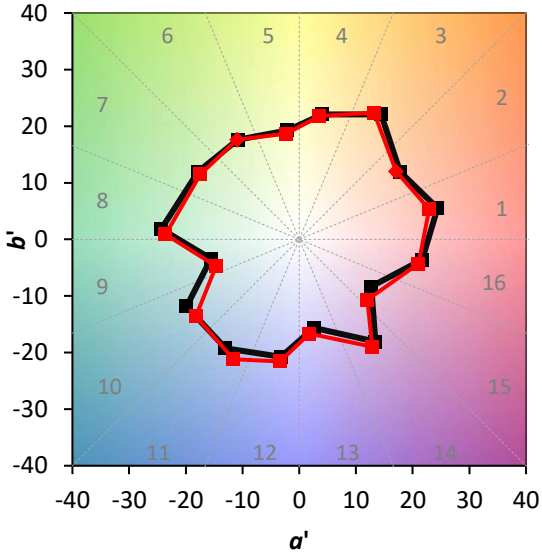
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R_g = 98.4
CIE R_a = 93.0
R_9 = 64.0

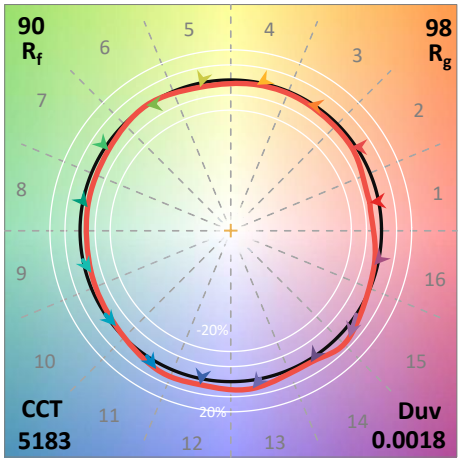
Spectral Power Distribution Comparison

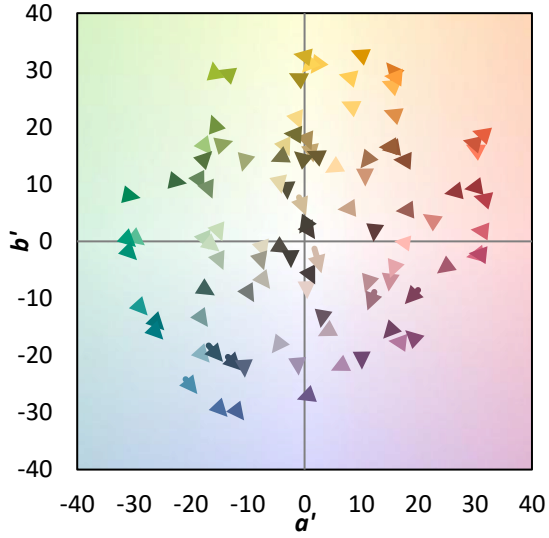


Color Vector Graphics







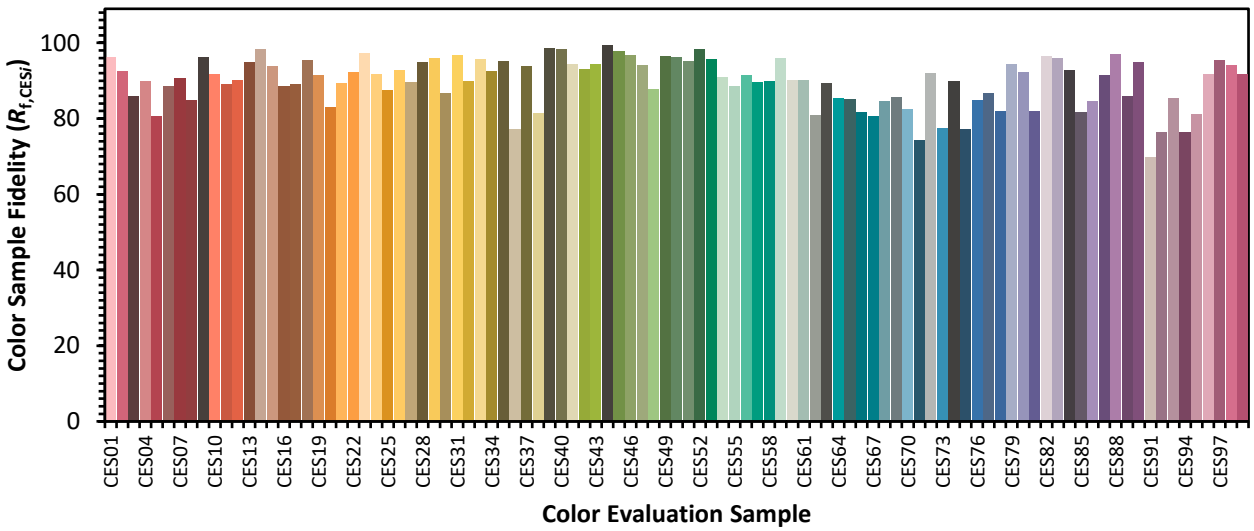


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Individual Sample Fidelity Index ($R_{f,i}$)

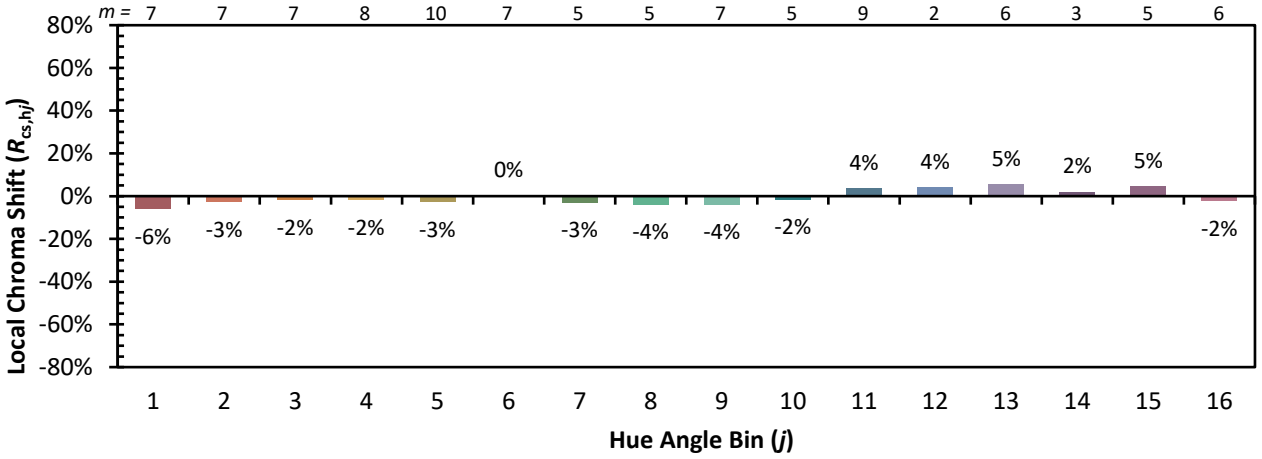
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CES02 = 60	CES27 = 90	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 95	CES53 = 96	CES78 = 82
CES04 = 68	CES29 = 96	CES54 = 91	CES79 = 94
CES05 = 47	CES30 = 87	CES55 = 89	CES80 = 92
CES06 = 50	CES31 = 97	CES56 = 92	CES81 = 82
CES07 = 41	CES32 = 90	CES57 = 90	CES82 = 96
CES08 = 40	CES33 = 96	CES58 = 90	CES83 = 96
CES09 = 29	CES34 = 92	CES59 = 96	CES84 = 93
CES10 = 73	CES35 = 95	CES60 = 90	CES85 = 82
CES11 = 55	CES36 = 77	CES61 = 90	CES86 = 85
CES12 = 62	CES37 = 94	CES62 = 81	CES87 = 91
CES13 = 42	CES38 = 82	CES63 = 89	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 85	CES89 = 86
CES15 = 71	CES40 = 98	CES65 = 85	CES90 = 95
CES16 = 46	CES41 = 94	CES66 = 82	CES91 = 70
CES17 = 48	CES42 = 93	CES67 = 81	CES92 = 76
CES18 = 56	CES43 = 94	CES68 = 85	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 86	CES94 = 76
CES20 = 65	CES45 = 98	CES70 = 83	CES95 = 81
CES21 = 84	CES46 = 97	CES71 = 74	CES96 = 92
CES22 = 77	CES47 = 94	CES72 = 92	CES97 = 96
CES23 = 91	CES48 = 88	CES73 = 78	CES98 = 94
CES24 = 90	CES49 = 97	CES74 = 90	CES99 = 92
CES25 = 70	CES50 = 96	CES75 = 77	

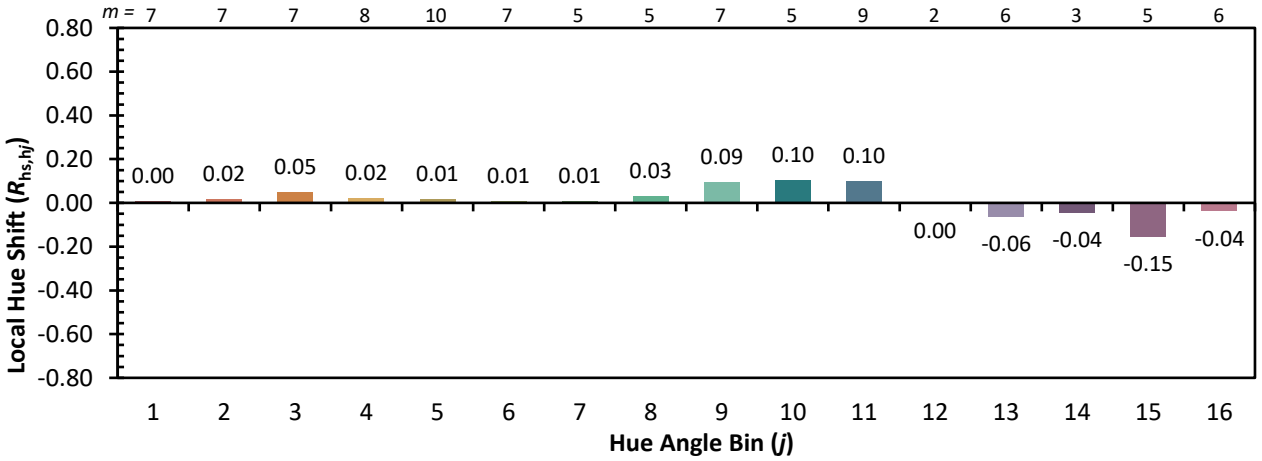


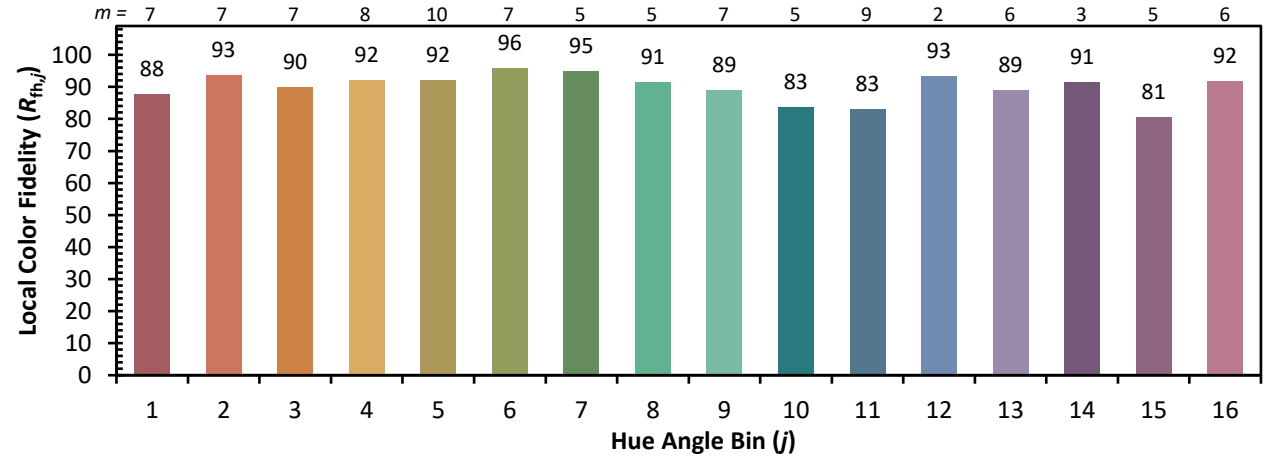
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Color Rendition by Hue-Angle Bin



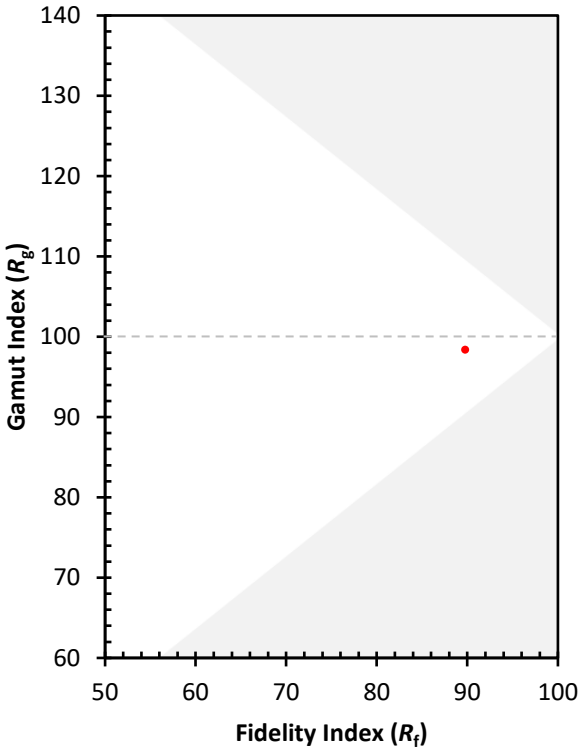


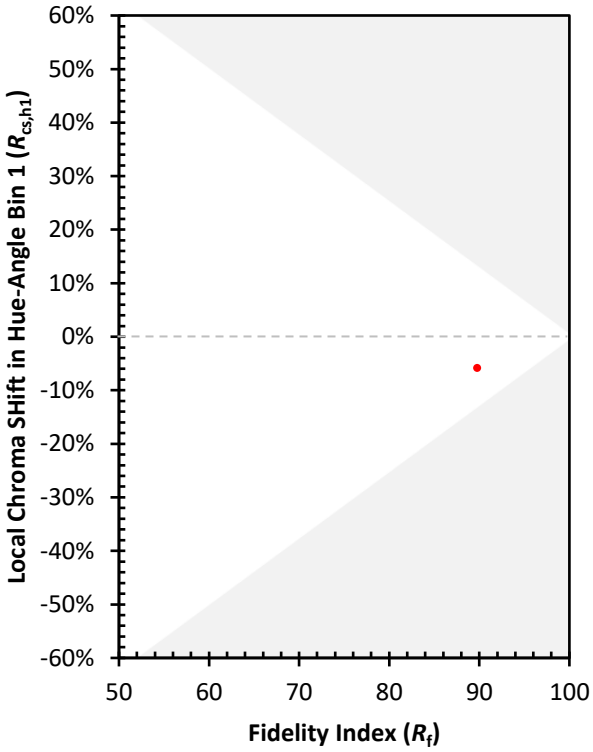


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Measure Comparisons





(END OF REPORT)