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: P1590952

Luminaire Tested: 24CGTX-45-L93050-W2A-3500K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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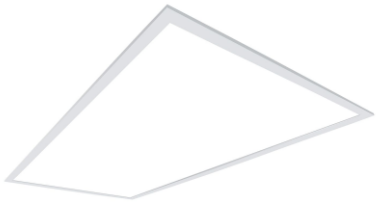
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590952
	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-3500K
Description:	2X4 4500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 3500K CCT
Light Source:	3500K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5113.7 lumens
Efficiency:	N/A
Efficacy:	118.6 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

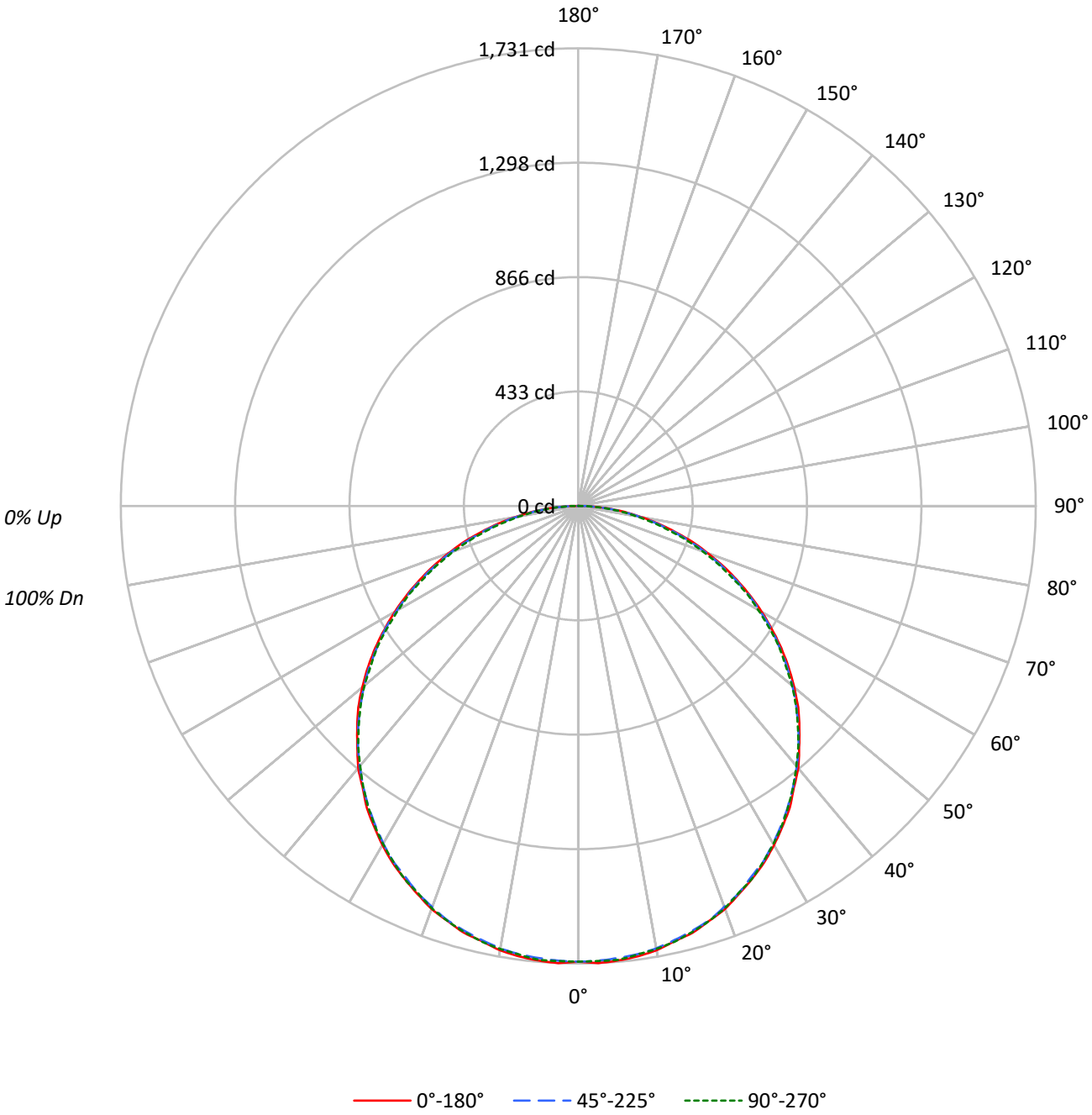


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Scaled Data Report

TEST NUMBER: P1590952
CATALOG NUMBER: 24CGTX-45-L93050-W2A-3500K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590952
CATALOG NUMBER: 24CGTX-45-L93050-W2A-3500K

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°	2320	2320	2320
5°	2331	2319	2329
10°	2332	2322	2325
15°	2329	2318	2323
20°	2324	2312	2319
25°	2311	2298	2311
30°	2302	2291	2294
35°	2291	2274	2278
40°	2276	2260	2254
45°	2251	2240	2234
50°	2233	2213	2209
55°	2200	2178	2173
60°	2157	2136	2113
65°	2106	2081	2041
70°	2044	2015	1963
75°	1967	1919	1844
80°	1870	1815	1704
85°	1737	1658	1547

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2251 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590952
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	3.2
10°-20°	470.3	9.2
20°-30°	715.6	14.0
30°-40°	867.6	17.0
40°-50°	908.2	17.8
50°-60°	831.0	16.2
60°-70°	646.6	12.6
70°-80°	389.7	7.6
80°-90°	121.1	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°	1349.5	26.4
0°-40°	2217.2	43.4
0°-60°	3956.4	77.4
0°-90°	5113.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5113.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1726	1721	1717	1720	1724	164
15°	1672	1666	1664	1662	1668	471
25°	1556	1552	1548	1548	1556	718
35°	1395	1389	1385	1382	1387	871
45°	1183	1182	1177	1174	1174	914
55°	938	935	928	924	926	838
65°	662	661	654	648	641	655
75°	378	375	369	362	355	401
85°	112	112	107	104	100	126
90°	0	0	0	0	0	

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TEST NUMBER: P1590952
CATALOG NUMBER: 24CGTX-45-L93050-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1724.1*	1724.1	1724.1	1724.1	1724.1
2.5°	*1731.3*	*1725.2*	*1722.1*	*1724.1*	*1723.1*
5°	*1726.2*	1721.1	1717.0	1720.0	1724.1
7.5°	*1719.0*	1714.9	1710.8	1709.8	1711.9
10°	*1706.8*	1699.6	1699.6	1696.5	1701.6
12.5°	*1686.3*	1688.3	1682.2	1684.3	1688.3
15°	*1672.0*	1665.9	1663.8	1661.8	1667.9
17.5°	*1646.4*	1644.4	1644.4	1641.3	1646.4
20°	*1622.9*	1615.7	1614.7	1613.7	1619.8
22.5°	*1589.2*	1589.2	1586.1	1585.1	1585.1
25°	*1556.4*	1552.3	1548.2	1548.2	1556.4
27.5°	*1521.7*	1516.5	1516.5	1513.5	1516.5
30°	*1481.8*	1477.7	1474.6	1473.6	1476.7
32.5°	*1437.8*	1433.7	1430.6	1430.6	1433.7
35°	*1394.9*	1388.7	1384.6	1381.6	1386.7
37.5°	*1340.7*	1342.7	1336.6	1336.6	1336.6
40°	*1295.7*	1288.5	1286.5	1283.4	1283.4
42.5°	*1237.4*	1235.3	1233.3	1232.3	1232.3
45°	*1183.2*	1182.2	1177.0	1174.0	1174.0
47.5°	*1129.0*	1121.8	1117.7	1113.6	1116.7
50°	*1066.6*	1062.5	1057.4	1052.3	1055.3
52.5°	*1003.2*	1000.1	994.0	991.9	987.9
55°	*937.7*	934.7	928.5	924.4	926.5
57.5°	*869.2*	867.2	865.1	859.0	855.9
60°	*801.7*	800.7	793.6	788.4	785.4
62.5°	*732.2*	730.2	725.0	718.9	719.9
65°	*661.6*	660.6	653.5	648.3	641.2
67.5°	*593.1*	590.1	581.9	574.7	571.6
70°	*519.5*	516.4	512.3	502.1	499.0
72.5°	*453.0*	446.9	437.7	430.5	427.5
75°	*378.4*	375.3	369.2	362.0	354.8
77.5°	*309.9*	307.8	299.6	290.4	287.4
80°	*241.3*	239.3	234.2	225.0	219.9
82.5°	*177.9*	175.9	169.8	165.7	161.6
85°	*112.5*	111.5	107.4	104.3	100.2
87.5°	*53.2*	53.2	50.1	50.1	49.1
90°	*0.0*	0.0	0.0	0.0	0.0

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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	14.93	16.59	15.30	16.91	17.22	14.85	16.52	15.22	16.83	17.14
	3H	16.86	18.37	17.24	18.70	19.06	16.72	18.23	17.10	18.55	18.91
	4H	17.63	19.05	18.02	19.39	19.77	17.44	18.86	17.83	19.20	19.58
	6H	18.23	19.55	18.64	19.91	20.30	17.98	19.30	18.39	19.66	20.05
	8H	18.44	19.70	18.87	20.09	20.49	18.17	19.43	18.60	19.82	20.22
	12H	18.60	19.81	19.03	20.19	20.62	18.31	19.52	18.74	19.90	20.33
4H	2H	15.59	17.01	15.98	17.35	17.73	15.53	16.95	15.92	17.29	17.67
	3H	17.75	18.94	18.15	19.34	19.74	17.62	18.82	18.03	19.21	19.61
	4H	18.64	19.73	19.08	20.14	20.58	18.47	19.56	18.90	19.97	20.40
	6H	19.39	20.34	19.84	20.78	21.23	19.15	20.10	19.60	20.54	21.00
	8H	19.66	20.55	20.12	20.99	21.46	19.40	20.29	19.86	20.73	21.19
	12H	19.87	20.68	20.35	21.15	21.62	19.59	20.39	20.06	20.86	21.33
8H	4H	18.99	19.88	19.44	20.32	20.78	18.83	19.72	19.29	20.17	20.63
	6H	19.87	20.61	20.36	21.10	21.57	19.65	20.39	20.14	20.88	21.36
	8H	20.23	20.90	20.74	21.41	21.89	19.98	20.65	20.49	21.16	21.64
	12H	20.54	21.13	21.04	21.62	22.18	20.26	20.85	20.76	21.34	21.90
12H	4H	19.03	19.83	19.51	20.31	20.77	18.88	19.69	19.36	20.16	20.63
	6H	19.94	20.61	20.45	21.11	21.60	19.73	20.40	20.24	20.91	21.39
	8H	20.37	20.96	20.87	21.45	22.01	20.13	20.72	20.64	21.21	21.77

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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: SP1-2512-631-36-R2

Test Date: 02/05/2026

Luminaire Tested: 22CGTX-50-L93050-W2A-3500K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

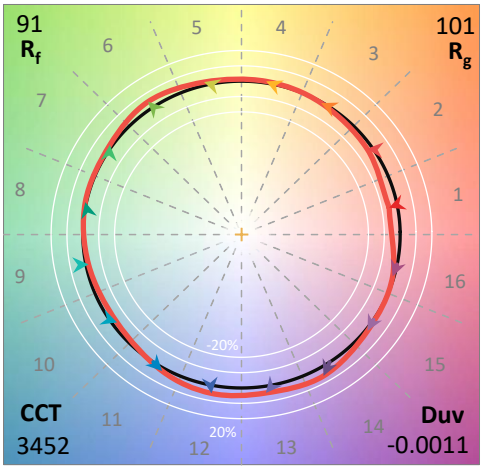
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-631-36-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-3500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-631-36-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 5000 LUMEN HE CGTX TUNABLE WHITE FROM 3000K TO 5000K - 7 Volt

Spectral Parameters

CCT (K):	3452
CIE u':	0.2375
CIE v':	0.5107
Duv:	-0.0011
CIE x:	0.4068
CIE y:	0.3888
CIE z:	0.2044
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	581
Purity:	38.79211
Rf:	91.1
Rg:	101.1

CRI (Ra):	93.4
R1:	95.1
R2:	95.5
R3:	94.7
R4:	94.6
R5:	94.4
R6:	94.6
R7:	93.0
R8:	84.9
R9:	61.5
R10:	88.0
R11:	95.0
R12:	80.7
R13:	95.0
R14:	96.1
R15:	91.3



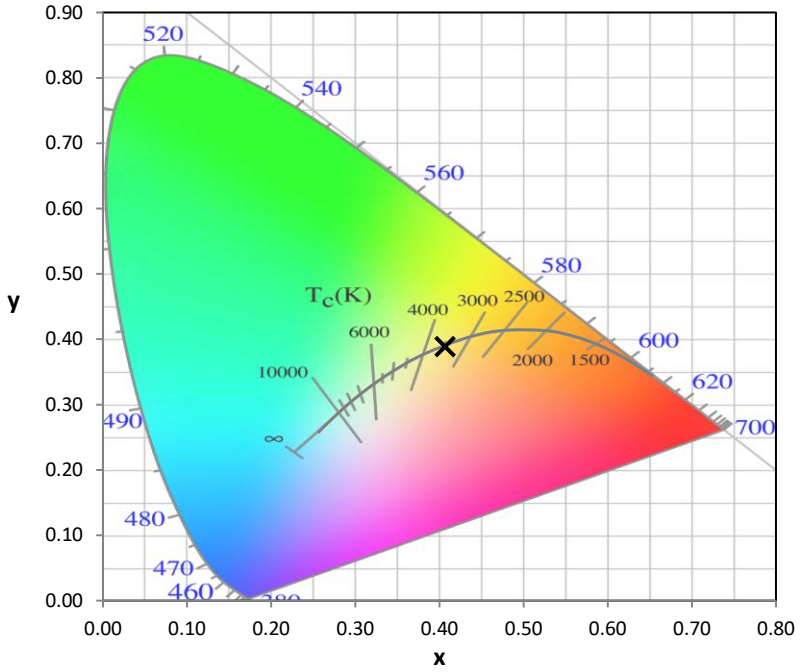
Test Conditions

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

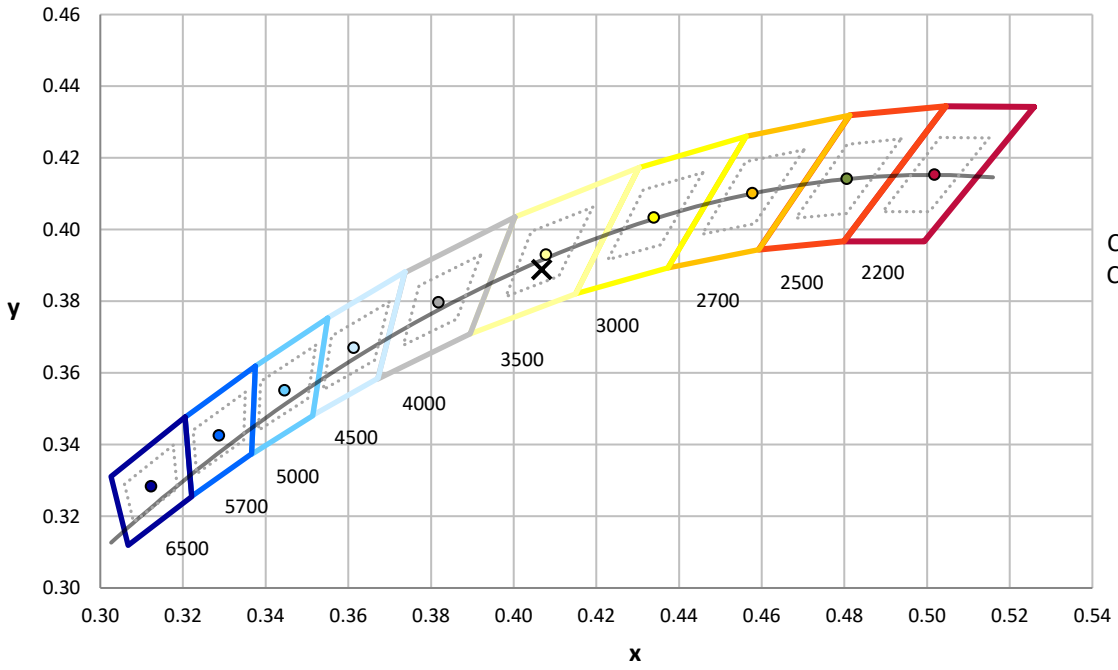
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2512-631-36-R2

CIE 1931 Chromaticity Diagram



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

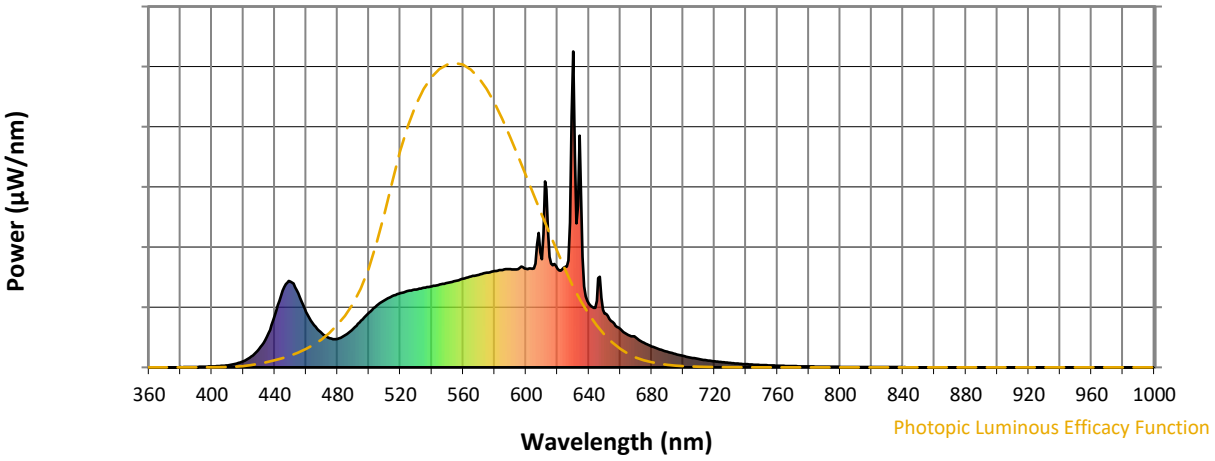


CCT = 3452K
CIE x = 0.4068
CIE y = 0.3888
Duv = -0.0011

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2512-631-36-R2

Photopic Flux vs. Wavelength

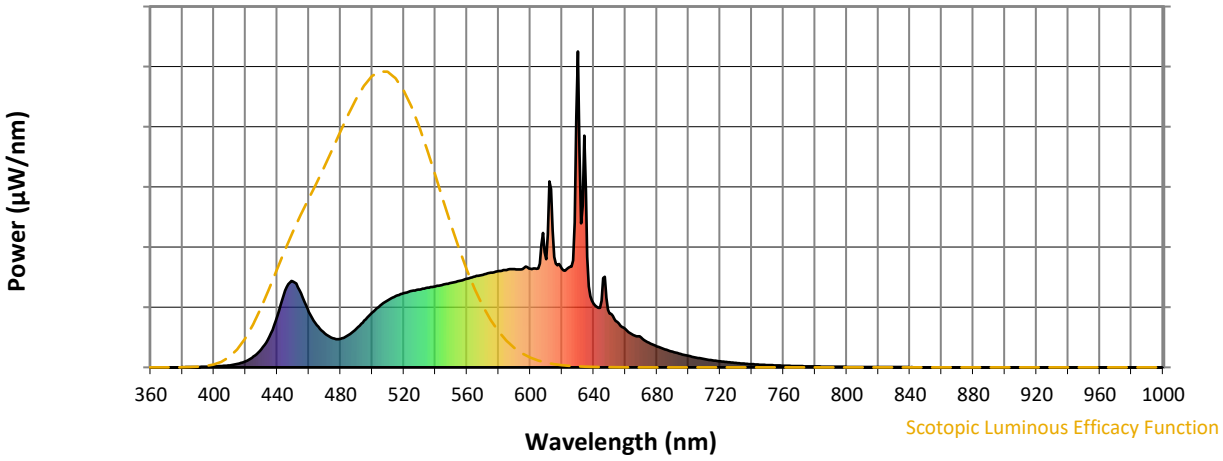


Photopic Lumens: NR

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	122	NR	620	312	NR	750	7	NR	880	0	NR
365	0	NR	495	147	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	173	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	196	NR	635	559	NR	765	5	NR	895	0	NR
380	1	NR	510	213	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	226	NR	645	211	NR	775	3	NR	905	0	NR
390	2	NR	520	235	NR	650	171	NR	780	3	NR	910	0	NR
395	2	NR	525	242	NR	655	144	NR	785	2	NR	915	0	NR
400	3	NR	530	246	NR	660	122	NR	790	2	NR	920	0	NR
405	4	NR	535	252	NR	665	103	NR	795	2	NR	925	0	NR
410	7	NR	540	257	NR	670	94	NR	800	2	NR	930	0	NR
415	11	NR	545	263	NR	675	78	NR	805	1	NR	935	0	NR
420	19	NR	550	268	NR	680	66	NR	810	1	NR	940	0	NR
425	34	NR	555	273	NR	685	57	NR	815	1	NR	945	0	NR
430	58	NR	560	281	NR	690	49	NR	820	1	NR	950	0	NR
435	97	NR	565	288	NR	695	42	NR	825	1	NR	955	0	NR
440	163	NR	570	293	NR	700	36	NR	830	1	NR	960	0	NR
445	243	NR	575	300	NR	705	31	NR	835	1	NR	965	0	NR
450	272	NR	580	305	NR	710	26	NR	840	1	NR	970	0	NR
455	234	NR	585	308	NR	715	22	NR	845	0	NR	975	0	NR
460	175	NR	590	311	NR	720	19	NR	850	0	NR	980	0	NR
465	134	NR	595	311	NR	725	16	NR	855	0	NR	985	0	NR
470	107	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	92	NR	605	313	NR	735	12	NR	865	0	NR	995	0	NR
480	91	NR	610	343	NR	740	10	NR	870	0	NR	1000	0	NR
485	103	NR	615	349	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-36-R2

Scotopic Flux vs. Wavelength

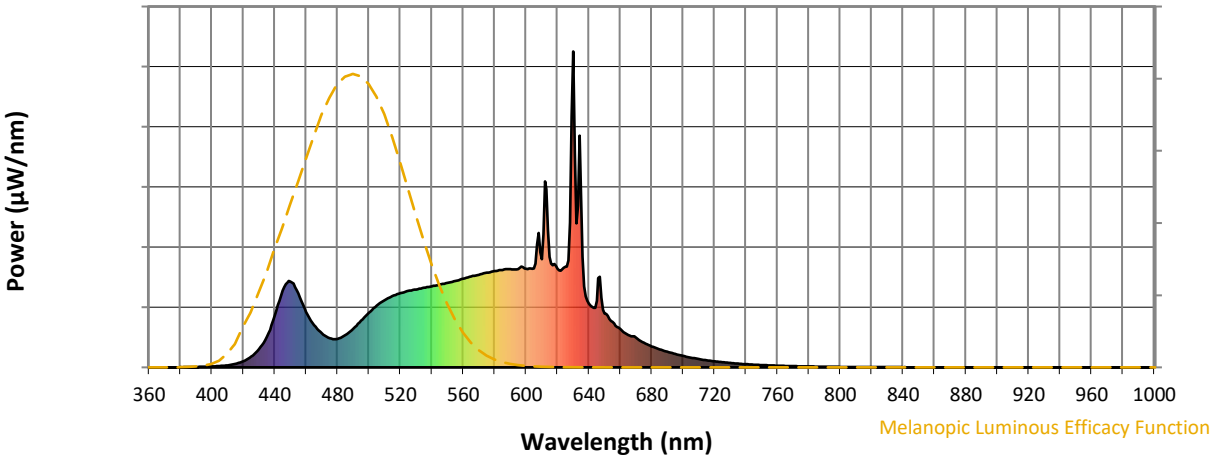


Scotopic Lumens: NR **S/P: 1.59**

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	122	NR	620	312	NR	750	7	NR	880	0	NR
365	0	NR	495	147	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	173	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	196	NR	635	559	NR	765	5	NR	895	0	NR
380	1	NR	510	213	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	226	NR	645	211	NR	775	3	NR	905	0	NR
390	2	NR	520	235	NR	650	171	NR	780	3	NR	910	0	NR
395	2	NR	525	242	NR	655	144	NR	785	2	NR	915	0	NR
400	3	NR	530	246	NR	660	122	NR	790	2	NR	920	0	NR
405	4	NR	535	252	NR	665	103	NR	795	2	NR	925	0	NR
410	7	NR	540	257	NR	670	94	NR	800	2	NR	930	0	NR
415	11	NR	545	263	NR	675	78	NR	805	1	NR	935	0	NR
420	19	NR	550	268	NR	680	66	NR	810	1	NR	940	0	NR
425	34	NR	555	273	NR	685	57	NR	815	1	NR	945	0	NR
430	58	NR	560	281	NR	690	49	NR	820	1	NR	950	0	NR
435	97	NR	565	288	NR	695	42	NR	825	1	NR	955	0	NR
440	163	NR	570	293	NR	700	36	NR	830	1	NR	960	0	NR
445	243	NR	575	300	NR	705	31	NR	835	1	NR	965	0	NR
450	272	NR	580	305	NR	710	26	NR	840	1	NR	970	0	NR
455	234	NR	585	308	NR	715	22	NR	845	0	NR	975	0	NR
460	175	NR	590	311	NR	720	19	NR	850	0	NR	980	0	NR
465	134	NR	595	311	NR	725	16	NR	855	0	NR	985	0	NR
470	107	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	92	NR	605	313	NR	735	12	NR	865	0	NR	995	0	NR
480	91	NR	610	343	NR	740	10	NR	870	0	NR	1000	0	NR
485	103	NR	615	349	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.18**

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	122	NR	620	312	NR	750	7	NR	880	0	NR
365	0	NR	495	147	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	173	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	196	NR	635	559	NR	765	5	NR	895	0	NR
380	1	NR	510	213	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	226	NR	645	211	NR	775	3	NR	905	0	NR
390	2	NR	520	235	NR	650	171	NR	780	3	NR	910	0	NR
395	2	NR	525	242	NR	655	144	NR	785	2	NR	915	0	NR
400	3	NR	530	246	NR	660	122	NR	790	2	NR	920	0	NR
405	4	NR	535	252	NR	665	103	NR	795	2	NR	925	0	NR
410	7	NR	540	257	NR	670	94	NR	800	2	NR	930	0	NR
415	11	NR	545	263	NR	675	78	NR	805	1	NR	935	0	NR
420	19	NR	550	268	NR	680	66	NR	810	1	NR	940	0	NR
425	34	NR	555	273	NR	685	57	NR	815	1	NR	945	0	NR
430	58	NR	560	281	NR	690	49	NR	820	1	NR	950	0	NR
435	97	NR	565	288	NR	695	42	NR	825	1	NR	955	0	NR
440	163	NR	570	293	NR	700	36	NR	830	1	NR	960	0	NR
445	243	NR	575	300	NR	705	31	NR	835	1	NR	965	0	NR
450	272	NR	580	305	NR	710	26	NR	840	1	NR	970	0	NR
455	234	NR	585	308	NR	715	22	NR	845	0	NR	975	0	NR
460	175	NR	590	311	NR	720	19	NR	850	0	NR	980	0	NR
465	134	NR	595	311	NR	725	16	NR	855	0	NR	985	0	NR
470	107	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	92	NR	605	313	NR	735	12	NR	865	0	NR	995	0	NR
480	91	NR	610	343	NR	740	10	NR	870	0	NR	1000	0	NR
485	103	NR	615	349	NR	745	9	NR	875	0	NR			

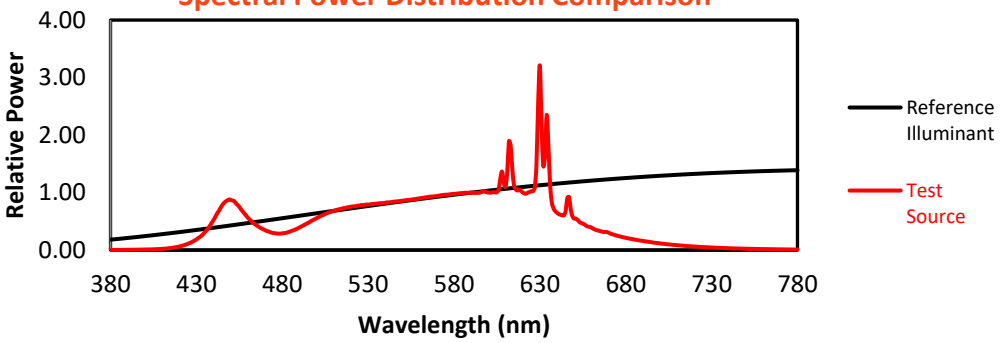
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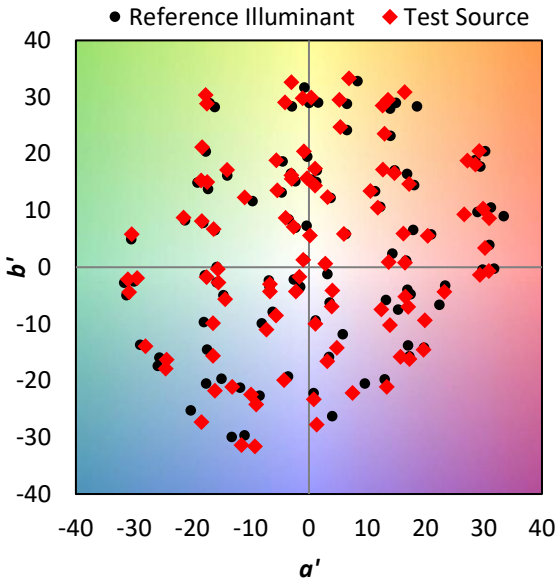
Summary

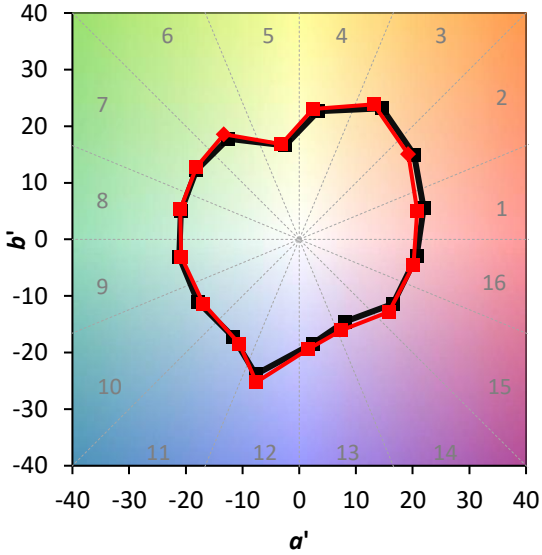
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R_g = 101.1
CIE R_a = 93.4
R_9 = 61.5

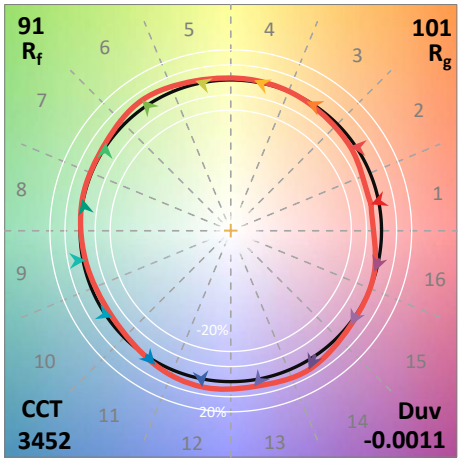
Spectral Power Distribution Comparison

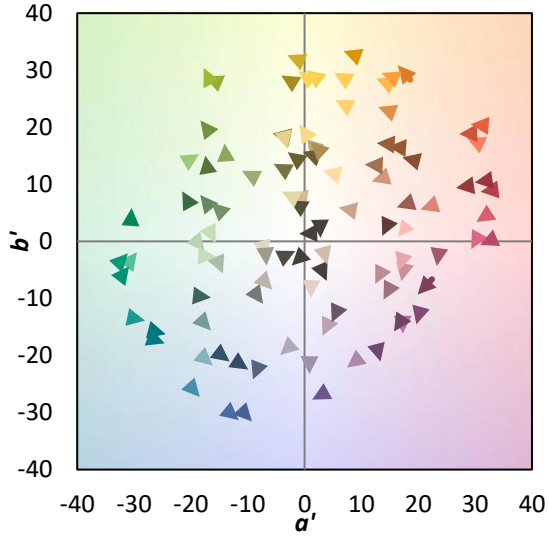


Color Vector Graphics







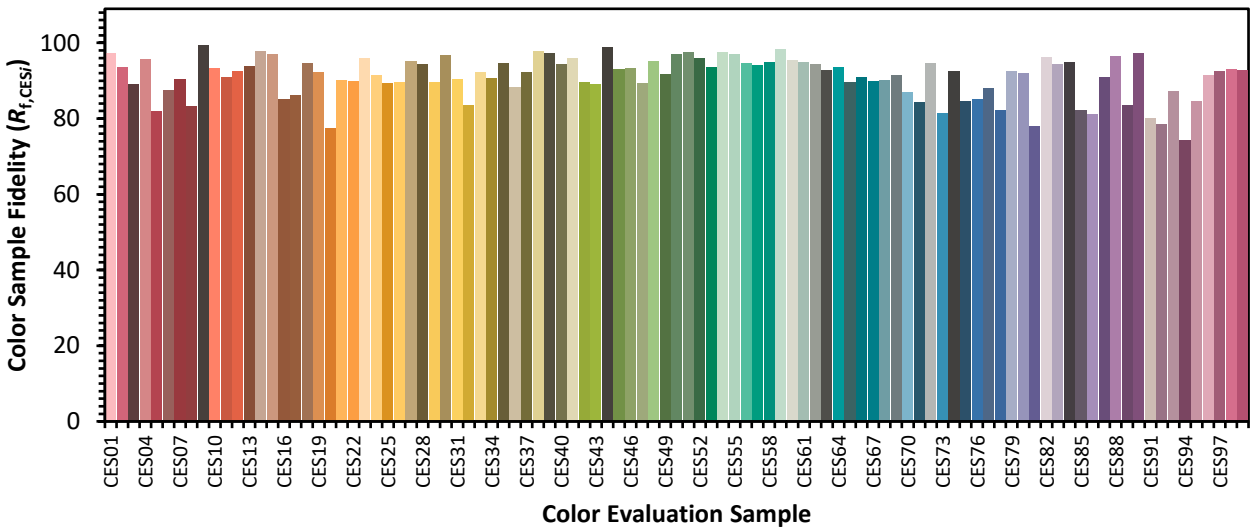


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Individual Sample Fidelity Index ($R_{f,i}$)

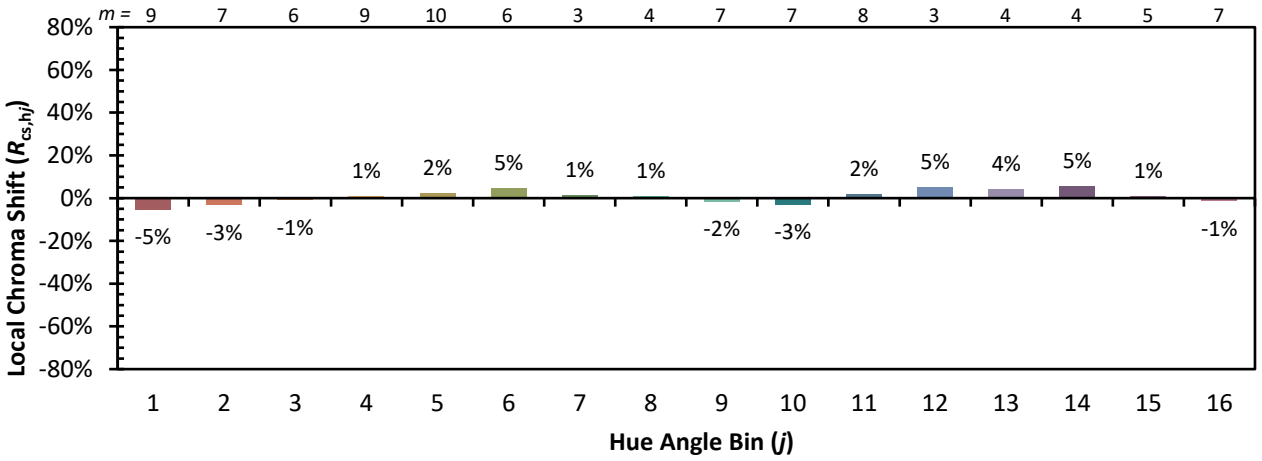
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 88
CES03 = 31	CES28 = 94	CES53 = 94	CES78 = 82
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 97	CES55 = 97	CES80 = 92
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 78
CES07 = 43	CES32 = 84	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 92	CES58 = 95	CES83 = 94
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 95	CES60 = 96	CES85 = 82
CES11 = 58	CES36 = 88	CES61 = 95	CES86 = 81
CES12 = 64	CES37 = 92	CES62 = 94	CES87 = 91
CES13 = 43	CES38 = 98	CES63 = 93	CES88 = 97
CES14 = 74	CES39 = 97	CES64 = 94	CES89 = 84
CES15 = 71	CES40 = 94	CES65 = 90	CES90 = 97
CES16 = 47	CES41 = 96	CES66 = 91	CES91 = 80
CES17 = 49	CES42 = 90	CES67 = 90	CES92 = 79
CES18 = 56	CES43 = 89	CES68 = 90	CES93 = 87
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 74
CES20 = 67	CES45 = 93	CES70 = 87	CES95 = 84
CES21 = 86	CES46 = 93	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 89	CES72 = 95	CES97 = 93
CES23 = 91	CES48 = 95	CES73 = 81	CES98 = 93
CES24 = 90	CES49 = 92	CES74 = 92	CES99 = 93
CES25 = 71	CES50 = 97	CES75 = 85	

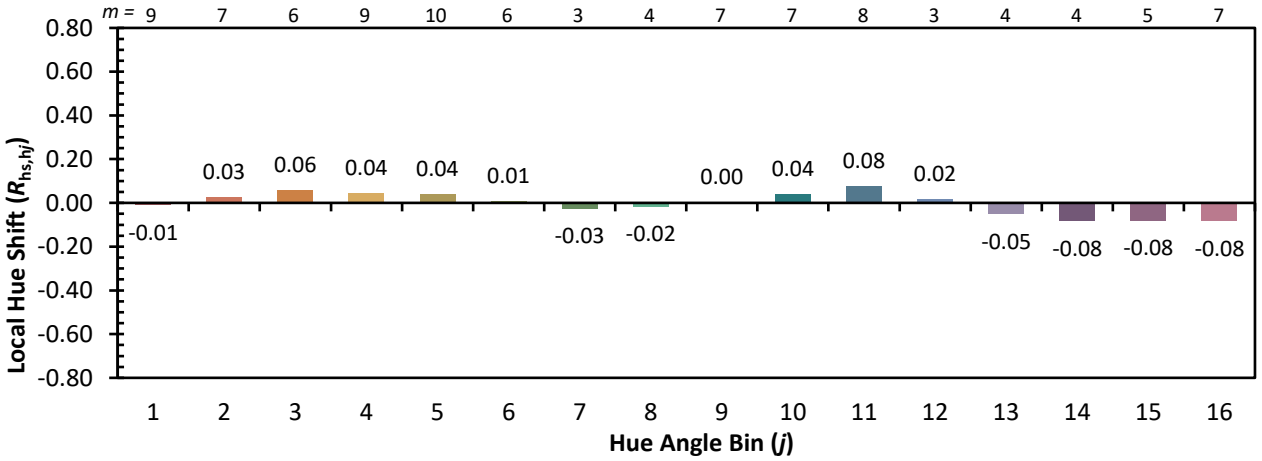


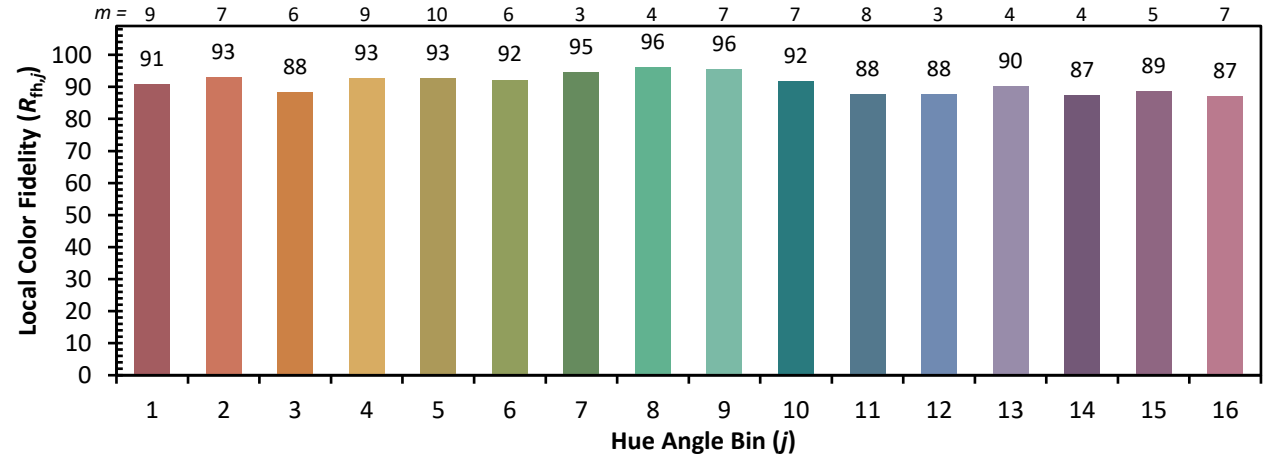
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Color Rendition by Hue-Angle Bin



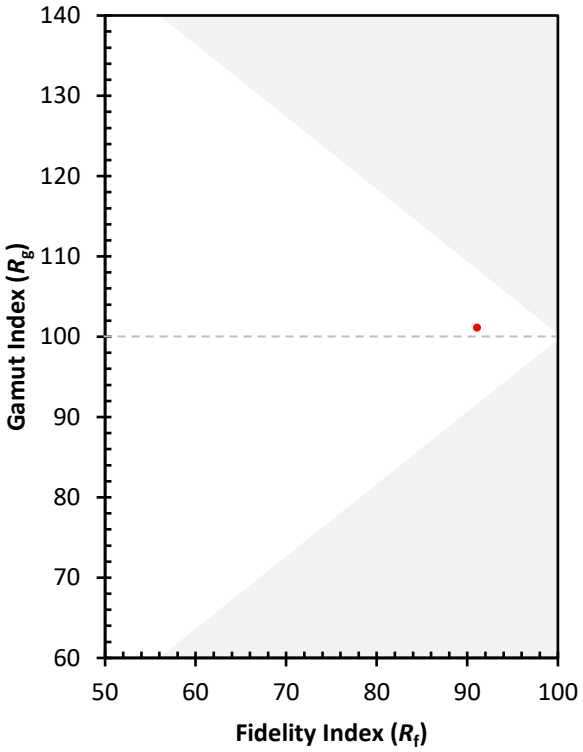


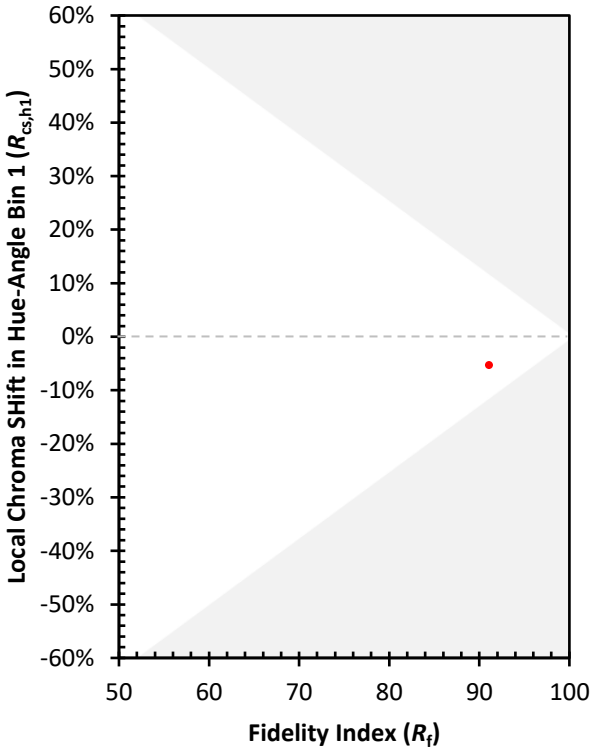


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Measure Comparisons





(END OF REPORT)