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: P1590797

Luminaire Tested: 24CGTX-45-L92765-W2A-5000K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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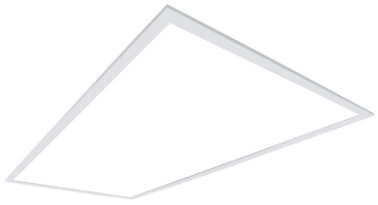
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590797
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-586-8)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-45-L92765-W2A-5000K
Description:	2X4 4500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 5000K CCT WITH FROSTED SMOOTH LENS
Light Source:	5000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5197.9 lumens
Efficiency:	N/A
Efficacy:	117.1 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):	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

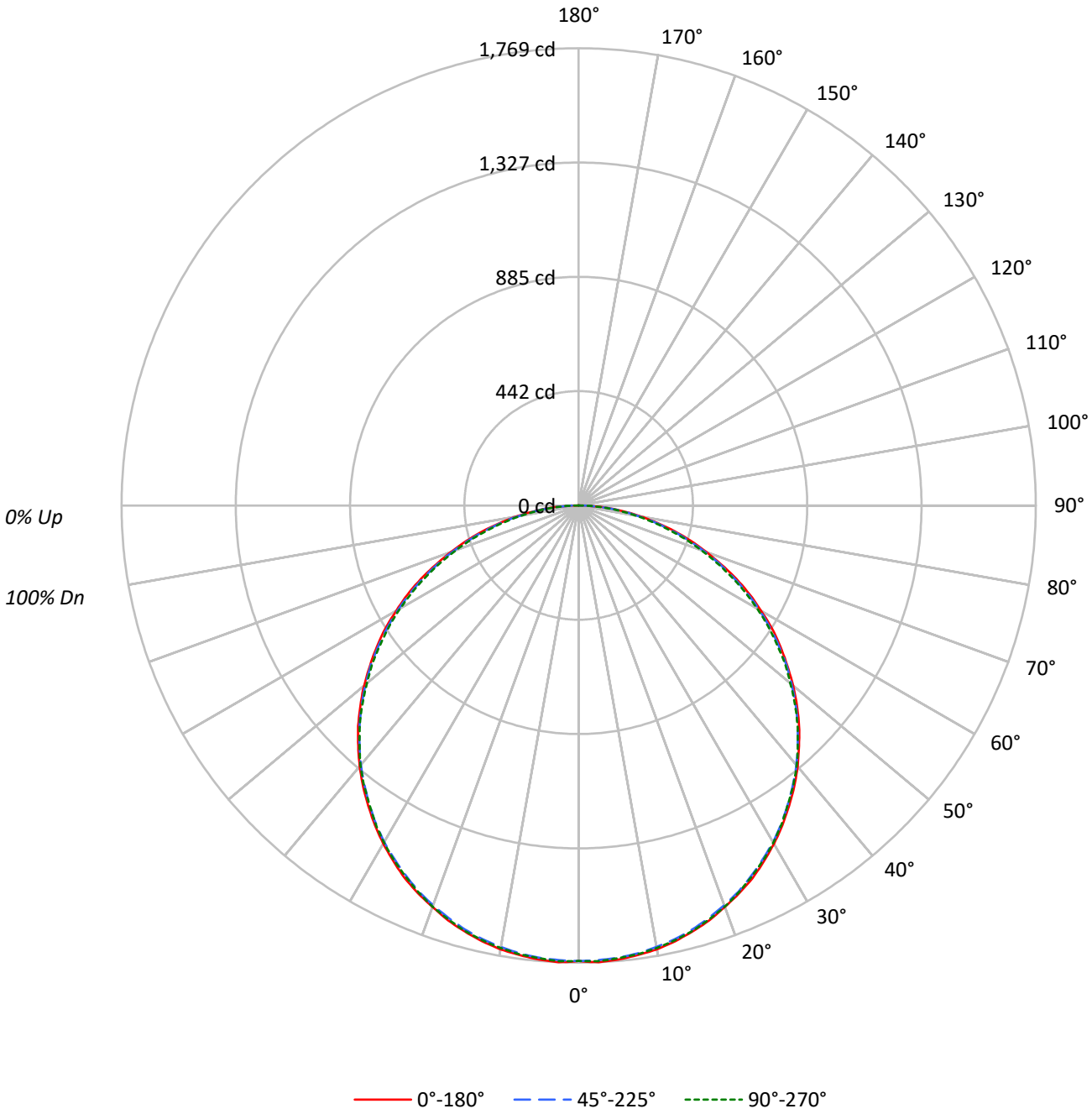


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Scaled Data Report

TEST NUMBER: P1590797
CATALOG NUMBER: 24CGTX-45-L92765-W2A-5000K

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	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°	2372	2372	2372
5°	2382	2372	2375
10°	2383	2370	2375
15°	2377	2366	2374
20°	2368	2357	2366
25°	2363	2347	2352
30°	2348	2337	2340
35°	2331	2319	2319
40°	2315	2302	2306
45°	2296	2280	2278
50°	2269	2251	2238
55°	2236	2217	2195
60°	2192	2170	2147
65°	2145	2105	2072
70°	2063	2026	1977
75°	1995	1929	1853
80°	1881	1808	1727
85°	1752	1639	1558

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2296 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590797
CATALOG NUMBER: 24CGTX-45-L92765-W2A-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.2
10°-20°	480.0	9.2
20°-30°	730.2	14.0
30°-40°	884.9	17.0
40°-50°	925.0	17.8
50°-60°	844.3	16.2
60°-70°	654.3	12.6
70°-80°	392.5	7.6
80°-90°	119.5	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°	1377.4	26.5
0°-40°	2262.3	43.5
0°-60°	4031.6	77.6
0°-90°	5197.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5197.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1764	1759	1756	1754	1759	168
15°	1706	1702	1699	1698	1704	482
25°	1592	1585	1581	1584	1584	733
35°	1419	1418	1412	1411	1412	888
45°	1207	1203	1198	1195	1197	930
55°	953	950	945	940	936	852
65°	674	670	661	653	651	665
75°	384	378	371	364	356	404
85°	114	110	106	102	101	125
90°	0	0	0	0	0	

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TEST NUMBER: P1590797
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1762.8*	1762.8	1762.8	1762.8	1762.8
2.5°	*1769.1*	*1762.8*	*1760.7*	*1758.6*	*1764.9*
5°	*1763.9*	1758.6	1756.5	1754.4	1758.6
7.5°	*1754.4*	1750.2	1748.1	1746.0	1751.3
10°	*1743.9*	1738.7	1734.5	1733.4	1738.7
12.5°	*1727.1*	1720.8	1718.7	1718.7	1722.9
15°	*1706.1*	1701.9	1698.7	1697.7	1704.0
17.5°	*1682.9*	1677.7	1673.5	1674.5	1678.7
20°	*1653.5*	1650.4	1646.2	1648.3	1652.5
22.5°	*1624.1*	1620.9	1616.7	1616.7	1619.9
25°	*1591.5*	1585.2	1581.0	1584.1	1584.1
27.5°	*1552.6*	1547.3	1543.1	1544.2	1547.3
30°	*1511.6*	1508.4	1504.2	1503.2	1506.3
32.5°	*1467.5*	1463.2	1460.1	1459.0	1462.2
35°	*1419.1*	1418.0	1411.7	1410.7	1411.7
37.5°	*1370.7*	1367.6	1362.3	1362.3	1364.4
40°	*1318.2*	1314.0	1310.8	1307.7	1312.9
42.5°	*1262.5*	1260.4	1255.1	1254.1	1255.1
45°	*1206.8*	1202.6	1198.3	1195.2	1197.3
47.5°	*1145.8*	1144.7	1138.4	1135.3	1134.2
50°	*1083.8*	1081.7	1075.4	1071.2	1069.1
52.5°	*1017.5*	1016.5	1013.3	1007.0	1007.0
55°	*953.4*	950.3	945.0	939.8	935.6
57.5°	*888.3*	881.9	876.7	869.3	868.3
60°	*814.7*	811.5	806.3	798.9	797.8
62.5°	*747.4*	741.1	734.8	727.4	724.3
65°	*673.8*	669.6	661.2	652.8	650.7
67.5°	*598.1*	596.0	589.7	578.2	577.1
70°	*524.5*	521.4	515.1	506.7	502.5
72.5°	*455.2*	451.0	441.5	436.2	432.0
75°	*383.7*	378.4	371.1	363.7	356.4
77.5°	*310.1*	309.0	302.7	293.3	289.1
80°	*242.8*	238.6	233.4	225.0	222.9
82.5°	*176.6*	174.5	170.3	161.9	160.8
85°	*113.5*	110.4	106.2	102.0	100.9
87.5°	*48.4*	48.4	48.4	46.3	46.3
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	15.00	16.66	15.36	16.97	17.29	14.89	16.55	15.25	16.86	17.17
	3H	16.91	18.41	17.28	18.74	19.10	16.74	18.24	17.12	18.57	18.93
	4H	17.66	19.08	18.06	19.43	19.80	17.45	18.87	17.85	19.22	19.59
	6H	18.25	19.57	18.66	19.93	20.32	17.99	19.31	18.40	19.67	20.06
	8H	18.46	19.72	18.88	20.11	20.50	18.18	19.44	18.60	19.83	20.23
	12H	18.61	19.82	19.04	20.20	20.63	18.31	19.52	18.74	19.90	20.33
4H	2H	15.65	17.06	16.04	17.41	17.79	15.56	16.98	15.96	17.32	17.70
	3H	17.78	18.97	18.19	19.37	19.77	17.64	18.83	18.05	19.23	19.63
	4H	18.67	19.76	19.10	20.17	20.60	18.48	19.57	18.91	19.98	20.41
	6H	19.40	20.35	19.86	20.79	21.24	19.16	20.11	19.61	20.55	21.00
	8H	19.67	20.56	20.13	21.00	21.46	19.40	20.29	19.86	20.73	21.19
	12H	19.88	20.68	20.36	21.15	21.62	19.58	20.38	20.06	20.86	21.32
8H	4H	19.01	19.90	19.47	20.34	20.80	18.84	19.73	19.30	20.17	20.64
	6H	19.88	20.62	20.37	21.10	21.58	19.66	20.40	20.15	20.88	21.36
	8H	20.23	20.90	20.74	21.40	21.89	19.98	20.64	20.48	21.15	21.63
	12H	20.53	21.12	21.03	21.61	22.16	20.24	20.83	20.74	21.32	21.88
12H	4H	19.05	19.85	19.53	20.33	20.79	18.89	19.69	19.37	20.17	20.64
	6H	19.95	20.61	20.45	21.12	21.60	19.73	20.40	20.24	20.91	21.39
	8H	20.36	20.95	20.87	21.44	22.00	20.12	20.71	20.62	21.20	21.76

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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: SP1-2510-566-13-R2

Test Date: 10/14/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-5000K

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

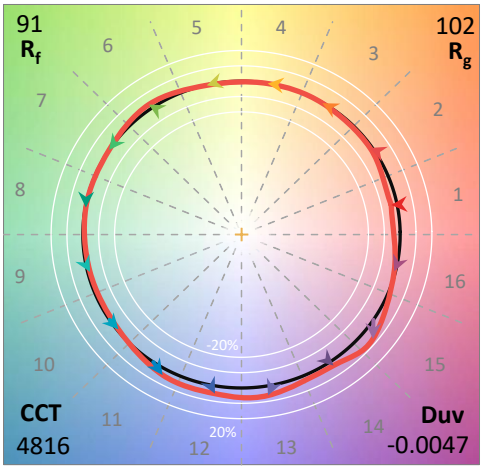
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-13-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-5000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-13-R2 TO UPDATE THE CATALOG INFORMATION*2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 4 V

Spectral Parameters

CCT (K):	4816	CRI (Ra):	95.9		
CIE u':	0.2166	R1:	97.7	R9:	83.7
CIE v':	0.4824	R2:	98.1	R10:	93.6
Duv:	-0.0047	R3:	94.7	R11:	96.0
CIE x:	0.3493	R4:	97.7	R12:	71.1
CIE y:	0.3457	R5:	96.5	R13:	99.1
CIE z:	0.3051	R6:	93.1	R14:	96.3
Peak Wavelength (nm):	630	R7:	95.9	R15:	97.4
Dominant Wavelength (nm):	581	R8:	93.8		
Purity:	8.50802				
Rf:	90.9				
Rg:	101.8				



Test Conditions

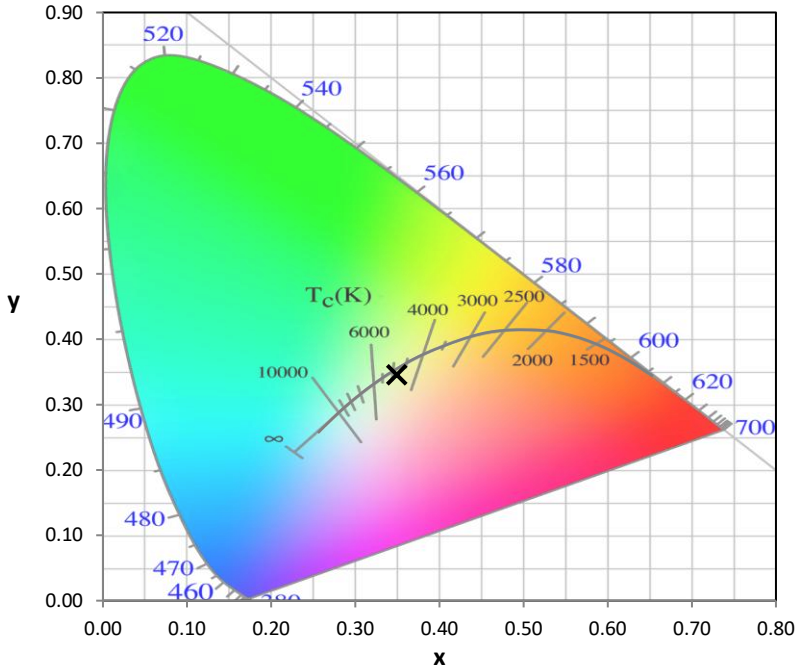
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2510-566-13-R2

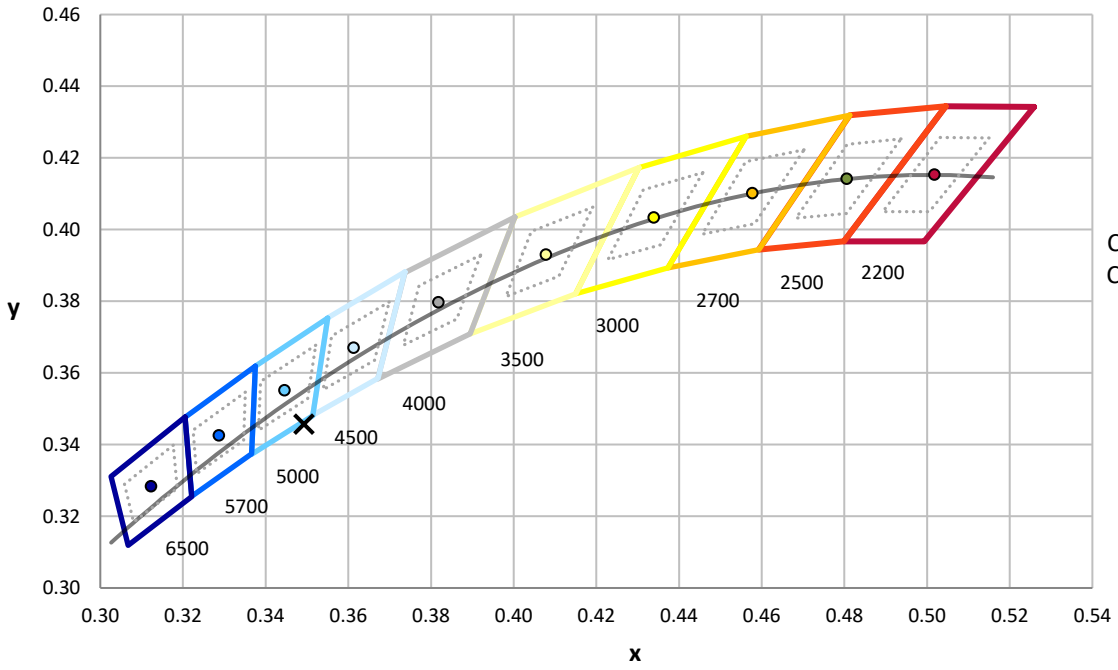
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2510-566-13-R2

CIE 1931 Chromaticity Diagram



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

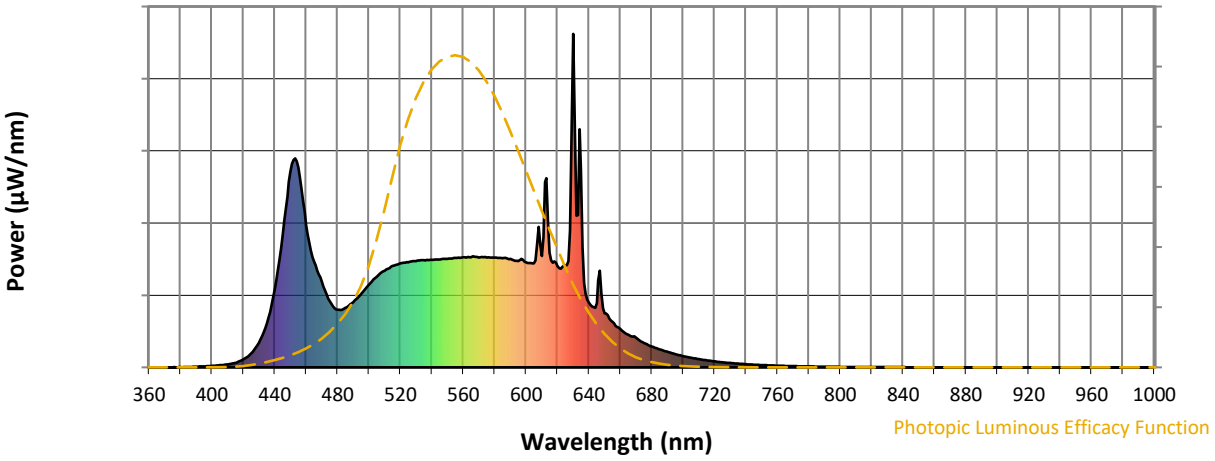


CCT = 4816K
CIE x = 0.3493
CIE y = 0.3457
Duv = -0.0047

Point lies outside the range

REPORT NUMBER: SP1-2510-566-13-R2

Photopic Flux vs. Wavelength

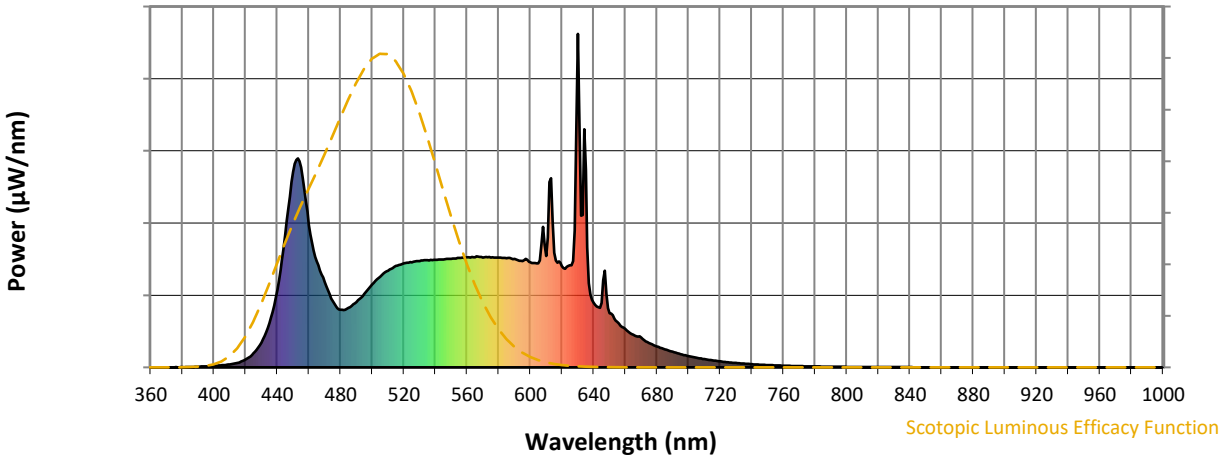


Photopic Lumens: NR

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	196	NR	620	303	NR	750	7	NR	880	0	NR
365	0	NR	495	220	NR	625	307	NR	755	6	NR	885	0	NR
370	0	NR	500	248	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	272	NR	635	591	NR	765	4	NR	895	0	NR
380	1	NR	510	290	NR	640	194	NR	770	4	NR	900	0	NR
385	1	NR	515	305	NR	645	193	NR	775	3	NR	905	0	NR
390	2	NR	520	312	NR	650	162	NR	780	3	NR	910	0	NR
395	3	NR	525	315	NR	655	136	NR	785	2	NR	915	0	NR
400	4	NR	530	318	NR	660	115	NR	790	2	NR	920	0	NR
405	6	NR	535	321	NR	665	98	NR	795	2	NR	925	0	NR
410	8	NR	540	323	NR	670	90	NR	800	1	NR	930	0	NR
415	14	NR	545	324	NR	675	73	NR	805	1	NR	935	0	NR
420	24	NR	550	326	NR	680	63	NR	810	1	NR	940	0	NR
425	42	NR	555	329	NR	685	54	NR	815	1	NR	945	0	NR
430	74	NR	560	330	NR	690	47	NR	820	1	NR	950	0	NR
435	133	NR	565	330	NR	695	40	NR	825	1	NR	955	0	NR
440	232	NR	570	330	NR	700	34	NR	830	1	NR	960	0	NR
445	395	NR	575	330	NR	705	29	NR	835	1	NR	965	0	NR
450	587	NR	580	330	NR	710	25	NR	840	1	NR	970	0	NR
455	600	NR	585	328	NR	715	21	NR	845	0	NR	975	0	NR
460	428	NR	590	325	NR	720	18	NR	850	0	NR	980	0	NR
465	318	NR	595	319	NR	725	15	NR	855	0	NR	985	0	NR
470	255	NR	600	315	NR	730	13	NR	860	0	NR	990	0	NR
475	199	NR	605	312	NR	735	11	NR	865	0	NR	995	0	NR
480	173	NR	610	334	NR	740	9	NR	870	0	NR	1000	0	NR
485	178	NR	615	344	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-13-R2

Scotopic Flux vs. Wavelength

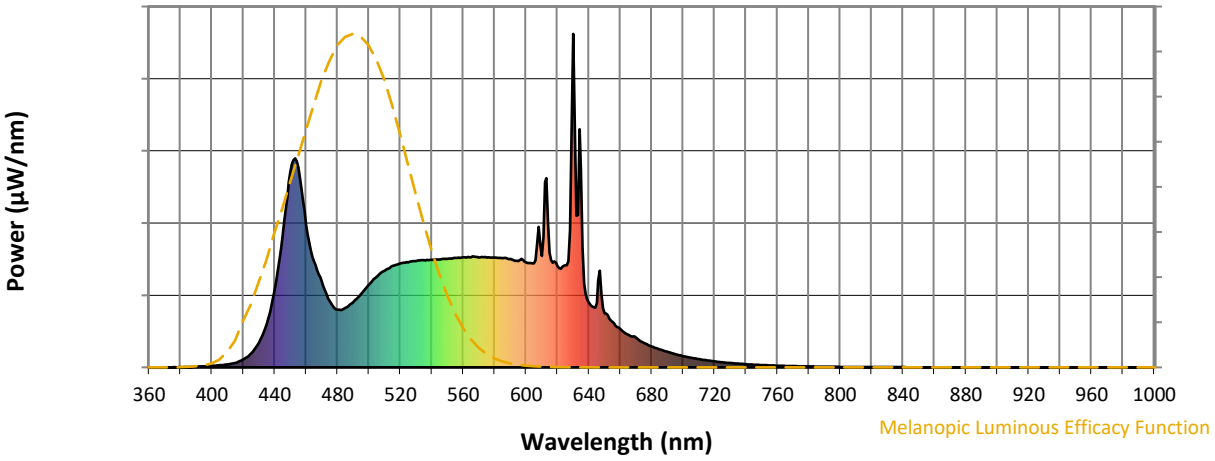


Scotopic Lumens: NR **S/P: 2.04**

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	196	NR	620	303	NR	750	7	NR	880	0	NR
365	0	NR	495	220	NR	625	307	NR	755	6	NR	885	0	NR
370	0	NR	500	248	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	272	NR	635	591	NR	765	4	NR	895	0	NR
380	1	NR	510	290	NR	640	194	NR	770	4	NR	900	0	NR
385	1	NR	515	305	NR	645	193	NR	775	3	NR	905	0	NR
390	2	NR	520	312	NR	650	162	NR	780	3	NR	910	0	NR
395	3	NR	525	315	NR	655	136	NR	785	2	NR	915	0	NR
400	4	NR	530	318	NR	660	115	NR	790	2	NR	920	0	NR
405	6	NR	535	321	NR	665	98	NR	795	2	NR	925	0	NR
410	8	NR	540	323	NR	670	90	NR	800	1	NR	930	0	NR
415	14	NR	545	324	NR	675	73	NR	805	1	NR	935	0	NR
420	24	NR	550	326	NR	680	63	NR	810	1	NR	940	0	NR
425	42	NR	555	329	NR	685	54	NR	815	1	NR	945	0	NR
430	74	NR	560	330	NR	690	47	NR	820	1	NR	950	0	NR
435	133	NR	565	330	NR	695	40	NR	825	1	NR	955	0	NR
440	232	NR	570	330	NR	700	34	NR	830	1	NR	960	0	NR
445	395	NR	575	330	NR	705	29	NR	835	1	NR	965	0	NR
450	587	NR	580	330	NR	710	25	NR	840	1	NR	970	0	NR
455	600	NR	585	328	NR	715	21	NR	845	0	NR	975	0	NR
460	428	NR	590	325	NR	720	18	NR	850	0	NR	980	0	NR
465	318	NR	595	319	NR	725	15	NR	855	0	NR	985	0	NR
470	255	NR	600	315	NR	730	13	NR	860	0	NR	990	0	NR
475	199	NR	605	312	NR	735	11	NR	865	0	NR	995	0	NR
480	173	NR	610	334	NR	740	9	NR	870	0	NR	1000	0	NR
485	178	NR	615	344	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.45**

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	196	NR	620	303	NR	750	7	NR	880	0	NR
365	0	NR	495	220	NR	625	307	NR	755	6	NR	885	0	NR
370	0	NR	500	248	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	272	NR	635	591	NR	765	4	NR	895	0	NR
380	1	NR	510	290	NR	640	194	NR	770	4	NR	900	0	NR
385	1	NR	515	305	NR	645	193	NR	775	3	NR	905	0	NR
390	2	NR	520	312	NR	650	162	NR	780	3	NR	910	0	NR
395	3	NR	525	315	NR	655	136	NR	785	2	NR	915	0	NR
400	4	NR	530	318	NR	660	115	NR	790	2	NR	920	0	NR
405	6	NR	535	321	NR	665	98	NR	795	2	NR	925	0	NR
410	8	NR	540	323	NR	670	90	NR	800	1	NR	930	0	NR
415	14	NR	545	324	NR	675	73	NR	805	1	NR	935	0	NR
420	24	NR	550	326	NR	680	63	NR	810	1	NR	940	0	NR
425	42	NR	555	329	NR	685	54	NR	815	1	NR	945	0	NR
430	74	NR	560	330	NR	690	47	NR	820	1	NR	950	0	NR
435	133	NR	565	330	NR	695	40	NR	825	1	NR	955	0	NR
440	232	NR	570	330	NR	700	34	NR	830	1	NR	960	0	NR
445	395	NR	575	330	NR	705	29	NR	835	1	NR	965	0	NR
450	587	NR	580	330	NR	710	25	NR	840	1	NR	970	0	NR
455	600	NR	585	328	NR	715	21	NR	845	0	NR	975	0	NR
460	428	NR	590	325	NR	720	18	NR	850	0	NR	980	0	NR
465	318	NR	595	319	NR	725	15	NR	855	0	NR	985	0	NR
470	255	NR	600	315	NR	730	13	NR	860	0	NR	990	0	NR
475	199	NR	605	312	NR	735	11	NR	865	0	NR	995	0	NR
480	173	NR	610	334	NR	740	9	NR	870	0	NR	1000	0	NR
485	178	NR	615	344	NR	745	8	NR	875	0	NR			

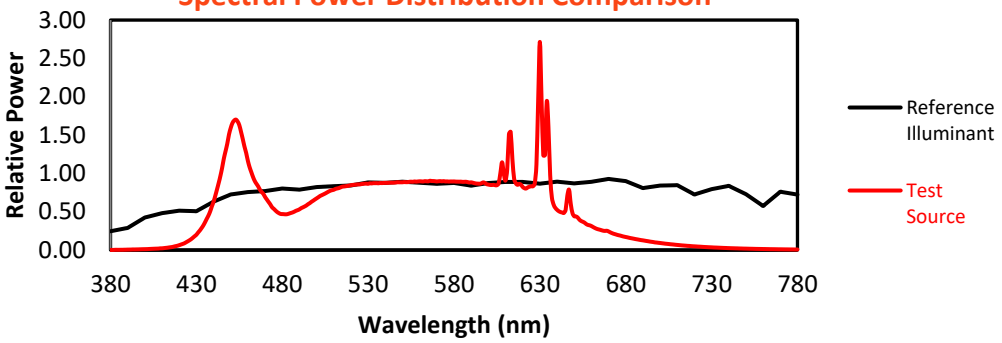
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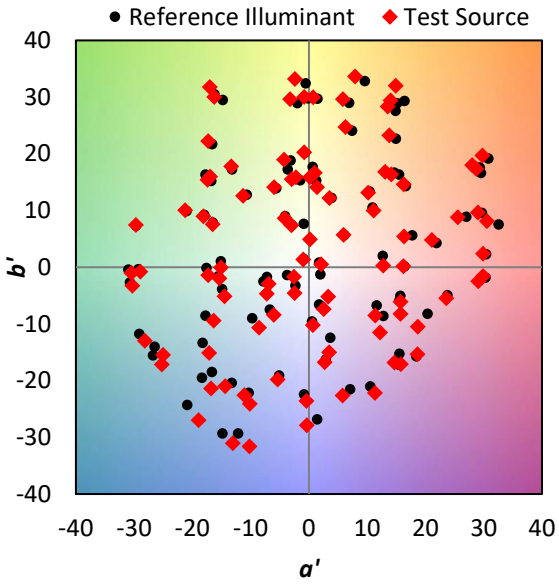
Summary

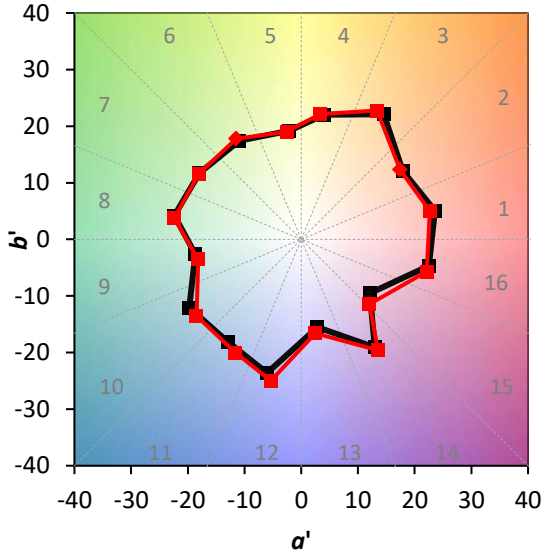
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R_g = 101.8
CIE R_a = 95.9
R_9 = 83.7

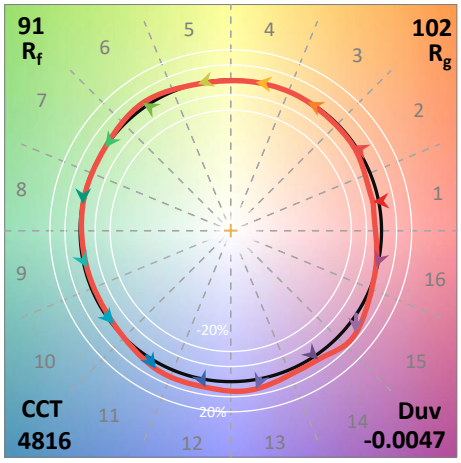
Spectral Power Distribution Comparison

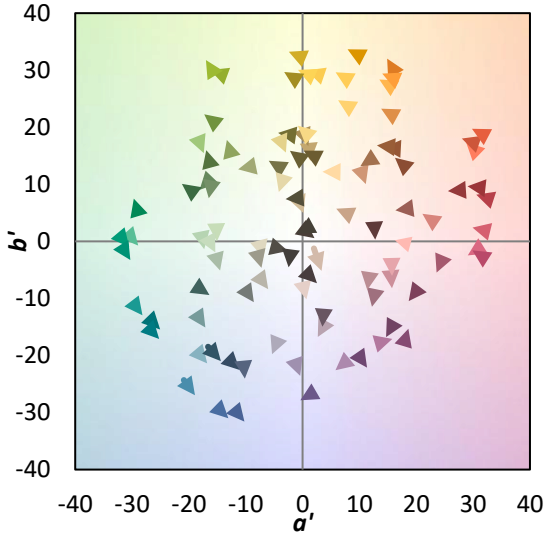


Color Vector Graphics







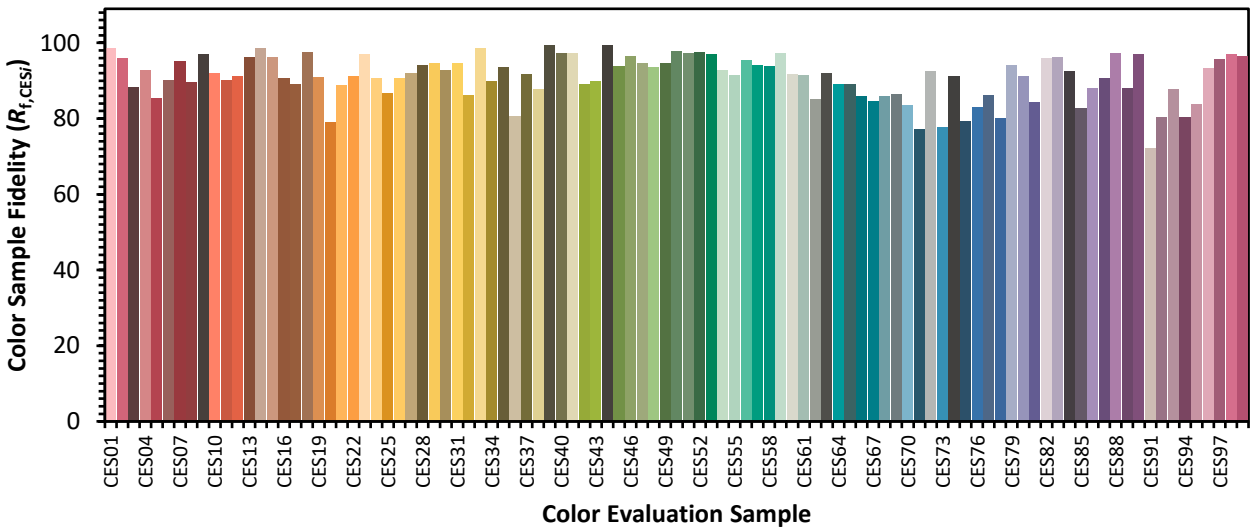


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Individual Sample Fidelity Index ($R_{f,i}$)

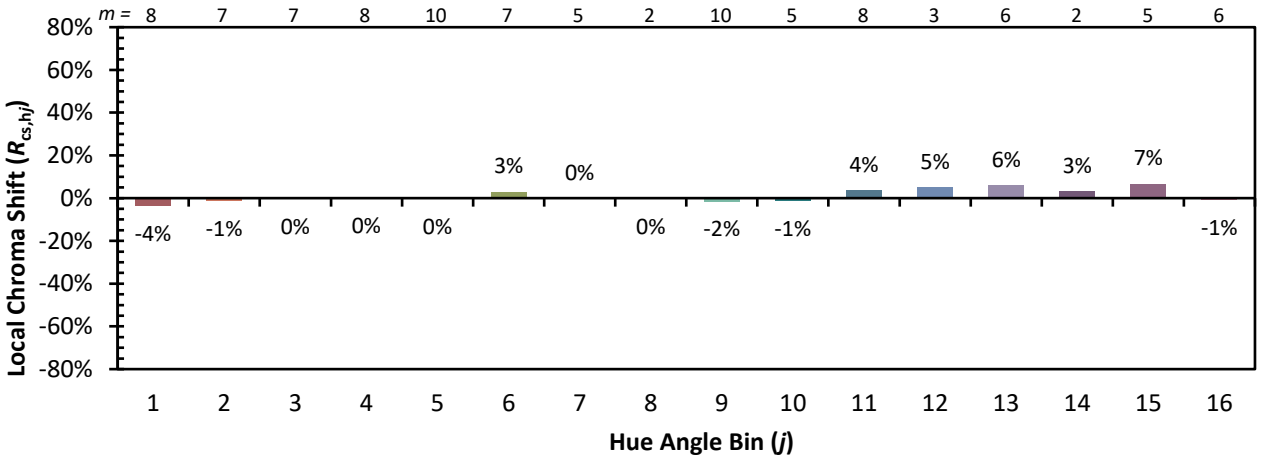
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CES02 = 61	CES27 = 92	CES52 = 97	CES77 = 86
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 94
CES05 = 48	CES30 = 93	CES55 = 91	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 84
CES07 = 41	CES32 = 86	CES57 = 94	CES82 = 96
CES08 = 40	CES33 = 99	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 90	CES59 = 97	CES84 = 92
CES10 = 74	CES35 = 94	CES60 = 92	CES85 = 83
CES11 = 56	CES36 = 81	CES61 = 91	CES86 = 88
CES12 = 62	CES37 = 92	CES62 = 85	CES87 = 91
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 88
CES15 = 71	CES40 = 97	CES65 = 89	CES90 = 97
CES16 = 47	CES41 = 97	CES66 = 86	CES91 = 72
CES17 = 49	CES42 = 89	CES67 = 85	CES92 = 80
CES18 = 56	CES43 = 90	CES68 = 86	CES93 = 88
CES19 = 70	CES44 = 99	CES69 = 86	CES94 = 80
CES20 = 65	CES45 = 94	CES70 = 83	CES95 = 84
CES21 = 85	CES46 = 96	CES71 = 77	CES96 = 93
CES22 = 77	CES47 = 95	CES72 = 92	CES97 = 96
CES23 = 91	CES48 = 94	CES73 = 78	CES98 = 97
CES24 = 90	CES49 = 95	CES74 = 91	CES99 = 96
CES25 = 70	CES50 = 98	CES75 = 79	

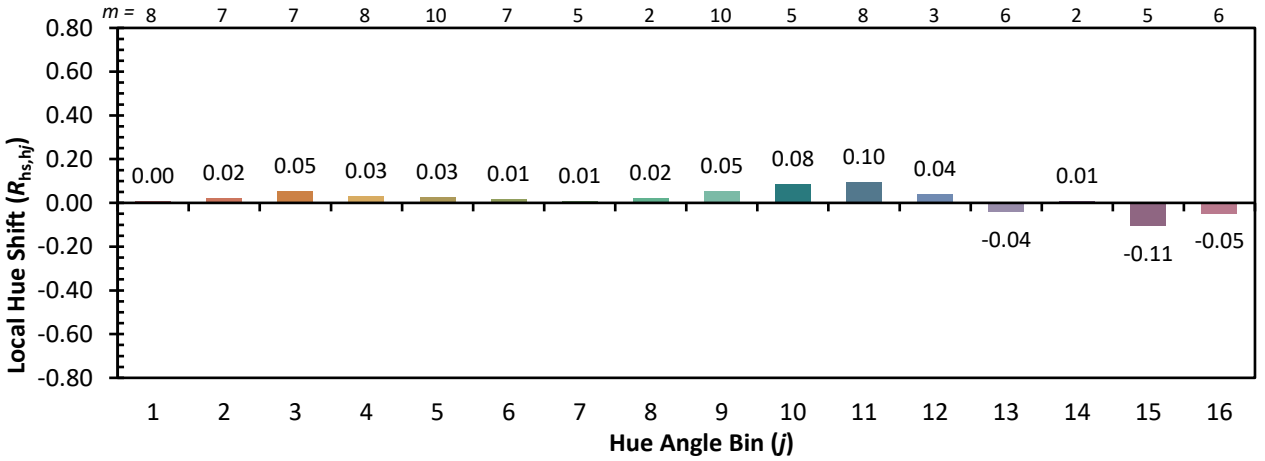


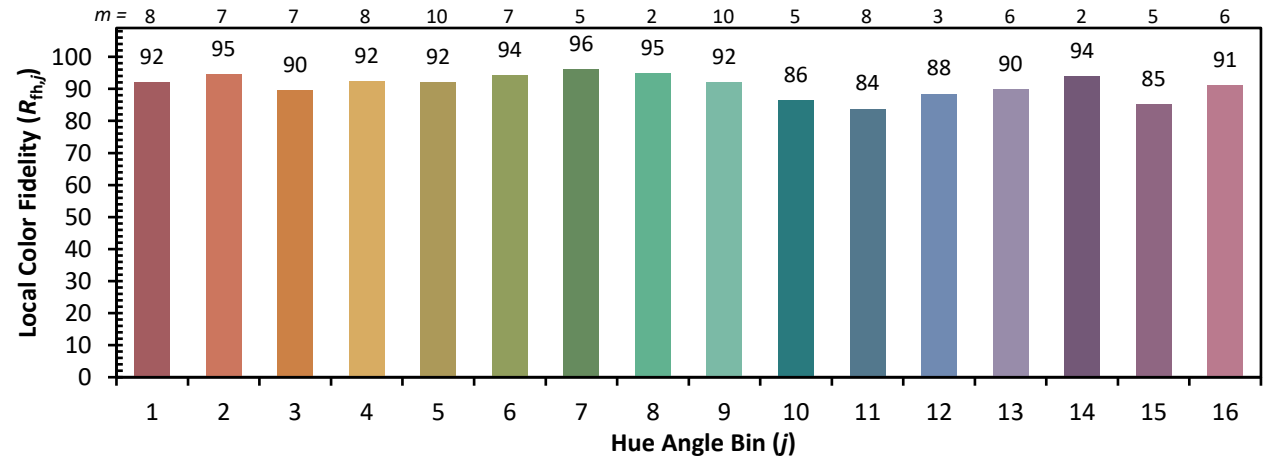
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Color Rendition by Hue-Angle Bin



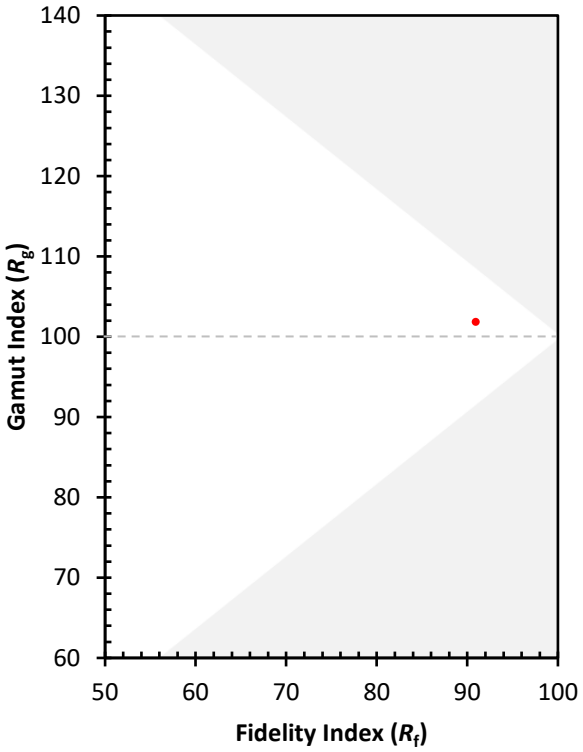


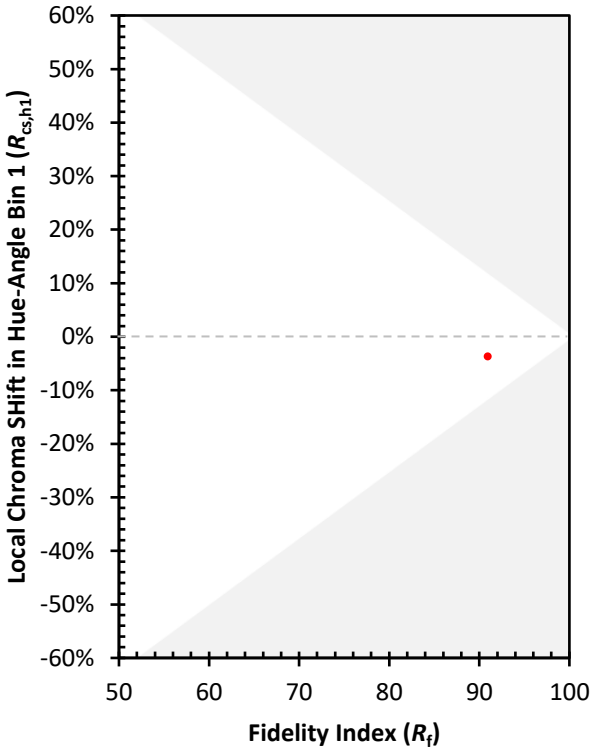


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Measure Comparisons





(END OF REPORT)