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: P1590793

Luminaire Tested: 24CGTX-45-L92765-W2A-3000K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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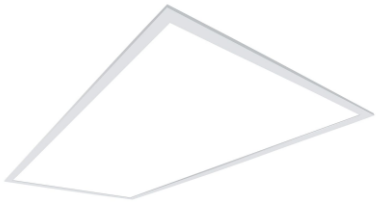
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590793
	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-3000K
Description:	2X4 4500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 3000K CCT WITH FROSTED SMOOTH LENS
Light Source:	3000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5009.6 lumens
Efficiency:	N/A
Efficacy:	112.8 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

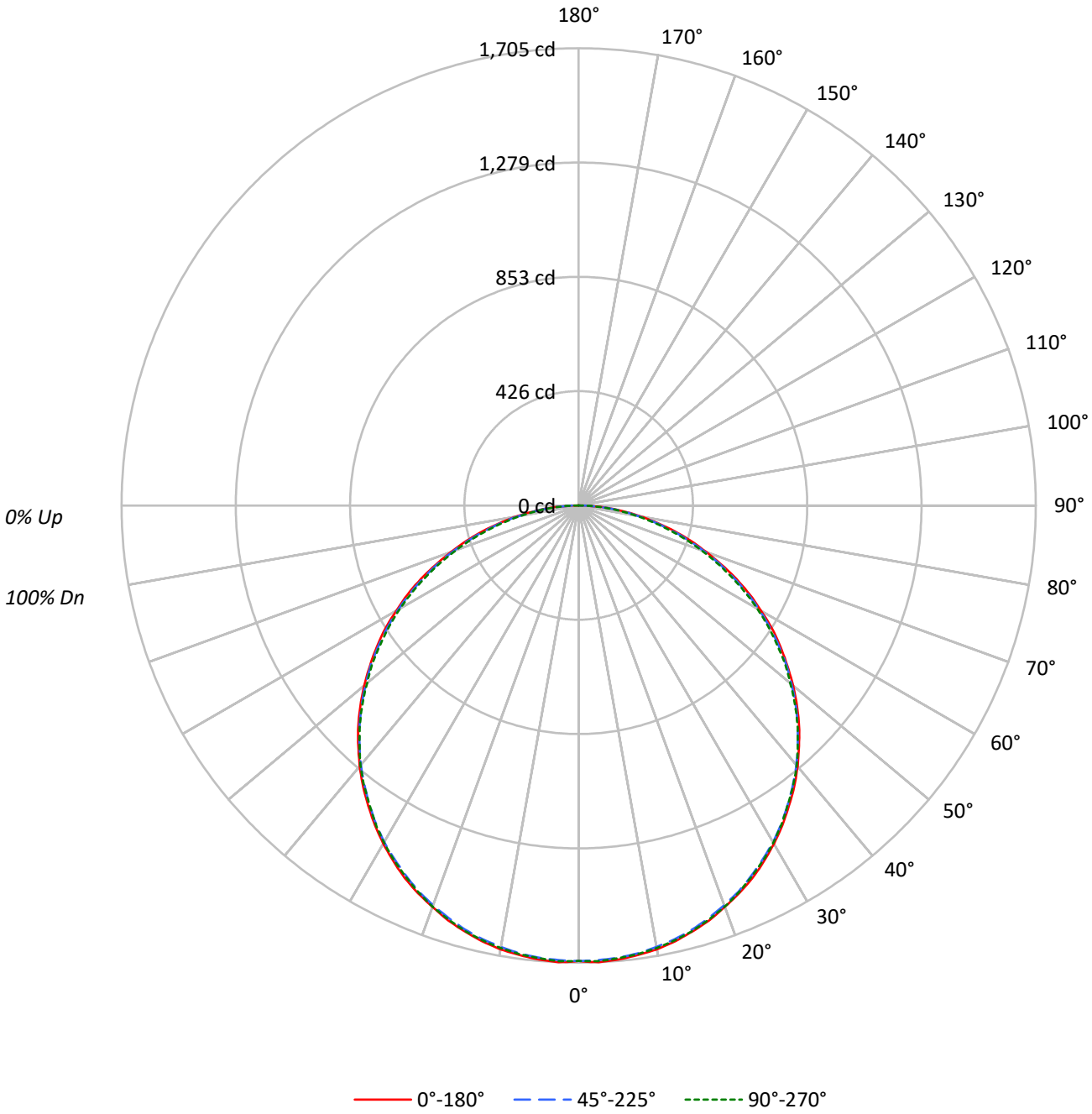


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Scaled Data Report

TEST NUMBER: P1590793
CATALOG NUMBER: 24CGTX-45-L92765-W2A-3000K

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°	2286	2286	2286
5°	2296	2286	2289
10°	2296	2284	2289
15°	2290	2281	2288
20°	2282	2272	2280
25°	2277	2262	2267
30°	2263	2252	2256
35°	2247	2235	2235
40°	2231	2219	2223
45°	2213	2198	2196
50°	2186	2169	2157
55°	2156	2137	2115
60°	2113	2091	2069
65°	2067	2029	1996
70°	1989	1953	1905
75°	1922	1859	1785
80°	1813	1743	1664
85°	1689	1579	1502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2213 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590793
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	3.2
10°-20°	462.6	9.2
20°-30°	703.8	14.0
30°-40°	852.9	17.0
40°-50°	891.5	17.8
50°-60°	813.7	16.2
60°-70°	630.6	12.6
70°-80°	378.3	7.6
80°-90°	115.1	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°	1327.5	26.5
0°-40°	2180.4	43.5
0°-60°	3885.6	77.6
0°-90°	5009.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5009.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1699	1699	1699	1699	1699	
5°	1700	1695	1693	1691	1695	162
15°	1644	1640	1637	1636	1642	464
25°	1534	1528	1524	1527	1527	706
35°	1368	1367	1361	1360	1361	856
45°	1163	1159	1155	1152	1154	896
55°	919	916	911	906	902	821
65°	649	645	637	629	627	641
75°	370	365	358	350	343	390
85°	109	106	102	98	97	121
90°	0	0	0	0	0	

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TEST NUMBER: P1590793
CATALOG NUMBER: 24CGTX-45-L92765-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1699.0*	1699.0	1699.0	1699.0	1699.0
2.5°	*1705.1*	*1699.0*	*1697.0*	*1694.9*	*1701.0*
5°	*1700.0*	1694.9	1692.9	1690.9	1694.9
7.5°	*1690.9*	1686.8	1684.8	1682.8	1687.8
10°	*1680.7*	1675.7	1671.6	1670.6	1675.7
12.5°	*1664.5*	1658.5	1656.4	1656.4	1660.5
15°	*1644.3*	1640.2	1637.2	1636.2	1642.2
17.5°	*1622.0*	1616.9	1612.9	1613.9	1617.9
20°	*1593.6*	1590.6	1586.5	1588.6	1592.6
22.5°	*1565.3*	1562.2	1558.2	1558.2	1561.2
25°	*1533.8*	1527.8	1523.7	1526.8	1526.8
27.5°	*1496.4*	1491.3	1487.2	1488.3	1491.3
30°	*1456.8*	1453.8	1449.8	1448.7	1451.8
32.5°	*1414.3*	1410.2	1407.2	1406.2	1409.2
35°	*1367.7*	1366.7	1360.6	1359.6	1360.6
37.5°	*1321.1*	1318.1	1313.0	1313.0	1315.0
40°	*1270.4*	1266.4	1263.3	1260.3	1265.4
42.5°	*1216.7*	1214.7	1209.7	1208.6	1209.7
45°	*1163.0*	1159.0	1154.9	1151.9	1153.9
47.5°	*1104.3*	1103.3	1097.2	1094.2	1093.1
50°	*1044.5*	1042.5	1036.4	1032.4	1030.3
52.5°	*980.7*	979.7	976.6	970.6	970.6
55°	*918.9*	915.9	910.8	905.7	901.7
57.5°	*856.1*	850.0	844.9	837.8	836.8
60°	*785.2*	782.1	777.1	770.0	768.9
62.5°	*720.3*	714.2	708.2	701.1	698.0
65°	*649.4*	645.4	637.2	629.1	627.1
67.5°	*576.5*	574.4	568.4	557.2	556.2
70°	*505.5*	502.5	496.4	488.3	484.3
72.5°	*438.7*	434.6	425.5	420.4	416.4
75°	*369.8*	364.7	357.6	350.5	343.4
77.5°	*298.9*	297.9	291.8	282.7	278.6
80°	*234.0*	230.0	224.9	216.8	214.8
82.5°	*170.2*	168.2	164.1	156.0	155.0
85°	*109.4*	106.4	102.3	98.3	97.3
87.5°	*46.6*	46.6	46.6	44.6	44.6
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 24CGTX-45-L92765-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	14.87	16.53	15.24	16.84	17.16	14.76	16.42	15.12	16.73	17.05
	3H	16.78	18.28	17.16	18.61	18.97	16.61	18.12	16.99	18.44	18.80
	4H	17.53	18.95	17.93	19.30	19.67	17.32	18.74	17.72	19.09	19.46
	6H	18.12	19.44	18.53	19.80	20.19	17.87	19.18	18.28	19.55	19.94
	8H	18.33	19.59	18.76	19.98	20.38	18.05	19.31	18.48	19.70	20.10
	12H	18.48	19.69	18.91	20.07	20.50	18.18	19.39	18.61	19.77	20.20
4H	2H	15.52	16.94	15.92	17.28	17.66	15.43	16.85	15.83	17.20	17.57
	3H	17.65	18.85	18.06	19.24	19.64	17.51	18.70	17.92	19.10	19.50
	4H	18.55	19.63	18.98	20.04	20.47	18.36	19.44	18.79	19.85	20.28
	6H	19.28	20.22	19.73	20.66	21.12	19.03	19.98	19.49	20.42	20.87
	8H	19.54	20.43	20.00	20.87	21.33	19.27	20.16	19.73	20.60	21.06
	12H	19.75	20.55	20.23	21.02	21.49	19.45	20.25	19.93	20.73	21.20
8H	4H	18.88	19.77	19.34	20.21	20.68	18.72	19.60	19.17	20.05	20.51
	6H	19.75	20.49	20.24	20.98	21.45	19.53	20.27	20.02	20.75	21.23
	8H	20.10	20.77	20.61	21.27	21.76	19.85	20.51	20.35	21.02	21.50
	12H	20.40	20.99	20.90	21.48	22.04	20.11	20.70	20.62	21.19	21.75
12H	4H	18.92	19.72	19.40	20.20	20.67	18.77	19.56	19.24	20.04	20.51
	6H	19.82	20.48	20.33	20.99	21.47	19.61	20.27	20.11	20.78	21.26
	8H	20.24	20.82	20.74	21.31	21.87	19.99	20.58	20.50	21.07	21.63

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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: SP1-2510-566-5-R2

Test Date: 10/14/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-3000K

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

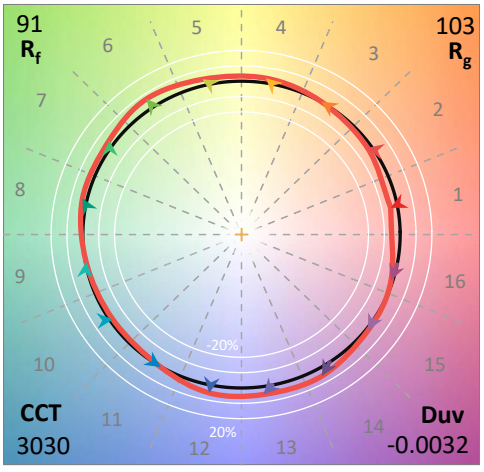
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-5-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-3000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-5-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 8 V

Spectral Parameters

CCT (K):	3030	CRI (Ra):	94.5		
CIE u':	0.2507	R1:	97.4	R9:	65.0
CIE v':	0.5162	R2:	97.5	R10:	92.8
Duv:	-0.0032	R3:	96.3	R11:	94.3
CIE x:	0.4302	R4:	95.0	R12:	89.2
CIE y:	0.3938	R5:	97.0	R13:	97.4
CIE z:	0.1760	R6:	96.2	R14:	96.7
Peak Wavelength (nm):	630	R7:	91.9	R15:	93.2
Dominant Wavelength (nm):	583	R8:	85.1		
Purity:	47.31087				
Rf:	90.9				
Rg:	103.1				



Test Conditions

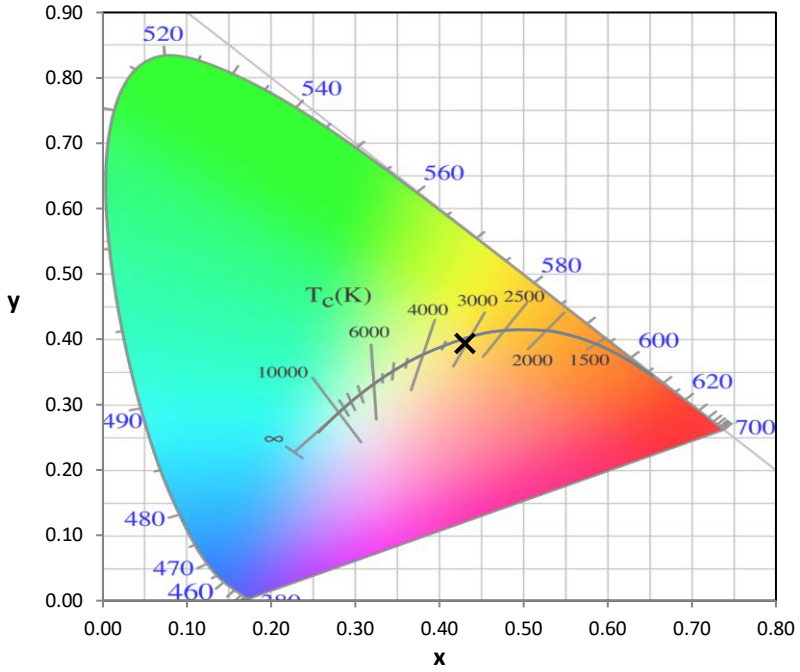
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2510-566-5-R2

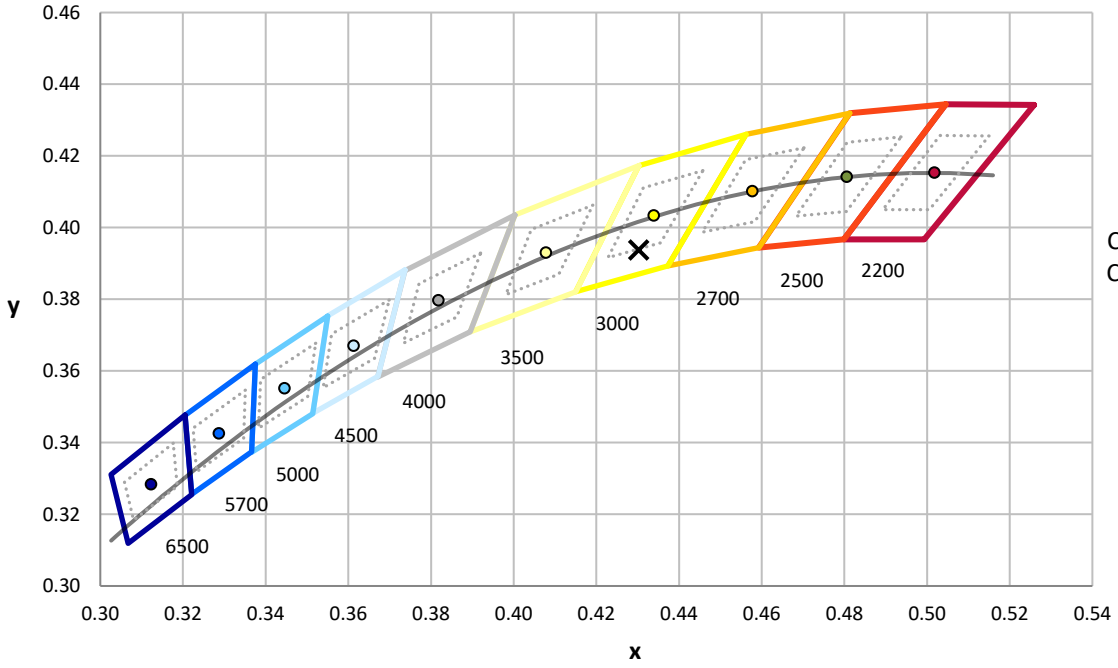
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2510-566-5-R2

CIE 1931 Chromaticity Diagram



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

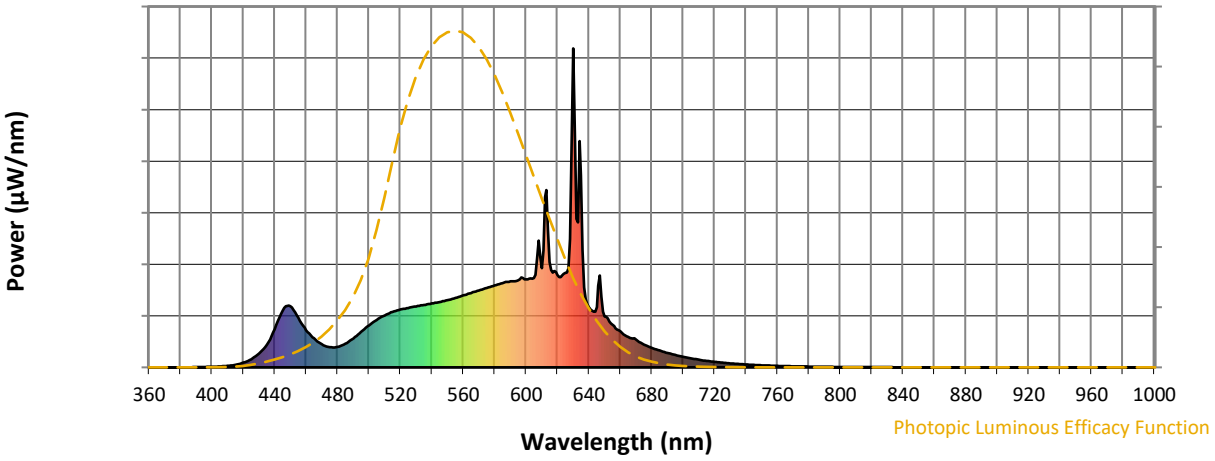


CCT = 3030K
CIE x = 0.4302
CIE y = 0.3938
Duv = -0.0032

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2510-566-5-R2

Photopic Flux vs. Wavelength

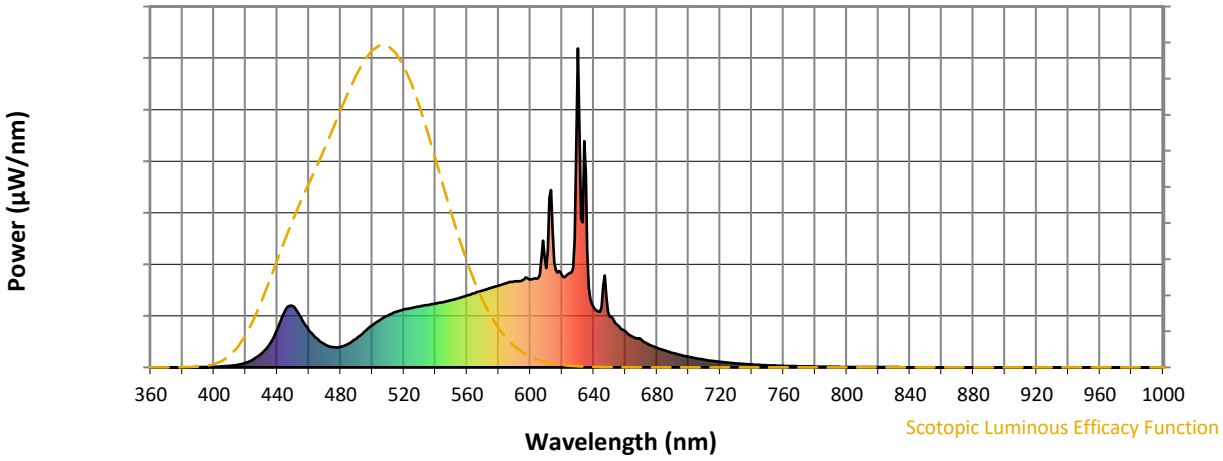


Photopic Lumens: NR

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	91	NR	620	289	NR	750	7	NR	880	0	NR
365	0	NR	495	111	NR	625	296	NR	755	6	NR	885	0	NR
370	0	NR	500	132	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	149	NR	635	601	NR	765	4	NR	895	0	NR
380	0	NR	510	163	NR	640	189	NR	770	4	NR	900	0	NR
385	0	NR	515	174	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	181	NR	650	159	NR	780	3	NR	910	0	NR
395	1	NR	525	186	NR	655	133	NR	785	2	NR	915	0	NR
400	2	NR	530	191	NR	660	113	NR	790	2	NR	920	0	NR
405	3	NR	535	195	NR	665	95	NR	795	2	NR	925	0	NR
410	5	NR	540	200	NR	670	88	NR	800	1	NR	930	0	NR
415	8	NR	545	205	NR	675	72	NR	805	1	NR	935	0	NR
420	15	NR	550	210	NR	680	62	NR	810	1	NR	940	0	NR
425	26	NR	555	218	NR	685	53	NR	815	1	NR	945	0	NR
430	43	NR	560	226	NR	690	45	NR	820	1	NR	950	0	NR
435	72	NR	565	233	NR	695	39	NR	825	1	NR	955	0	NR
440	120	NR	570	241	NR	700	33	NR	830	1	NR	960	0	NR
445	178	NR	575	249	NR	705	28	NR	835	1	NR	965	0	NR
450	191	NR	580	257	NR	710	24	NR	840	0	NR	970	0	NR
455	156	NR	585	264	NR	715	20	NR	845	0	NR	975	0	NR
460	117	NR	590	270	NR	720	17	NR	850	0	NR	980	0	NR
465	91	NR	595	273	NR	725	15	NR	855	0	NR	985	0	NR
470	72	NR	600	276	NR	730	13	NR	860	0	NR	990	0	NR
475	63	NR	605	280	NR	735	11	NR	865	0	NR	995	0	NR
480	64	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	74	NR	615	331	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-5-R2

Scotopic Flux vs. Wavelength

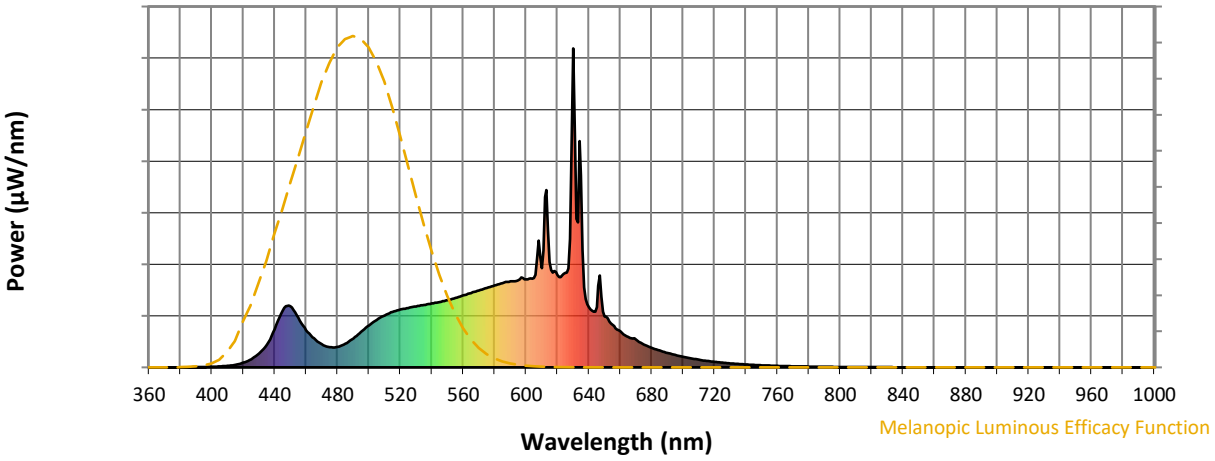


Scotopic Lumens: NR **S/P: 1.45**

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	91	NR	620	289	NR	750	7	NR	880	0	NR
365	0	NR	495	111	NR	625	296	NR	755	6	NR	885	0	NR
370	0	NR	500	132	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	149	NR	635	601	NR	765	4	NR	895	0	NR
380	0	NR	510	163	NR	640	189	NR	770	4	NR	900	0	NR
385	0	NR	515	174	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	181	NR	650	159	NR	780	3	NR	910	0	NR
395	1	NR	525	186	NR	655	133	NR	785	2	NR	915	0	NR
400	2	NR	530	191	NR	660	113	NR	790	2	NR	920	0	NR
405	3	NR	535	195	NR	665	95	NR	795	2	NR	925	0	NR
410	5	NR	540	200	NR	670	88	NR	800	1	NR	930	0	NR
415	8	NR	545	205	NR	675	72	NR	805	1	NR	935	0	NR
420	15	NR	550	210	NR	680	62	NR	810	1	NR	940	0	NR
425	26	NR	555	218	NR	685	53	NR	815	1	NR	945	0	NR
430	43	NR	560	226	NR	690	45	NR	820	1	NR	950	0	NR
435	72	NR	565	233	NR	695	39	NR	825	1	NR	955	0	NR
440	120	NR	570	241	NR	700	33	NR	830	1	NR	960	0	NR
445	178	NR	575	249	NR	705	28	NR	835	1	NR	965	0	NR
450	191	NR	580	257	NR	710	24	NR	840	0	NR	970	0	NR
455	156	NR	585	264	NR	715	20	NR	845	0	NR	975	0	NR
460	117	NR	590	270	NR	720	17	NR	850	0	NR	980	0	NR
465	91	NR	595	273	NR	725	15	NR	855	0	NR	985	0	NR
470	72	NR	600	276	NR	730	13	NR	860	0	NR	990	0	NR
475	63	NR	605	280	NR	735	11	NR	865	0	NR	995	0	NR
480	64	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	74	NR	615	331	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.84**

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	91	NR	620	289	NR	750	7	NR	880	0	NR
365	0	NR	495	111	NR	625	296	NR	755	6	NR	885	0	NR
370	0	NR	500	132	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	149	NR	635	601	NR	765	4	NR	895	0	NR
380	0	NR	510	163	NR	640	189	NR	770	4	NR	900	0	NR
385	0	NR	515	174	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	181	NR	650	159	NR	780	3	NR	910	0	NR
395	1	NR	525	186	NR	655	133	NR	785	2	NR	915	0	NR
400	2	NR	530	191	NR	660	113	NR	790	2	NR	920	0	NR
405	3	NR	535	195	NR	665	95	NR	795	2	NR	925	0	NR
410	5	NR	540	200	NR	670	88	NR	800	1	NR	930	0	NR
415	8	NR	545	205	NR	675	72	NR	805	1	NR	935	0	NR
420	15	NR	550	210	NR	680	62	NR	810	1	NR	940	0	NR
425	26	NR	555	218	NR	685	53	NR	815	1	NR	945	0	NR
430	43	NR	560	226	NR	690	45	NR	820	1	NR	950	0	NR
435	72	NR	565	233	NR	695	39	NR	825	1	NR	955	0	NR
440	120	NR	570	241	NR	700	33	NR	830	1	NR	960	0	NR
445	178	NR	575	249	NR	705	28	NR	835	1	NR	965	0	NR
450	191	NR	580	257	NR	710	24	NR	840	0	NR	970	0	NR
455	156	NR	585	264	NR	715	20	NR	845	0	NR	975	0	NR
460	117	NR	590	270	NR	720	17	NR	850	0	NR	980	0	NR
465	91	NR	595	273	NR	725	15	NR	855	0	NR	985	0	NR
470	72	NR	600	276	NR	730	13	NR	860	0	NR	990	0	NR
475	63	NR	605	280	NR	735	11	NR	865	0	NR	995	0	NR
480	64	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	74	NR	615	331	NR	745	8	NR	875	0	NR			

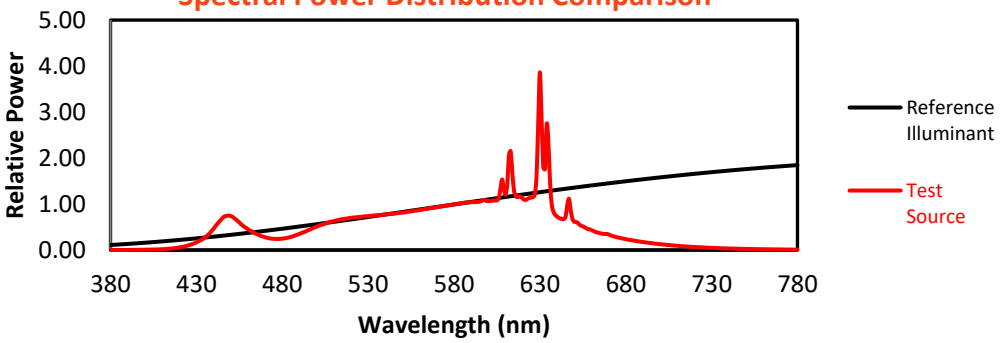
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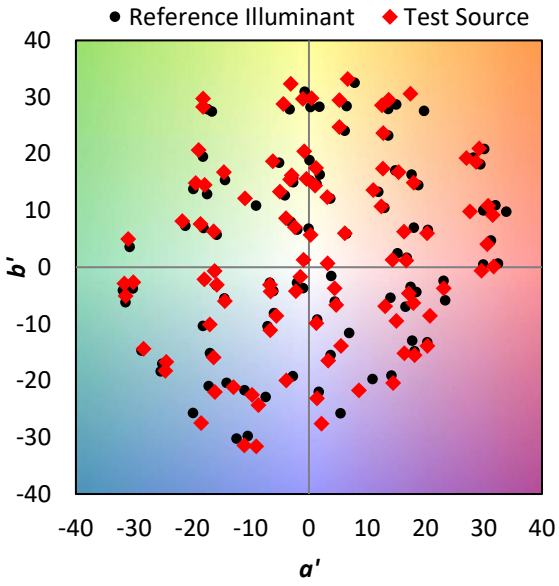
Summary

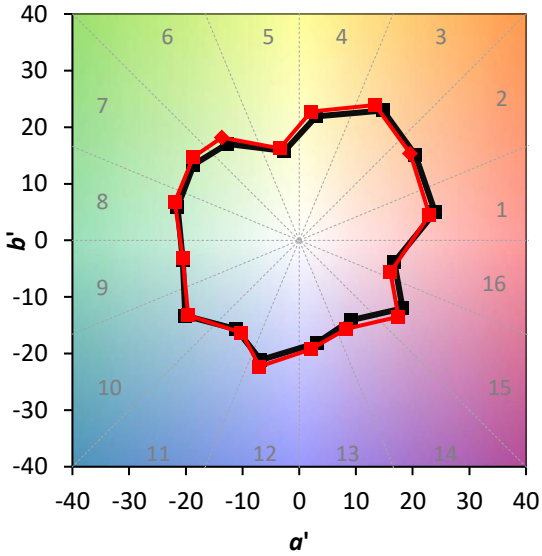
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R_g = 103.1
CIE R_a = 94.5
R_9 = 65.0

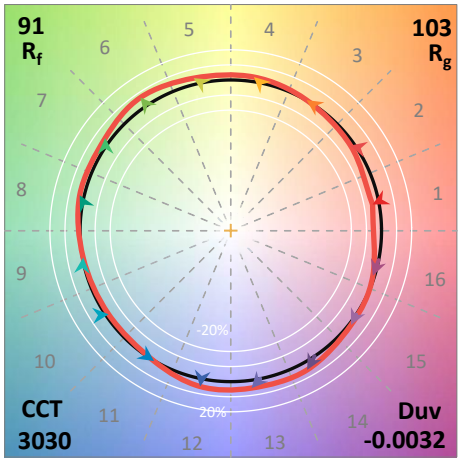
Spectral Power Distribution Comparison

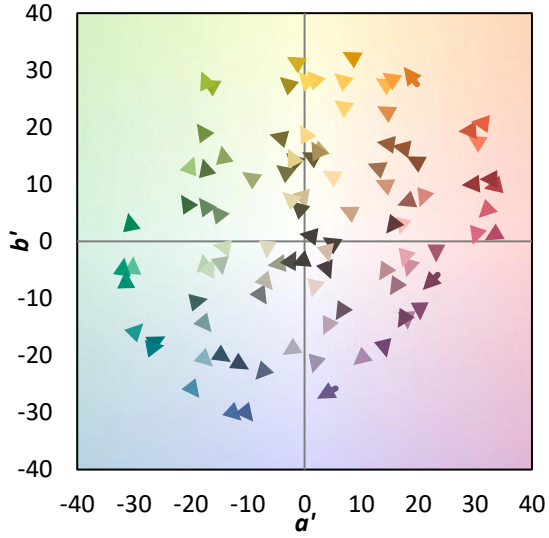


Color Vector Graphics







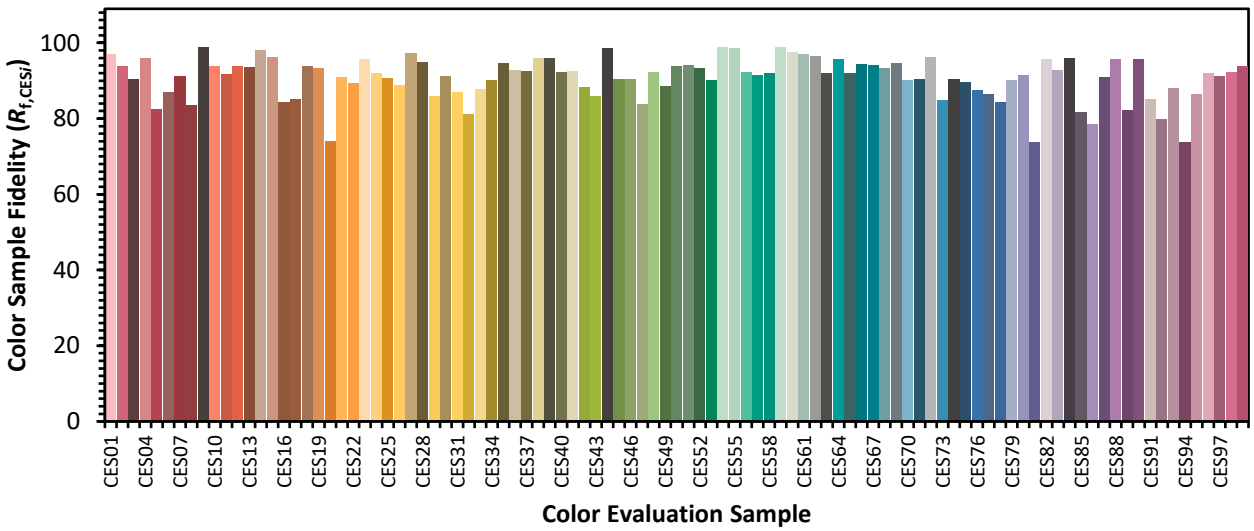


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Individual Sample Fidelity Index ($R_{f,i}$)

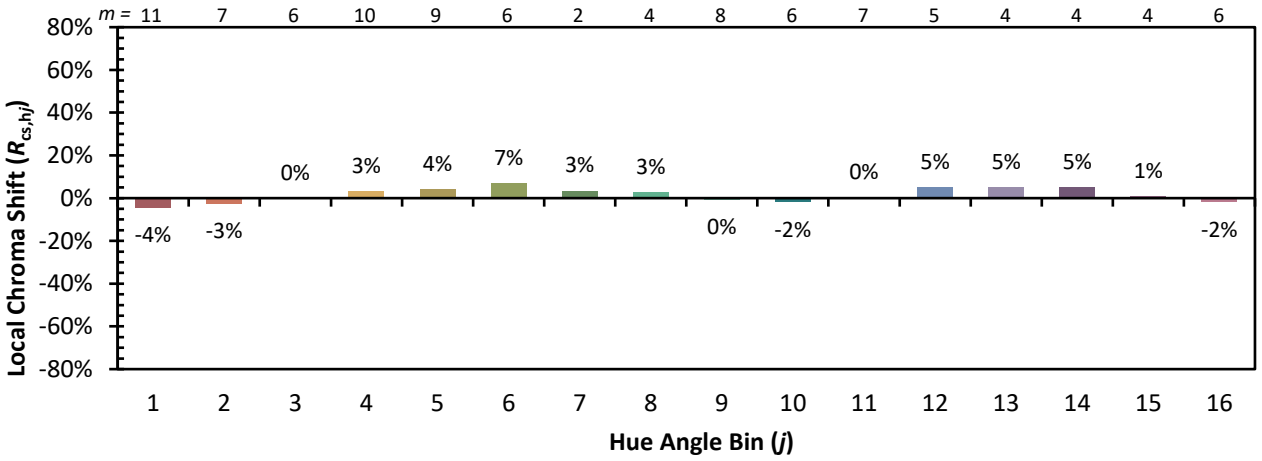
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CES02 = 63	CES27 = 97	CES52 = 93	CES77 = 86
CES03 = 32	CES28 = 95	CES53 = 90	CES78 = 84
CES04 = 70	CES29 = 86	CES54 = 99	CES79 = 90
CES05 = 51	CES30 = 91	CES55 = 99	CES80 = 91
CES06 = 51	CES31 = 87	CES56 = 92	CES81 = 74
CES07 = 44	CES32 = 81	CES57 = 91	CES82 = 96
CES08 = 42	CES33 = 88	CES58 = 92	CES83 = 93
CES09 = 29	CES34 = 90	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 95	CES60 = 98	CES85 = 82
CES11 = 59	CES36 = 93	CES61 = 97	CES86 = 79
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 91
CES13 = 44	CES38 = 96	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 96	CES64 = 96	CES89 = 82
CES15 = 72	CES40 = 92	CES65 = 92	CES90 = 96
CES16 = 48	CES41 = 93	CES66 = 94	CES91 = 85
CES17 = 50	CES42 = 88	CES67 = 94	CES92 = 80
CES18 = 57	CES43 = 86	CES68 = 93	CES93 = 88
CES19 = 72	CES44 = 99	CES69 = 95	CES94 = 74
CES20 = 67	CES45 = 90	CES70 = 90	CES95 = 86
CES21 = 86	CES46 = 90	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 84	CES72 = 96	CES97 = 91
CES23 = 92	CES48 = 92	CES73 = 85	CES98 = 92
CES24 = 90	CES49 = 89	CES74 = 90	CES99 = 94
CES25 = 72	CES50 = 94	CES75 = 90	

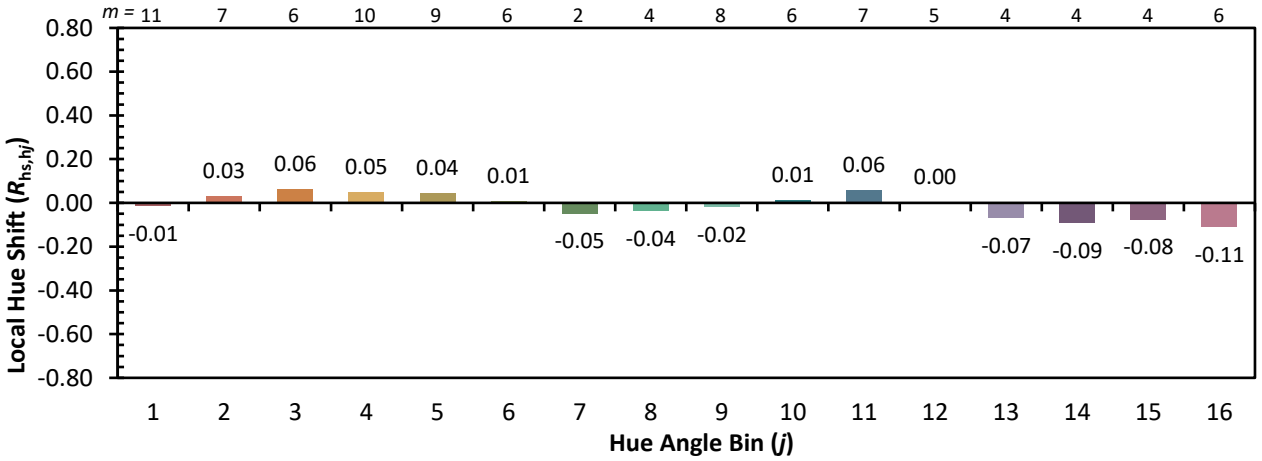


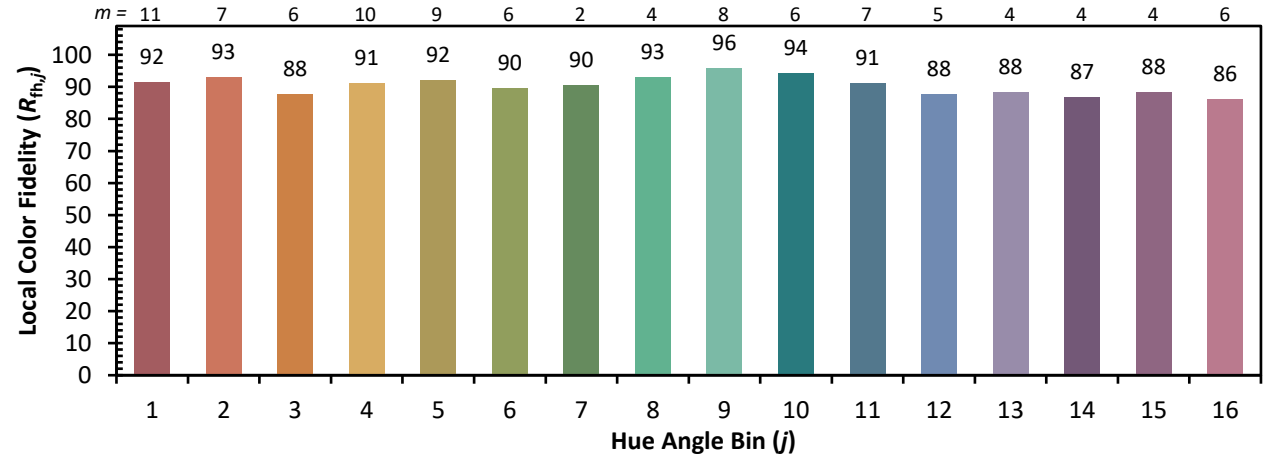
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Color Rendition by Hue-Angle Bin



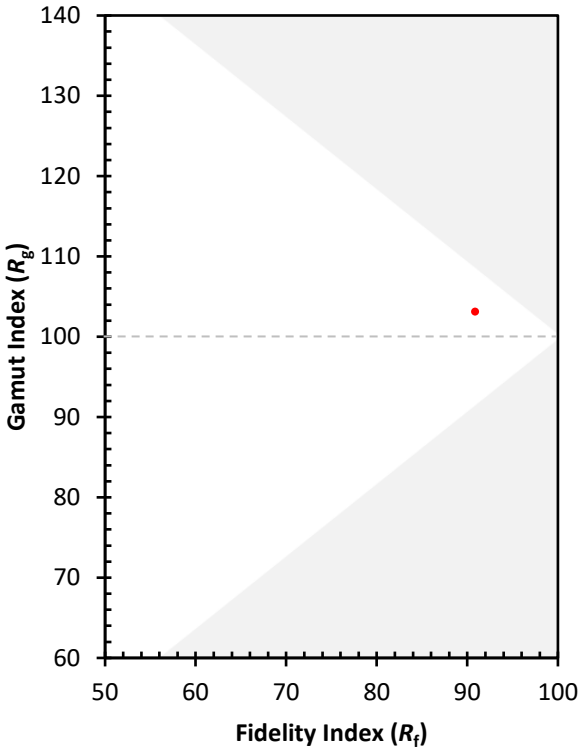


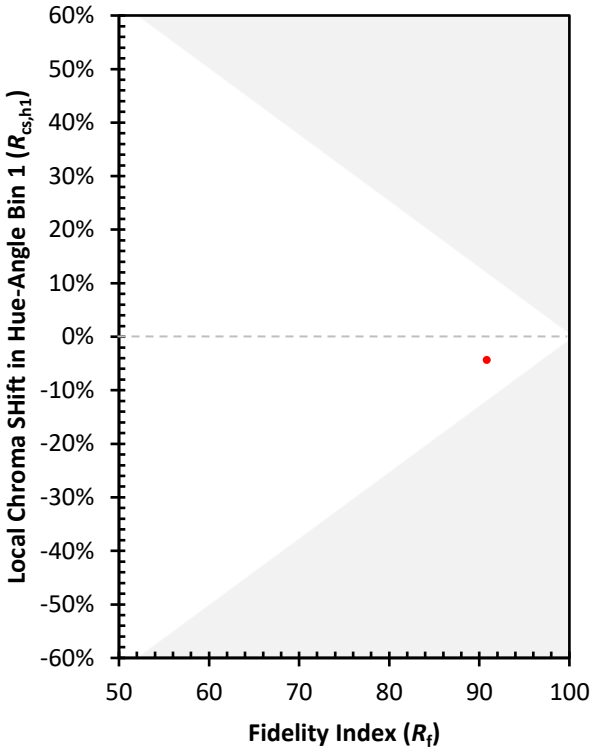


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Measure Comparisons





(END OF REPORT)