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: P1527771

Luminaire Tested: 24CGTX-45-B2750-W2A-3500K

Issue Date: 8/26/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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Scaled Data Report

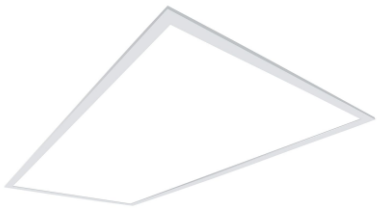
Test Information

Test Method:	LM-79-2019
Report Number:	P1527771
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-13)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-45-B2750-W2A-3500K
Description:	2X4 4500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 3500K CCT WITH FROSTED SMOOTH L
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4471.9 lumens
Efficiency:	N/A
Efficacy:	113.8 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):	39.3
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

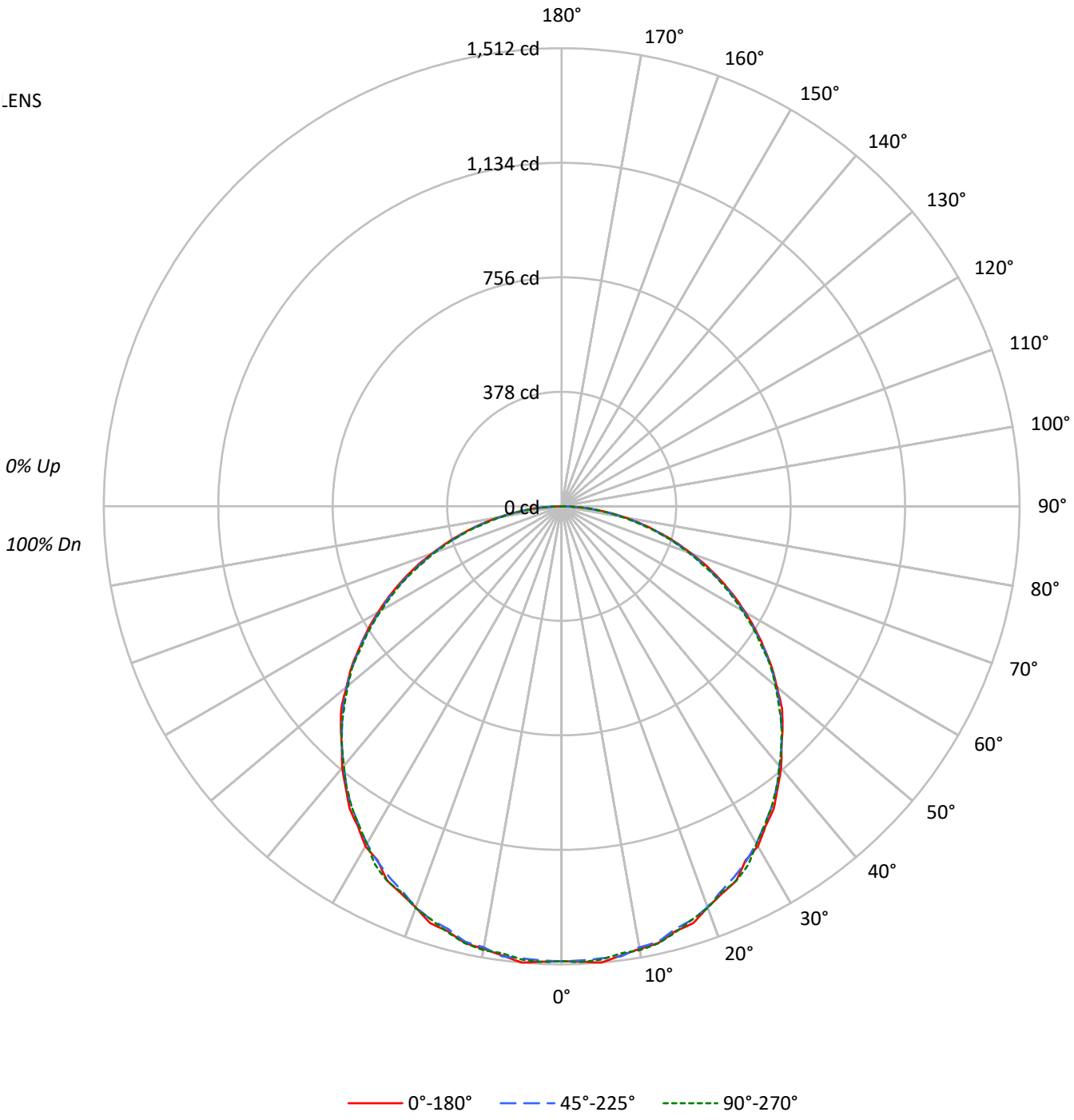


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Scaled Data Report

TEST NUMBER: P1527771
CATALOG NUMBER: 24CGTX-45-B2750-W2A-3500K

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	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	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	39	51	44	39	50	44	39	37
7	64	50	42	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	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2020	2020	2020
5°	2042	2023	2028
10°	2027	2020	2032
15°	2023	2013	2027
20°	2017	2016	2020
25°	2024	2003	2025
30°	2013	1997	1999
35°	2004	1987	1987
40°	1980	1966	1966
45°	1962	1951	1955
50°	1941	1937	1928
55°	1915	1910	1891
60°	1884	1868	1852
65°	1850	1825	1815
70°	1794	1779	1751
75°	1726	1699	1684
80°	1650	1603	1571
85°	1511	1448	1448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 47.5°
Luminance: 1965 cd/sqm

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TEST NUMBER: P1527771
CATALOG NUMBER: 24CGTX-45-B2750-W2A-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	3.2
10°-20°	409.9	9.2
20°-30°	623.9	14.0
30°-40°	757.1	16.9
40°-50°	792.3	17.7
50°-60°	726.0	16.2
60°-70°	567.7	12.7
70°-80°	345.6	7.7
80°-90°	106.8	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°	1176.3	26.3
0°-40°	1933.4	43.2
0°-60°	3451.8	77.2
0°-90°	4471.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4471.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1512	1498	1498	1496	1502	143
15°	1452	1447	1445	1450	1455	411
25°	1363	1356	1349	1353	1364	625
35°	1220	1208	1210	1206	1210	760
45°	1031	1026	1025	1029	1027	796
55°	816	813	814	806	806	731
65°	581	578	573	570	570	575
75°	332	332	327	323	324	352
85°	98	97	94	92	94	110
90°	0	0	0	0	0	

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TEST NUMBER: P1527771
CATALOG NUMBER: 24CGTX-45-B2750-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1501.5*	1501.5	1501.5	1501.5	1501.5
2.5°	*1504.5*	1508.6	1500.5	1498.5	1505.5
5°	*1511.6*	*1497.5*	*1497.5*	*1495.5*	*1501.5*
7.5°	*1495.5*	1492.4	1498.5	1490.4	1488.4
10°	*1483.3*	1473.3	1478.3	1473.3	1487.4
12.5°	*1476.3*	1478.3	1472.2	1472.2	1477.3
15°	*1452.1*	1447.0	1445.0	1450.0	1455.1
17.5°	*1443.0*	1429.9	1430.9	1435.9	1430.9
20°	*1408.7*	1408.7	1407.7	1405.6	1410.7
22.5°	*1383.4*	1380.4	1375.4	1380.4	1379.4
25°	*1363.3*	1356.2	1349.1	1353.2	1364.3
27.5°	*1316.8*	1323.9	1319.9	1316.8	1334.0
30°	*1295.7*	1292.6	1285.6	1288.6	1286.6
32.5°	*1252.3*	1252.3	1246.2	1253.3	1247.2
35°	*1220.0*	1207.9	1209.9	1205.8	1209.9
37.5°	*1171.5*	1170.5	1166.5	1168.5	1166.5
40°	*1127.1*	1121.1	1119.1	1120.1	1119.1
42.5°	*1074.7*	1076.7	1074.7	1075.7	1073.7
45°	*1031.3*	1026.2	1025.2	1029.3	1027.2
47.5°	*986.9*	977.8	977.8	974.8	972.7
50°	*927.3*	928.4	925.3	920.3	921.3
52.5°	*875.9*	871.8	870.8	866.8	870.8
55°	*816.3*	813.3	814.3	806.3	806.3
57.5°	*759.8*	757.8	752.8	748.7	750.8
60°	*700.3*	701.3	694.2	693.2	688.2
62.5°	*641.8*	638.7	635.7	630.7	629.7
65°	*581.2*	578.2	573.2	570.1	570.1
67.5°	*520.7*	513.6	510.6	507.6	504.5
70°	*456.1*	453.1	452.1	448.0	445.0
72.5°	*394.5*	391.5	385.5	384.5	385.5
75°	*332.0*	332.0	326.9	322.9	323.9
77.5°	*272.5*	270.4	267.4	261.4	258.3
80°	*212.9*	209.9	206.9	202.8	202.8
82.5°	*153.4*	150.4	149.3	146.3	147.3
85°	*97.9*	96.9	93.8	91.8	93.8
87.5°	*46.4*	45.4	45.4	45.4	45.4
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 24CGTX-45-B2750-W2A-3500K

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	14.46	16.12	14.82	16.44	16.75	14.37	16.04	14.74	16.35	16.67
	3H	16.40	17.91	16.77	18.23	18.59	16.29	17.80	16.66	18.12	18.48
	4H	17.16	18.59	17.56	18.93	19.31	17.04	18.46	17.44	18.81	19.19
	6H	17.77	19.09	18.18	19.46	19.85	17.61	18.94	18.02	19.30	19.69
	8H	17.98	19.25	18.41	19.63	20.03	17.82	19.08	18.24	19.47	19.87
	12H	18.13	19.35	18.56	19.73	20.16	17.96	19.17	18.39	19.56	19.98
4H	2H	15.12	16.54	15.52	16.89	17.26	15.05	16.48	15.45	16.82	17.20
	3H	17.28	18.48	17.69	18.88	19.28	17.20	18.39	17.60	18.79	19.19
	4H	18.19	19.28	18.62	19.69	20.13	18.08	19.17	18.51	19.58	20.02
	6H	18.94	19.89	19.39	20.33	20.79	18.79	19.74	19.24	20.18	20.64
	8H	19.21	20.10	19.67	20.54	21.01	19.05	19.94	19.51	20.38	20.85
	12H	19.41	20.22	19.89	20.69	21.16	19.25	20.05	19.73	20.53	20.99
8H	4H	18.54	19.44	19.00	19.88	20.34	18.45	19.34	18.91	19.78	20.25
	6H	19.43	20.18	19.92	20.66	21.14	19.29	20.04	19.79	20.53	21.00
	8H	19.78	20.45	20.29	20.96	21.44	19.64	20.30	20.14	20.81	21.29
	12H	20.08	20.67	20.58	21.16	21.72	19.92	20.51	20.42	21.00	21.56
12H	4H	18.59	19.39	19.07	19.87	20.34	18.50	19.30	18.98	19.78	20.24
	6H	19.50	20.17	20.01	20.68	21.16	19.37	20.04	19.88	20.55	21.03
	8H	19.92	20.51	20.42	21.00	21.56	19.78	20.37	20.28	20.86	21.42

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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: SP1-2505-441-12-R2

Test Date: 06/12/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-3500K

Data in this report applies to families of products including 24CGTX

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

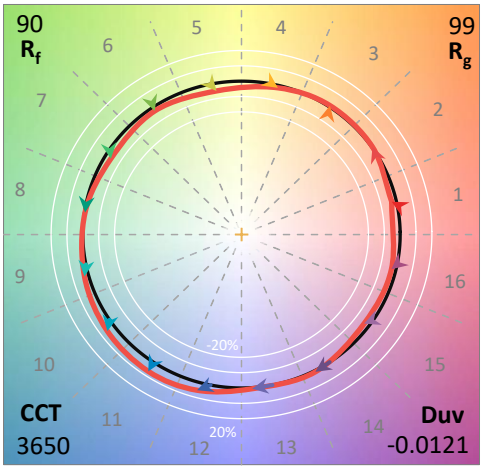
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-12-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:	**24CGTX-55-B2750-W2A-3500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-12-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 5.5V

Spectral Parameters

CCT (K):	3650
CIE u':	0.2383
CIE v':	0.4926
Duv:	-0.0121
CIE x:	0.3865
CIE y:	0.3551
CIE z:	0.2584
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	589
Purity:	22.5096
Rf:	90.1
Rg:	98.9

CRI (Ra):	89.7
R1:	92.7
R2:	89.2
R3:	88.9
R4:	95.4
R5:	91.4
R6:	82.4
R7:	87.5
R8:	90.4
R9:	89.7
R10:	79.6
R11:	95.6
R12:	73.0
R13:	90.9
R14:	95.5
R15:	93.8



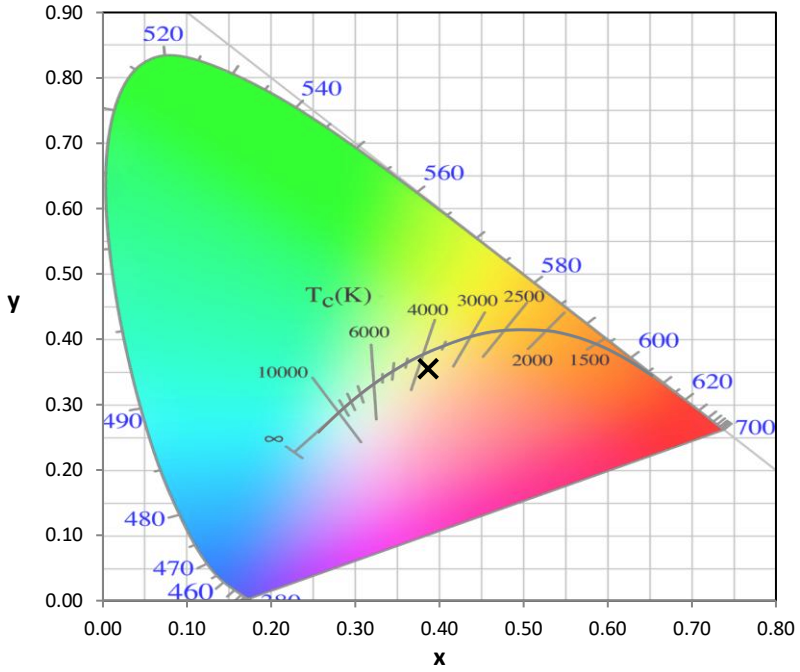
Test Conditions

Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.0

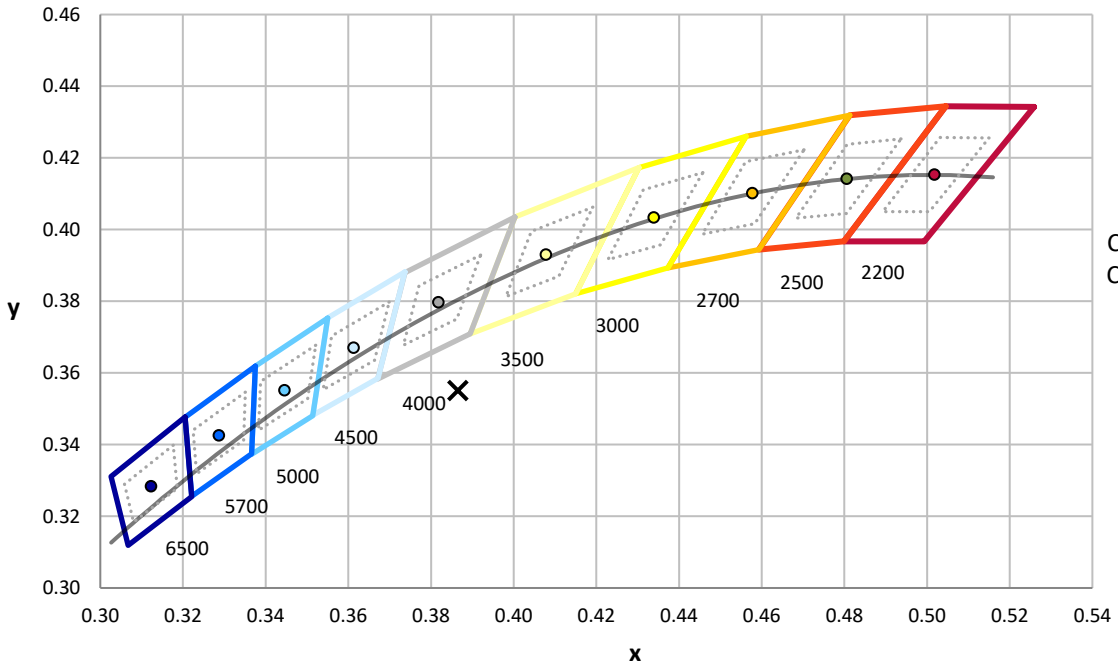
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2505-441-12-R2

CIE 1931 Chromaticity Diagram



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

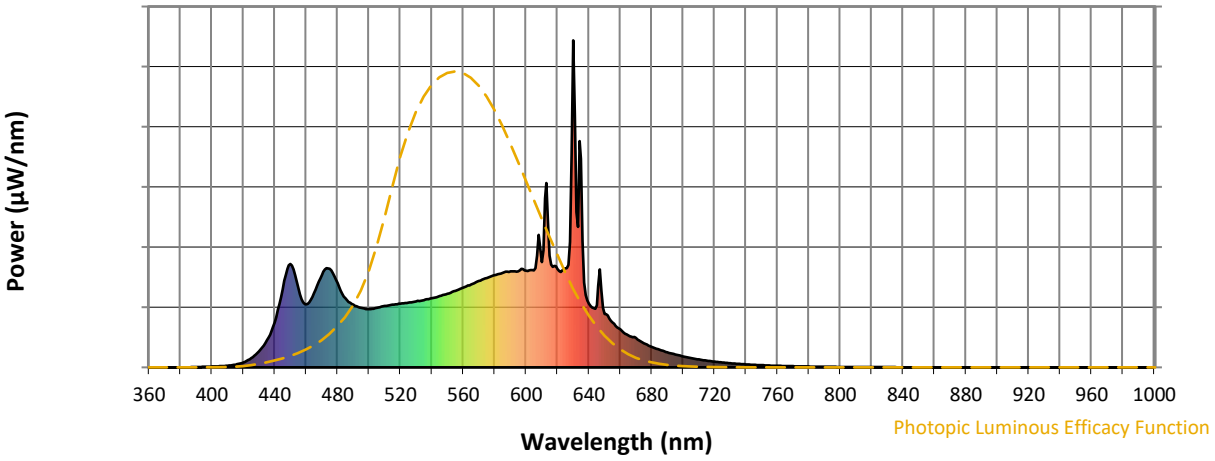


CCT = 3650K
CIE x = 0.3865
CIE y = 0.3551
Duv = -0.0121

Point lies outside the range

REPORT NUMBER: SP1-2505-441-12-R2

Photopic Flux vs. Wavelength

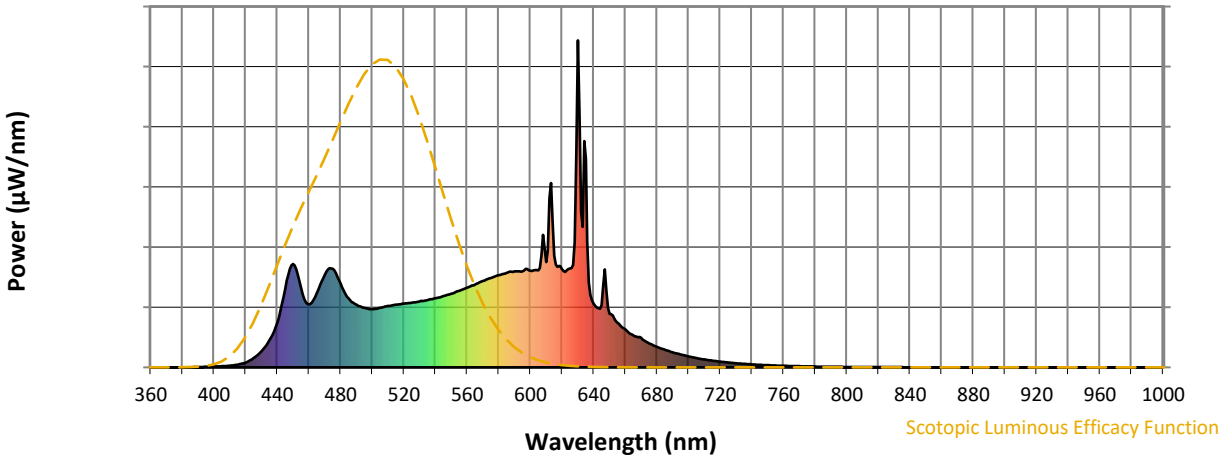


Photopic Lumens: NR

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	191	NR	620	301	NR	750	7	NR	880	0	NR
365	0	NR	495	182	NR	625	303	NR	755	6	NR	885	0	NR
370	0	NR	500	178	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	182	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	188	NR	640	195	NR	770	4	NR	900	0	NR
385	0	NR	515	191	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	195	NR	650	163	NR	780	3	NR	910	0	NR
395	2	NR	525	198	NR	655	137	NR	785	2	NR	915	0	NR
400	3	NR	530	202	NR	660	117	NR	790	2	NR	920	0	NR
405	3	NR	535	206	NR	665	98	NR	795	2	NR	925	0	NR
410	5	NR	540	212	NR	670	90	NR	800	1	NR	930	0	NR
415	8	NR	545	218	NR	675	74	NR	805	1	NR	935	0	NR
420	15	NR	550	225	NR	680	63	NR	810	1	NR	940	0	NR
425	28	NR	555	234	NR	685	54	NR	815	1	NR	945	0	NR
430	49	NR	560	244	NR	690	46	NR	820	1	NR	950	0	NR
435	83	NR	565	254	NR	695	39	NR	825	1	NR	955	0	NR
440	137	NR	570	264	NR	700	33	NR	830	1	NR	960	0	NR
445	238	NR	575	273	NR	705	28	NR	835	1	NR	965	0	NR
450	316	NR	580	282	NR	710	24	NR	840	0	NR	970	0	NR
455	243	NR	585	289	NR	715	20	NR	845	0	NR	975	0	NR
460	193	NR	590	293	NR	720	18	NR	850	0	NR	980	0	NR
465	227	NR	595	294	NR	725	15	NR	855	0	NR	985	0	NR
470	282	NR	600	296	NR	730	13	NR	860	0	NR	990	0	NR
475	302	NR	605	297	NR	735	11	NR	865	0	NR	995	0	NR
480	258	NR	610	322	NR	740	9	NR	870	0	NR	1000	0	NR
485	211	NR	615	341	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-12-R2

Scotopic Flux vs. Wavelength

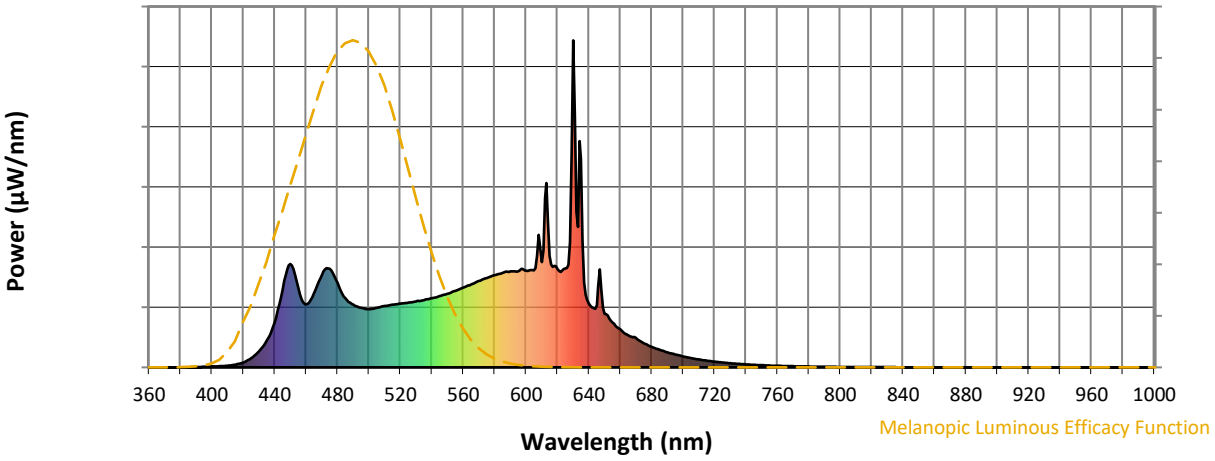


Scotopic Lumens: NR **S/P: 1.88**

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	191	NR	620	301	NR	750	7	NR	880	0	NR
365	0	NR	495	182	NR	625	303	NR	755	6	NR	885	0	NR
370	0	NR	500	178	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	182	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	188	NR	640	195	NR	770	4	NR	900	0	NR
385	0	NR	515	191	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	195	NR	650	163	NR	780	3	NR	910	0	NR
395	2	NR	525	198	NR	655	137	NR	785	2	NR	915	0	NR
400	3	NR	530	202	NR	660	117	NR	790	2	NR	920	0	NR
405	3	NR	535	206	NR	665	98	NR	795	2	NR	925	0	NR
410	5	NR	540	212	NR	670	90	NR	800	1	NR	930	0	NR
415	8	NR	545	218	NR	675	74	NR	805	1	NR	935	0	NR
420	15	NR	550	225	NR	680	63	NR	810	1	NR	940	0	NR
425	28	NR	555	234	NR	685	54	NR	815	1	NR	945	0	NR
430	49	NR	560	244	NR	690	46	NR	820	1	NR	950	0	NR
435	83	NR	565	254	NR	695	39	NR	825	1	NR	955	0	NR
440	137	NR	570	264	NR	700	33	NR	830	1	NR	960	0	NR
445	238	NR	575	273	NR	705	28	NR	835	1	NR	965	0	NR
450	316	NR	580	282	NR	710	24	NR	840	0	NR	970	0	NR
455	243	NR	585	289	NR	715	20	NR	845	0	NR	975	0	NR
460	193	NR	590	293	NR	720	18	NR	850	0	NR	980	0	NR
465	227	NR	595	294	NR	725	15	NR	855	0	NR	985	0	NR
470	282	NR	600	296	NR	730	13	NR	860	0	NR	990	0	NR
475	302	NR	605	297	NR	735	11	NR	865	0	NR	995	0	NR
480	258	NR	610	322	NR	740	9	NR	870	0	NR	1000	0	NR
485	211	NR	615	341	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.15**

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	191	NR	620	301	NR	750	7	NR	880	0	NR
365	0	NR	495	182	NR	625	303	NR	755	6	NR	885	0	NR
370	0	NR	500	178	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	182	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	188	NR	640	195	NR	770	4	NR	900	0	NR
385	0	NR	515	191	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	195	NR	650	163	NR	780	3	NR	910	0	NR
395	2	NR	525	198	NR	655	137	NR	785	2	NR	915	0	NR
400	3	NR	530	202	NR	660	117	NR	790	2	NR	920	0	NR
405	3	NR	535	206	NR	665	98	NR	795	2	NR	925	0	NR
410	5	NR	540	212	NR	670	90	NR	800	1	NR	930	0	NR
415	8	NR	545	218	NR	675	74	NR	805	1	NR	935	0	NR
420	15	NR	550	225	NR	680	63	NR	810	1	NR	940	0	NR
425	28	NR	555	234	NR	685	54	NR	815	1	NR	945	0	NR
430	49	NR	560	244	NR	690	46	NR	820	1	NR	950	0	NR
435	83	NR	565	254	NR	695	39	NR	825	1	NR	955	0	NR
440	137	NR	570	264	NR	700	33	NR	830	1	NR	960	0	NR
445	238	NR	575	273	NR	705	28	NR	835	1	NR	965	0	NR
450	316	NR	580	282	NR	710	24	NR	840	0	NR	970	0	NR
455	243	NR	585	289	NR	715	20	NR	845	0	NR	975	0	NR
460	193	NR	590	293	NR	720	18	NR	850	0	NR	980	0	NR
465	227	NR	595	294	NR	725	15	NR	855	0	NR	985	0	NR
470	282	NR	600	296	NR	730	13	NR	860	0	NR	990	0	NR
475	302	NR	605	297	NR	735	11	NR	865	0	NR	995	0	NR
480	258	NR	610	322	NR	740	9	NR	870	0	NR	1000	0	NR
485	211	NR	615	341	NR	745	8	NR	875	0	NR			

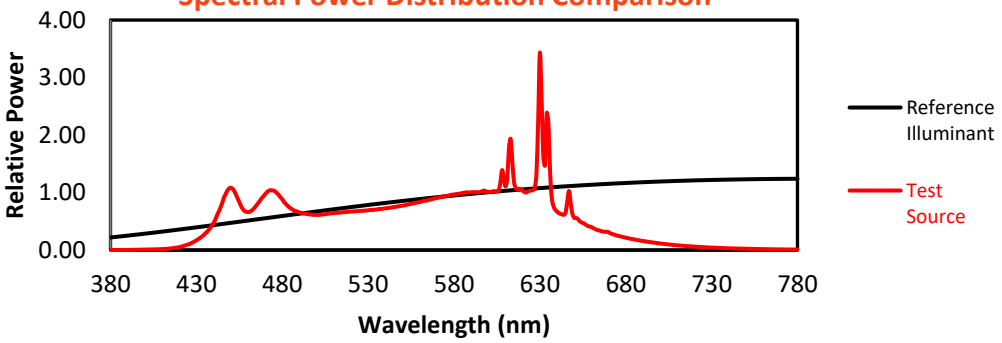
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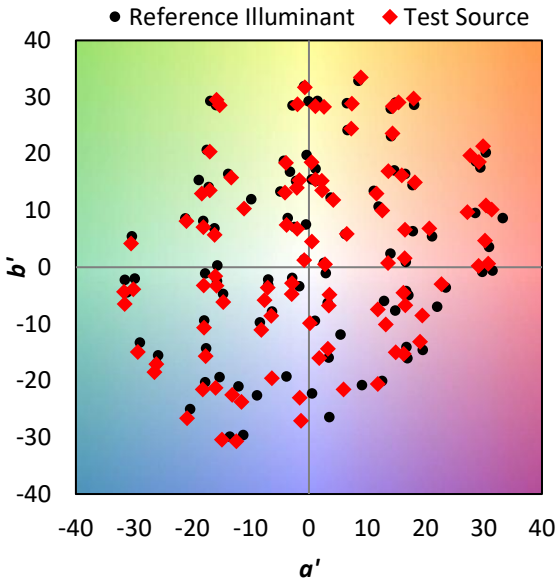
Summary

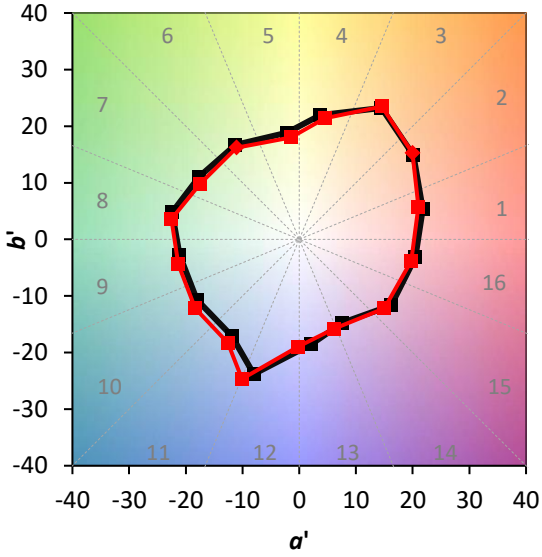
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R_g = 98.9
CIE R_a = 89.7
R_9 = 89.7

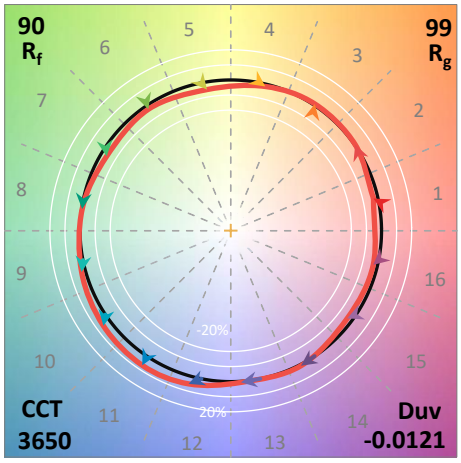
Spectral Power Distribution Comparison

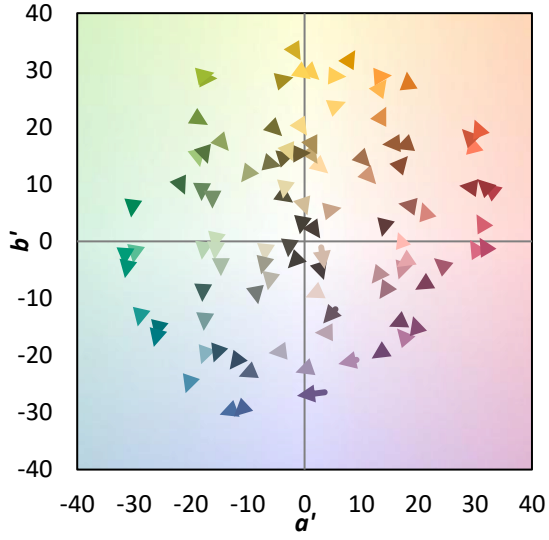


Color Vector Graphics







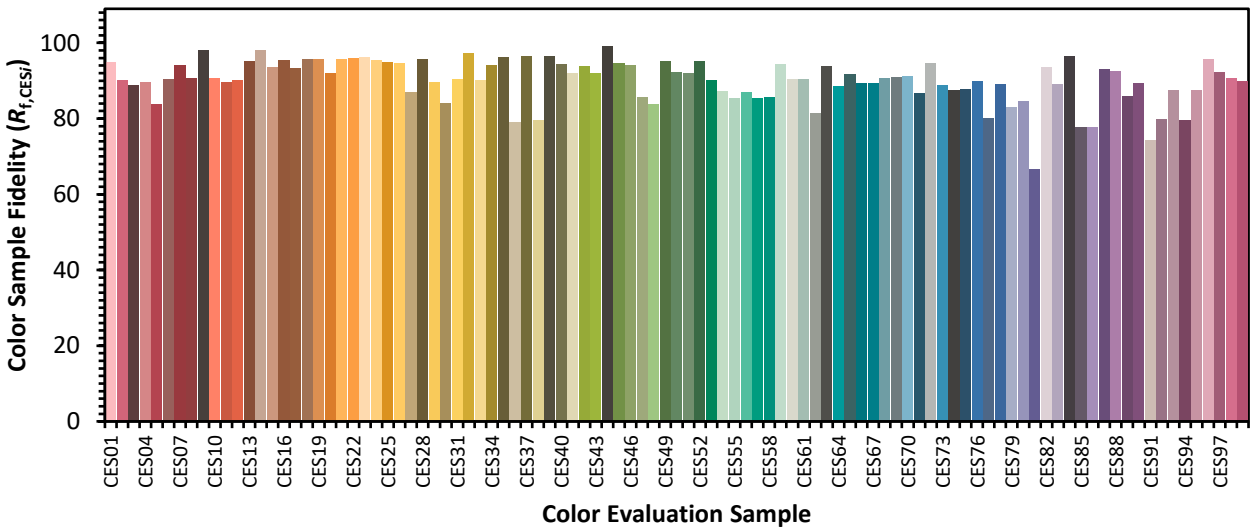


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Individual Sample Fidelity Index ($R_{f,i}$)

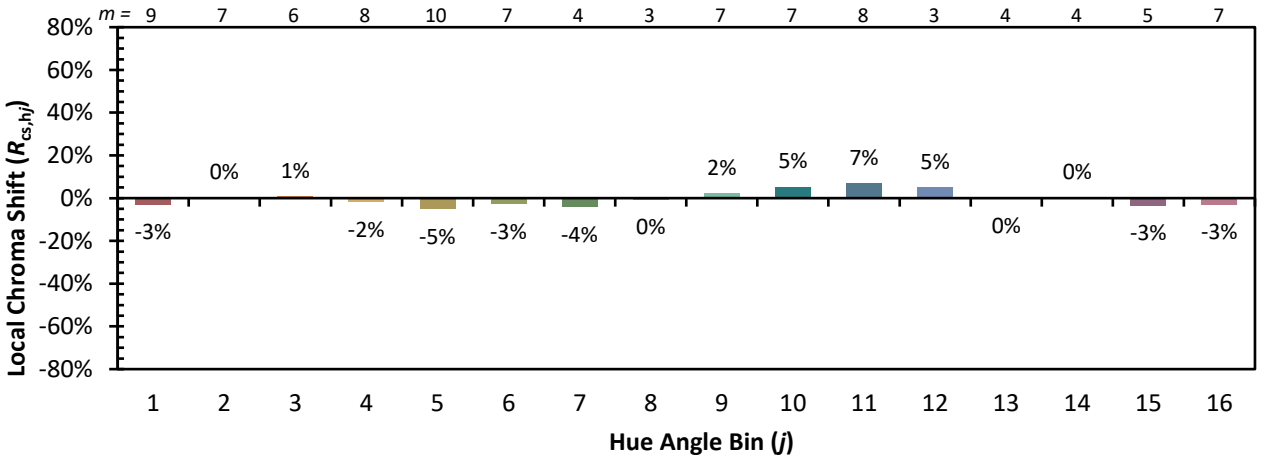
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CES02 = 63	CES27 = 87	CES52 = 95	CES77 = 80
CES03 = 32	CES28 = 96	CES53 = 90	CES78 = 89
CES04 = 70	CES29 = 90	CES54 = 87	CES79 = 83
CES05 = 50	CES30 = 84	CES55 = 85	CES80 = 85
CES06 = 51	CES31 = 90	CES56 = 87	CES81 = 67
CES07 = 43	CES32 = 97	CES57 = 85	CES82 = 94
CES08 = 42	CES33 = 90	CES58 = 86	CES83 = 89
CES09 = 29	CES34 = 94	CES59 = 94	CES84 = 97
CES10 = 75	CES35 = 96	CES60 = 90	CES85 = 78
CES11 = 58	CES36 = 79	CES61 = 91	CES86 = 78
CES12 = 64	CES37 = 97	CES62 = 81	CES87 = 93
CES13 = 44	CES38 = 80	CES63 = 94	CES88 = 92
CES14 = 74	CES39 = 96	CES64 = 89	CES89 = 86
CES15 = 72	CES40 = 94	CES65 = 92	CES90 = 89
CES16 = 48	CES41 = 92	CES66 = 89	CES91 = 74
CES17 = 49	CES42 = 94	CES67 = 89	CES92 = 80
CES18 = 56	CES43 = 92	CES68 = 91	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 80
CES20 = 67	CES45 = 95	CES70 = 91	CES95 = 87
CES21 = 86	CES46 = 94	CES71 = 87	CES96 = 96
CES22 = 78	CES47 = 86	CES72 = 95	CES97 = 92
CES23 = 91	CES48 = 84	CES73 = 89	CES98 = 91
CES24 = 90	CES49 = 95	CES74 = 87	CES99 = 90
CES25 = 71	CES50 = 92	CES75 = 88	

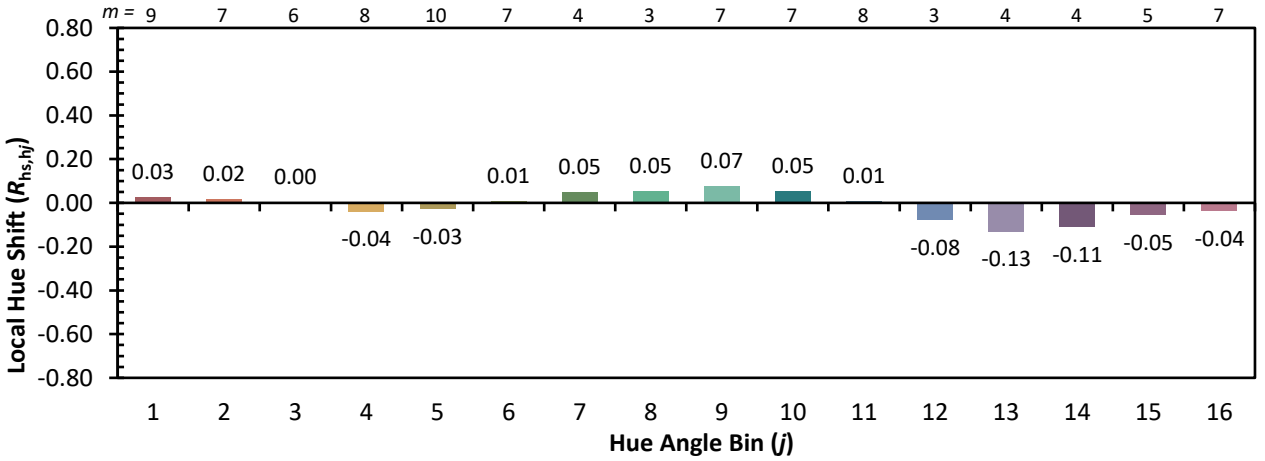


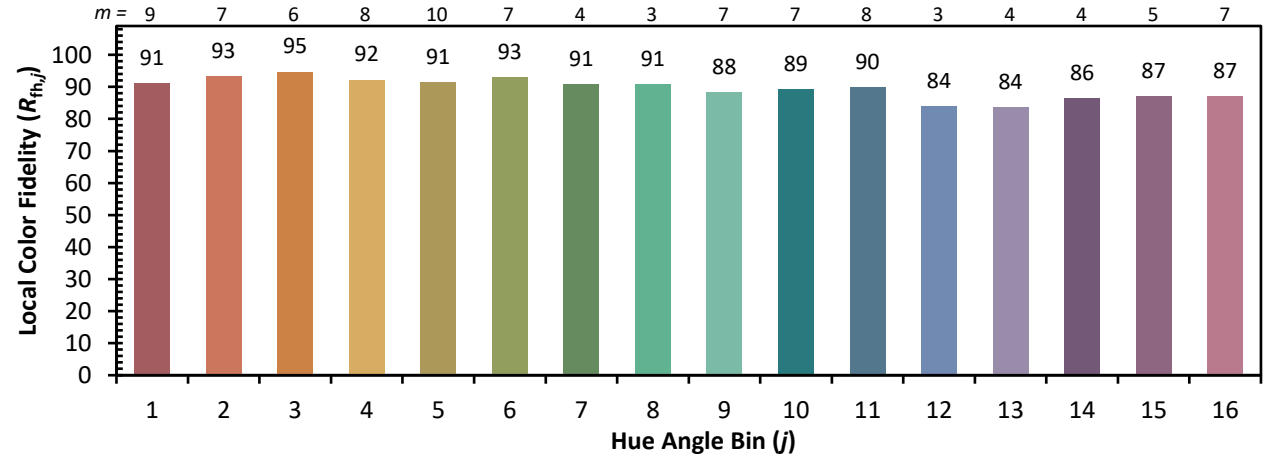
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Color Rendition by Hue-Angle Bin



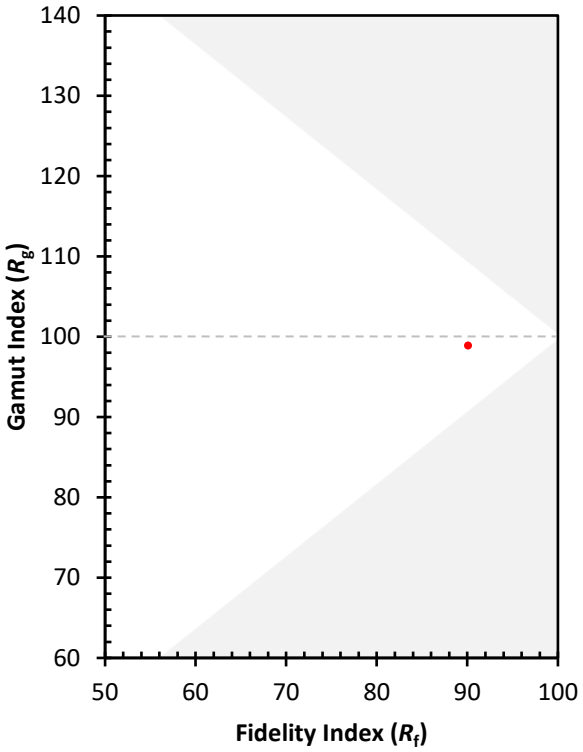


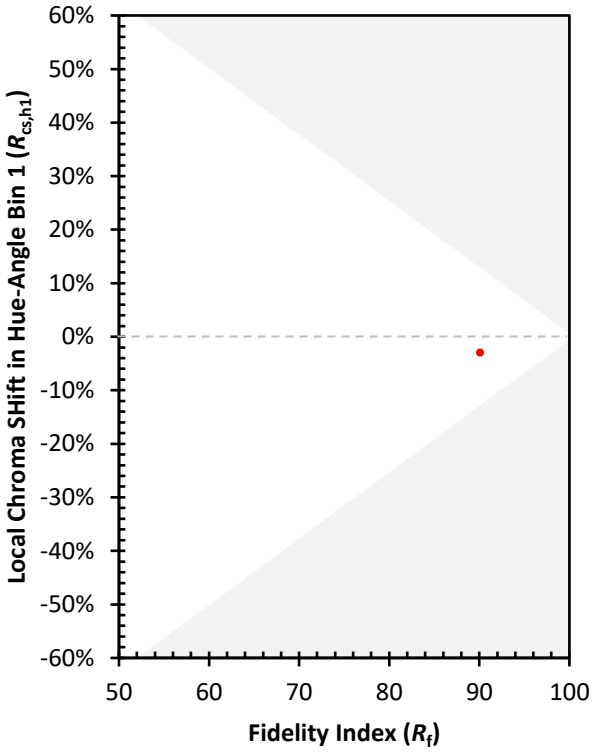


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Measure Comparisons





(END OF REPORT)