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: P1527770

Luminaire Tested: 24CGTX-45-B2750-W2A-3000K

Issue Date: 8/26/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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Scaled Data Report

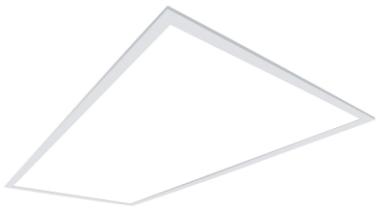
Test Information

Test Method:	LM-79-2019
Report Number:	P1527770
	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-3000K
Description:	2X4 4500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 3000K CCT WITH FROSTED SMOOTH L
Light Source:	3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4441.0 lumens
Efficiency:	N/A
Efficacy:	113.0 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

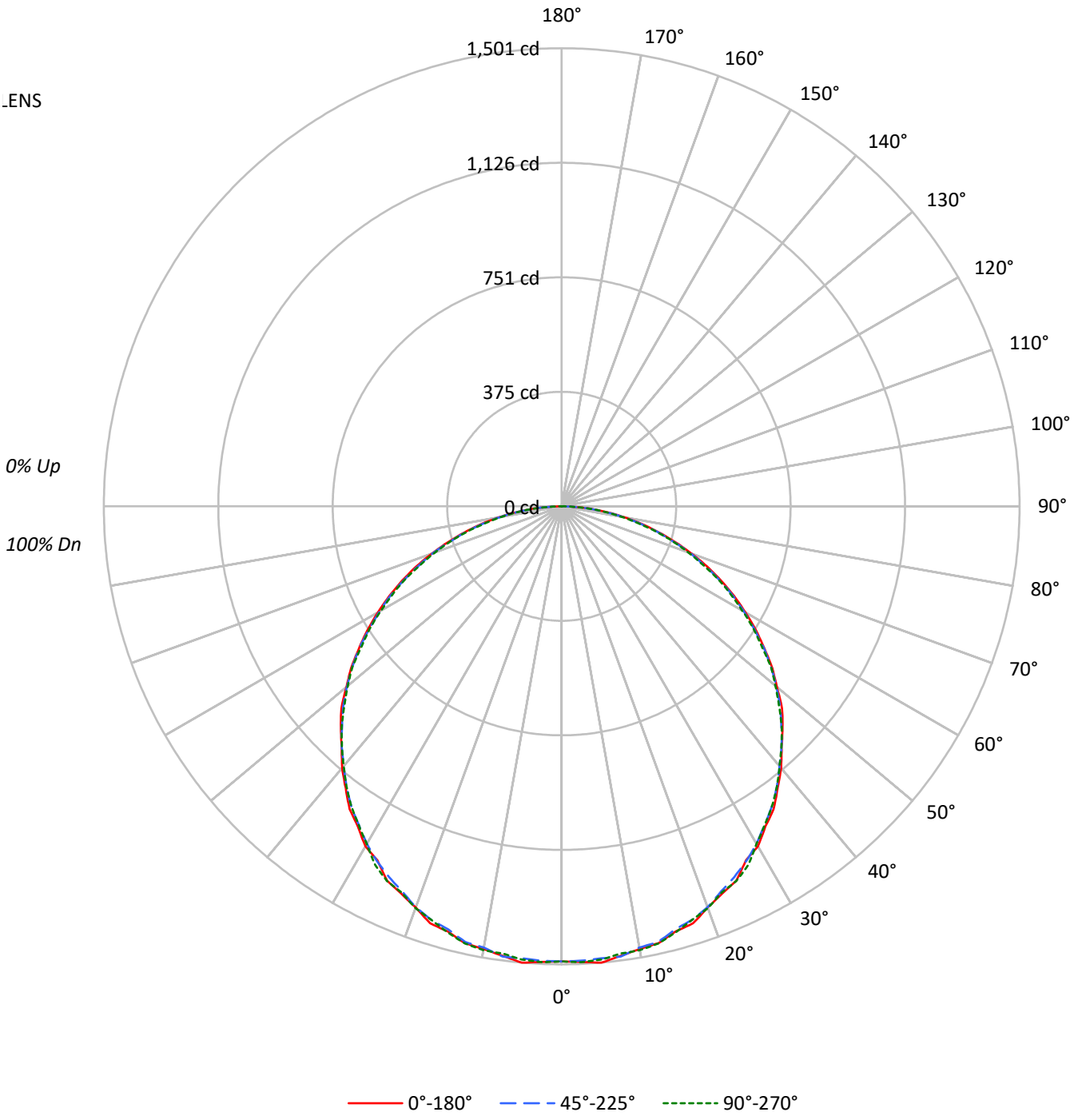


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Scaled Data Report

TEST NUMBER: P1527770
CATALOG NUMBER: 24CGTX-45-B2750-W2A-3000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1527770
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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°	2006	2006	2006
5°	2027	2009	2014
10°	2013	2006	2018
15°	2009	1999	2013
20°	2003	2002	2006
25°	2010	1989	2011
30°	1999	1984	1985
35°	1990	1974	1974
40°	1966	1952	1952
45°	1949	1937	1941
50°	1928	1923	1915
55°	1902	1897	1878
60°	1872	1855	1839
65°	1838	1812	1803
70°	1782	1766	1738
75°	1714	1688	1672
80°	1638	1592	1561
85°	1501	1439	1439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 47.5°
Luminance: 1952 cd/sqm

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TEST NUMBER: P1527770
CATALOG NUMBER: 24CGTX-45-B2750-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.2
10°-20°	407.1	9.2
20°-30°	619.6	14.0
30°-40°	751.9	16.9
40°-50°	786.8	17.7
50°-60°	721.0	16.2
60°-70°	563.8	12.7
70°-80°	343.2	7.7
80°-90°	106.1	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°	1168.2	26.3
0°-40°	1920.0	43.2
0°-60°	3427.9	77.2
0°-90°	4441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1501	1487	1487	1485	1491	142
15°	1442	1437	1435	1440	1445	408
25°	1354	1347	1340	1344	1355	621
35°	1212	1200	1202	1198	1202	755
45°	1024	1019	1018	1022	1020	790
55°	811	808	809	801	801	725
65°	577	574	569	566	566	571
75°	330	330	325	321	322	349
85°	97	96	93	91	93	109
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1527770
CATALOG NUMBER: 24CGTX-45-B2750-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1491.1*	1491.1	1491.1	1491.1	1491.1
2.5°	*1494.1*	1498.1	1490.1	1488.1	1495.1
5°	*1501.1*	*1487.1*	*1487.1*	*1485.1*	*1491.1*
7.5°	*1485.1*	1482.1	1488.1	1480.1	1478.1
10°	*1473.1*	1463.1	1468.1	1463.1	1477.1
12.5°	*1466.1*	1468.1	1462.1	1462.1	1467.1
15°	*1442.0*	1437.0	1435.0	1440.0	1445.0
17.5°	*1433.0*	1420.0	1421.0	1426.0	1421.0
20°	*1398.9*	1398.9	1397.9	1395.9	1400.9
22.5°	*1373.9*	1370.9	1365.8	1370.9	1369.9
25°	*1353.8*	1346.8	1339.8	1343.8	1354.8
27.5°	*1307.7*	1314.7	1310.7	1307.7	1324.8
30°	*1286.7*	1283.7	1276.7	1279.7	1277.7
32.5°	*1243.6*	1243.6	1237.6	1244.6	1238.6
35°	*1211.5*	1199.5	1201.5	1197.5	1201.5
37.5°	*1163.4*	1162.4	1158.4	1160.4	1158.4
40°	*1119.3*	1113.3	1111.3	1112.3	1111.3
42.5°	*1067.2*	1069.2	1067.2	1068.2	1066.2
45°	*1024.1*	1019.1	1018.1	1022.1	1020.1
47.5°	*980.0*	971.0	971.0	968.0	966.0
50°	*920.9*	921.9	918.9	913.9	914.9
52.5°	*869.8*	865.8	864.8	860.8	864.8
55°	*810.7*	807.7	808.7	800.7	800.7
57.5°	*754.6*	752.6	747.6	743.6	745.6
60°	*695.5*	696.5	689.4	688.4	683.4
62.5°	*637.3*	634.3	631.3	626.3	625.3
65°	*577.2*	574.2	569.2	566.2	566.2
67.5°	*517.1*	510.1	507.1	504.1	501.0
70°	*452.9*	449.9	448.9	444.9	441.9
72.5°	*391.8*	388.8	382.8	381.8	382.8
75°	*329.7*	329.7	324.7	320.7	321.7
77.5°	*270.6*	268.6	265.6	259.5	256.5
80°	*211.4*	208.4	205.4	201.4	201.4
82.5°	*152.3*	149.3	148.3	145.3	146.3
85°	*97.2*	96.2	93.2	91.2	93.2
87.5°	*46.1*	45.1	45.1	45.1	45.1
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 24CGTX-45-B2750-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	14.43	16.10	14.80	16.41	16.73	14.35	16.01	14.72	16.33	16.64
	3H	16.37	17.88	16.75	18.21	18.57	16.26	17.77	16.64	18.10	18.46
	4H	17.14	18.56	17.54	18.91	19.28	17.02	18.44	17.42	18.79	19.16
	6H	17.75	19.07	18.16	19.43	19.82	17.59	18.91	18.00	19.27	19.67
	8H	17.96	19.22	18.38	19.61	20.01	17.79	19.06	18.22	19.44	19.84
	12H	18.11	19.32	18.54	19.70	20.13	17.94	19.15	18.37	19.53	19.96
4H	2H	15.10	16.52	15.49	16.87	17.24	15.03	16.45	15.43	16.80	17.17
	3H	17.26	18.46	17.67	18.86	19.26	17.17	18.37	17.58	18.77	19.17
	4H	18.17	19.26	18.60	19.67	20.10	18.06	19.15	18.49	19.56	19.99
	6H	18.92	19.87	19.37	20.31	20.76	18.77	19.72	19.22	20.16	20.61
	8H	19.18	20.08	19.64	20.52	20.98	19.03	19.92	19.48	20.36	20.82
	12H	19.39	20.19	19.87	20.67	21.14	19.22	20.03	19.70	20.50	20.97
8H	4H	18.52	19.41	18.98	19.85	20.32	18.42	19.32	18.88	19.76	20.22
	6H	19.41	20.15	19.90	20.64	21.11	19.27	20.02	19.76	20.50	20.98
	8H	19.76	20.43	20.26	20.93	21.42	19.61	20.28	20.12	20.78	21.27
	12H	20.05	20.65	20.56	21.14	21.69	19.89	20.49	20.40	20.98	21.54
12H	4H	18.57	19.37	19.04	19.84	20.31	18.47	19.28	18.95	19.75	20.22
	6H	19.48	20.15	19.99	20.65	21.14	19.35	20.02	19.86	20.53	21.01
	8H	19.90	20.49	20.40	20.98	21.54	19.76	20.35	20.26	20.84	21.40

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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: SP1-2505-441-15-R2

Test Date: 06/12/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-3000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

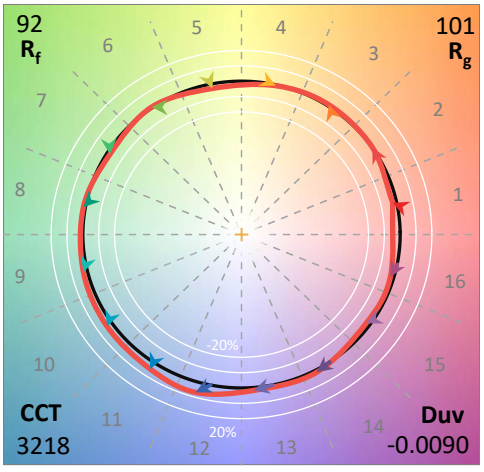
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-15-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-3000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-15-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 7.0V

Spectral Parameters

CCT (K):	3218
CIE u':	0.2471
CIE v':	0.5047
Duv:	-0.0090
CIE x:	0.4113
CIE y:	0.3733
CIE z:	0.2154
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	586
Purity:	35.5
Rf:	92.4
Rg:	100.9

CRI (Ra):	92.1				
R1:	94.2	R9:	87.4		
R2:	92.2	R10:	85.6		
R3:	93.0	R11:	94.6		
R4:	97.8	R12:	78.5		
R5:	93.2	R13:	92.9		
R6:	85.3	R14:	97.6		
R7:	90.0	R15:	96.4		
R8:	91.4				



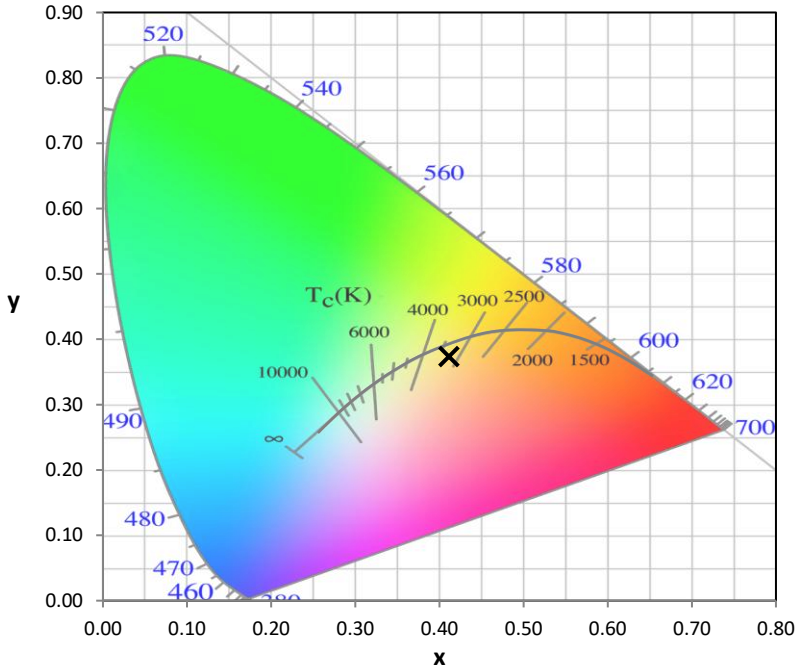
Test Conditions

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

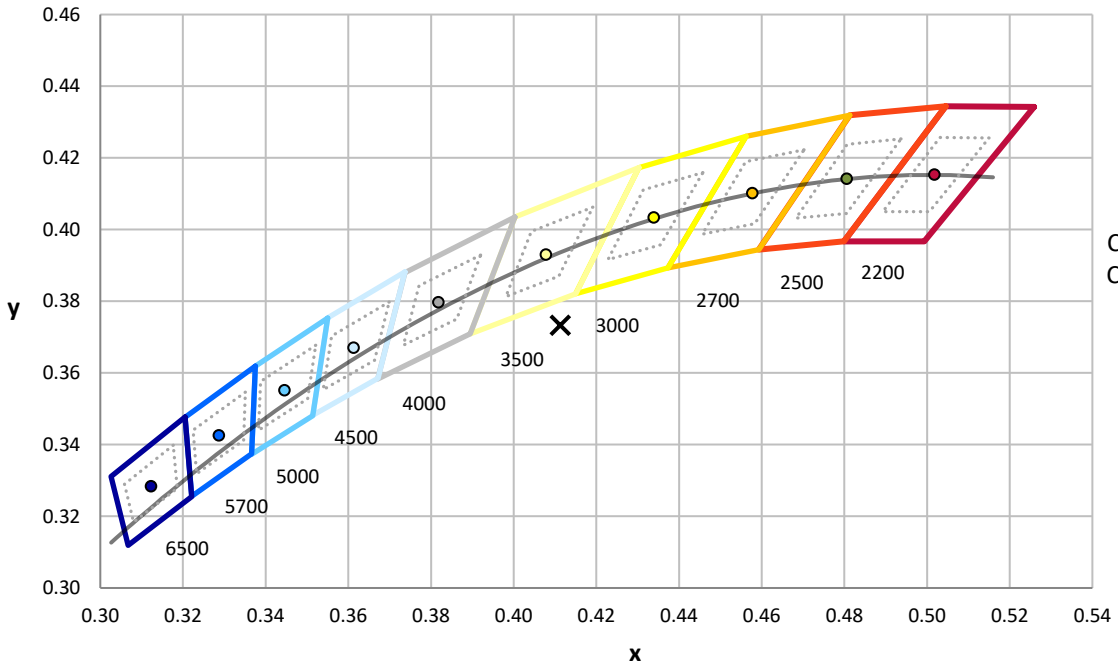
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2505-441-15-R2

CIE 1931 Chromaticity Diagram



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

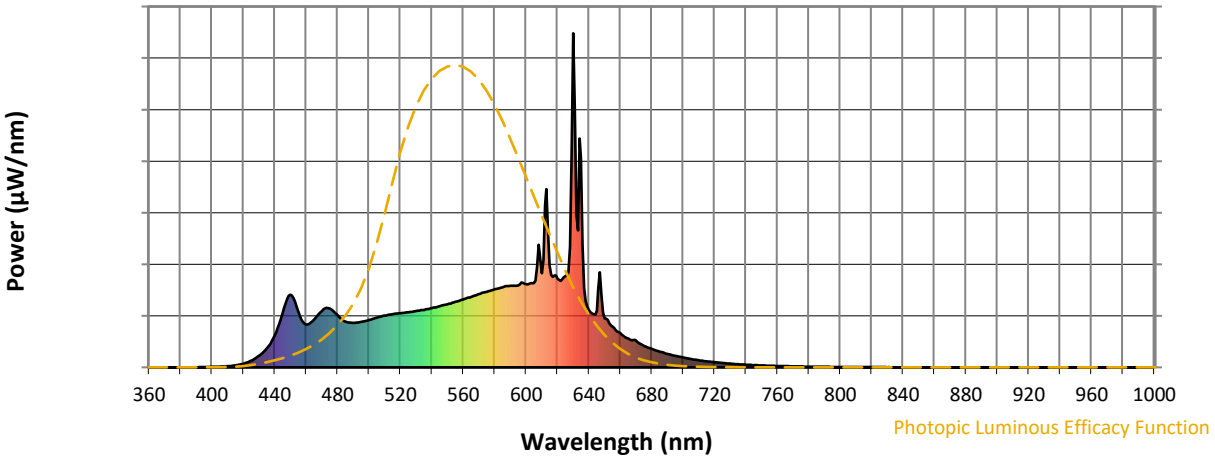


CCT = 3218K
CIE x = 0.4113
CIE y = 0.3733
Duv = -0.0090

Point lies outside the range

REPORT NUMBER: SP1-2505-441-15-R2

Photopic Flux vs. Wavelength

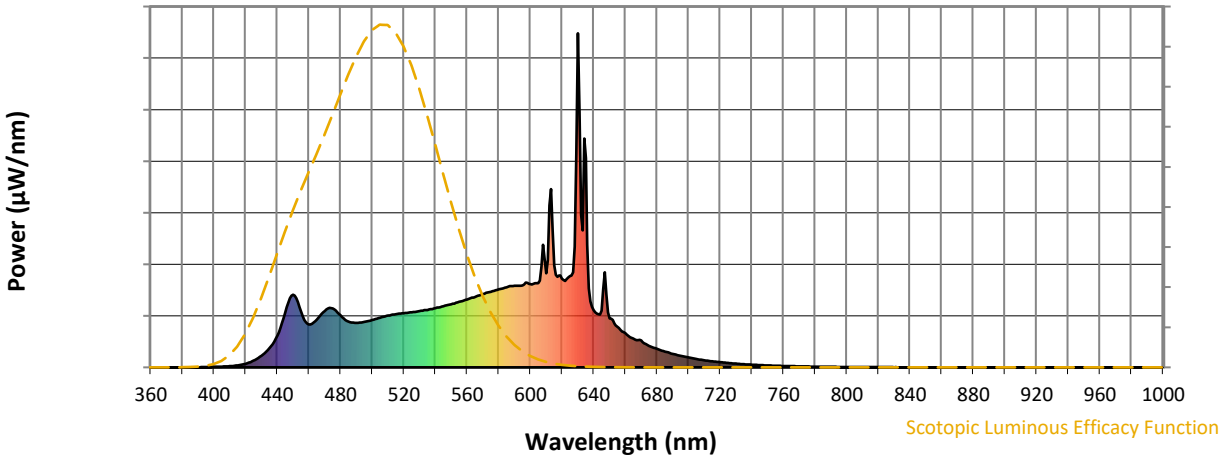


Photopic Lumens: NR

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	133	NR	620	266	NR	750	6	NR	880	0	NR
365	0	NR	495	136	NR	625	273	NR	755	5	NR	885	0	NR
370	0	NR	500	142	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	149	NR	635	627	NR	765	4	NR	895	0	NR
380	0	NR	510	155	NR	640	172	NR	770	3	NR	900	0	NR
385	0	NR	515	159	NR	645	169	NR	775	3	NR	905	0	NR
390	0	NR	520	162	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	165	NR	655	122	NR	785	2	NR	915	0	NR
400	2	NR	530	169	NR	660	103	NR	790	2	NR	920	0	NR
405	2	NR	535	172	NR	665	86	NR	795	1	NR	925	0	NR
410	4	NR	540	177	NR	670	80	NR	800	1	NR	930	0	NR
415	6	NR	545	183	NR	675	65	NR	805	1	NR	935	0	NR
420	11	NR	550	189	NR	680	55	NR	810	1	NR	940	0	NR
425	20	NR	555	196	NR	685	47	NR	815	1	NR	945	0	NR
430	35	NR	560	203	NR	690	40	NR	820	1	NR	950	0	NR
435	57	NR	565	211	NR	695	35	NR	825	1	NR	955	0	NR
440	94	NR	570	219	NR	700	29	NR	830	1	NR	960	0	NR
445	163	NR	575	226	NR	705	25	NR	835	0	NR	965	0	NR
450	218	NR	580	233	NR	710	21	NR	840	0	NR	970	0	NR
455	167	NR	585	240	NR	715	18	NR	845	0	NR	975	0	NR
460	129	NR	590	244	NR	720	15	NR	850	0	NR	980	0	NR
465	143	NR	595	245	NR	725	13	NR	855	0	NR	985	0	NR
470	169	NR	600	249	NR	730	11	NR	860	0	NR	990	0	NR
475	177	NR	605	252	NR	735	9	NR	865	0	NR	995	0	NR
480	156	NR	610	282	NR	740	8	NR	870	0	NR	1000	0	NR
485	137	NR	615	306	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-15-R2

Scotopic Flux vs. Wavelength

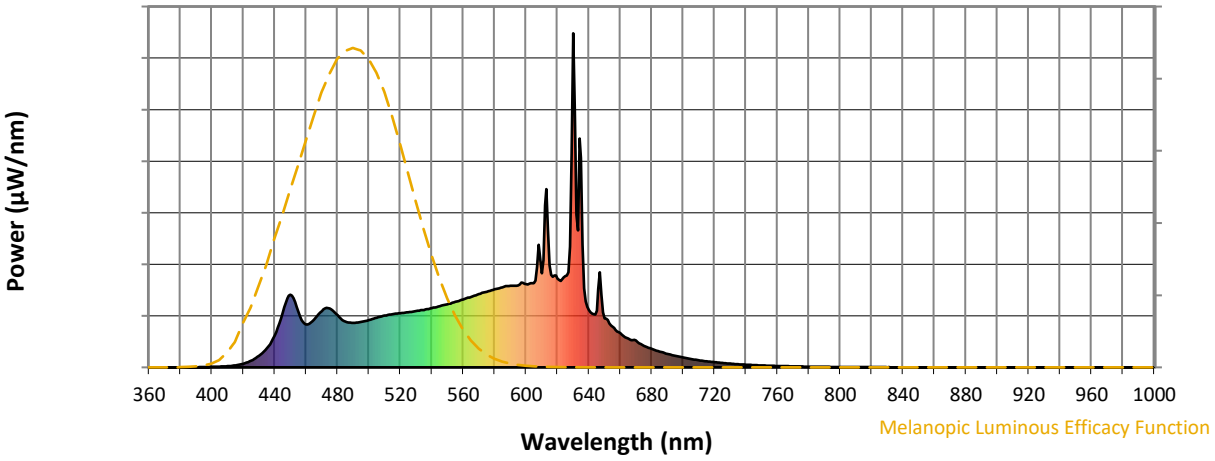


Scotopic Lumens: NR **S/P: 1.68**

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	133	NR	620	266	NR	750	6	NR	880	0	NR
365	0	NR	495	136	NR	625	273	NR	755	5	NR	885	0	NR
370	0	NR	500	142	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	149	NR	635	627	NR	765	4	NR	895	0	NR
380	0	NR	510	155	NR	640	172	NR	770	3	NR	900	0	NR
385	0	NR	515	159	NR	645	169	NR	775	3	NR	905	0	NR
390	0	NR	520	162	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	165	NR	655	122	NR	785	2	NR	915	0	NR
400	2	NR	530	169	NR	660	103	NR	790	2	NR	920	0	NR
405	2	NR	535	172	NR	665	86	NR	795	1	NR	925	0	NR
410	4	NR	540	177	NR	670	80	NR	800	1	NR	930	0	NR
415	6	NR	545	183	NR	675	65	NR	805	1	NR	935	0	NR
420	11	NR	550	189	NR	680	55	NR	810	1	NR	940	0	NR
425	20	NR	555	196	NR	685	47	NR	815	1	NR	945	0	NR
430	35	NR	560	203	NR	690	40	NR	820	1	NR	950	0	NR
435	57	NR	565	211	NR	695	35	NR	825	1	NR	955	0	NR
440	94	NR	570	219	NR	700	29	NR	830	1	NR	960	0	NR
445	163	NR	575	226	NR	705	25	NR	835	0	NR	965	0	NR
450	218	NR	580	233	NR	710	21	NR	840	0	NR	970	0	NR
455	167	NR	585	240	NR	715	18	NR	845	0	NR	975	0	NR
460	129	NR	590	244	NR	720	15	NR	850	0	NR	980	0	NR
465	143	NR	595	245	NR	725	13	NR	855	0	NR	985	0	NR
470	169	NR	600	249	NR	730	11	NR	860	0	NR	990	0	NR
475	177	NR	605	252	NR	735	9	NR	865	0	NR	995	0	NR
480	156	NR	610	282	NR	740	8	NR	870	0	NR	1000	0	NR
485	137	NR	615	306	NR	745	7	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.56**

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	133	NR	620	266	NR	750	6	NR	880	0	NR
365	0	NR	495	136	NR	625	273	NR	755	5	NR	885	0	NR
370	0	NR	500	142	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	149	NR	635	627	NR	765	4	NR	895	0	NR
380	0	NR	510	155	NR	640	172	NR	770	3	NR	900	0	NR
385	0	NR	515	159	NR	645	169	NR	775	3	NR	905	0	NR
390	0	NR	520	162	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	165	NR	655	122	NR	785	2	NR	915	0	NR
400	2	NR	530	169	NR	660	103	NR	790	2	NR	920	0	NR
405	2	NR	535	172	NR	665	86	NR	795	1	NR	925	0	NR
410	4	NR	540	177	NR	670	80	NR	800	1	NR	930	0	NR
415	6	NR	545	183	NR	675	65	NR	805	1	NR	935	0	NR
420	11	NR	550	189	NR	680	55	NR	810	1	NR	940	0	NR
425	20	NR	555	196	NR	685	47	NR	815	1	NR	945	0	NR
430	35	NR	560	203	NR	690	40	NR	820	1	NR	950	0	NR
435	57	NR	565	211	NR	695	35	NR	825	1	NR	955	0	NR
440	94	NR	570	219	NR	700	29	NR	830	1	NR	960	0	NR
445	163	NR	575	226	NR	705	25	NR	835	0	NR	965	0	NR
450	218	NR	580	233	NR	710	21	NR	840	0	NR	970	0	NR
455	167	NR	585	240	NR	715	18	NR	845	0	NR	975	0	NR
460	129	NR	590	244	NR	720	15	NR	850	0	NR	980	0	NR
465	143	NR	595	245	NR	725	13	NR	855	0	NR	985	0	NR
470	169	NR	600	249	NR	730	11	NR	860	0	NR	990	0	NR
475	177	NR	605	252	NR	735	9	NR	865	0	NR	995	0	NR
480	156	NR	610	282	NR	740	8	NR	870	0	NR	1000	0	NR
485	137	NR	615	306	NR	745	7	NR	875	0	NR			

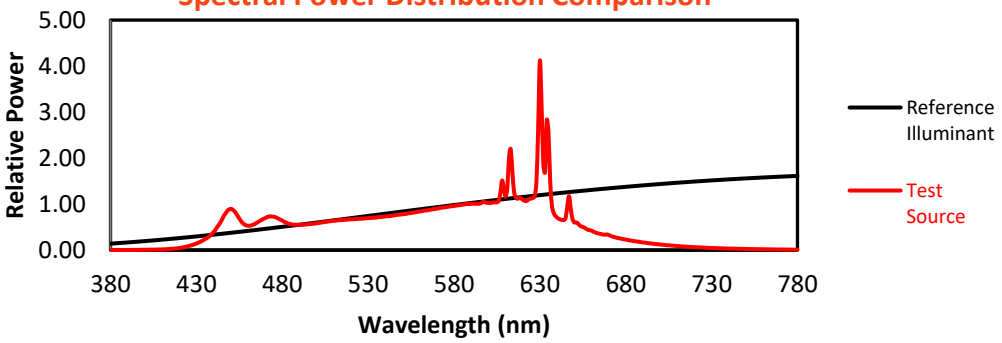
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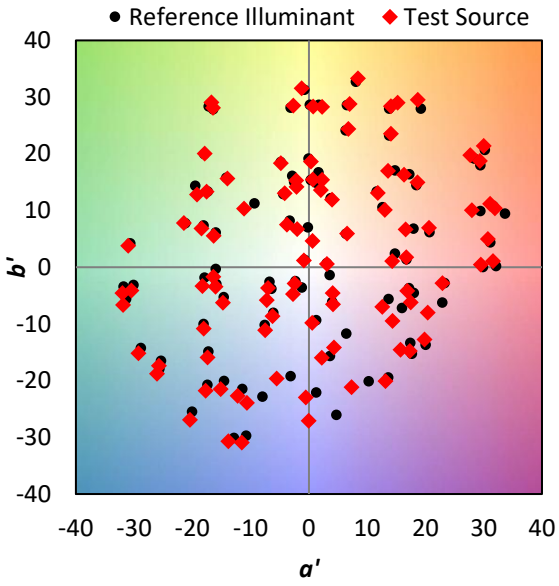
Summary

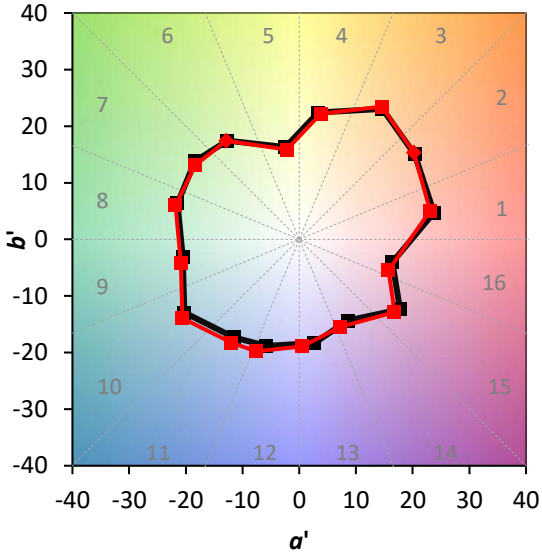
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R_g = 100.9
CIE R_a = 92.1
R_9 = 87.4

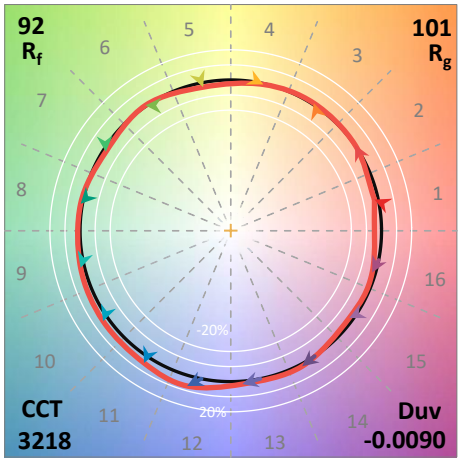
Spectral Power Distribution Comparison

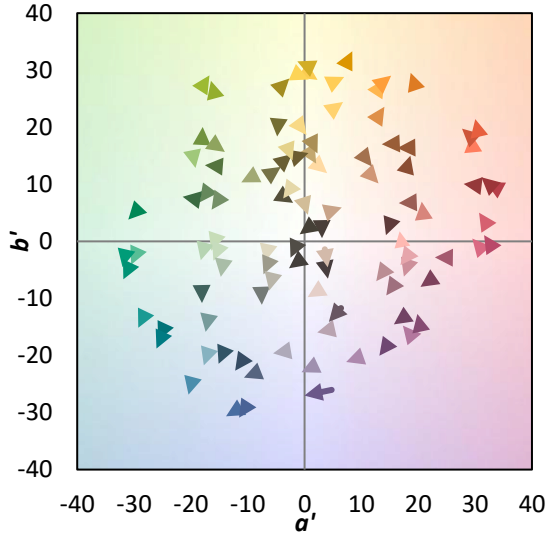


Color Vector Graphics







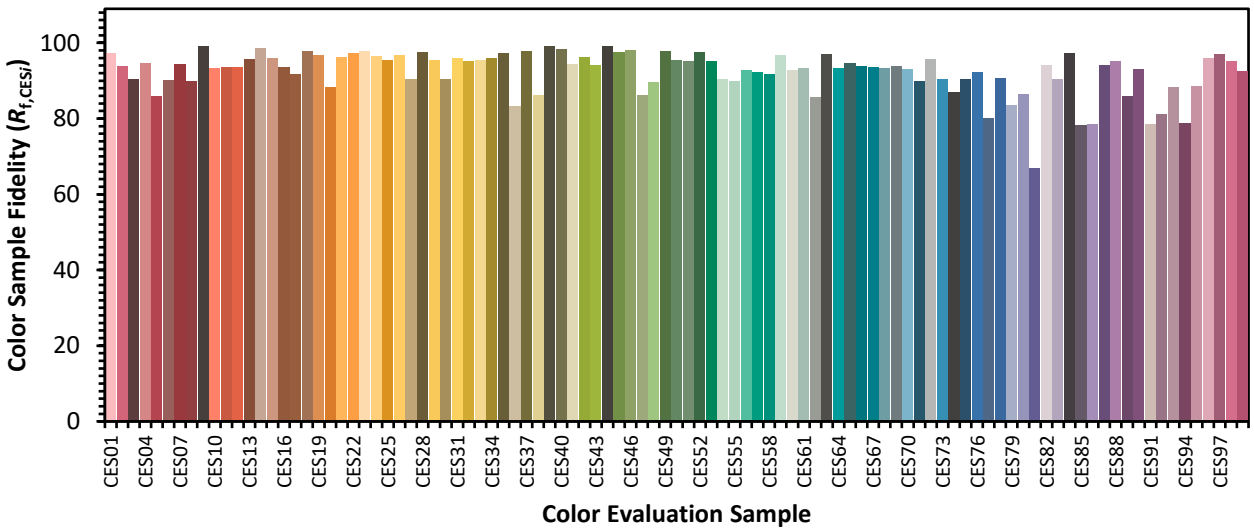


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Individual Sample Fidelity Index ($R_{f,i}$)

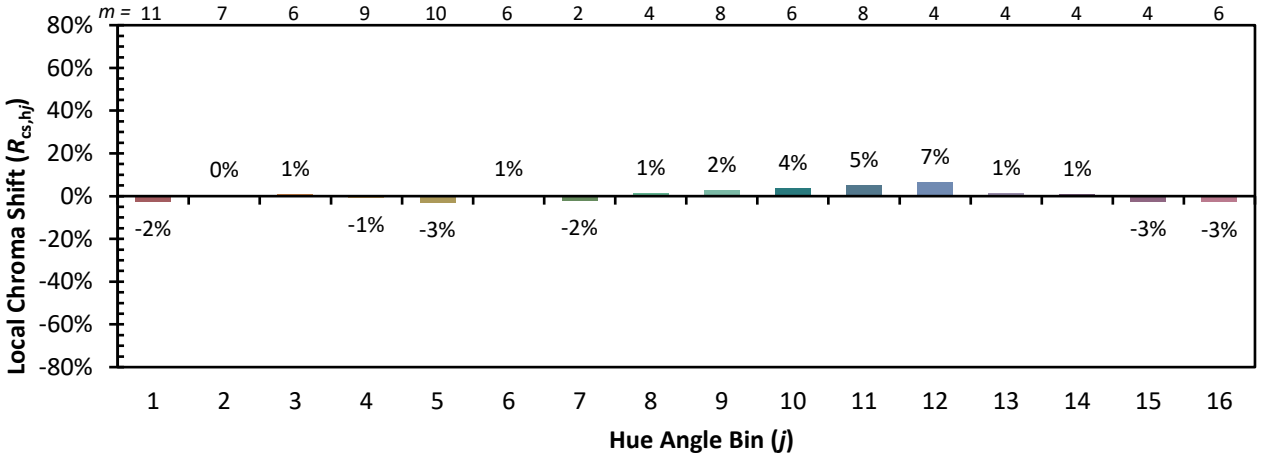
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CES02 = 63	CES27 = 90	CES52 = 97	CES77 = 80
CES03 = 32	CES28 = 97	CES53 = 95	CES78 = 91
CES04 = 70	CES29 = 95	CES54 = 91	CES79 = 83
CES05 = 51	CES30 = 90	CES55 = 90	CES80 = 86
CES06 = 51	CES31 = 96	CES56 = 93	CES81 = 67
CES07 = 44	CES32 = 95	CES57 = 92	CES82 = 94
CES08 = 42	CES33 = 96	CES58 = 92	CES83 = 90
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 97
CES10 = 76	CES35 = 97	CES60 = 93	CES85 = 78
CES11 = 58	CES36 = 83	CES61 = 93	CES86 = 79
CES12 = 65	CES37 = 98	CES62 = 86	CES87 = 94
CES13 = 44	CES38 = 86	CES63 = 97	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 93	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 95	CES90 = 93
CES16 = 48	CES41 = 94	CES66 = 94	CES91 = 79
CES17 = 50	CES42 = 96	CES67 = 94	CES92 = 81
CES18 = 57	CES43 = 94	CES68 = 93	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 94	CES94 = 79
CES20 = 67	CES45 = 97	CES70 = 93	CES95 = 89
CES21 = 86	CES46 = 98	CES71 = 90	CES96 = 96
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 97
CES23 = 91	CES48 = 90	CES73 = 90	CES98 = 95
CES24 = 90	CES49 = 98	CES74 = 87	CES99 = 92
CES25 = 71	CES50 = 95	CES75 = 90	

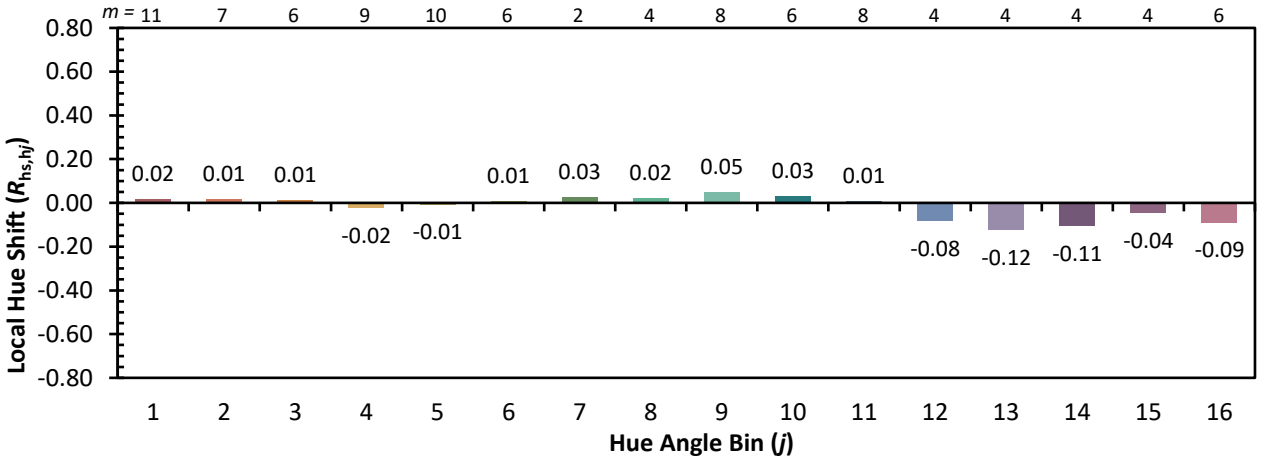


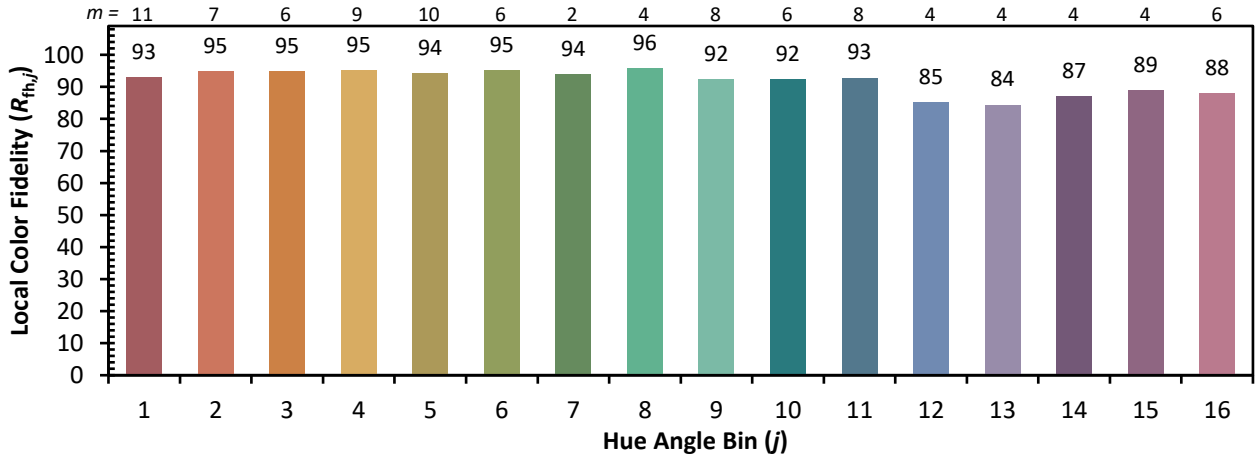
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Color Rendition by Hue-Angle Bin



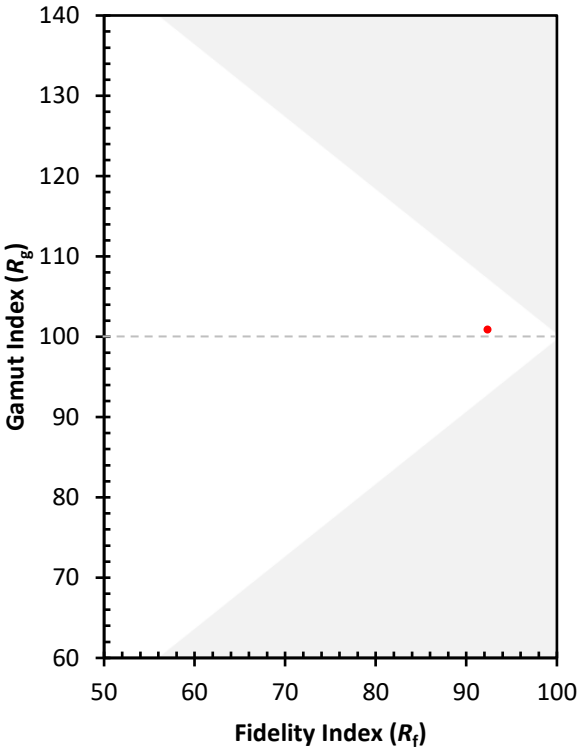


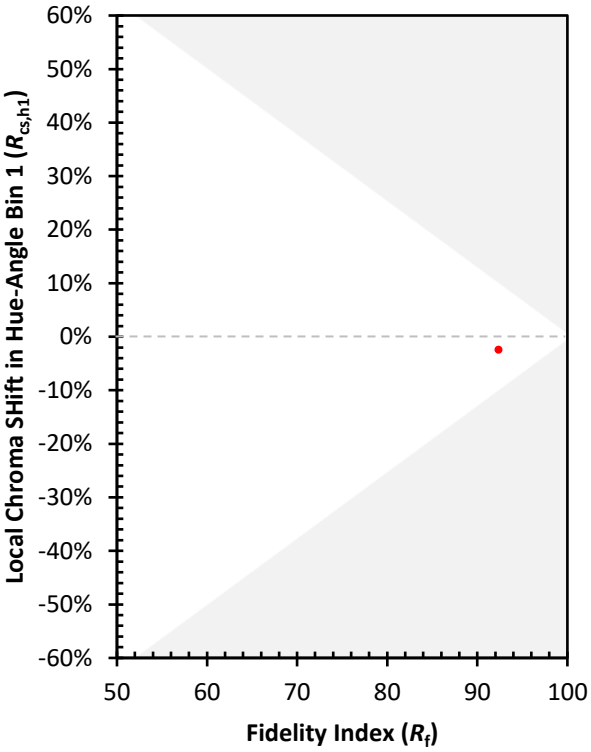


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Measure Comparisons





(END OF REPORT)