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: P1527754

Luminaire Tested: 24CGTX-30-B2750-W2A-4000K

Issue Date: 8/26/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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Peachtree City, GA 30269

Scaled Data Report

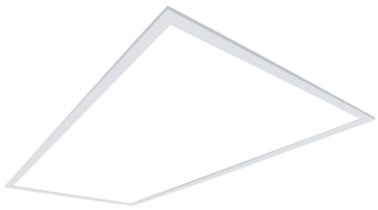
Test Information

Test Method:	LM-79-2019
Report Number:	P1527754
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-30-B2750-W2A-4000K
Description:	2X4 3000 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 4000K CCT WITH FROSTED SMOOTH L
Light Source:	4000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2997.7 lumens
Efficiency:	N/A
Efficacy:	116.6 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):	25.7
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

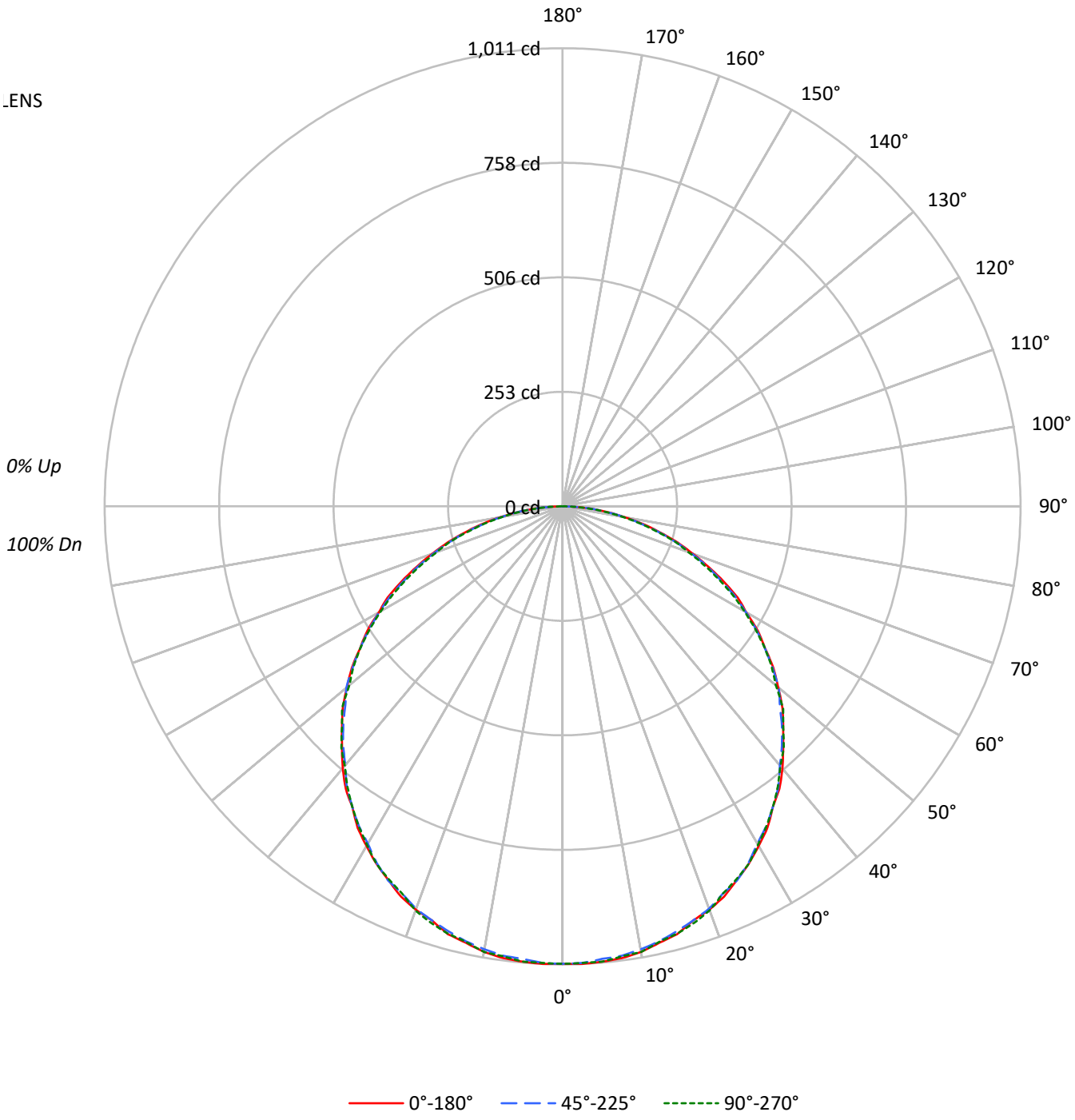


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Scaled Data Report

TEST NUMBER: P1527754
CATALOG NUMBER: 24CGTX-30-B2750-W2A-4000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1527754
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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°	1359	1359	1359
5°	1363	1354	1363
10°	1364	1356	1364
15°	1362	1353	1360
20°	1357	1354	1359
25°	1351	1353	1348
30°	1345	1336	1340
35°	1329	1329	1329
40°	1326	1310	1314
45°	1310	1303	1310
50°	1300	1304	1285
55°	1280	1278	1278
60°	1260	1257	1246
65°	1247	1224	1208
70°	1204	1188	1164
75°	1162	1141	1120
80°	1084	1068	1038
85°	1010	994	948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 47.5°
Luminance: 1315 cd/sqm

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Scaled Data Report

TEST NUMBER: P1527754
CATALOG NUMBER: 24CGTX-30-B2750-W2A-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.2
10°-20°	274.9	9.2
20°-30°	418.4	14.0
30°-40°	507.0	16.9
40°-50°	530.6	17.7
50°-60°	487.3	16.3
60°-70°	380.8	12.7
70°-80°	231.8	7.7
80°-90°	71.3	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°	788.9	26.3
0°-40°	1295.9	43.2
0°-60°	2313.7	77.2
0°-90°	2997.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1009	1002	1003	1004	1009	96
15°	978	974	972	972	977	275
25°	910	907	911	904	908	420
35°	809	814	809	811	809	509
45°	689	688	685	690	689	532
55°	546	547	545	544	545	490
65°	392	387	385	384	380	387
75°	224	220	220	216	215	237
85°	65	64	64	61	61	73
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1527754
CATALOG NUMBER: 24CGTX-30-B2750-W2A-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.8	*1009.8*	1009.8	1009.8	1009.8
2.5°	*1010.8*	*1012.8*	*1008.8*	*1005.8*	*1008.8*
5°	1008.8	*1001.7*	1002.7	1003.7	1008.8
7.5°	1005.8	*998.7*	1000.7	999.7	1001.7
10°	998.7	*993.7*	992.7	990.7	998.7
12.5°	986.6	*985.6*	983.6	983.6	984.6
15°	977.6	*974.5*	971.5	972.5	976.6
17.5°	958.4	*962.5*	958.4	960.5	964.5
20°	947.4	*943.3*	945.3	943.3	949.4
22.5°	932.3	*924.2*	925.2	927.2	925.2
25°	910.1	*907.1*	911.1	904.1	908.1
27.5°	890.0	*887.0*	888.0	888.0	890.0
30°	865.8	*860.8*	859.8	858.8	862.8
32.5°	841.7	*844.7*	836.6	834.6	837.6
35°	809.4	*813.5*	809.4	811.4	809.4
37.5°	786.3	*781.2*	782.3	778.2	780.2
40°	755.1	*754.1*	746.0	750.0	748.0
42.5°	720.8	*721.8*	716.8	720.8	722.9
45°	688.6	*687.6*	684.6	689.6	688.6
47.5°	658.4	*656.4*	650.4	652.4	660.4
50°	621.2	*618.2*	623.2	619.2	614.1
52.5°	586.9	*584.9*	583.9	582.9	581.9
55°	545.7	*546.7*	544.7	543.7	544.7
57.5°	511.4	*506.4*	507.4	505.4	504.4
60°	468.1	*466.1*	467.1	463.1	463.1
62.5°	435.9	*428.9*	427.9	422.8	422.8
65°	391.6	*386.6*	384.6	383.6	379.5
67.5°	348.3	*346.3*	343.3	340.3	337.3
70°	306.1	*303.0*	302.0	299.0	296.0
72.5°	266.8	*263.8*	260.8	257.7	260.8
75°	223.5	*220.5*	219.5	216.5	215.4
77.5°	184.2	*182.2*	178.2	175.2	175.2
80°	139.9	*139.9*	137.9	136.9	133.9
82.5°	102.7	*101.7*	100.7	98.7	97.7
85°	65.4	*64.4*	64.4	61.4	61.4
87.5°	30.2	*29.2*	30.2	29.2	29.2
90°	0.0	*0.0*	0.0	0.0	0.0

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CATALOG NUMBER: 24CGTX-30-B2750-W2A-4000K

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	13.05	14.72	13.42	15.03	15.35	13.02	14.69	13.39	15.00	15.32
	3H	15.00	16.51	15.38	16.84	17.20	14.91	16.42	15.29	16.74	17.10
	4H	15.77	17.20	16.17	17.54	17.92	15.66	17.08	16.06	17.43	17.80
	6H	16.38	17.70	16.79	18.06	18.45	16.23	17.55	16.64	17.92	18.31
	8H	16.59	17.85	17.01	18.24	18.64	16.43	17.69	16.86	18.08	18.48
	12H	16.74	17.95	17.17	18.33	18.76	16.57	17.78	17.00	18.17	18.59
4H	2H	13.72	15.14	14.12	15.49	15.86	13.70	15.12	14.09	15.47	15.84
	3H	15.89	17.09	16.30	17.49	17.89	15.81	17.01	16.22	17.41	17.81
	4H	16.80	17.89	17.23	18.30	18.73	16.70	17.78	17.13	18.20	18.63
	6H	17.55	18.50	18.00	18.94	19.39	17.41	18.36	17.86	18.80	19.26
	8H	17.81	18.70	18.27	19.15	19.61	17.66	18.56	18.12	19.00	19.46
	12H	18.02	18.82	18.50	19.30	19.76	17.86	18.66	18.33	19.13	19.60
8H	4H	17.15	18.04	17.61	18.48	18.95	17.06	17.95	17.52	18.40	18.86
	6H	18.03	18.78	18.53	19.27	19.74	17.91	18.66	18.40	19.14	19.62
	8H	18.39	19.06	18.89	19.56	20.04	18.25	18.92	18.76	19.42	19.91
	12H	18.68	19.27	19.19	19.76	20.32	18.53	19.12	19.03	19.61	20.17
12H	4H	17.20	18.00	17.68	18.47	18.94	17.11	17.92	17.59	18.39	18.86
	6H	18.11	18.78	18.62	19.28	19.77	17.99	18.66	18.50	19.17	19.65
	8H	18.53	19.12	19.03	19.61	20.17	18.40	18.99	18.90	19.48	20.04

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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: SP1-2505-441-9-R2

Test Date: 06/12/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-4000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

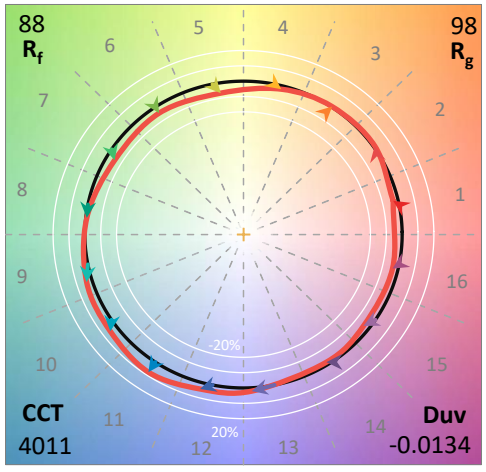
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-9-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-4000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-9-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 4.0V

Spectral Parameters

CCT (K):	4011
CIE u':	0.2325
CIE v':	0.4849
Duv:	-0.0134
CIE x:	0.3712
CIE y:	0.3440
CIE z:	0.2848
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	593
Purity:	14.59231
Rf:	88.3
Rg:	97.6

CRI (Ra):	88.2
R1:	91.9
R2:	87.7
R3:	86.7
R4:	92.6
R5:	90.4
R6:	81.2
R7:	85.8
R8:	89.2
R9:	89.9
R10:	76.6
R11:	93.9
R12:	70.9
R13:	89.9
R14:	94.3
R15:	92.5



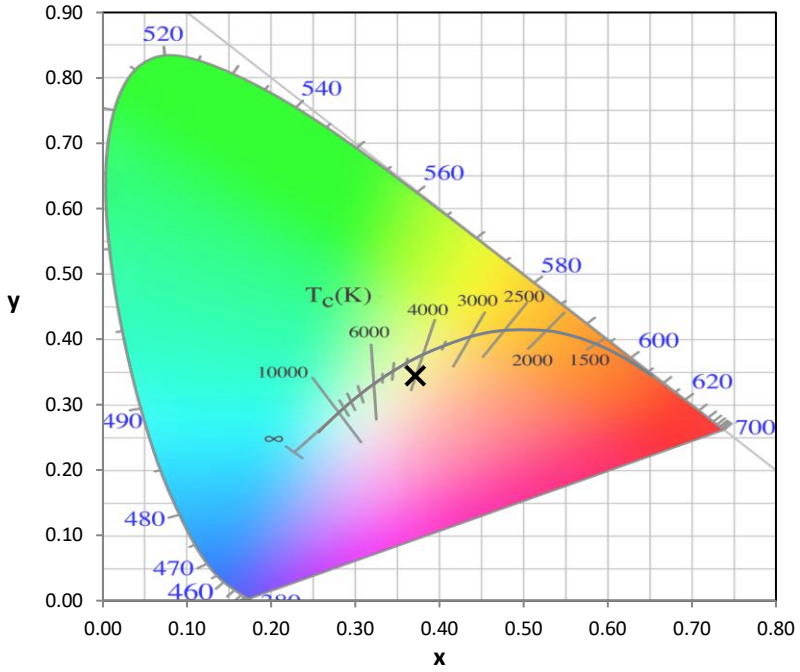
Test Conditions

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

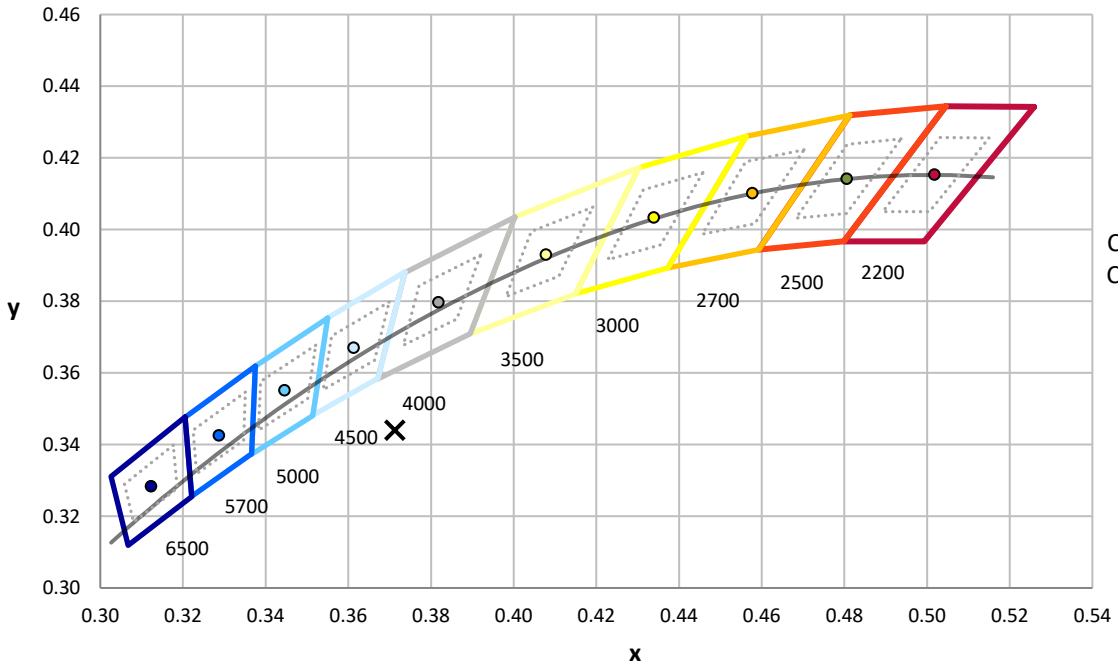
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2505-441-9-R2

CIE 1931 Chromaticity Diagram



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

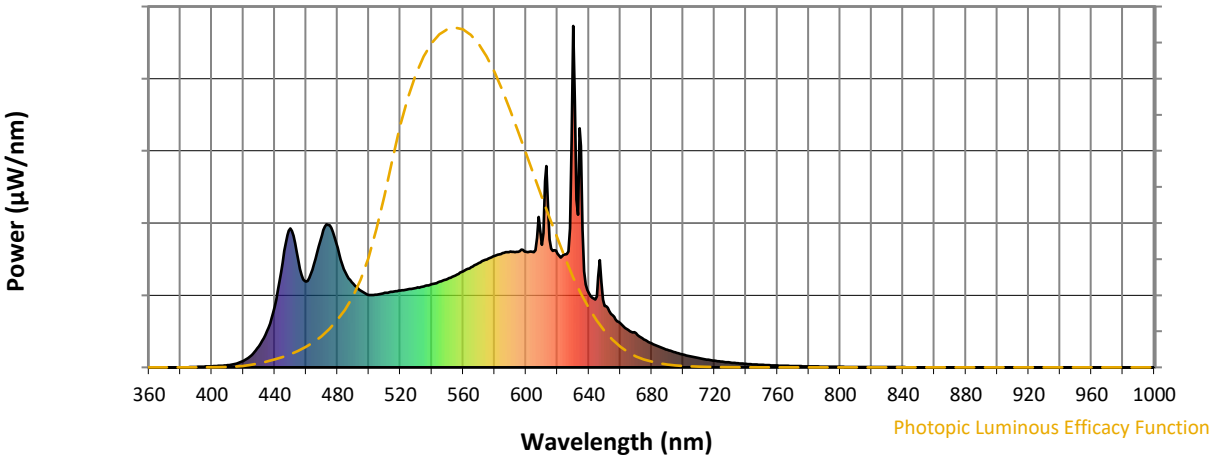


CCT = 4011K
CIE x = 0.3712
CIE y = 0.3440
Duv = -0.0134

Point lies outside the range

REPORT NUMBER: SP1-2505-441-9-R2

Photopic Flux vs. Wavelength

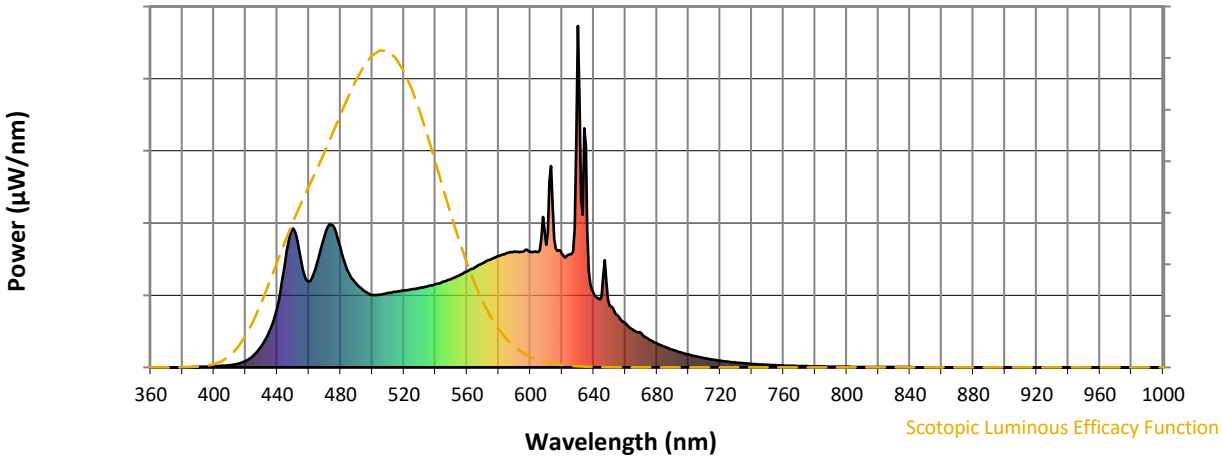


Photopic Lumens: NR

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	244	NR	620	332	NR	750	7	NR	880	0	NR
365	0	NR	495	224	NR	625	331	NR	755	6	NR	885	0	NR
370	0	NR	500	212	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	213	NR	635	647	NR	765	5	NR	895	0	NR
380	0	NR	510	218	NR	640	217	NR	770	4	NR	900	0	NR
385	0	NR	515	221	NR	645	208	NR	775	3	NR	905	0	NR
390	1	NR	520	225	NR	650	180	NR	780	3	NR	910	0	NR
395	2	NR	525	228	NR	655	152	NR	785	2	NR	915	0	NR
400	3	NR	530	232	NR	660	130	NR	790	2	NR	920	0	NR
405	4	NR	535	237	NR	665	109	NR	795	2	NR	925	0	NR
410	6	NR	540	243	NR	670	100	NR	800	2	NR	930	0	NR
415	10	NR	545	251	NR	675	82	NR	805	1	NR	935	0	NR
420	19	NR	550	259	NR	680	70	NR	810	1	NR	940	0	NR
425	35	NR	555	269	NR	685	60	NR	815	1	NR	945	0	NR
430	62	NR	560	281	NR	690	51	NR	820	1	NR	950	0	NR
435	106	NR	565	293	NR	695	44	NR	825	1	NR	955	0	NR
440	177	NR	570	305	NR	700	37	NR	830	1	NR	960	0	NR
445	307	NR	575	316	NR	705	32	NR	835	1	NR	965	0	NR
450	406	NR	580	327	NR	710	27	NR	840	1	NR	970	0	NR
455	313	NR	585	335	NR	715	23	NR	845	0	NR	975	0	NR
460	252	NR	590	339	NR	720	20	NR	850	0	NR	980	0	NR
465	303	NR	595	338	NR	725	17	NR	855	0	NR	985	0	NR
470	387	NR	600	339	NR	730	14	NR	860	0	NR	990	0	NR
475	416	NR	605	338	NR	735	12	NR	865	0	NR	995	0	NR
480	350	NR	610	359	NR	740	10	NR	870	0	NR	1000	0	NR
485	279	NR	615	375	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-9-R2

Scotopic Flux vs. Wavelength

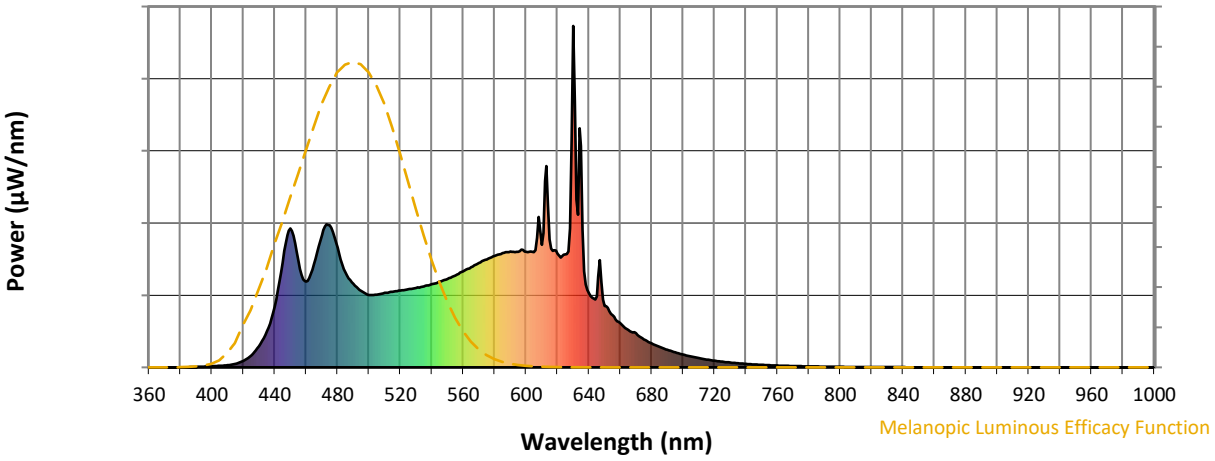


Scotopic Lumens: NR **S/P: 2.01**

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	244	NR	620	332	NR	750	7	NR	880	0	NR
365	0	NR	495	224	NR	625	331	NR	755	6	NR	885	0	NR
370	0	NR	500	212	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	213	NR	635	647	NR	765	5	NR	895	0	NR
380	0	NR	510	218	NR	640	217	NR	770	4	NR	900	0	NR
385	0	NR	515	221	NR	645	208	NR	775	3	NR	905	0	NR
390	1	NR	520	225	NR	650	180	NR	780	3	NR	910	0	NR
395	2	NR	525	228	NR	655	152	NR	785	2	NR	915	0	NR
400	3	NR	530	232	NR	660	130	NR	790	2	NR	920	0	NR
405	4	NR	535	237	NR	665	109	NR	795	2	NR	925	0	NR
410	6	NR	540	243	NR	670	100	NR	800	2	NR	930	0	NR
415	10	NR	545	251	NR	675	82	NR	805	1	NR	935	0	NR
420	19	NR	550	259	NR	680	70	NR	810	1	NR	940	0	NR
425	35	NR	555	269	NR	685	60	NR	815	1	NR	945	0	NR
430	62	NR	560	281	NR	690	51	NR	820	1	NR	950	0	NR
435	106	NR	565	293	NR	695	44	NR	825	1	NR	955	0	NR
440	177	NR	570	305	NR	700	37	NR	830	1	NR	960	0	NR
445	307	NR	575	316	NR	705	32	NR	835	1	NR	965	0	NR
450	406	NR	580	327	NR	710	27	NR	840	1	NR	970	0	NR
455	313	NR	585	335	NR	715	23	NR	845	0	NR	975	0	NR
460	252	NR	590	339	NR	720	20	NR	850	0	NR	980	0	NR
465	303	NR	595	338	NR	725	17	NR	855	0	NR	985	0	NR
470	387	NR	600	339	NR	730	14	NR	860	0	NR	990	0	NR
475	416	NR	605	338	NR	735	12	NR	865	0	NR	995	0	NR
480	350	NR	610	359	NR	740	10	NR	870	0	NR	1000	0	NR
485	279	NR	615	375	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.55**

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	244	NR	620	332	NR	750	7	NR	880	0	NR
365	0	NR	495	224	NR	625	331	NR	755	6	NR	885	0	NR
370	0	NR	500	212	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	213	NR	635	647	NR	765	5	NR	895	0	NR
380	0	NR	510	218	NR	640	217	NR	770	4	NR	900	0	NR
385	0	NR	515	221	NR	645	208	NR	775	3	NR	905	0	NR
390	1	NR	520	225	NR	650	180	NR	780	3	NR	910	0	NR
395	2	NR	525	228	NR	655	152	NR	785	2	NR	915	0	NR
400	3	NR	530	232	NR	660	130	NR	790	2	NR	920	0	NR
405	4	NR	535	237	NR	665	109	NR	795	2	NR	925	0	NR
410	6	NR	540	243	NR	670	100	NR	800	2	NR	930	0	NR
415	10	NR	545	251	NR	675	82	NR	805	1	NR	935	0	NR
420	19	NR	550	259	NR	680	70	NR	810	1	NR	940	0	NR
425	35	NR	555	269	NR	685	60	NR	815	1	NR	945	0	NR
430	62	NR	560	281	NR	690	51	NR	820	1	NR	950	0	NR
435	106	NR	565	293	NR	695	44	NR	825	1	NR	955	0	NR
440	177	NR	570	305	NR	700	37	NR	830	1	NR	960	0	NR
445	307	NR	575	316	NR	705	32	NR	835	1	NR	965	0	NR
450	406	NR	580	327	NR	710	27	NR	840	1	NR	970	0	NR
455	313	NR	585	335	NR	715	23	NR	845	0	NR	975	0	NR
460	252	NR	590	339	NR	720	20	NR	850	0	NR	980	0	NR
465	303	NR	595	338	NR	725	17	NR	855	0	NR	985	0	NR
470	387	NR	600	339	NR	730	14	NR	860	0	NR	990	0	NR
475	416	NR	605	338	NR	735	12	NR	865	0	NR	995	0	NR
480	350	NR	610	359	NR	740	10	NR	870	0	NR	1000	0	NR
485	279	NR	615	375	NR	745	9	NR	875	0	NR			

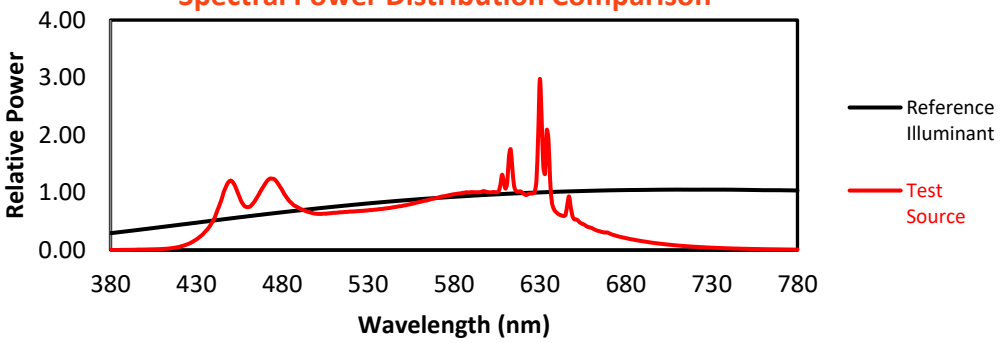
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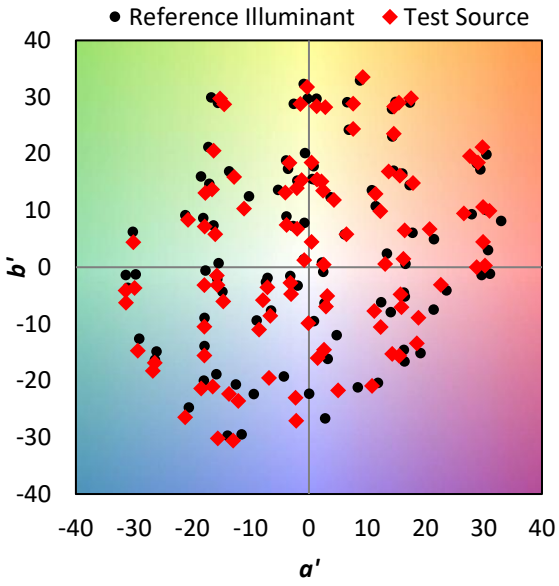
Summary

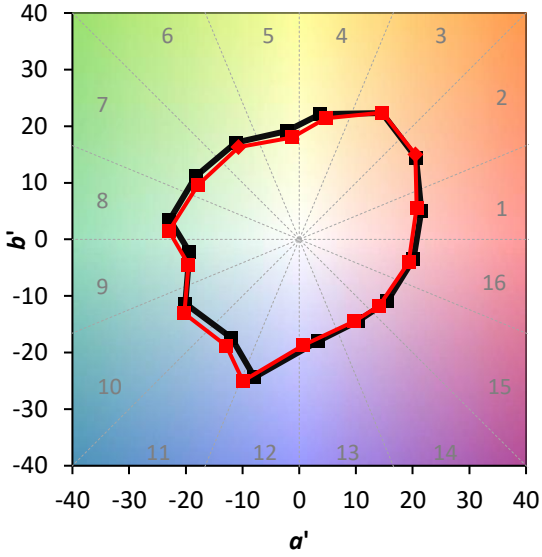
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R_g = 97.6
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R_9 = 89.9

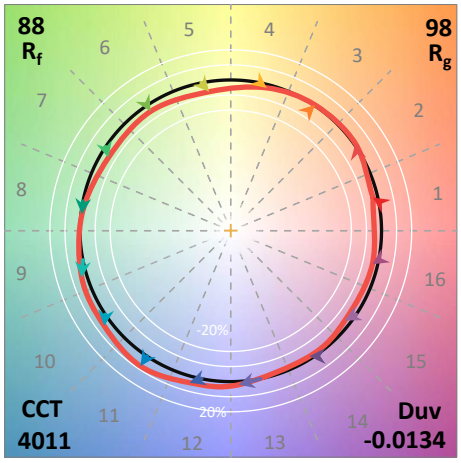
Spectral Power Distribution Comparison

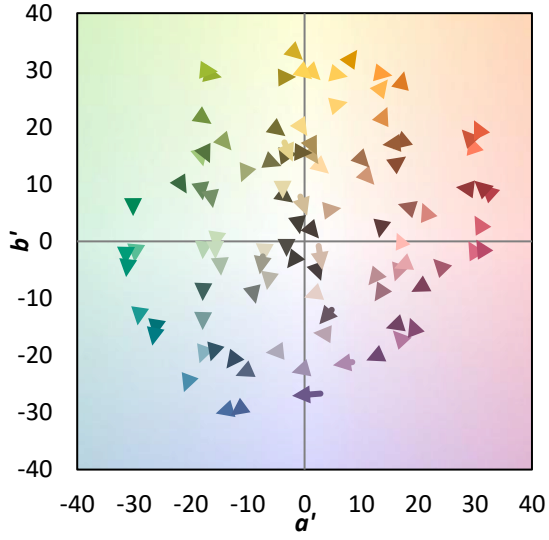


Color Vector Graphics







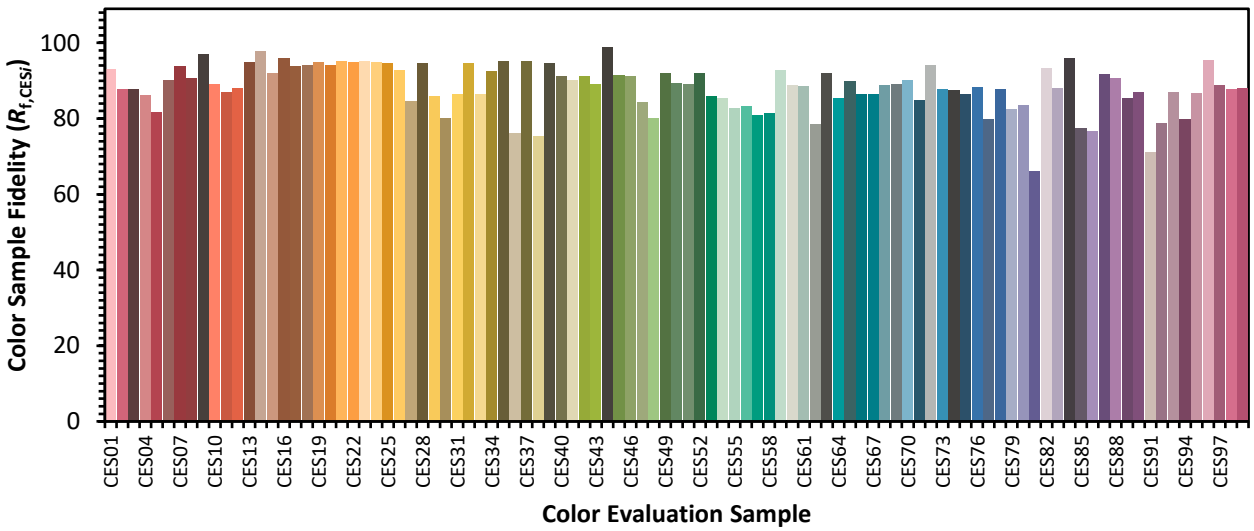


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Individual Sample Fidelity Index ($R_{f,i}$)

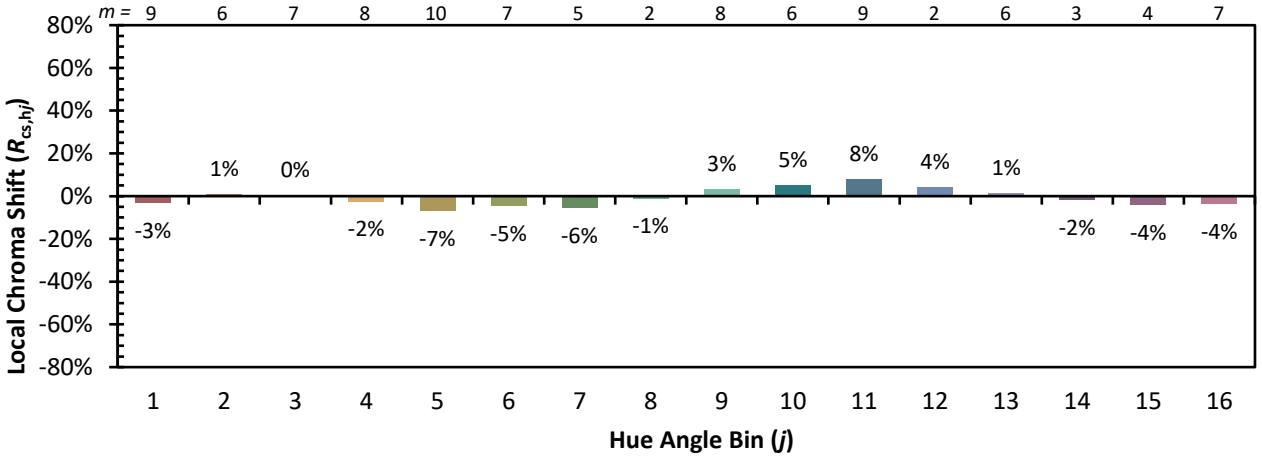
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CES02 = 62	CES27 = 84	CES52 = 92	CES77 = 80
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 88
CES04 = 70	CES29 = 86	CES54 = 85	CES79 = 83
CES05 = 49	CES30 = 80	CES55 = 83	CES80 = 83
CES06 = 51	CES31 = 86	CES56 = 83	CES81 = 66
CES07 = 43	CES32 = 95	CES57 = 81	CES82 = 93
CES08 = 41	CES33 = 86	CES58 = 81	CES83 = 88
CES09 = 29	CES34 = 93	CES59 = 93	CES84 = 96
CES10 = 75	CES35 = 95	CES60 = 89	CES85 = 78
CES11 = 58	CES36 = 76	CES61 = 88	CES86 = 77
CES12 = 64	CES37 = 95	CES62 = 79	CES87 = 92
CES13 = 43	CES38 = 75	CES63 = 92	CES88 = 91
CES14 = 74	CES39 = 95	CES64 = 85	CES89 = 85
CES15 = 72	CES40 = 91	CES65 = 90	CES90 = 87
CES16 = 47	CES41 = 90	CES66 = 86	CES91 = 71
CES17 = 49	CES42 = 91	CES67 = 87	CES92 = 79
CES18 = 56	CES43 = 89	CES68 = 89	CES93 = 87
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 80
CES20 = 66	CES45 = 92	CES70 = 90	CES95 = 87
CES21 = 85	CES46 = 91	CES71 = 85	CES96 = 95
CES22 = 78	CES47 = 84	CES72 = 94	CES97 = 89
CES23 = 91	CES48 = 80	CES73 = 88	CES98 = 88
CES24 = 90	CES49 = 92	CES74 = 87	CES99 = 88
CES25 = 71	CES50 = 89	CES75 = 86	

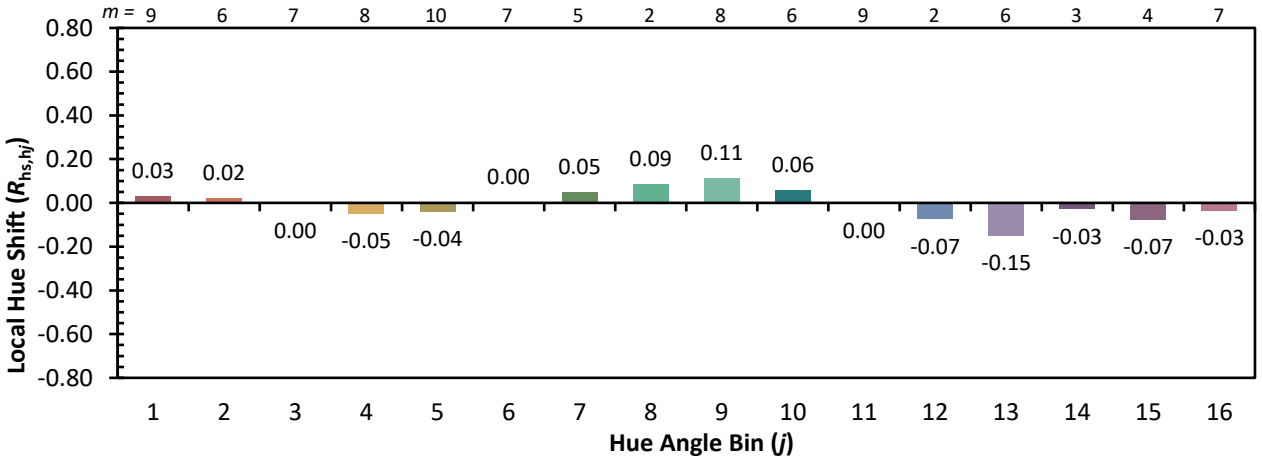


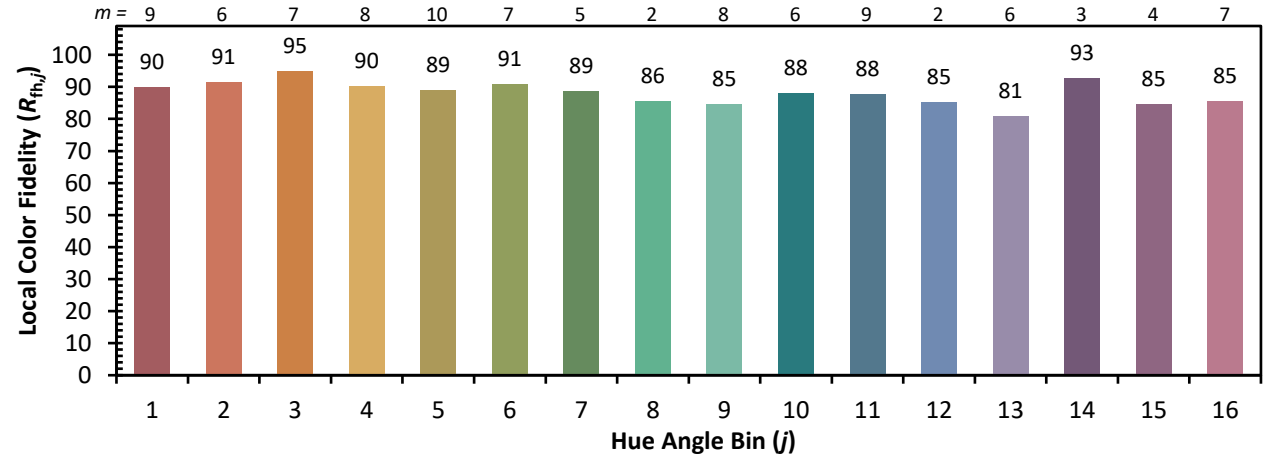
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Color Rendition by Hue-Angle Bin



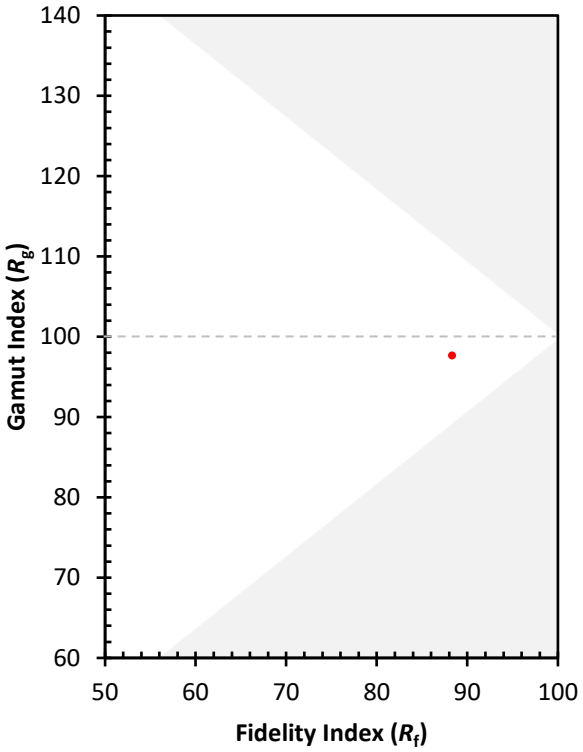


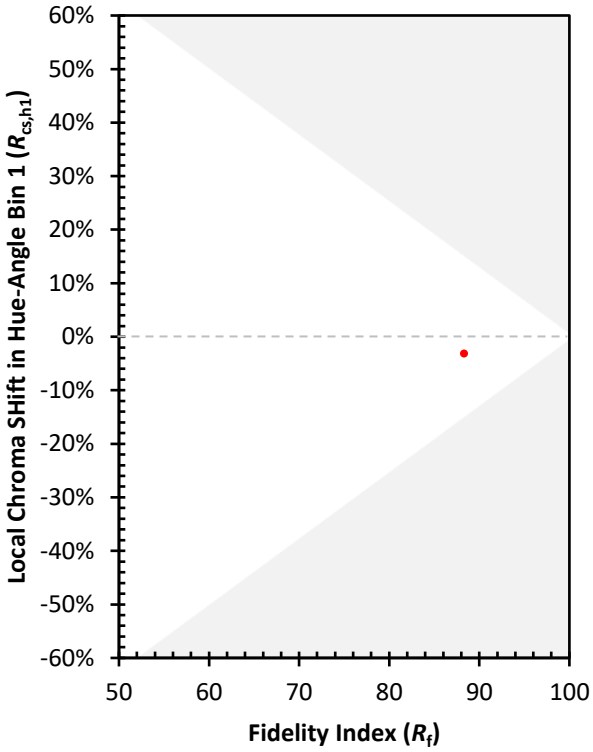


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Measure Comparisons





(END OF REPORT)