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: P1527700

Luminaire Tested: 14CGTX-20-B2750-W2A-4000K

Issue Date: 8/26/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1527700
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-1)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	14CGTX-20-B2750-W2A-4000K
Description:	1X4 2000 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:	2043.4 lumens
Efficiency:	N/A
Efficacy:	105.9 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 1' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	19.3
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

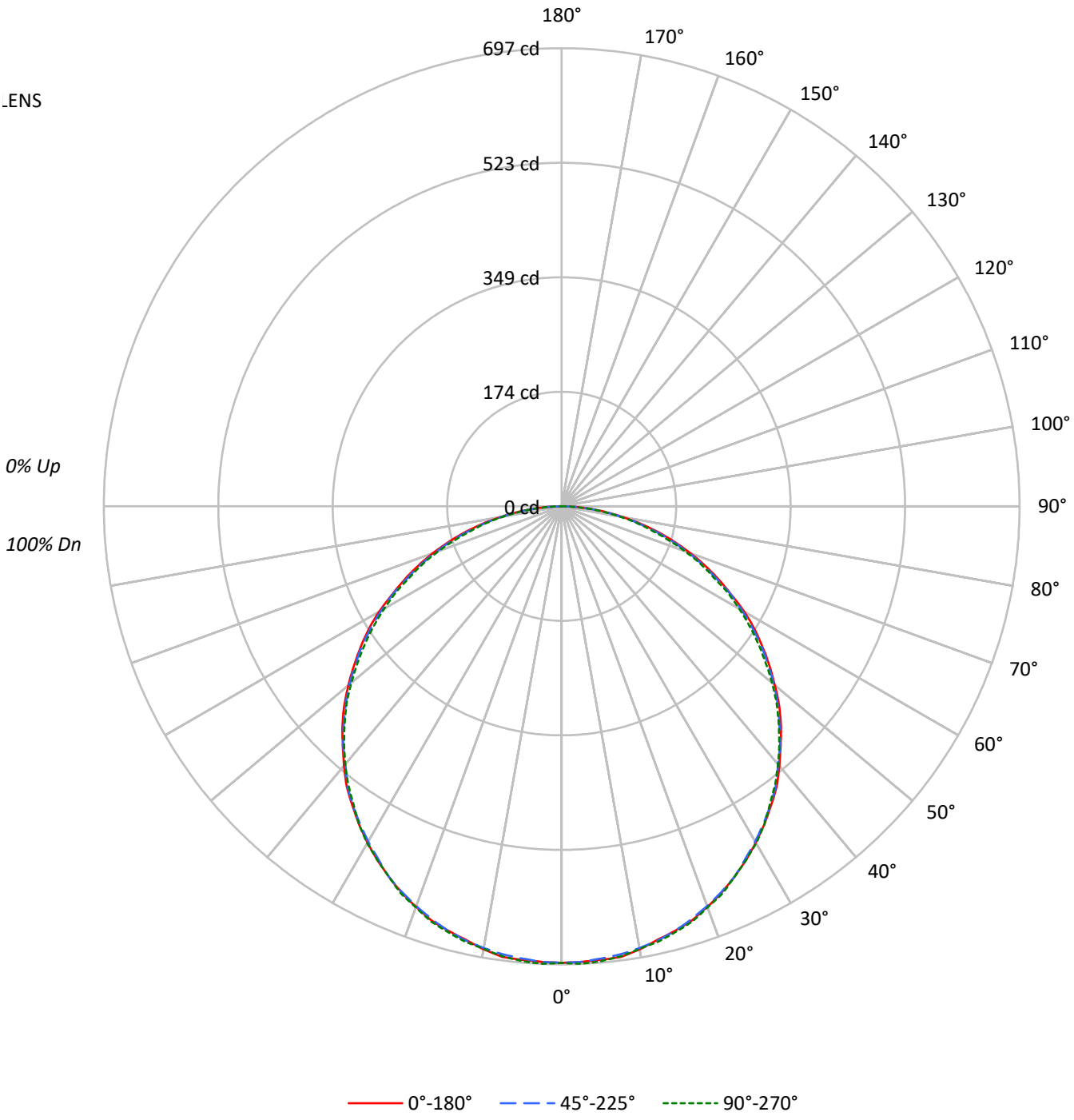


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Scaled Data Report

TEST NUMBER: P1527700
CATALOG NUMBER: 14CGTX-20-B2750-W2A-4000K

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	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	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	32
8	60	46	37	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°	1869	1869	1869
5°	1871	1865	1877
10°	1871	1865	1868
15°	1862	1862	1868
20°	1857	1854	1860
25°	1847	1847	1847
30°	1836	1830	1840
35°	1826	1822	1816
40°	1811	1800	1800
45°	1797	1785	1778
50°	1774	1766	1749
55°	1752	1743	1715
60°	1729	1707	1680
65°	1680	1654	1622
70°	1640	1608	1568
75°	1580	1539	1476
80°	1481	1450	1389
85°	1337	1306	1244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1797 cd/sqm

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Scaled Data Report

TEST NUMBER: P1527700
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.2
10°-20°	188.9	9.2
20°-30°	286.9	14.0
30°-40°	347.1	17.0
40°-50°	362.2	17.7
50°-60°	331.1	16.2
60°-70°	257.9	12.6
70°-80°	156.3	7.6
80°-90°	47.1	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°	541.7	26.5
0°-40°	888.8	43.5
0°-60°	1582.1	77.4
0°-90°	2043.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2043.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	693	693	691	695	695	66
15°	668	670	668	670	670	189
25°	622	621	622	625	622	287
35°	556	555	555	555	553	348
45°	472	472	469	468	467	364
55°	374	374	372	366	366	334
65°	264	264	260	257	255	261
75°	152	151	148	145	142	160
85°	43	44	42	39	40	49
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1527700
CATALOG NUMBER: 14CGTX-20-B2750-W2A-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.7	694.7	694.7	694.7	*694.7*
2.5°	*693.7*	*694.7*	*693.7*	*694.7*	*696.7*
5°	692.6	692.6	690.6	694.7	*694.7*
7.5°	691.6	690.6	687.6	691.6	*690.6*
10°	684.6	683.6	682.6	683.6	*683.6*
12.5°	675.5	678.6	676.5	677.5	*678.6*
15°	668.5	670.5	668.5	670.5	*670.5*
17.5°	660.4	659.4	658.4	661.4	*662.4*
20°	648.4	648.4	647.3	649.4	*649.4*
22.5°	636.3	637.3	635.3	638.3	*638.3*
25°	622.2	621.2	622.2	625.2	*622.2*
27.5°	607.1	607.1	605.1	608.1	*607.1*
30°	591.0	592.0	589.0	591.0	*592.0*
32.5°	573.9	572.8	571.8	574.9	*573.9*
35°	555.7	554.7	554.7	554.7	*552.7*
37.5°	537.6	536.6	535.6	535.6	*533.6*
40°	515.5	515.5	512.4	512.4	*512.4*
42.5°	493.3	493.3	492.3	490.3	*490.3*
45°	472.2	472.2	469.1	468.1	*467.1*
47.5°	449.0	449.0	446.0	445.0	*444.0*
50°	423.8	423.8	421.8	420.8	*417.8*
52.5°	398.7	399.7	395.7	394.6	*391.6*
55°	373.5	373.5	371.5	366.5	*365.5*
57.5°	348.3	347.3	344.3	340.3	*339.3*
60°	321.2	321.2	317.1	314.1	*312.1*
62.5°	291.0	292.0	289.9	285.9	*284.9*
65°	263.8	263.8	259.7	256.7	*254.7*
67.5°	236.6	235.6	232.6	229.5	*228.5*
70°	208.4	208.4	204.4	201.4	*199.3*
72.5°	180.2	178.2	176.2	173.2	*170.1*
75°	152.0	151.0	148.0	145.0	*142.0*
77.5°	123.8	122.8	119.8	117.8	*116.8*
80°	95.6	95.6	93.6	90.6	*89.6*
82.5°	69.5	68.5	67.5	64.4	*64.4*
85°	43.3	44.3	42.3	39.3	*40.3*
87.5°	19.1	19.1	18.1	17.1	*16.1*
90°	0.0	0.0	0.0	0.0	*0.0*

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TEST NUMBER: P1527700
CATALOG NUMBER: 14CGTX-20-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	14.17	15.83	14.54	16.15	16.46	14.02	15.68	14.39	16.00	16.31
	3H	16.10	17.61	16.48	17.93	18.29	15.91	17.42	16.29	17.74	18.10
	4H	16.86	18.28	17.26	18.63	19.01	16.64	18.06	17.03	18.40	18.78
	6H	17.46	18.78	17.87	19.14	19.53	17.20	18.52	17.61	18.89	19.28
	8H	17.67	18.93	18.09	19.31	19.71	17.40	18.66	17.82	19.04	19.44
	12H	17.81	19.02	18.24	19.40	19.83	17.53	18.74	17.96	19.12	19.55
4H	2H	14.82	16.23	15.21	16.58	16.96	14.70	16.12	15.10	16.46	16.84
	3H	16.98	18.17	17.39	18.57	18.97	16.82	18.02	17.23	18.41	18.81
	4H	17.88	18.97	18.31	19.38	19.81	17.68	18.76	18.11	19.18	19.61
	6H	18.62	19.57	19.07	20.01	20.46	18.38	19.33	18.84	19.77	20.23
	8H	18.88	19.77	19.34	20.21	20.68	18.63	19.52	19.09	19.96	20.42
	12H	19.08	19.88	19.56	20.36	20.83	18.81	19.61	19.29	20.09	20.55
8H	4H	18.22	19.11	18.68	19.56	20.02	18.05	18.94	18.51	19.38	19.84
	6H	19.10	19.84	19.59	20.33	20.80	18.89	19.63	19.38	20.11	20.59
	8H	19.45	20.12	19.96	20.62	21.10	19.21	19.88	19.72	20.38	20.87
	12H	19.74	20.33	20.24	20.82	21.38	19.47	20.06	19.98	20.55	21.11
12H	4H	18.27	19.07	18.75	19.54	20.01	18.10	18.90	18.58	19.37	19.84
	6H	19.17	19.84	19.68	20.34	20.83	18.97	19.63	19.47	20.14	20.62
	8H	19.58	20.17	20.09	20.66	21.22	19.36	19.94	19.86	20.43	20.99

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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

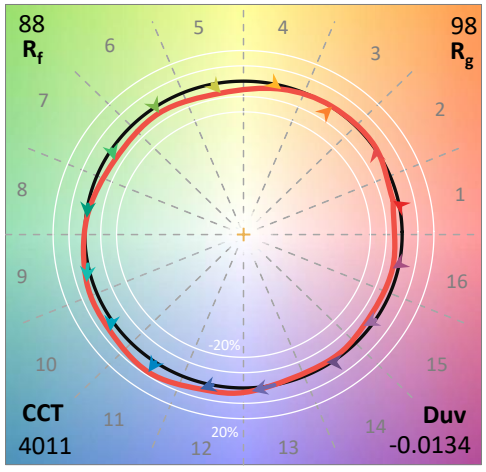
Test Information

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



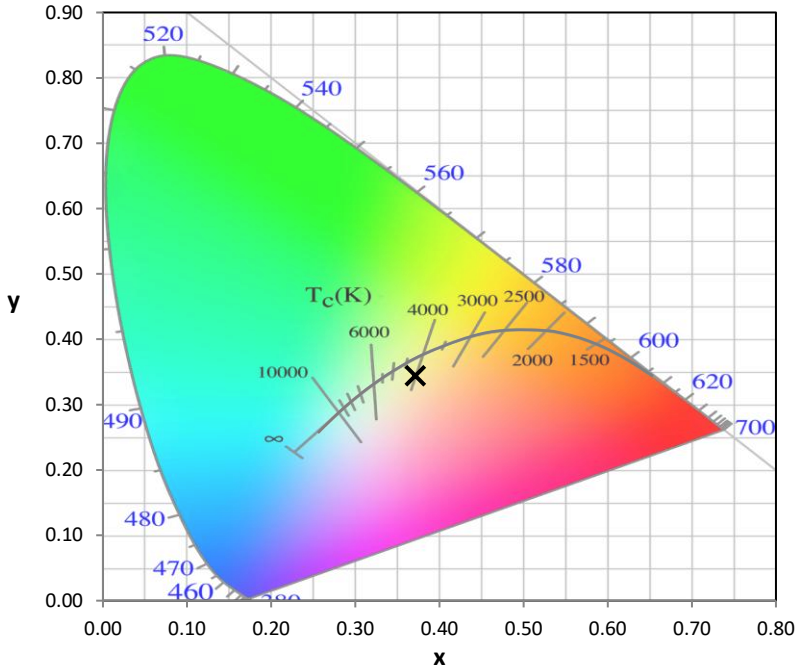
Test Conditions

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

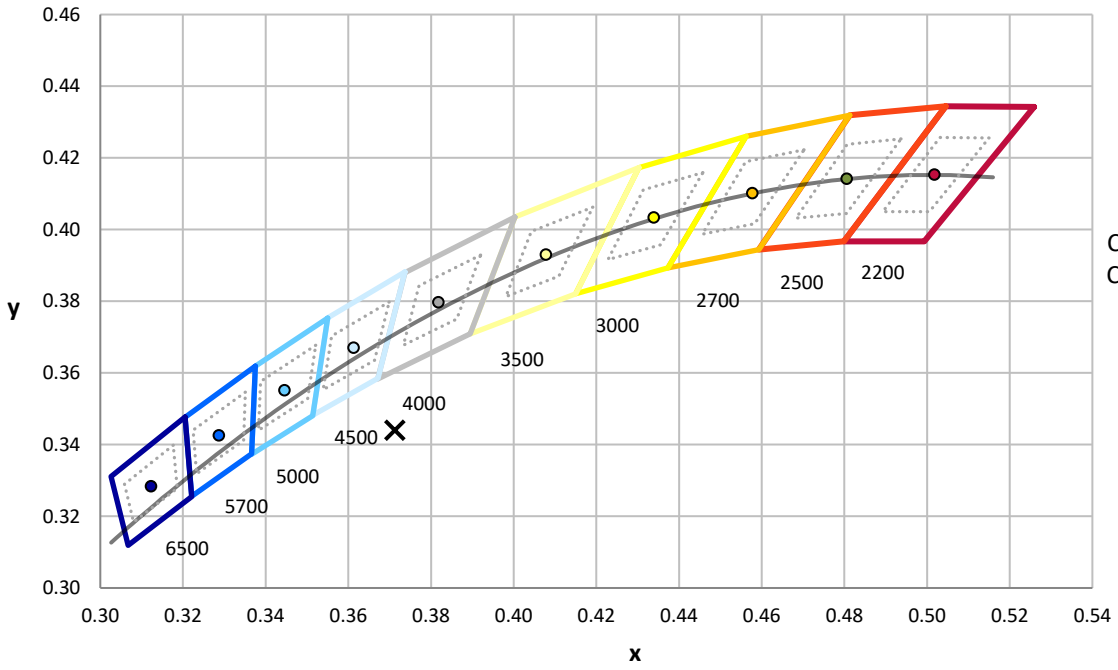
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

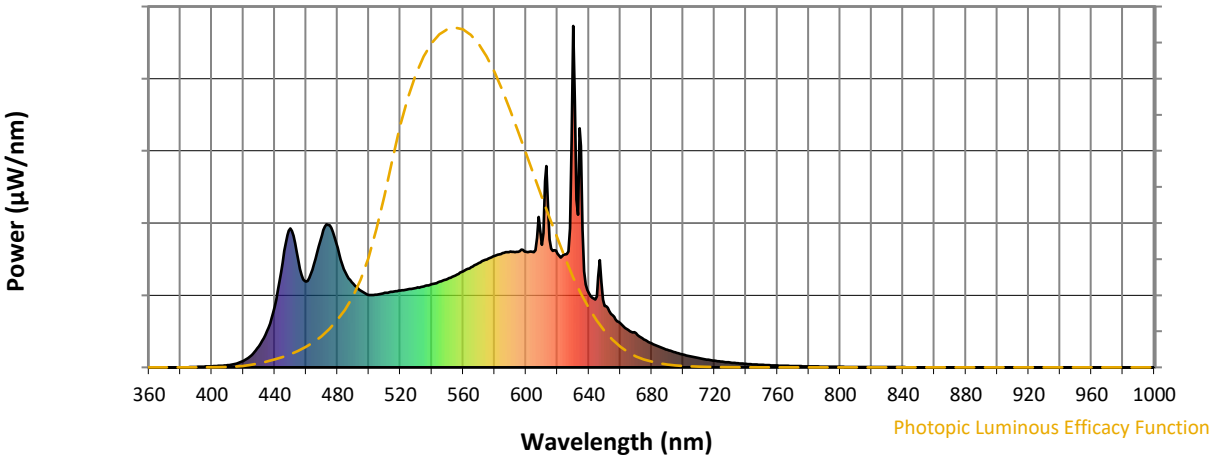


CCT = 4011K
CIE x = 0.3712
CIE y = 0.3440
Duv = -0.0134

Point lies outside the range

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

Photopic Flux vs. Wavelength

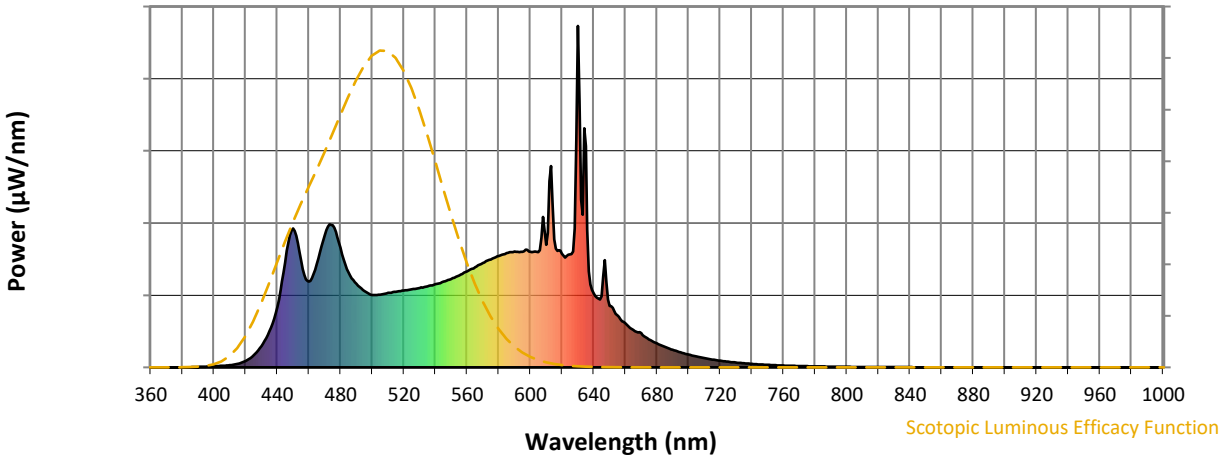


Photopic Lumens: NR

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

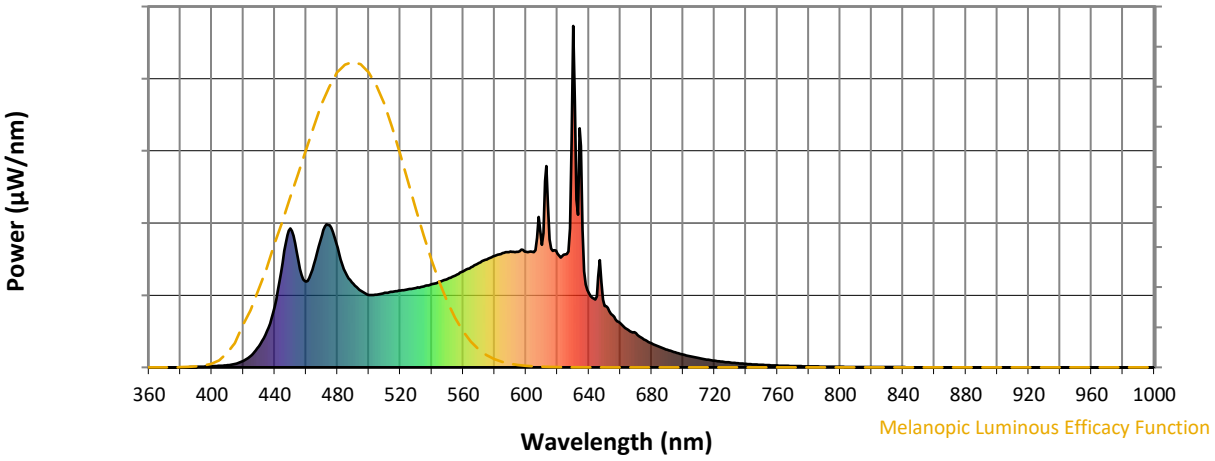


Scotopic Lumens: NR **S/P: 2.01**

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			

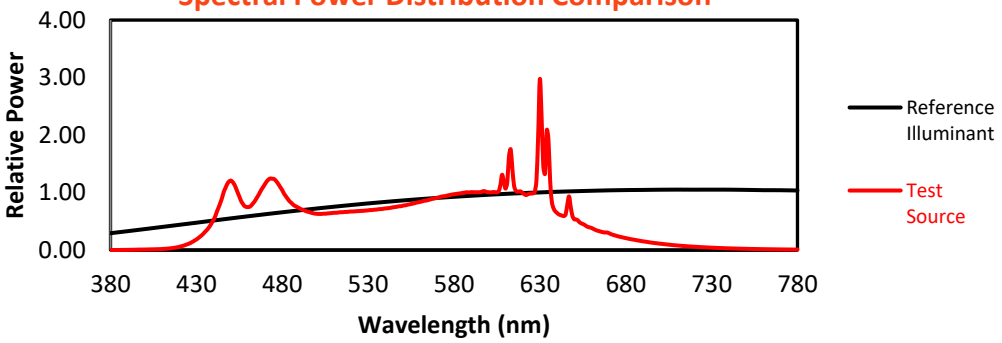
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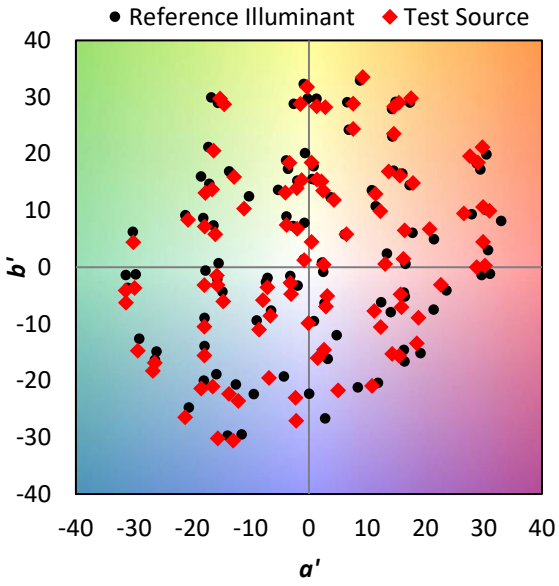
Summary

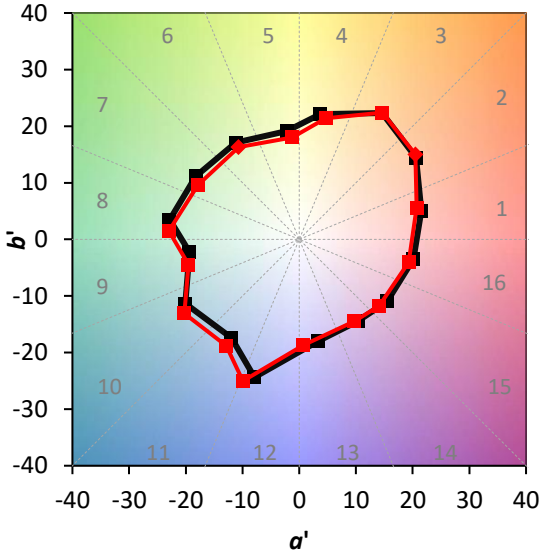
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R_g = 97.6
CIE R_a = 88.2
R_9 = 89.9

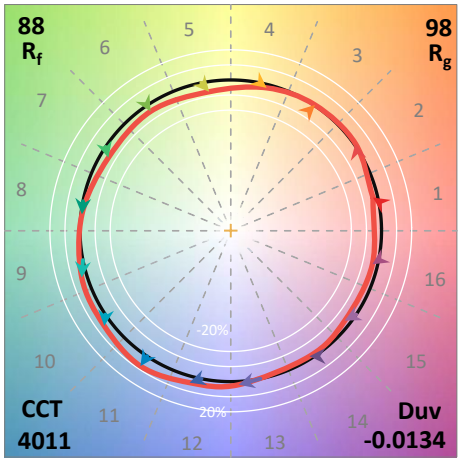
Spectral Power Distribution Comparison

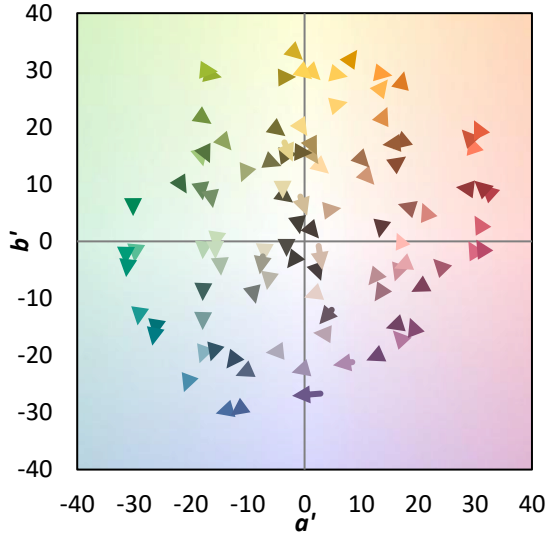


Color Vector Graphics







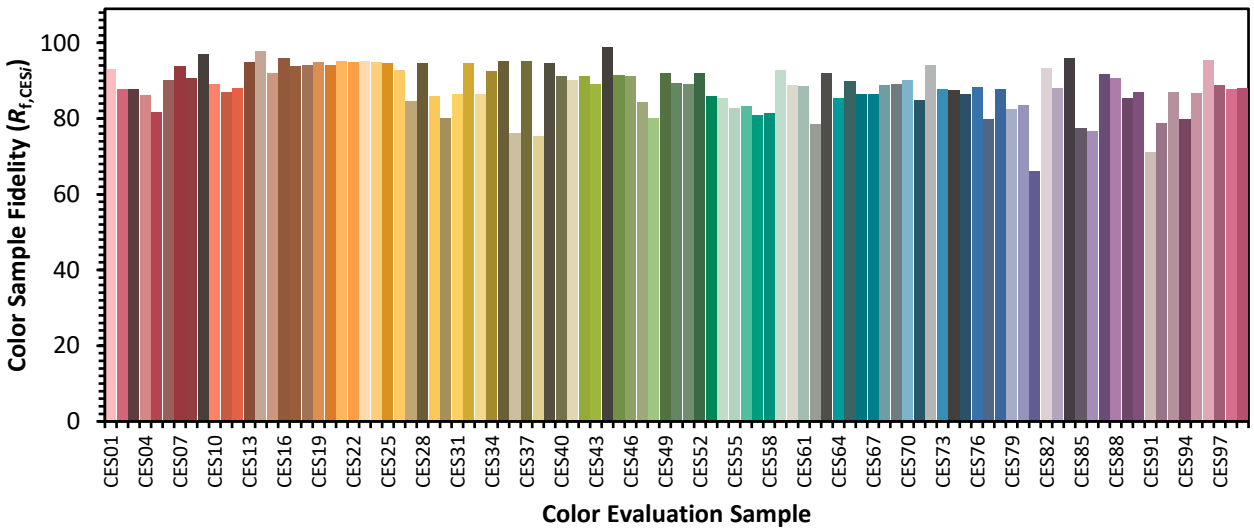


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Individual Sample Fidelity Index ($R_{f,i}$)

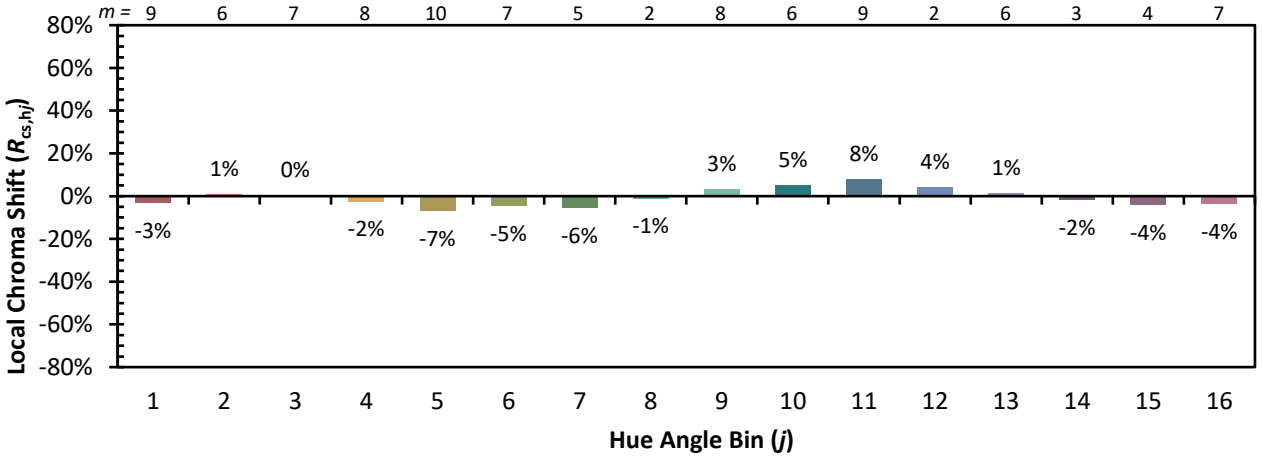
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CES02 = 62	CES27 = 84	CES52 = 92	CES77 = 80
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 88
CES04 = 70	CES29 = 86	CES54 = 85	CES79 = 83
CES05 = 49	CES30 = 80	CES55 = 83	CES80 = 83
CES06 = 51	CES31 = 86	CES56 = 83	CES81 = 66
CES07 = 43	CES32 = 95	CES57 = 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	

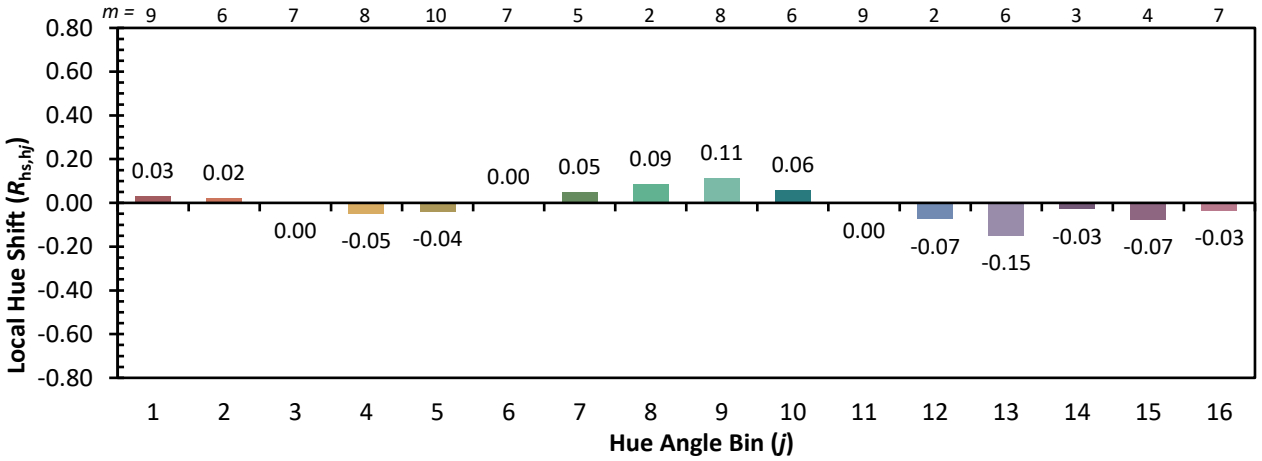


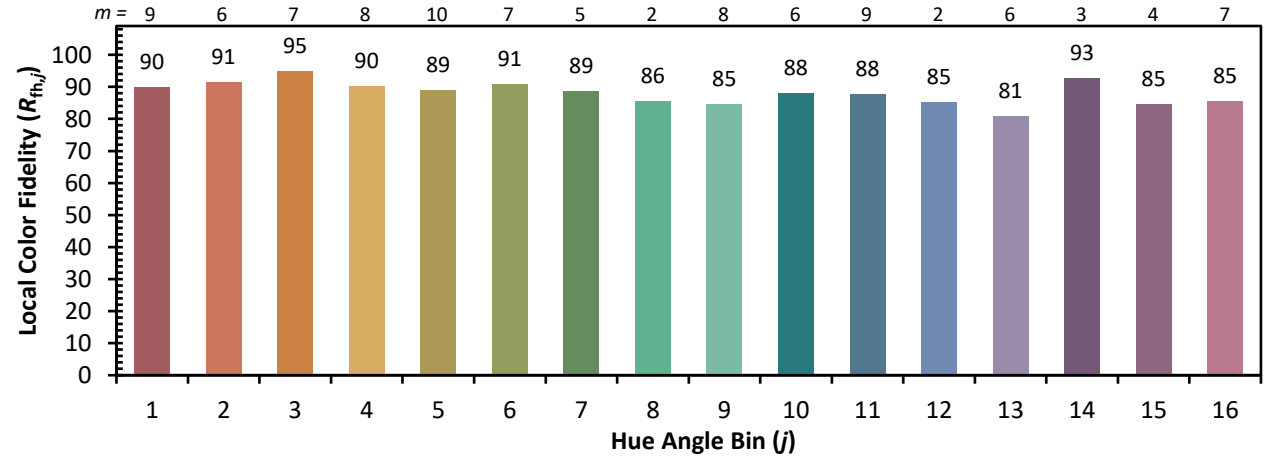
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Color Rendition by Hue-Angle Bin



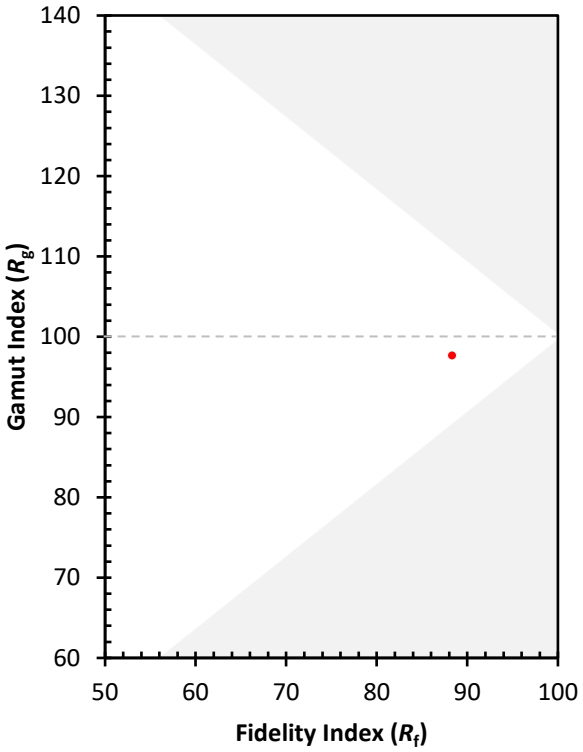


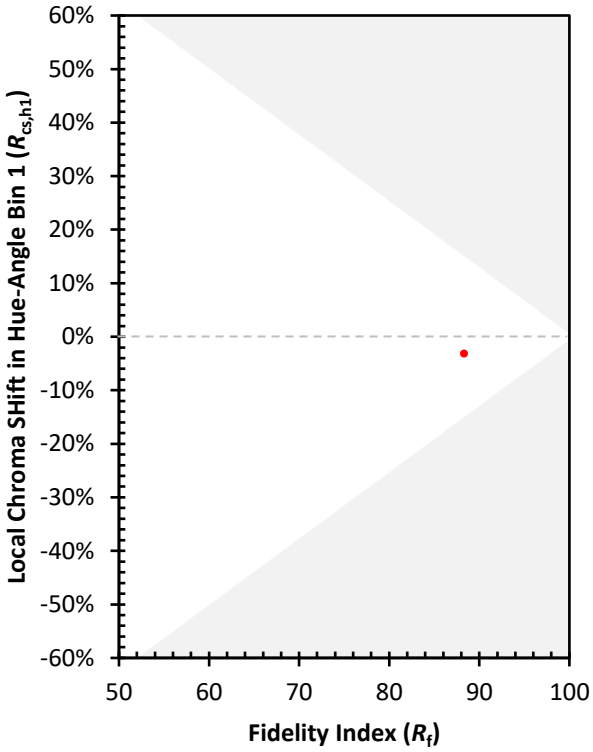


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Measure Comparisons





(END OF REPORT)