Signify Classified - Internal

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: P1590694

Luminaire Tested: 24CGTX-72-B45-HCD2

Issue Date: 9/4/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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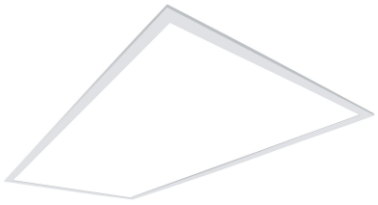
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590694
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/4/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-72-B45-HCD2
Description:	2X4 7200 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 4500K CCT WITH FROSTED SMOOTH LENS
Light Source:	4500K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6896.8 lumens
Efficiency:	N/A
Efficacy:	106.9 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):	64.5
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

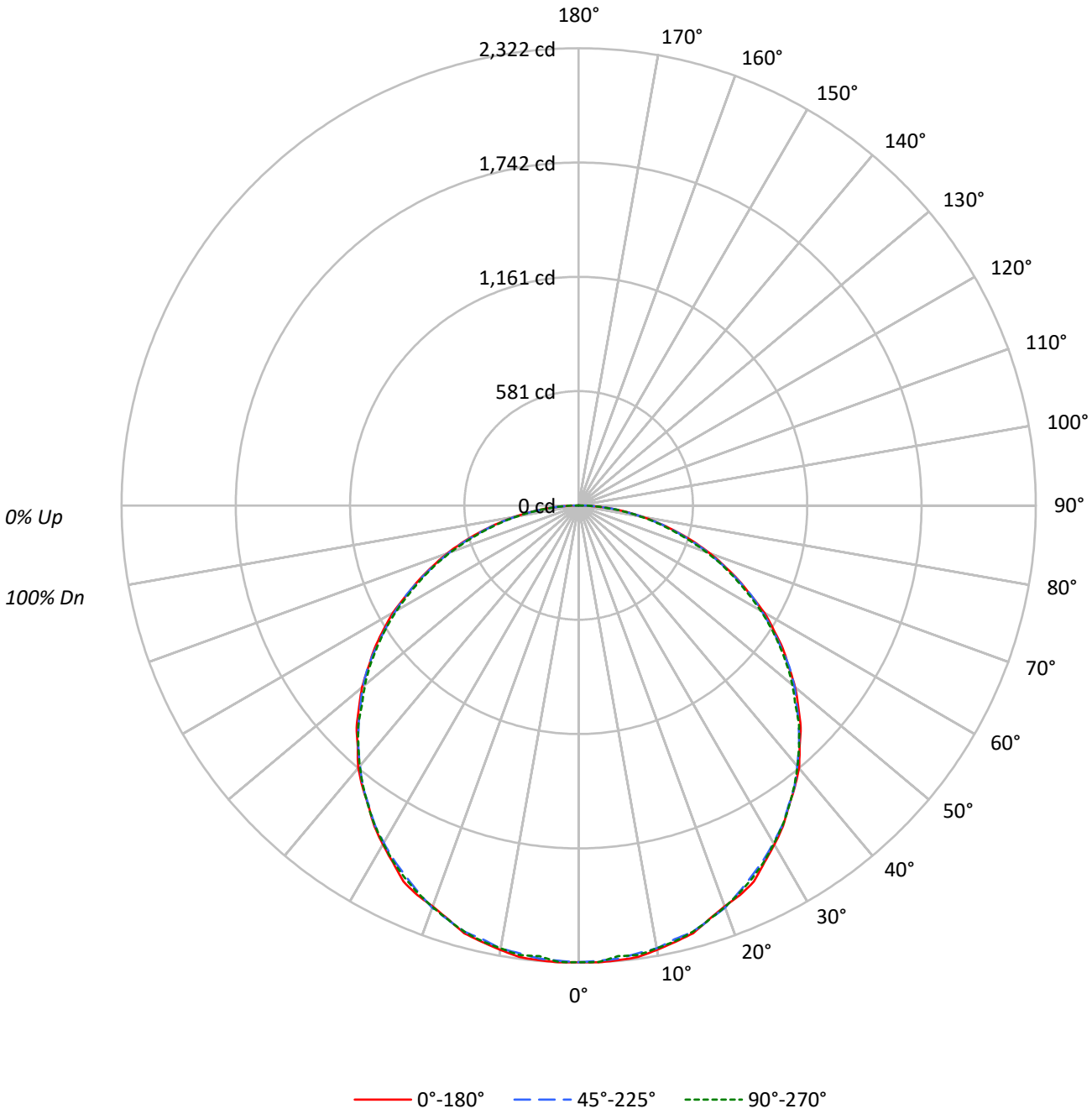


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Scaled Data Report

TEST NUMBER: P1590694
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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	55	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	43	39	37
7	64	50	41	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	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3121	3121	3121
5°	3131	3119	3104
10°	3131	3121	3121
15°	3132	3122	3122
20°	3102	3113	3108
25°	3128	3085	3100
30°	3090	3074	3082
35°	3057	3053	3061
40°	3058	3034	3038
45°	3034	3008	3013
50°	3005	2995	2965
55°	2968	2941	2926
60°	2929	2891	2871
65°	2846	2826	2790
70°	2786	2742	2707
75°	2672	2626	2567
80°	2534	2485	2436
85°	2320	2280	2183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3034 cd/sqm

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TEST NUMBER: P1590694
CATALOG NUMBER: 24CGTX-72-B45-HCD2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	3.2
10°-20°	631.3	9.2
20°-30°	960.6	13.9
30°-40°	1166.5	16.9
40°-50°	1222.5	17.7
50°-60°	1120.7	16.2
60°-70°	876.6	12.7
70°-80°	533.4	7.7
80°-90°	165.5	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°	1811.6	26.3
0°-40°	2978.1	43.2
0°-60°	5321.3	77.2
0°-90°	6896.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6896.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2320	2320	2320	2320	2320	
5°	2318	2314	2309	2309	2298	221
15°	2249	2231	2241	2235	2241	633
25°	2107	2081	2078	2080	2088	966
35°	1861	1871	1859	1862	1864	1169
45°	1595	1583	1581	1582	1583	1228
55°	1265	1252	1254	1245	1248	1129
65°	894	893	888	880	876	885
75°	514	510	505	500	494	543
85°	150	150	148	141	141	168
90°	0	0	0	0	0	

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TEST NUMBER: P1590694
CATALOG NUMBER: 24CGTX-72-B45-HCD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2319.5*	2319.5	2319.5	2319.5	2319.5
2.5°	*2322.0*	*2315.7*	*2314.4*	*2305.6*	*2320.7*
5°	*2318.2*	2314.4	2309.4	2309.4	2298.0
7.5°	*2313.2*	2303.1	2294.2	2296.7	2303.1
10°	*2291.7*	2282.9	2284.1	2271.5	2284.1
12.5°	*2270.2*	2263.9	2256.3	2262.6	2266.4
15°	*2248.8*	2231.1	2241.2	2234.9	2241.2
17.5°	*2203.3*	2207.1	2205.8	2198.3	2205.8
20°	*2166.7*	2176.8	2174.3	2166.7	2170.5
22.5°	*2141.4*	2127.5	2126.3	2127.5	2131.3
25°	*2107.3*	2080.8	2078.3	2079.6	2088.4
27.5°	*2043.0*	2035.4	2031.6	2030.3	2039.2
30°	*1988.7*	1978.6	1978.6	1977.3	1983.6
32.5°	*1931.8*	1926.8	1925.5	1926.8	1926.8
35°	*1861.1*	1871.2	1858.6	1862.4	1863.7
37.5°	*1803.0*	1806.8	1800.5	1795.5	1798.0
40°	*1741.2*	1732.3	1727.3	1727.3	1729.8
42.5°	*1661.6*	1669.2	1656.6	1664.2	1656.6
45°	*1594.7*	1583.3	1580.8	1582.1	1583.3
47.5°	*1512.6*	1506.3	1502.5	1511.4	1491.2
50°	*1435.6*	1429.3	1430.6	1425.5	1416.7
52.5°	*1344.7*	1340.9	1348.5	1339.7	1334.6
55°	*1265.2*	1252.5	1253.8	1245.0	1247.5
57.5°	*1174.3*	1170.5	1161.6	1161.6	1159.1
60°	*1088.4*	1074.5	1074.5	1069.5	1066.9
62.5°	*983.6*	982.3	988.6	978.5	969.7
65°	*893.9*	892.7	887.6	880.1	876.3
67.5°	*799.3*	792.9	790.4	781.6	786.6
70°	*708.3*	699.5	697.0	686.9	688.1
72.5°	*611.1*	603.5	601.0	589.7	588.4
75°	*513.9*	510.1	505.1	500.0	493.7
77.5°	*416.7*	415.4	416.7	402.8	404.0
80°	*327.0*	325.8	320.7	313.1	314.4
82.5°	*234.9*	234.9	232.3	228.5	224.7
85°	*150.3*	150.3	147.7	141.4	141.4
87.5°	*68.2*	69.4	72.0	72.0	70.7
90°	*0.0*	0.0	0.0	0.0	0.0

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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	15.97	17.64	16.34	17.95	18.26	15.91	17.58	16.28	17.89	18.20
	3H	17.91	19.42	18.28	19.74	20.10	17.82	19.33	18.19	19.65	20.01
	4H	18.67	20.10	19.07	20.45	20.82	18.56	19.98	18.95	20.33	20.70
	6H	19.27	20.60	19.69	20.96	21.35	19.14	20.46	19.55	20.82	21.21
	8H	19.48	20.75	19.91	21.14	21.54	19.34	20.60	19.76	20.99	21.39
	12H	19.64	20.85	20.07	21.23	21.66	19.48	20.69	19.91	21.07	21.50
4H	2H	16.64	18.06	17.03	18.41	18.78	16.59	18.01	16.99	18.36	18.74
	3H	18.80	20.00	19.21	20.39	20.79	18.72	19.92	19.13	20.32	20.71
	4H	19.70	20.79	20.13	21.20	21.64	19.60	20.68	20.03	21.10	21.53
	6H	20.45	21.40	20.90	21.84	22.29	20.31	21.27	20.77	21.71	22.16
	8H	20.71	21.61	21.17	22.05	22.51	20.57	21.46	21.03	21.90	22.37
	12H	20.92	21.72	21.40	22.20	22.67	20.76	21.57	21.24	22.04	22.51
8H	4H	20.06	20.95	20.52	21.39	21.86	19.96	20.86	20.42	21.30	21.76
	6H	20.94	21.69	21.43	22.17	22.65	20.82	21.56	21.31	22.05	22.52
	8H	21.29	21.96	21.80	22.47	22.95	21.16	21.83	21.66	22.33	22.82
	12H	21.59	22.18	22.10	22.67	23.23	21.44	22.03	21.94	22.52	23.08
12H	4H	20.10	20.91	20.58	21.38	21.85	20.02	20.82	20.49	21.29	21.76
	6H	21.01	21.69	21.52	22.19	22.67	20.90	21.57	21.40	22.07	22.56
	8H	21.43	22.03	21.94	22.52	23.08	21.30	21.90	21.81	22.39	22.95

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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: SP1-2510-581-4-R2

Test Date: 01/21/2026

Luminaire Tested: 24CGTX-55-B45-HCD

Data in this report applies to families of products including 24CGTX-55HE

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

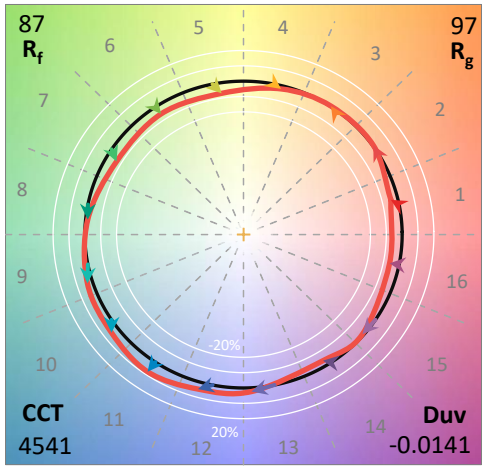
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-581-4-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-B45-HCD**
Description:	*THIS IS A REVISION OF REPORT SP1-2510-581-4-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 CGTX 5500 lumen with BioUp Boards with fixed CCT 4500K - Control Volatge at 3V

Spectral Parameters

CCT (K):	4541
CIE u':	0.2259
CIE v':	0.4759
Duv:	-0.0141
CIE x:	0.3541
CIE y:	0.3316
CIE z:	0.3143
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	622
Purity:	5.72732
Rf:	87.2
Rg:	96.7

CRI (Ra):	86.3
R1:	91.4
R2:	86.5
R3:	84.4
R4:	88.4
R5:	89.6
R6:	80.7
R7:	83.3
R8:	86.2
R9:	86.2
R10:	74.5
R11:	89.9
R12:	69.8
R13:	89.5
R14:	92.9
R15:	92.2



Test Conditions

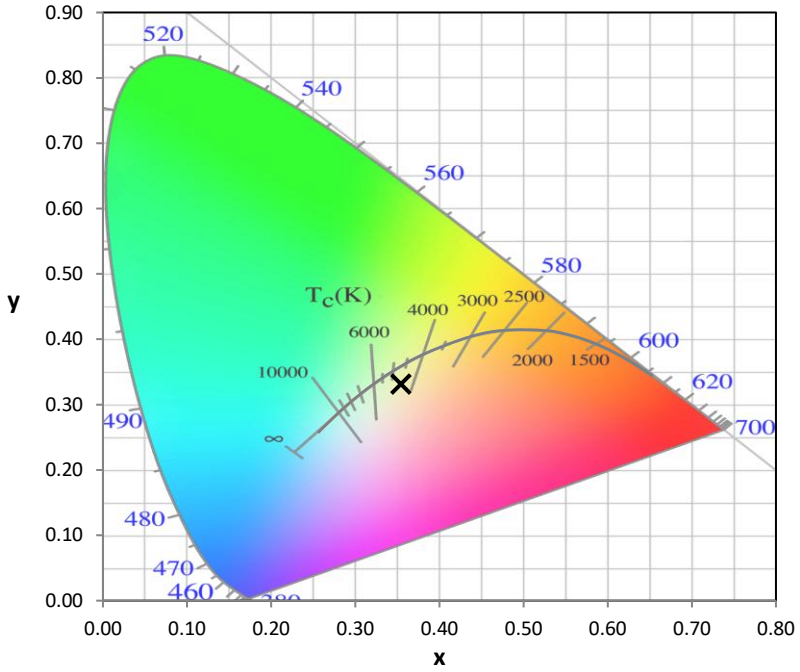
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2510-581-4-R2

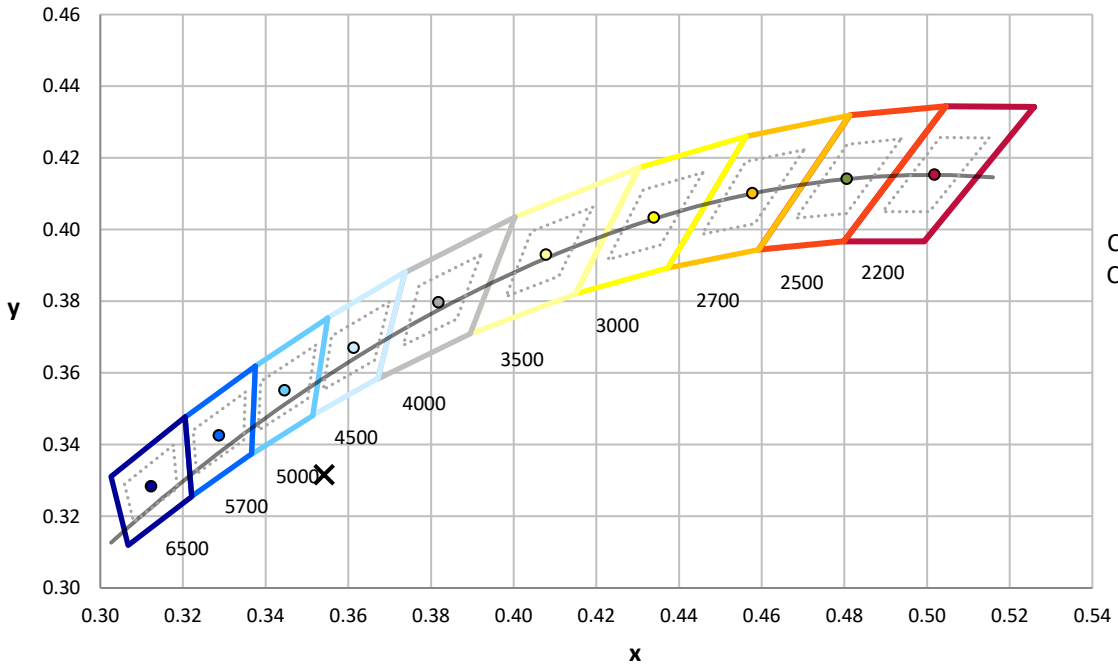
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2510-581-4-R2

CIE 1931 Chromaticity Diagram



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

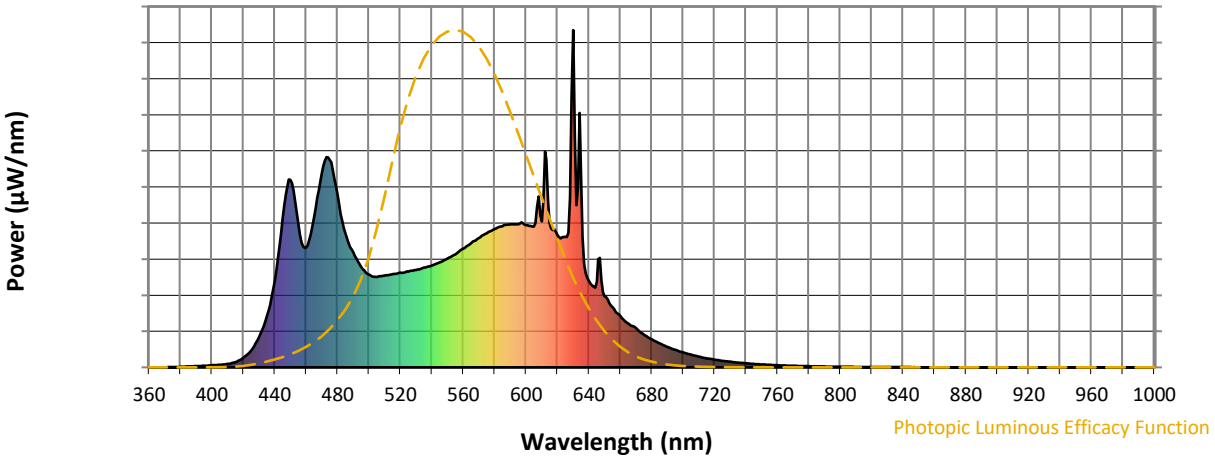


CCT = 4541K
CIE x = 0.3541
CIE y = 0.3316
Duv = -0.0141

Point lies outside the range

REPORT NUMBER: SP1-2510-581-4-R2

Photopic Flux vs. Wavelength

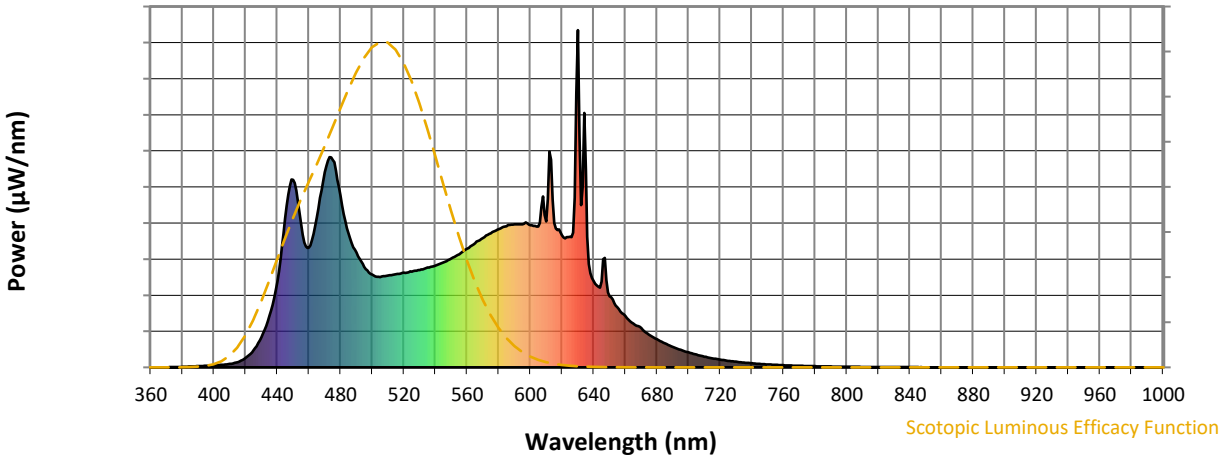


Photopic Lumens: NR

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	341	NR	620	392	NR	750	9	NR	880	0	NR
365	0	NR	495	298	NR	625	387	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	267	NR	635	584	NR	765	5	NR	895	0	NR
380	2	NR	510	272	NR	640	256	NR	770	5	NR	900	0	NR
385	2	NR	515	276	NR	645	254	NR	775	4	NR	905	0	NR
390	3	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	5	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	6	NR	530	289	NR	660	152	NR	790	2	NR	920	0	NR
405	8	NR	535	296	NR	665	130	NR	795	2	NR	925	0	NR
410	10	NR	540	301	NR	670	117	NR	800	2	NR	930	0	NR
415	16	NR	545	312	NR	675	97	NR	805	2	NR	935	0	NR
420	28	NR	550	323	NR	680	83	NR	810	1	NR	940	0	NR
425	51	NR	555	335	NR	685	71	NR	815	1	NR	945	0	NR
430	89	NR	560	352	NR	690	61	NR	820	1	NR	950	0	NR
435	153	NR	565	368	NR	695	52	NR	825	1	NR	955	0	NR
440	254	NR	570	384	NR	700	44	NR	830	1	NR	960	0	NR
445	443	NR	575	398	NR	705	38	NR	835	1	NR	965	0	NR
450	556	NR	580	410	NR	710	32	NR	840	1	NR	970	0	NR
455	426	NR	585	419	NR	715	27	NR	845	1	NR	975	0	NR
460	355	NR	590	424	NR	720	23	NR	850	0	NR	980	0	NR
465	444	NR	595	424	NR	725	19	NR	855	0	NR	985	0	NR
470	579	NR	600	422	NR	730	17	NR	860	0	NR	990	0	NR
475	615	NR	605	418	NR	735	14	NR	865	0	NR	995	0	NR
480	510	NR	610	433	NR	740	12	NR	870	0	NR	1000	0	NR
485	398	NR	615	428	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2510-581-4-R2

Scotopic Flux vs. Wavelength

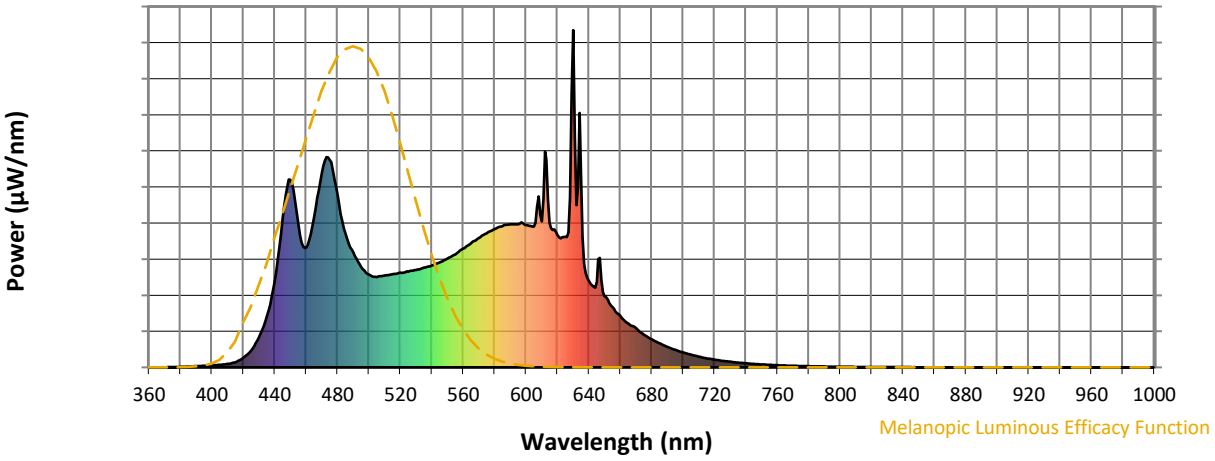


Scotopic Lumens: NR **S/P: 2.17**

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	341	NR	620	392	NR	750	9	NR	880	0	NR
365	0	NR	495	298	NR	625	387	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	267	NR	635	584	NR	765	5	NR	895	0	NR
380	2	NR	510	272	NR	640	256	NR	770	5	NR	900	0	NR
385	2	NR	515	276	NR	645	254	NR	775	4	NR	905	0	NR
390	3	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	5	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	6	NR	530	289	NR	660	152	NR	790	2	NR	920	0	NR
405	8	NR	535	296	NR	665	130	NR	795	2	NR	925	0	NR
410	10	NR	540	301	NR	670	117	NR	800	2	NR	930	0	NR
415	16	NR	545	312	NR	675	97	NR	805	2	NR	935	0	NR
420	28	NR	550	323	NR	680	83	NR	810	1	NR	940	0	NR
425	51	NR	555	335	NR	685	71	NR	815	1	NR	945	0	NR
430	89	NR	560	352	NR	690	61	NR	820	1	NR	950	0	NR
435	153	NR	565	368	NR	695	52	NR	825	1	NR	955	0	NR
440	254	NR	570	384	NR	700	44	NR	830	1	NR	960	0	NR
445	443	NR	575	398	NR	705	38	NR	835	1	NR	965	0	NR
450	556	NR	580	410	NR	710	32	NR	840	1	NR	970	0	NR
455	426	NR	585	419	NR	715	27	NR	845	1	NR	975	0	NR
460	355	NR	590	424	NR	720	23	NR	850	0	NR	980	0	NR
465	444	NR	595	424	NR	725	19	NR	855	0	NR	985	0	NR
470	579	NR	600	422	NR	730	17	NR	860	0	NR	990	0	NR
475	615	NR	605	418	NR	735	14	NR	865	0	NR	995	0	NR
480	510	NR	610	433	NR	740	12	NR	870	0	NR	1000	0	NR
485	398	NR	615	428	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 5.01**

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	341	NR	620	392	NR	750	9	NR	880	0	NR
365	0	NR	495	298	NR	625	387	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	267	NR	635	584	NR	765	5	NR	895	0	NR
380	2	NR	510	272	NR	640	256	NR	770	5	NR	900	0	NR
385	2	NR	515	276	NR	645	254	NR	775	4	NR	905	0	NR
390	3	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	5	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	6	NR	530	289	NR	660	152	NR	790	2	NR	920	0	NR
405	8	NR	535	296	NR	665	130	NR	795	2	NR	925	0	NR
410	10	NR	540	301	NR	670	117	NR	800	2	NR	930	0	NR
415	16	NR	545	312	NR	675	97	NR	805	2	NR	935	0	NR
420	28	NR	550	323	NR	680	83	NR	810	1	NR	940	0	NR
425	51	NR	555	335	NR	685	71	NR	815	1	NR	945	0	NR
430	89	NR	560	352	NR	690	61	NR	820	1	NR	950	0	NR
435	153	NR	565	368	NR	695	52	NR	825	1	NR	955	0	NR
440	254	NR	570	384	NR	700	44	NR	830	1	NR	960	0	NR
445	443	NR	575	398	NR	705	38	NR	835	1	NR	965	0	NR
450	556	NR	580	410	NR	710	32	NR	840	1	NR	970	0	NR
455	426	NR	585	419	NR	715	27	NR	845	1	NR	975	0	NR
460	355	NR	590	424	NR	720	23	NR	850	0	NR	980	0	NR
465	444	NR	595	424	NR	725	19	NR	855	0	NR	985	0	NR
470	579	NR	600	422	NR	730	17	NR	860	0	NR	990	0	NR
475	615	NR	605	418	NR	735	14	NR	865	0	NR	995	0	NR
480	510	NR	610	433	NR	740	12	NR	870	0	NR	1000	0	NR
485	398	NR	615	428	NR	745	10	NR	875	0	NR			

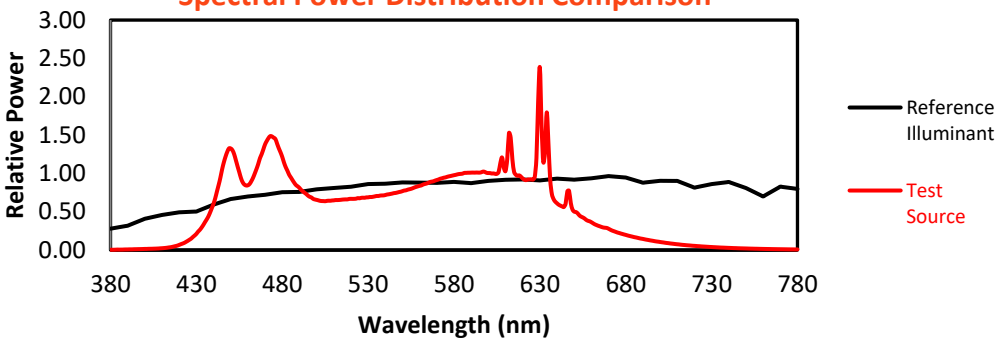
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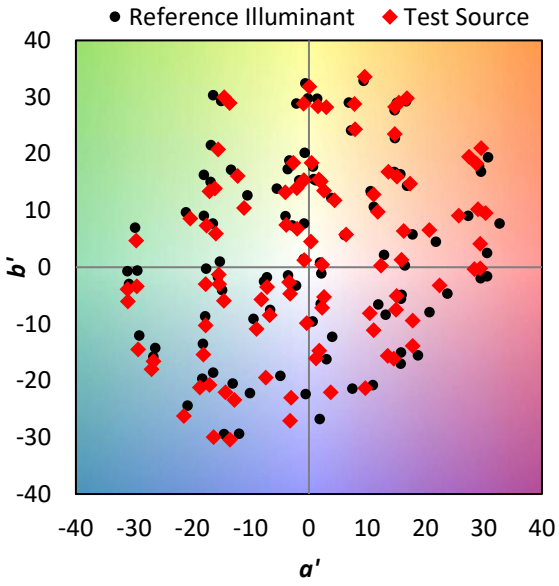
Summary

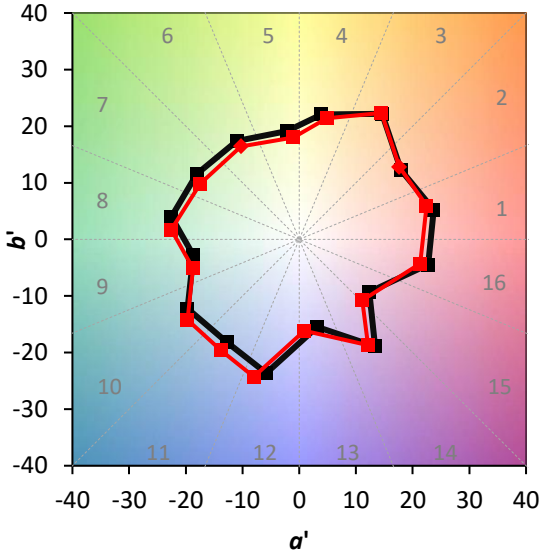
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R_g = 96.7
CIE R_a = 86.3
R_9 = 86.2

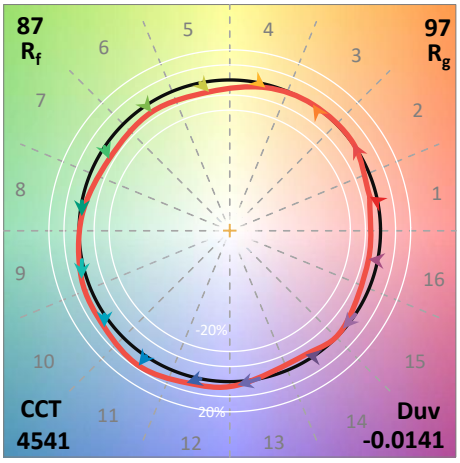
Spectral Power Distribution Comparison

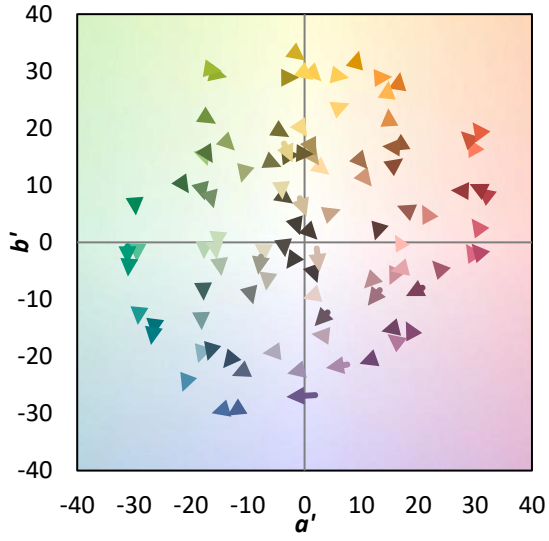


Color Vector Graphics







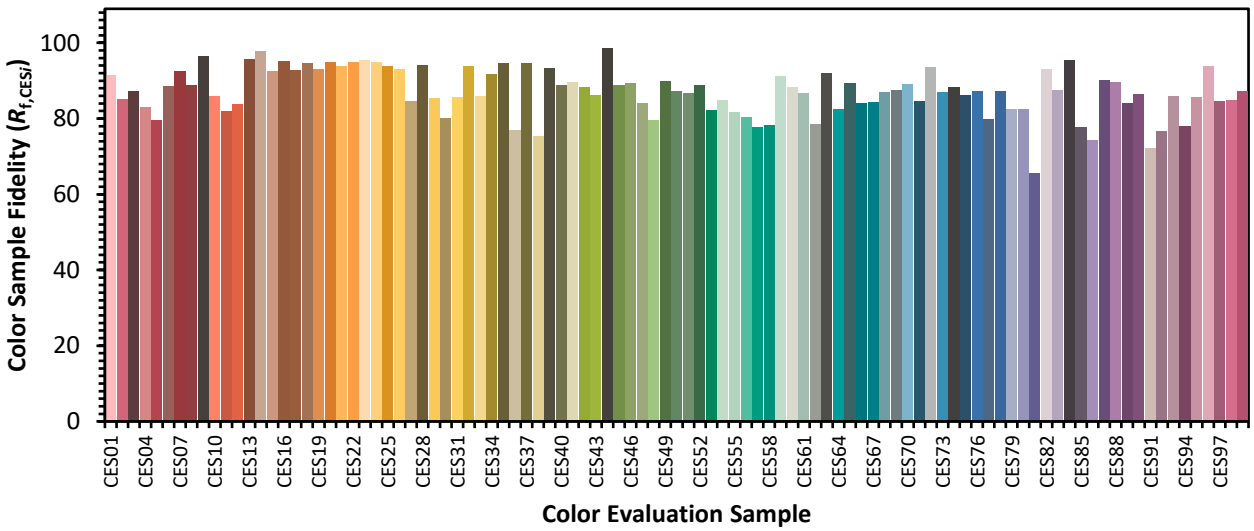


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Individual Sample Fidelity Index ($R_{f,i}$)

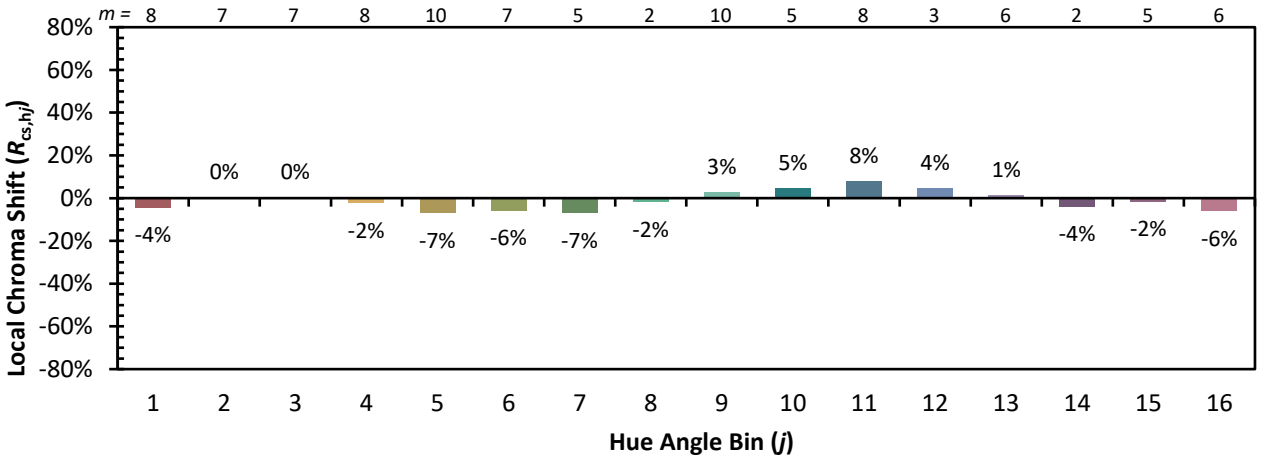
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CES02 = 62	CES27 = 85	CES52 = 89	CES77 = 80
CES03 = 31	CES28 = 94	CES53 = 82	CES78 = 87
CES04 = 69	CES29 = 85	CES54 = 85	CES79 = 83
CES05 = 49	CES30 = 80	CES55 = 82	CES80 = 83
CES06 = 50	CES31 = 86	CES56 = 80	CES81 = 66
CES07 = 42	CES32 = 94	CES57 = 78	CES82 = 93
CES08 = 41	CES33 = 86	CES58 = 78	CES83 = 88
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 96
CES10 = 75	CES35 = 95	CES60 = 88	CES85 = 78
CES11 = 57	CES36 = 77	CES61 = 87	CES86 = 74
CES12 = 63	CES37 = 95	CES62 = 79	CES87 = 90
CES13 = 43	CES38 = 75	CES63 = 92	CES88 = 90
CES14 = 74	CES39 = 93	CES64 = 82	CES89 = 84
CES15 = 71	CES40 = 89	CES65 = 89	CES90 = 87
CES16 = 47	CES41 = 90	CES66 = 84	CES91 = 72
CES17 = 49	CES42 = 88	CES67 = 84	CES92 = 77
CES18 = 56	CES43 = 86	CES68 = 87	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 78
CES20 = 66	CES45 = 89	CES70 = 89	CES95 = 86
CES21 = 85	CES46 = 89	CES71 = 85	CES96 = 94
CES22 = 78	CES47 = 84	CES72 = 94	CES97 = 85
CES23 = 91	CES48 = 79	CES73 = 87	CES98 = 85
CES24 = 90	CES49 = 90	CES74 = 88	CES99 = 87
CES25 = 71	CES50 = 87	CES75 = 86	

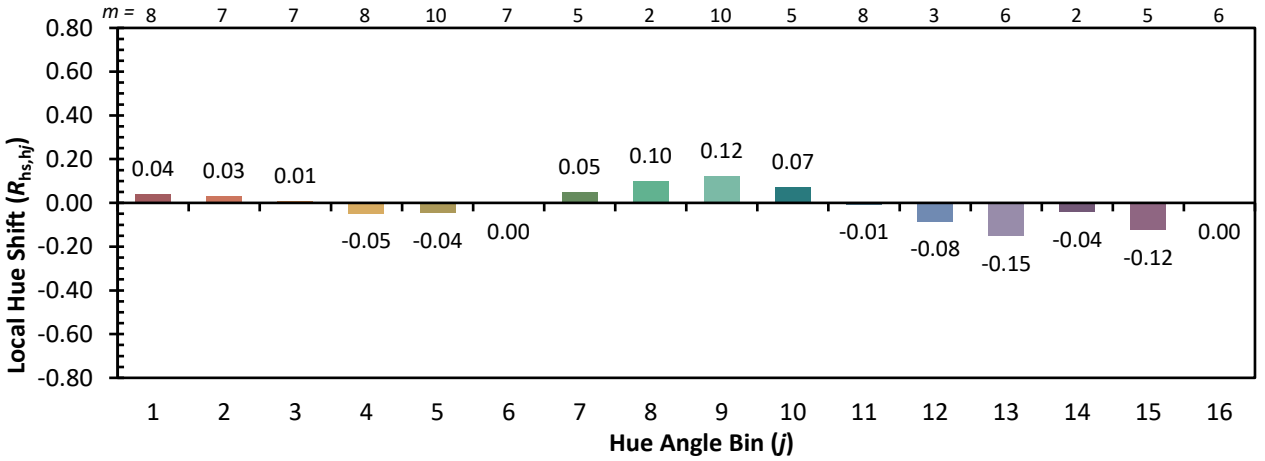


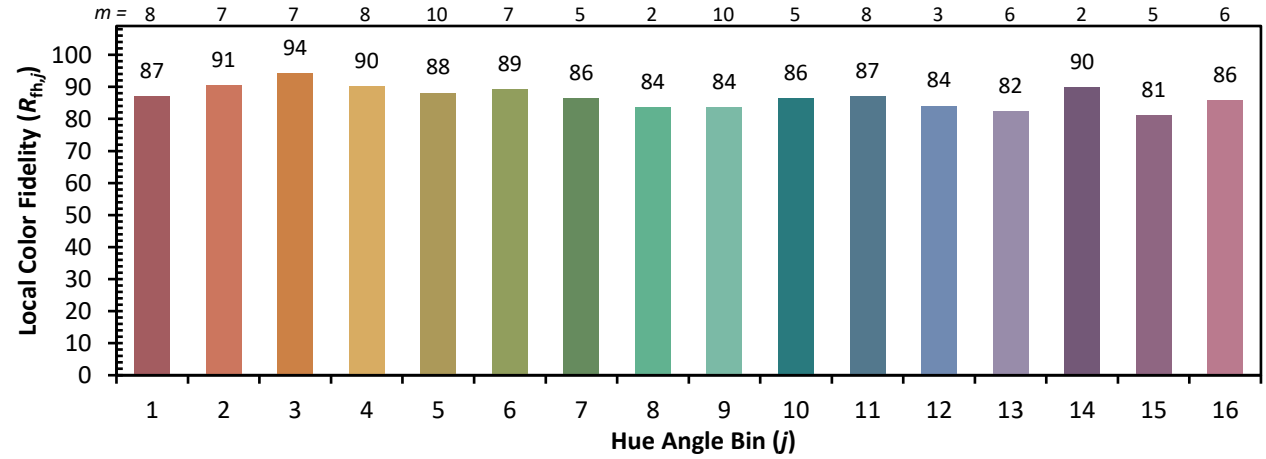
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Color Rendition by Hue-Angle Bin



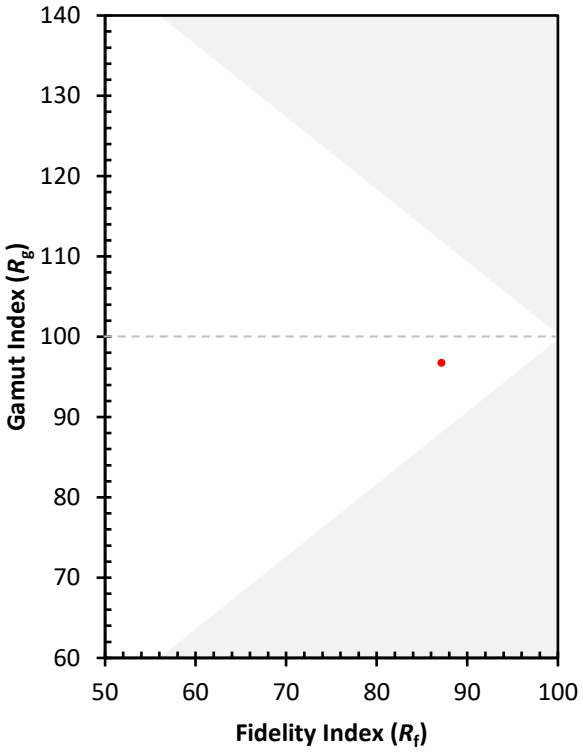


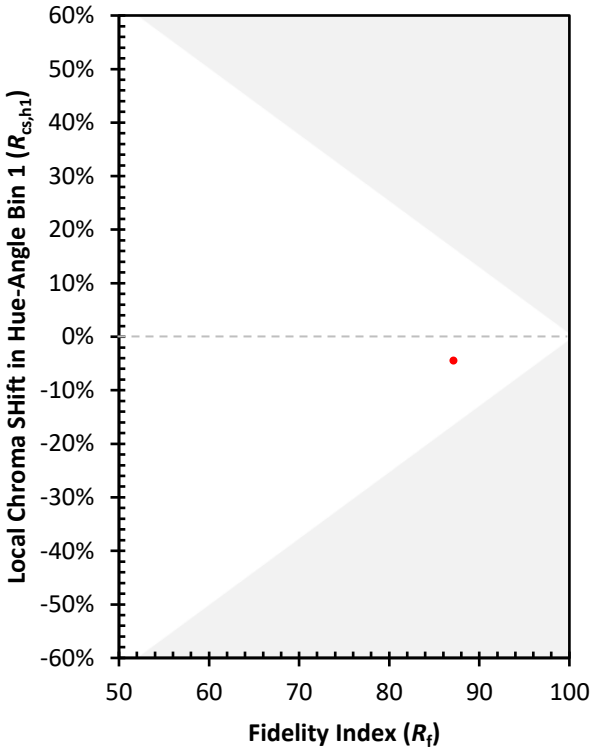


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Measure Comparisons





(END OF REPORT)