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: P1590785

Luminaire Tested: 24CGTX-40-L92765-W2A-3000K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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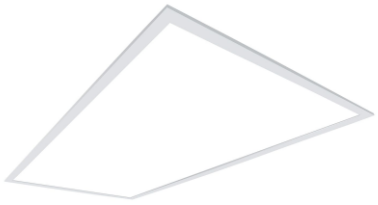
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590785
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-586-7)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-40-L92765-W2A-3000K
Description:	2X4 4000 LUMEN CGTX TROFFER WITH VividTune LEDS AT 3000K CCT WITH FROSTED SMOOTH LENS
Light Source:	3000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4586.1 lumens
Efficiency:	N/A
Efficacy:	113.5 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):	40.4
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

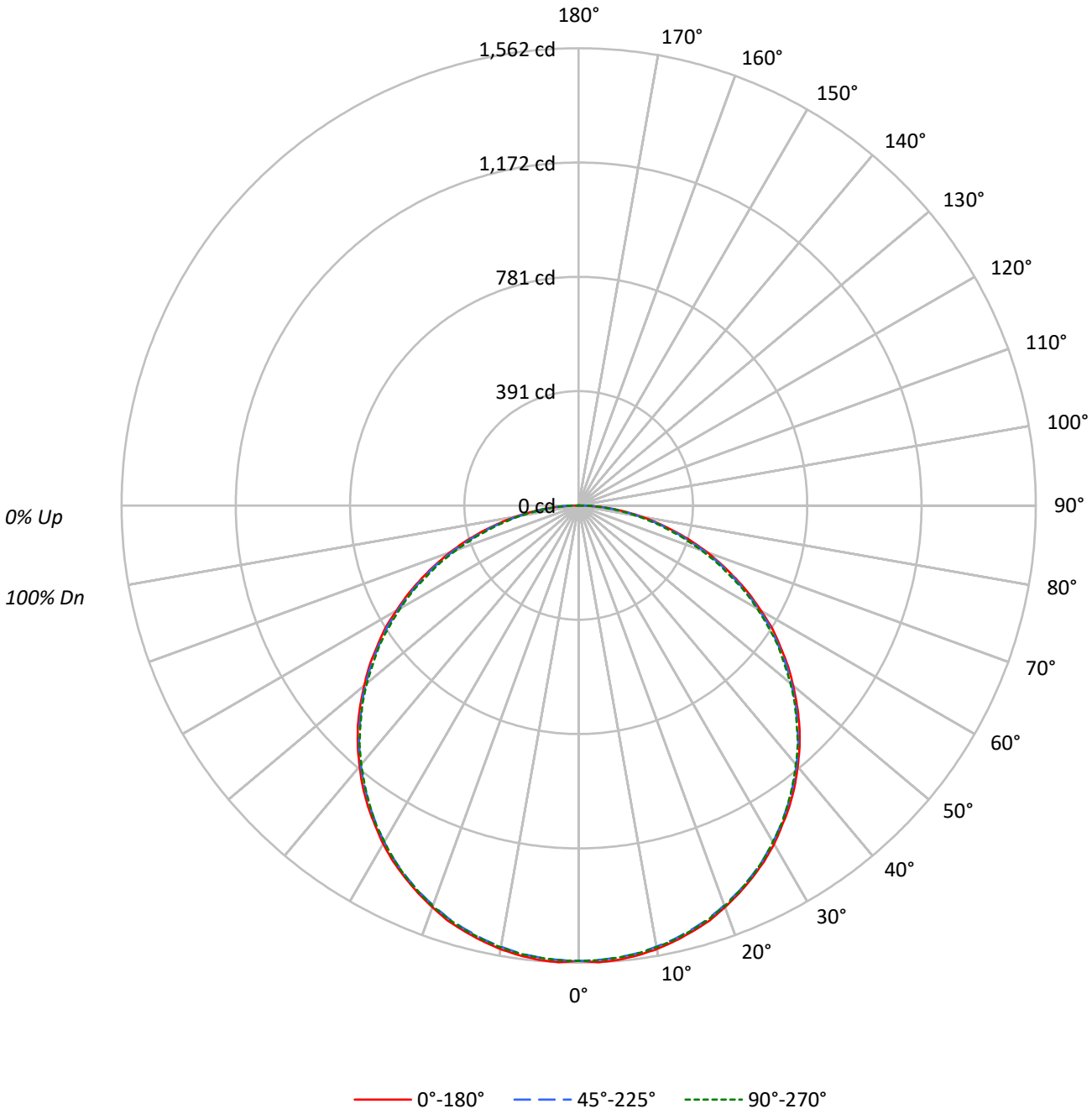


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TEST NUMBER: P1590785
CATALOG NUMBER: 24CGTX-40-L92765-W2A-3000K

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	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	33
8	60	46	38	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	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2094	2094	2094
5°	2105	2094	2095
10°	2103	2091	2094
15°	2098	2087	2091
20°	2092	2082	2086
25°	2083	2074	2077
30°	2075	2064	2062
35°	2062	2048	2047
40°	2045	2034	2029
45°	2030	2011	2005
50°	2002	1987	1976
55°	1973	1954	1946
60°	1936	1911	1895
65°	1887	1861	1826
70°	1833	1793	1745
75°	1749	1701	1633
80°	1664	1585	1531
85°	1518	1454	1360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2030 cd/sqm

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TEST NUMBER: P1590785
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.2
10°-20°	423.5	9.2
20°-30°	644.4	14.1
30°-40°	780.7	17.0
40°-50°	816.2	17.8
50°-60°	745.1	16.2
60°-70°	577.7	12.6
70°-80°	346.1	7.5
80°-90°	105.0	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°	1215.4	26.5
0°-40°	1996.1	43.5
0°-60°	3557.4	77.6
0°-90°	4586.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1558	1553	1550	1547	1551	148
15°	1506	1500	1498	1497	1501	425
25°	1403	1399	1397	1395	1399	647
35°	1255	1250	1247	1243	1246	785
45°	1067	1063	1057	1052	1054	822
55°	841	837	833	829	830	753
65°	593	591	585	575	573	587
75°	336	335	327	318	314	357
85°	98	98	94	89	88	110
90°	0	0	0	0	0	

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TEST NUMBER: P1590785
CATALOG NUMBER: 24CGTX-40-L92765-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1556.1*	1556.1	1556.1	1556.1	1556.1
2.5°	*1562.2*	*1556.1*	*1554.1*	*1551.1*	*1555.1*
5°	*1558.2*	1553.1	1550.1	1547.0	1551.1
7.5°	*1550.1*	1545.0	1543.0	1539.9	1544.0
10°	*1538.9*	1532.8	1530.8	1528.8	1532.8
12.5°	*1523.7*	1518.7	1516.6	1514.6	1518.7
15°	*1506.5*	1500.4	1498.4	1497.4	1501.4
17.5°	*1487.3*	1481.2	1479.1	1477.1	1481.2
20°	*1460.9*	1455.8	1453.8	1451.8	1456.9
22.5°	*1433.6*	1429.5	1427.5	1425.5	1428.5
25°	*1403.2*	1399.1	1397.1	1395.1	1399.1
27.5°	*1371.8*	1365.7	1364.7	1362.6	1365.7
30°	*1335.3*	1329.2	1328.2	1325.2	1327.2
32.5°	*1294.8*	1290.7	1288.7	1285.6	1289.7
35°	*1255.2*	1250.2	1247.1	1243.1	1246.1
37.5°	*1211.7*	1205.6	1203.6	1200.5	1201.6
40°	*1164.1*	1160.0	1158.0	1153.9	1155.0
42.5°	*1117.5*	1112.4	1110.4	1104.3	1108.3
45°	*1066.8*	1062.8	1056.7	1051.6	1053.6
47.5°	*1012.1*	1009.1	1005.0	1002.0	1001.0
50°	*956.4*	952.3	949.3	946.2	944.2
52.5°	*901.7*	897.6	892.6	887.5	884.4
55°	*840.9*	836.8	832.8	828.7	829.7
57.5°	*785.2*	778.1	776.0	769.0	765.9
60°	*719.3*	716.3	710.2	706.1	704.1
62.5°	*658.5*	655.5	648.4	640.3	642.3
65°	*592.7*	590.6	584.6	575.4	573.4
67.5°	*528.8*	526.8	521.8	510.6	510.6
70°	*466.0*	460.0	455.9	446.8	443.7
72.5°	*402.2*	397.1	391.1	384.0	379.9
75°	*336.4*	335.3	327.2	318.1	314.1
77.5°	*275.6*	272.5	265.4	257.3	255.3
80°	*214.8*	210.7	204.6	198.6	197.6
82.5°	*157.0*	153.0	148.9	142.8	141.8
85°	*98.3*	98.3	94.2	89.2	88.1
87.5°	*42.6*	41.5	41.5	39.5	40.5
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	14.57	16.22	14.93	16.54	16.85	14.47	16.13	14.83	16.44	16.75
	3H	16.48	17.98	16.86	18.31	18.67	16.32	17.82	16.69	18.15	18.51
	4H	17.23	18.65	17.63	19.00	19.37	17.02	18.44	17.42	18.79	19.16
	6H	17.83	19.14	18.24	19.51	19.90	17.56	18.88	17.97	19.24	19.63
	8H	18.04	19.29	18.46	19.68	20.08	17.75	19.01	18.17	19.40	19.80
	12H	18.19	19.39	18.61	19.77	20.20	17.88	19.09	18.31	19.47	19.90
4H	2H	15.22	16.63	15.61	16.98	17.36	15.14	16.56	15.54	16.90	17.28
	3H	17.35	18.55	17.76	18.94	19.34	17.21	18.41	17.62	18.80	19.20
	4H	18.25	19.33	18.68	19.74	20.18	18.05	19.13	18.48	19.54	19.98
	6H	18.98	19.93	19.43	20.37	20.82	18.73	19.67	19.18	20.11	20.57
	8H	19.25	20.13	19.70	20.57	21.04	18.96	19.85	19.42	20.29	20.76
	12H	19.45	20.25	19.93	20.72	21.19	19.14	19.94	19.62	20.42	20.89
8H	4H	18.58	19.47	19.04	19.91	20.37	18.41	19.29	18.87	19.74	20.20
	6H	19.45	20.19	19.94	20.68	21.15	19.22	19.96	19.71	20.44	20.92
	8H	19.80	20.47	20.31	20.97	21.46	19.54	20.20	20.04	20.71	21.19
	12H	20.10	20.68	20.60	21.17	21.73	19.80	20.39	20.30	20.88	21.44
12H	4H	18.62	19.42	19.10	19.90	20.36	18.46	19.26	18.94	19.73	20.20
	6H	19.52	20.18	20.02	20.69	21.17	19.30	19.96	19.80	20.47	20.95
	8H	19.93	20.52	20.44	21.01	21.57	19.68	20.27	20.19	20.76	21.32

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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: SP1-2510-566-5-R2

Test Date: 10/14/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-3000K

Data in this report applies to families of products including 22CGTX

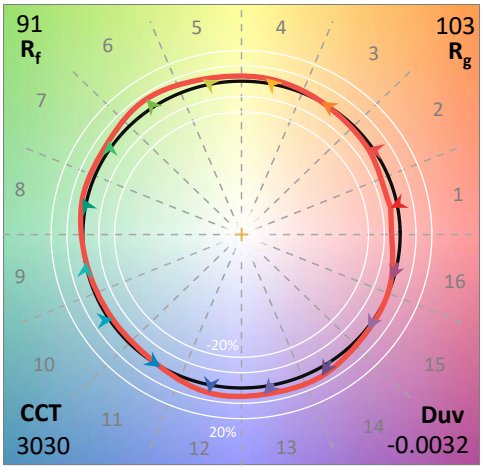
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-5-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:	**22CGTX-50-L92765-W2A-3000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-5-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 8 V

Spectral Parameters

CCT (K):	3030	CRI (Ra):	94.5		
CIE u':	0.2507	R1:	97.4	R9:	65.0
CIE v':	0.5162	R2:	97.5	R10:	92.8
Duv:	-0.0032	R3:	96.3	R11:	94.3
CIE x:	0.4302	R4:	95.0	R12:	89.2
CIE y:	0.3938	R5:	97.0	R13:	97.4
CIE z:	0.1760	R6:	96.2	R14:	96.7
Peak Wavelength (nm):	630	R7:	91.9	R15:	93.2
Dominant Wavelength (nm):	583	R8:	85.1		
Purity:	47.31087				
Rf:	90.9				
Rg:	103.1				



Test Conditions

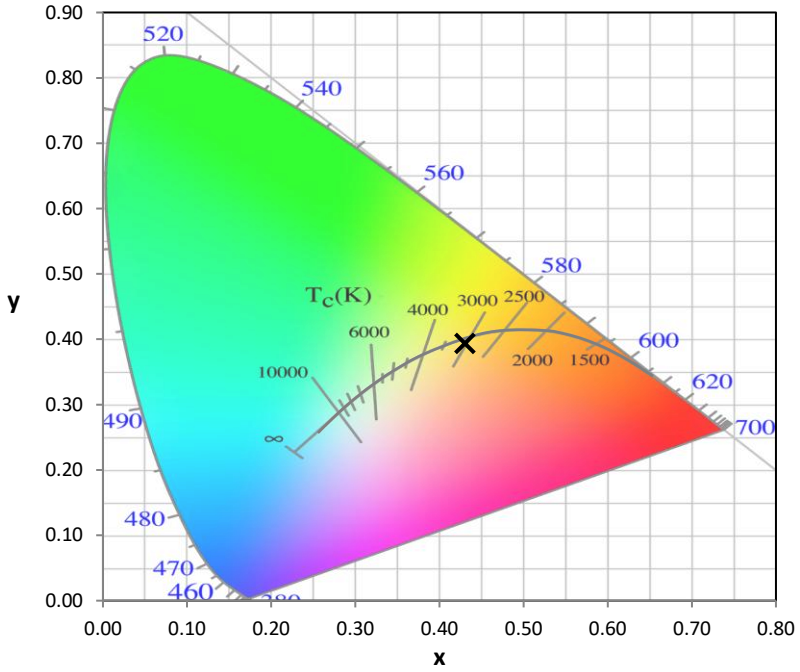
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2510-566-5-R2

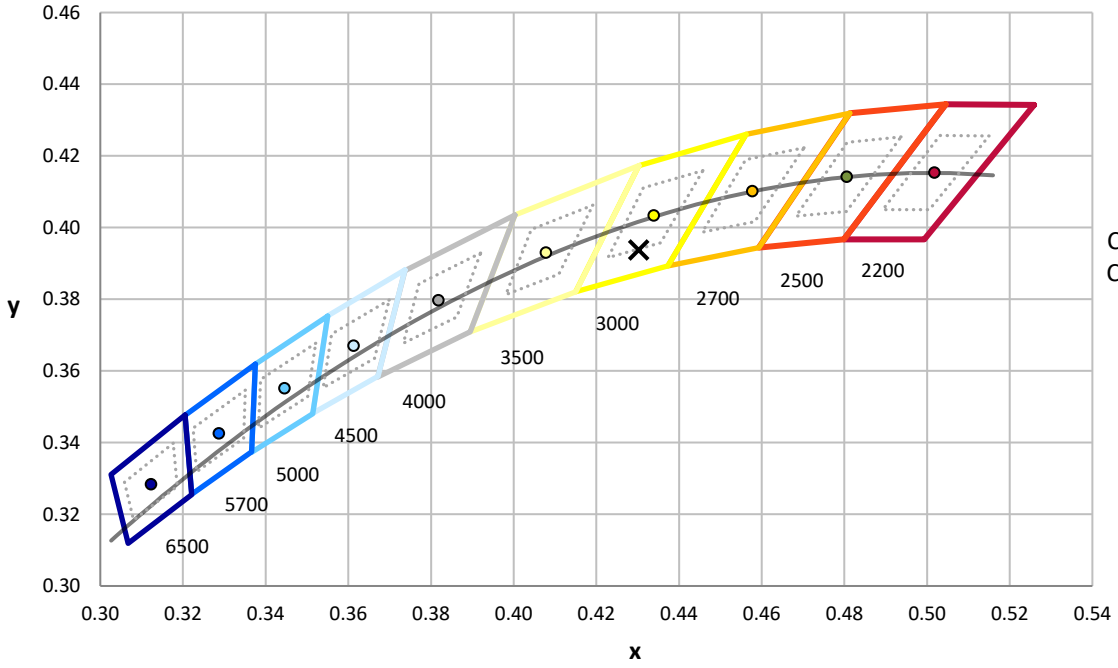
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2510-566-5-R2

CIE 1931 Chromaticity Diagram



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

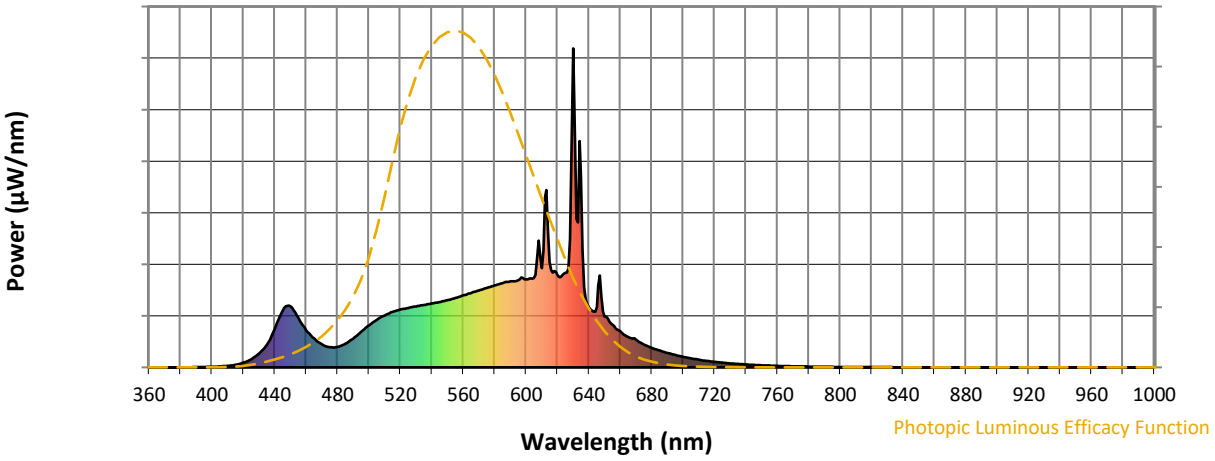


CCT = 3030K
CIE x = 0.4302
CIE y = 0.3938
Duv = -0.0032

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2510-566-5-R2

Photopic Flux vs. Wavelength

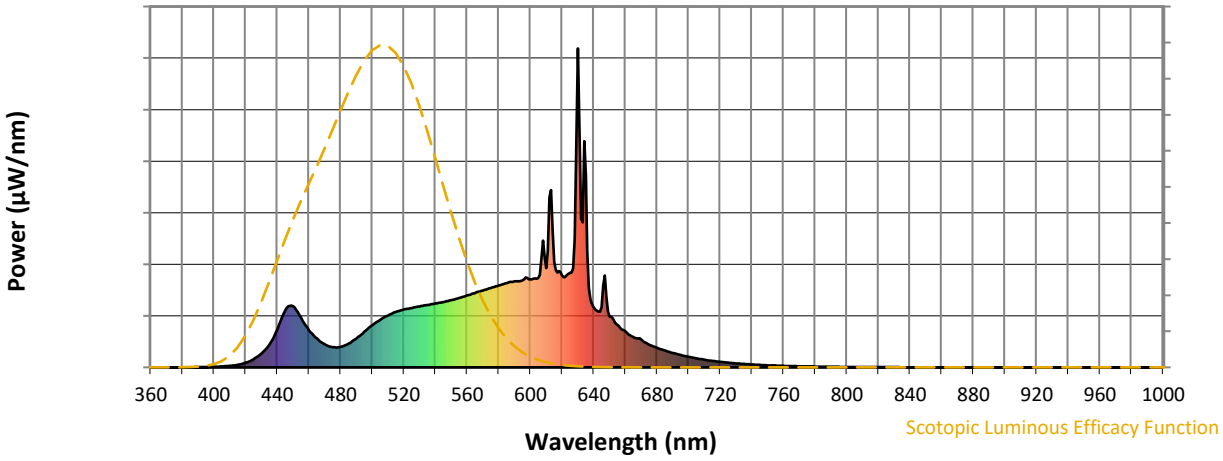


Photopic Lumens: NR

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	91	NR	620	289	NR	750	7	NR	880	0	NR
365	0	NR	495	111	NR	625	296	NR	755	6	NR	885	0	NR
370	0	NR	500	132	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	149	NR	635	601	NR	765	4	NR	895	0	NR
380	0	NR	510	163	NR	640	189	NR	770	4	NR	900	0	NR
385	0	NR	515	174	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	181	NR	650	159	NR	780	3	NR	910	0	NR
395	1	NR	525	186	NR	655	133	NR	785	2	NR	915	0	NR
400	2	NR	530	191	NR	660	113	NR	790	2	NR	920	0	NR
405	3	NR	535	195	NR	665	95	NR	795	2	NR	925	0	NR
410	5	NR	540	200	NR	670	88	NR	800	1	NR	930	0	NR
415	8	NR	545	205	NR	675	72	NR	805	1	NR	935	0	NR
420	15	NR	550	210	NR	680	62	NR	810	1	NR	940	0	NR
425	26	NR	555	218	NR	685	53	NR	815	1	NR	945	0	NR
430	43	NR	560	226	NR	690	45	NR	820	1	NR	950	0	NR
435	72	NR	565	233	NR	695	39	NR	825	1	NR	955	0	NR
440	120	NR	570	241	NR	700	33	NR	830	1	NR	960	0	NR
445	178	NR	575	249	NR	705	28	NR	835	1	NR	965	0	NR
450	191	NR	580	257	NR	710	24	NR	840	0	NR	970	0	NR
455	156	NR	585	264	NR	715	20	NR	845	0	NR	975	0	NR
460	117	NR	590	270	NR	720	17	NR	850	0	NR	980	0	NR
465	91	NR	595	273	NR	725	15	NR	855	0	NR	985	0	NR
470	72	NR	600	276	NR	730	13	NR	860	0	NR	990	0	NR
475	63	NR	605	280	NR	735	11	NR	865	0	NR	995	0	NR
480	64	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	74	NR	615	331	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-5-R2

Scotopic Flux vs. Wavelength

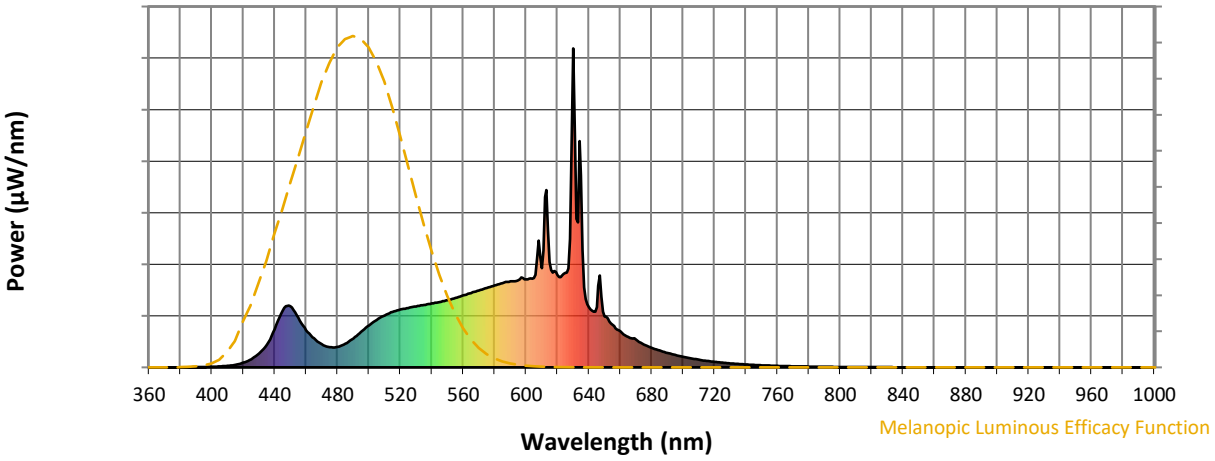


Scotopic Lumens: NR **S/P: 1.45**

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	91	NR	620	289	NR	750	7	NR	880	0	NR
365	0	NR	495	111	NR	625	296	NR	755	6	NR	885	0	NR
370	0	NR	500	132	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	149	NR	635	601	NR	765	4	NR	895	0	NR
380	0	NR	510	163	NR	640	189	NR	770	4	NR	900	0	NR
385	0	NR	515	174	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	181	NR	650	159	NR	780	3	NR	910	0	NR
395	1	NR	525	186	NR	655	133	NR	785	2	NR	915	0	NR
400	2	NR	530	191	NR	660	113	NR	790	2	NR	920	0	NR
405	3	NR	535	195	NR	665	95	NR	795	2	NR	925	0	NR
410	5	NR	540	200	NR	670	88	NR	800	1	NR	930	0	NR
415	8	NR	545	205	NR	675	72	NR	805	1	NR	935	0	NR
420	15	NR	550	210	NR	680	62	NR	810	1	NR	940	0	NR
425	26	NR	555	218	NR	685	53	NR	815	1	NR	945	0	NR
430	43	NR	560	226	NR	690	45	NR	820	1	NR	950	0	NR
435	72	NR	565	233	NR	695	39	NR	825	1	NR	955	0	NR
440	120	NR	570	241	NR	700	33	NR	830	1	NR	960	0	NR
445	178	NR	575	249	NR	705	28	NR	835	1	NR	965	0	NR
450	191	NR	580	257	NR	710	24	NR	840	0	NR	970	0	NR
455	156	NR	585	264	NR	715	20	NR	845	0	NR	975	0	NR
460	117	NR	590	270	NR	720	17	NR	850	0	NR	980	0	NR
465	91	NR	595	273	NR	725	15	NR	855	0	NR	985	0	NR
470	72	NR	600	276	NR	730	13	NR	860	0	NR	990	0	NR
475	63	NR	605	280	NR	735	11	NR	865	0	NR	995	0	NR
480	64	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	74	NR	615	331	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.84**

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	91	NR	620	289	NR	750	7	NR	880	0	NR
365	0	NR	495	111	NR	625	296	NR	755	6	NR	885	0	NR
370	0	NR	500	132	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	149	NR	635	601	NR	765	4	NR	895	0	NR
380	0	NR	510	163	NR	640	189	NR	770	4	NR	900	0	NR
385	0	NR	515	174	NR	645	189	NR	775	3	NR	905	0	NR
390	1	NR	520	181	NR	650	159	NR	780	3	NR	910	0	NR
395	1	NR	525	186	NR	655	133	NR	785	2	NR	915	0	NR
400	2	NR	530	191	NR	660	113	NR	790	2	NR	920	0	NR
405	3	NR	535	195	NR	665	95	NR	795	2	NR	925	0	NR
410	5	NR	540	200	NR	670	88	NR	800	1	NR	930	0	NR
415	8	NR	545	205	NR	675	72	NR	805	1	NR	935	0	NR
420	15	NR	550	210	NR	680	62	NR	810	1	NR	940	0	NR
425	26	NR	555	218	NR	685	53	NR	815	1	NR	945	0	NR
430	43	NR	560	226	NR	690	45	NR	820	1	NR	950	0	NR
435	72	NR	565	233	NR	695	39	NR	825	1	NR	955	0	NR
440	120	NR	570	241	NR	700	33	NR	830	1	NR	960	0	NR
445	178	NR	575	249	NR	705	28	NR	835	1	NR	965	0	NR
450	191	NR	580	257	NR	710	24	NR	840	0	NR	970	0	NR
455	156	NR	585	264	NR	715	20	NR	845	0	NR	975	0	NR
460	117	NR	590	270	NR	720	17	NR	850	0	NR	980	0	NR
465	91	NR	595	273	NR	725	15	NR	855	0	NR	985	0	NR
470	72	NR	600	276	NR	730	13	NR	860	0	NR	990	0	NR
475	63	NR	605	280	NR	735	11	NR	865	0	NR	995	0	NR
480	64	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	74	NR	615	331	NR	745	8	NR	875	0	NR			

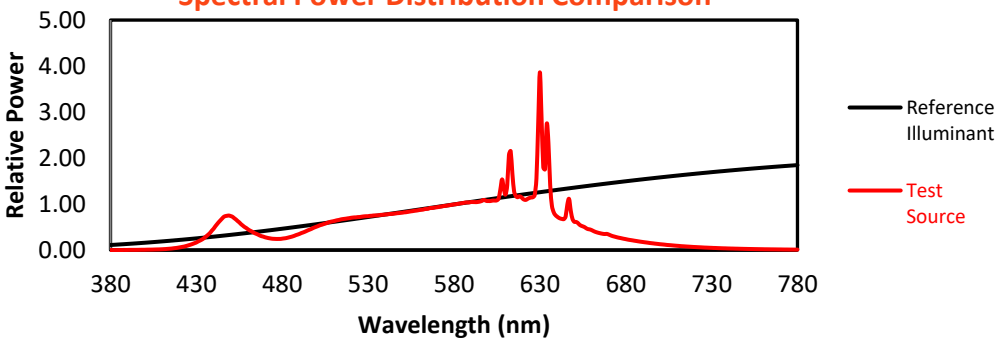
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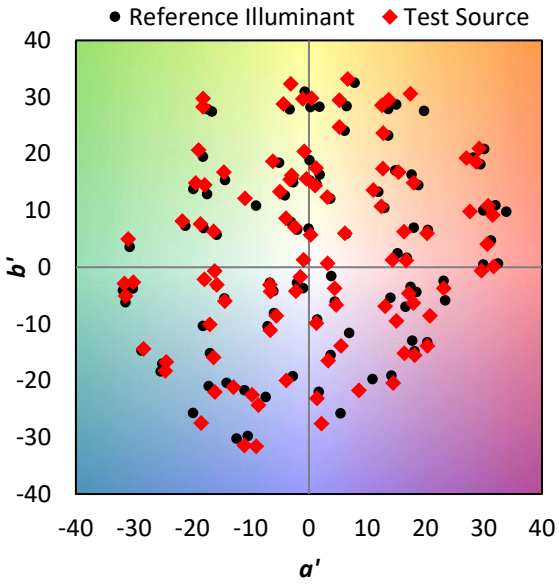
Summary

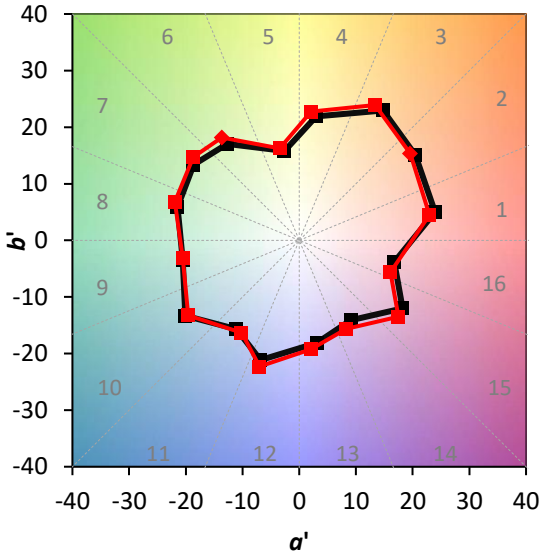
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R_g = 103.1
CIE R_a = 94.5
R_9 = 65.0

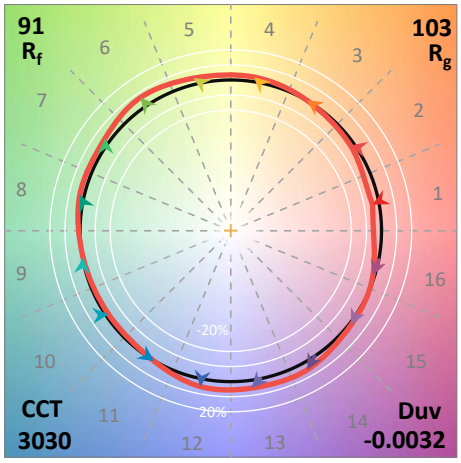
Spectral Power Distribution Comparison

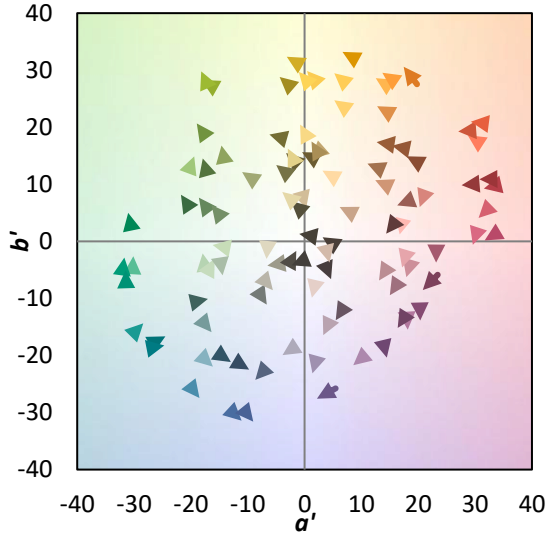


Color Vector Graphics







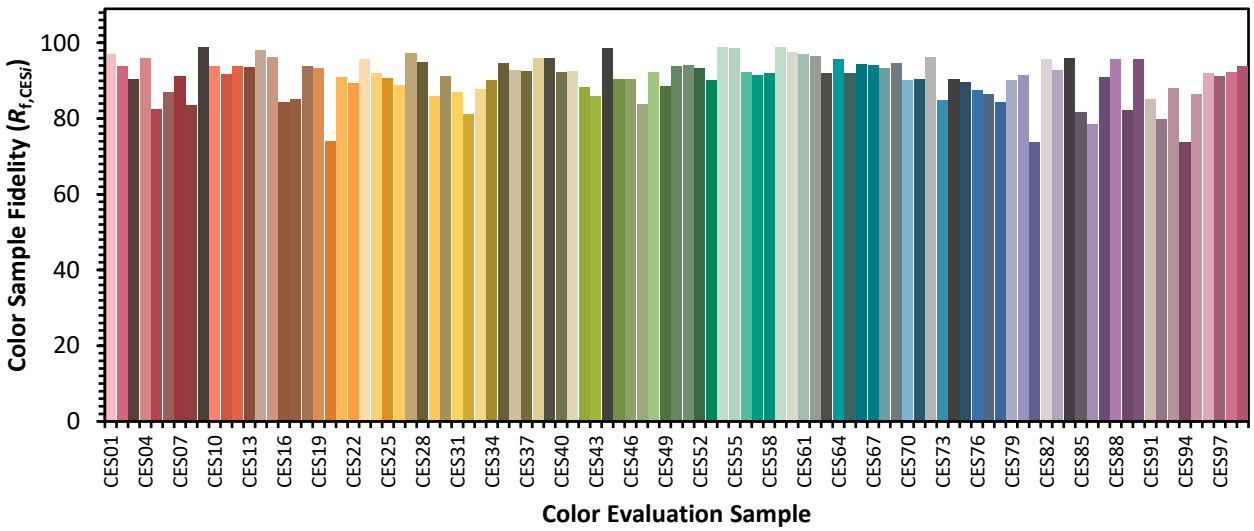


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Individual Sample Fidelity Index ($R_{f,i}$)

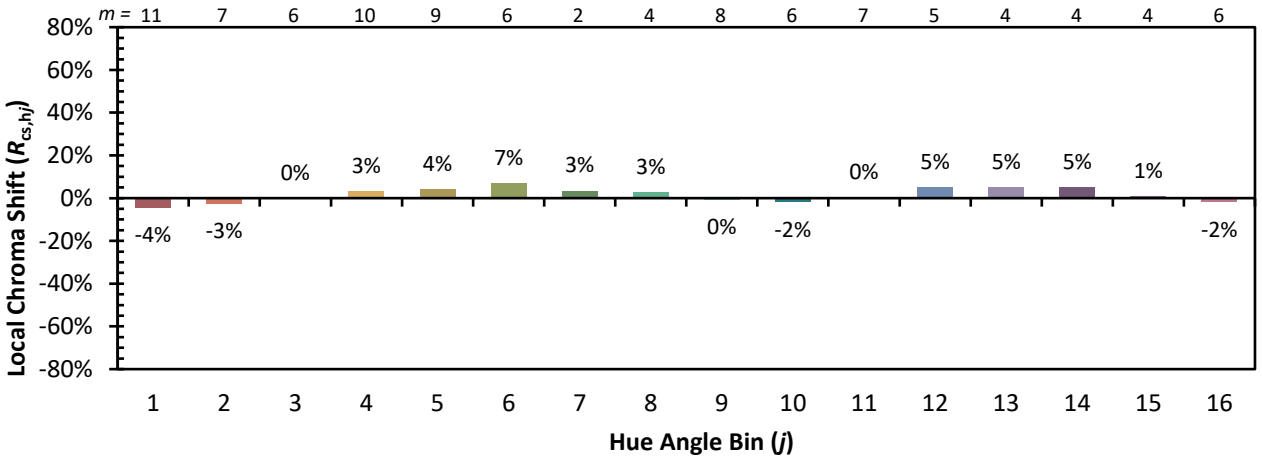
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CES03 = 32	CES28 = 95	CES53 = 90	CES78 = 84
CES04 = 70	CES29 = 86	CES54 = 99	CES79 = 90
CES05 = 51	CES30 = 91	CES55 = 99	CES80 = 91
CES06 = 51	CES31 = 87	CES56 = 92	CES81 = 74
CES07 = 44	CES32 = 81	CES57 = 91	CES82 = 96
CES08 = 42	CES33 = 88	CES58 = 92	CES83 = 93
CES09 = 29	CES34 = 90	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 95	CES60 = 98	CES85 = 82
CES11 = 59	CES36 = 93	CES61 = 97	CES86 = 79
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 91
CES13 = 44	CES38 = 96	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 96	CES64 = 96	CES89 = 82
CES15 = 72	CES40 = 92	CES65 = 92	CES90 = 96
CES16 = 48	CES41 = 93	CES66 = 94	CES91 = 85
CES17 = 50	CES42 = 88	CES67 = 94	CES92 = 80
CES18 = 57	CES43 = 86	CES68 = 93	CES93 = 88
CES19 = 72	CES44 = 99	CES69 = 95	CES94 = 74
CES20 = 67	CES45 = 90	CES70 = 90	CES95 = 86
CES21 = 86	CES46 = 90	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 84	CES72 = 96	CES97 = 91
CES23 = 92	CES48 = 92	CES73 = 85	CES98 = 92
CES24 = 90	CES49 = 89	CES74 = 90	CES99 = 94
CES25 = 72	CES50 = 94	CES75 = 90	

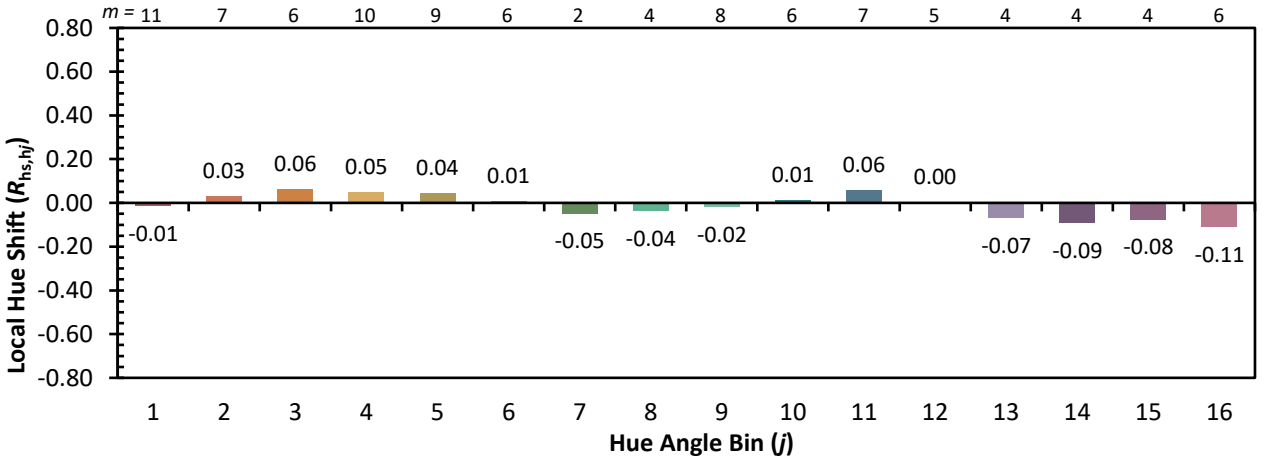


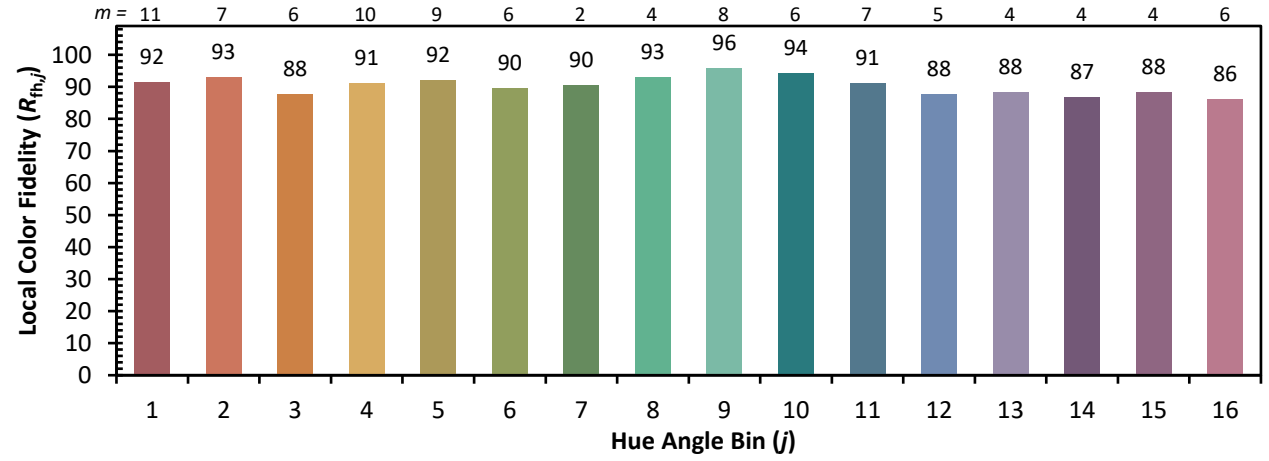
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Color Rendition by Hue-Angle Bin



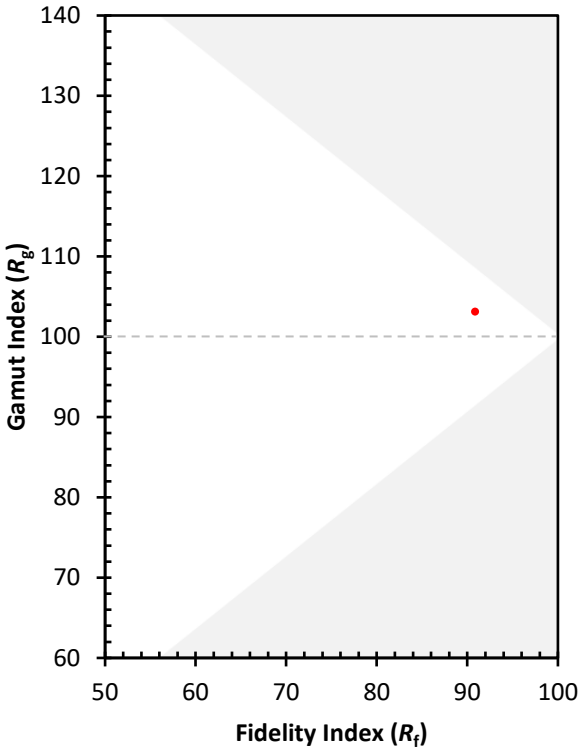


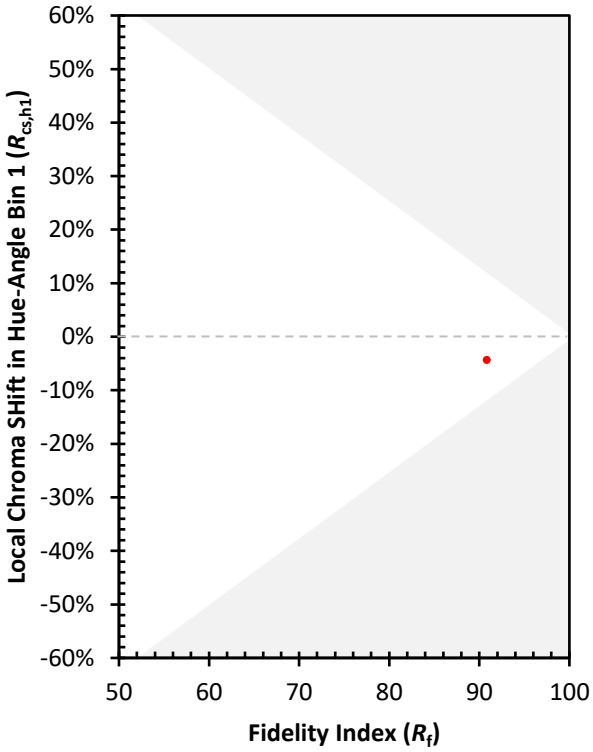


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Measure Comparisons





(END OF REPORT)