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: P1590783

Luminaire Tested: 24CGTX-35-L92765-W2A-6500K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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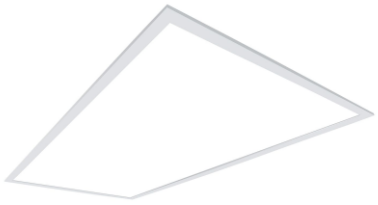
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590783
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-586-6)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-35-L92765-W2A-6500K
Description:	2X4 3500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 6500K CCT WITH FROSTED SMOOTH LENS
Light Source:	6500K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4034.0 lumens
Efficiency:	N/A
Efficacy:	121.1 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):	33.3
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

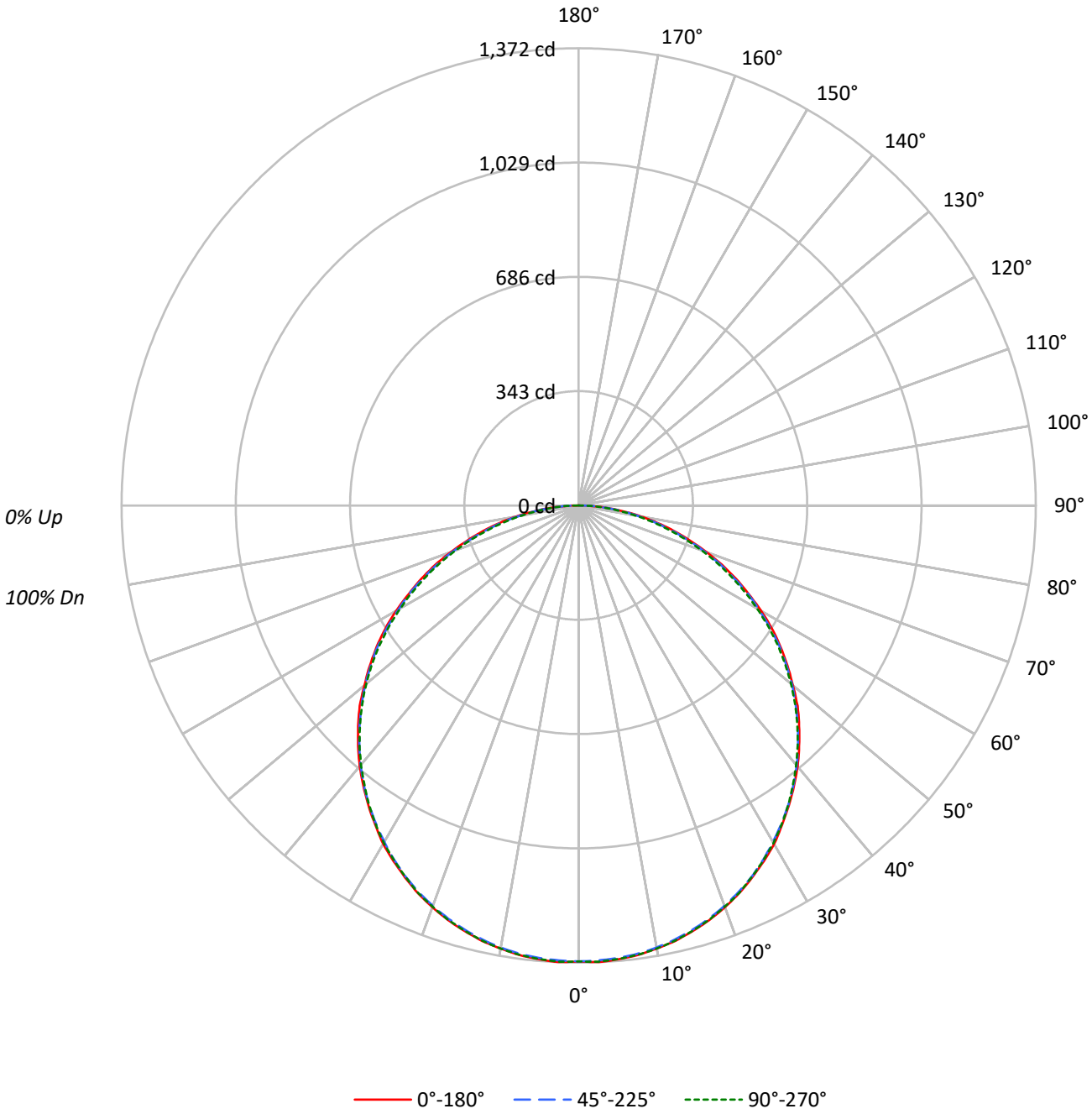


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Scaled Data Report

TEST NUMBER: P1590783
CATALOG NUMBER: 24CGTX-35-L92765-W2A-6500K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590783
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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°	1841	1841	1841
5°	1847	1841	1845
10°	1845	1840	1845
15°	1842	1836	1841
20°	1837	1831	1834
25°	1829	1824	1826
30°	1823	1812	1817
35°	1807	1802	1802
40°	1796	1788	1784
45°	1781	1769	1765
50°	1756	1750	1741
55°	1736	1726	1709
60°	1702	1679	1662
65°	1658	1634	1607
70°	1605	1571	1537
75°	1544	1495	1439
80°	1477	1395	1337
85°	1332	1266	1200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1781 cd/sqm

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TEST NUMBER: P1590783
CATALOG NUMBER: 24CGTX-35-L92765-W2A-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.2
10°-20°	372.6	9.2
20°-30°	567.0	14.1
30°-40°	686.7	17.0
40°-50°	717.8	17.8
50°-60°	655.6	16.3
60°-70°	507.9	12.6
70°-80°	304.4	7.5
80°-90°	92.4	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°	1069.3	26.5
0°-40°	1756.0	43.5
0°-60°	3129.4	77.6
0°-90°	4034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1367	1364	1363	1364	1366	130
15°	1323	1319	1318	1319	1322	373
25°	1232	1231	1229	1230	1230	568
35°	1100	1098	1097	1097	1097	689
45°	936	933	930	930	928	722
55°	740	737	736	732	728	661
65°	521	518	513	508	505	515
75°	297	293	288	280	277	314
85°	86	85	82	79	78	97
90°	0	0	0	0	0	

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TEST NUMBER: P1590783
CATALOG NUMBER: 24CGTX-35-L92765-W2A-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1368.4*	1368.4	1368.4	1368.4	1368.4
2.5°	*1371.6*	*1368.4*	*1366.3*	*1367.3*	*1370.5*
5°	*1367.3*	1364.1	1363.1	1364.1	1366.3
7.5°	*1360.9*	1357.7	1356.7	1356.7	1359.9
10°	*1350.3*	1348.2	1347.1	1347.1	1350.3
12.5°	*1338.6*	1335.4	1334.3	1334.3	1337.5
15°	*1322.6*	1319.4	1318.3	1319.4	1321.5
17.5°	*1304.5*	1302.4	1300.2	1301.3	1303.4
20°	*1283.2*	1281.1	1278.9	1280.0	1281.1
22.5°	*1259.8*	1257.6	1255.5	1256.6	1258.7
25°	*1232.1*	1231.0	1228.9	1230.0	1230.0
27.5°	*1203.3*	1201.2	1199.1	1200.1	1200.1
30°	*1173.5*	1169.3	1166.1	1169.3	1169.3
32.5°	*1136.2*	1134.1	1132.0	1134.1	1134.1
35°	*1100.0*	1097.9	1096.8	1096.8	1096.8
37.5°	*1061.7*	1060.6	1058.5	1058.5	1056.4
40°	*1022.3*	1019.1	1018.0	1017.0	1015.9
42.5°	*979.7*	976.5	974.4	973.3	973.3
45°	*936.0*	932.9	929.7	929.7	927.5
47.5°	*891.3*	887.1	882.8	881.7	880.7
50°	*839.1*	837.0	835.9	832.8	831.7
52.5°	*790.2*	788.0	784.8	782.7	780.6
55°	*740.1*	736.9	735.8	731.6	728.4
57.5°	*687.9*	683.7	680.5	677.3	674.1
60°	*632.6*	629.4	624.0	623.0	617.6
62.5°	*575.0*	575.0	571.9	566.5	562.3
65°	*520.7*	517.5	513.3	508.0	504.8
67.5°	*465.4*	462.2	456.8	450.5	449.4
70°	*407.9*	404.7	399.3	392.9	390.8
72.5°	*351.4*	349.3	341.8	338.6	334.4
75°	*297.1*	292.8	287.5	280.1	276.9
77.5°	*242.8*	239.6	235.3	226.8	224.7
80°	*190.6*	186.4	180.0	176.8	172.5
82.5°	*136.3*	134.2	132.0	126.7	123.5
85°	*86.3*	85.2	82.0	78.8	77.7
87.5°	*39.4*	37.3	36.2	35.1	35.1
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	14.11	15.77	14.47	16.08	16.40	14.03	15.69	14.39	16.00	16.32
	3H	16.02	17.53	16.40	17.85	18.21	15.88	17.38	16.26	17.71	18.07
	4H	16.78	18.19	17.17	18.54	18.92	16.58	18.00	16.98	18.35	18.72
	6H	17.37	18.69	17.79	19.05	19.45	17.13	18.44	17.54	18.81	19.20
	8H	17.58	18.84	18.01	19.23	19.63	17.31	18.57	17.73	18.96	19.35
	12H	17.73	18.94	18.16	19.32	19.75	17.44	18.65	17.87	19.03	19.46
4H	2H	14.76	16.18	15.16	16.52	16.90	14.70	16.11	15.09	16.46	16.84
	3H	16.90	18.09	17.31	18.49	18.89	16.77	17.97	17.18	18.36	18.76
	4H	17.79	18.87	18.22	19.28	19.72	17.61	18.69	18.04	19.10	19.54
	6H	18.53	19.47	18.98	19.91	20.37	18.29	19.23	18.74	19.67	20.13
	8H	18.79	19.68	19.25	20.12	20.58	18.52	19.41	18.98	19.85	20.32
	12H	18.99	19.79	19.47	20.27	20.74	18.70	19.50	19.18	19.98	20.44
8H	4H	18.12	19.01	18.58	19.45	19.92	17.97	18.85	18.43	19.30	19.76
	6H	19.00	19.74	19.49	20.23	20.70	18.78	19.52	19.27	20.01	20.48
	8H	19.35	20.01	19.86	20.52	21.00	19.10	19.77	19.61	20.27	20.76
	12H	19.64	20.23	20.15	20.72	21.28	19.36	19.95	19.87	20.44	21.00
12H	4H	18.17	18.96	18.64	19.44	19.91	18.02	18.82	18.49	19.29	19.76
	6H	19.07	19.73	19.58	20.24	20.72	18.86	19.53	19.37	20.03	20.52
	8H	19.48	20.07	19.99	20.56	21.12	19.24	19.83	19.75	20.32	20.88

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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: SP1-2510-566-18-R2

Test Date: 10/15/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-6500K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

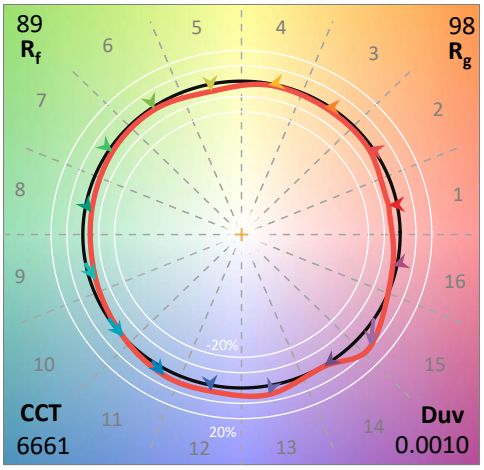
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-18-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-6500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-18-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 1.5 V

Spectral Parameters

CCT (K):	6661
CIE u':	0.1988
CIE v':	0.4648
Duv:	0.0010
CIE x:	0.3108
CIE y:	0.3230
CIE z:	0.3662
Peak Wavelength (nm):	453
Dominant Wavelength (nm):	485
Purity:	8.426951
Rf:	88.9
Rg:	97.8

CRI (Ra):	93.3				
R1:	94.6	R9:	71.5		
R2:	96.1	R10:	88.2		
R3:	93.9	R11:	93.9		
R4:	93.7	R12:	65.1		
R5:	92.6	R13:	96.0		
R6:	90.7	R14:	96.5		
R7:	95.1	R15:	93.4		
R8:	90.0				



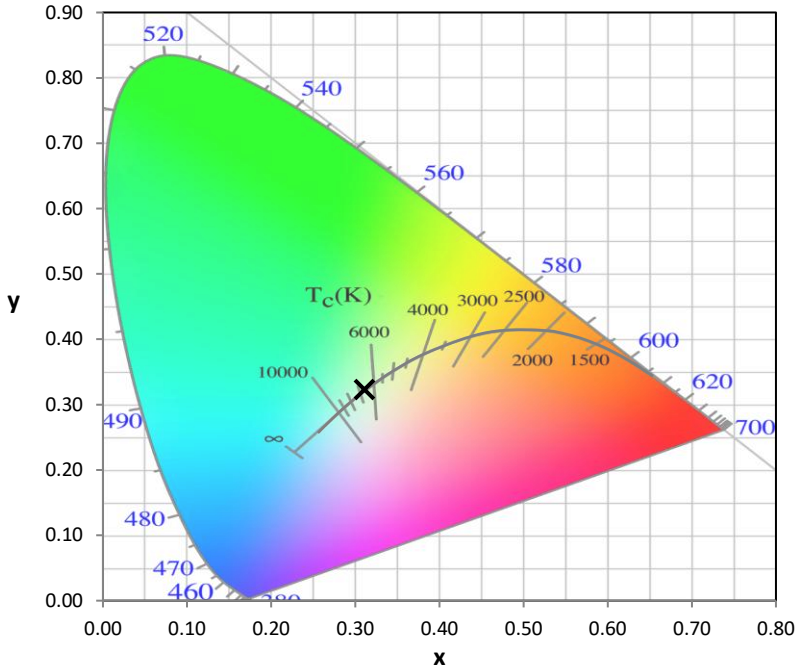
Test Conditions

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

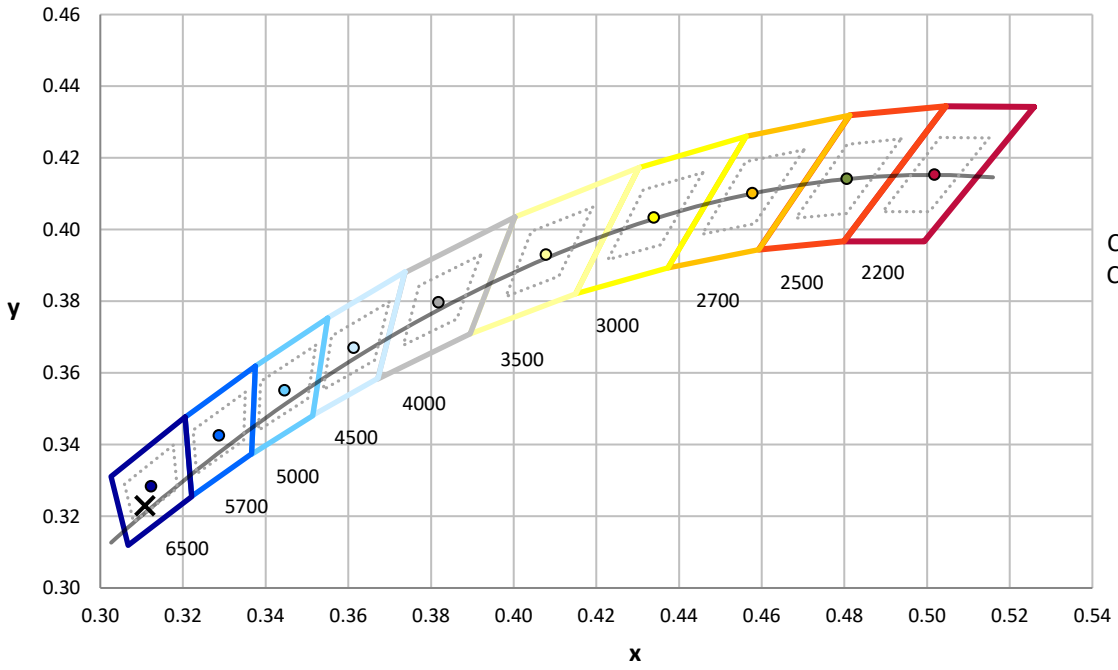
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2510-566-18-R2

CIE 1931 Chromaticity Diagram



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

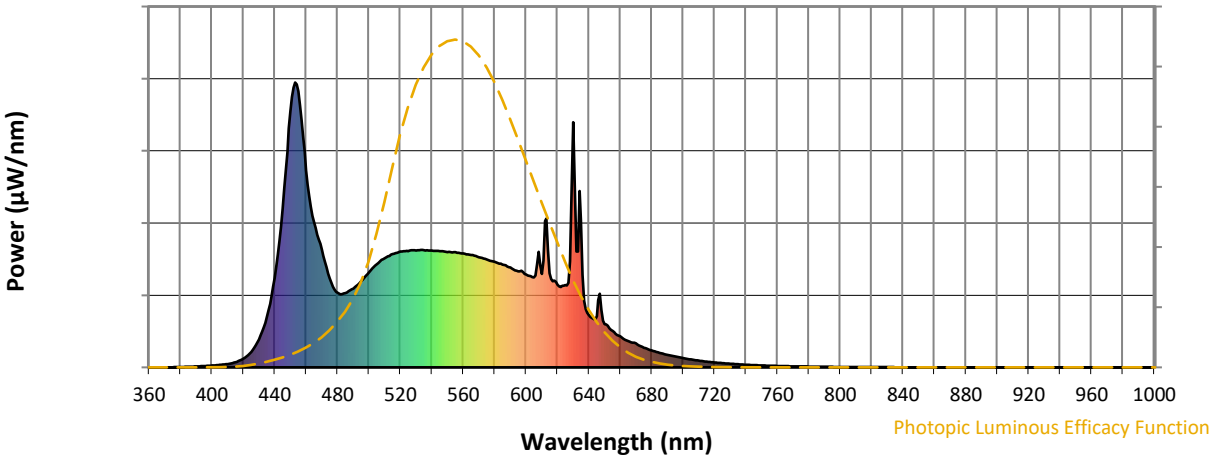


CCT = 6661K
CIE x = 0.3108
CIE y = 0.3230
Duv = 0.0010

Point lies inside the ANSI 6500K 4-step quadrangle

REPORT NUMBER: SP1-2510-566-18-R2

Photopic Flux vs. Wavelength

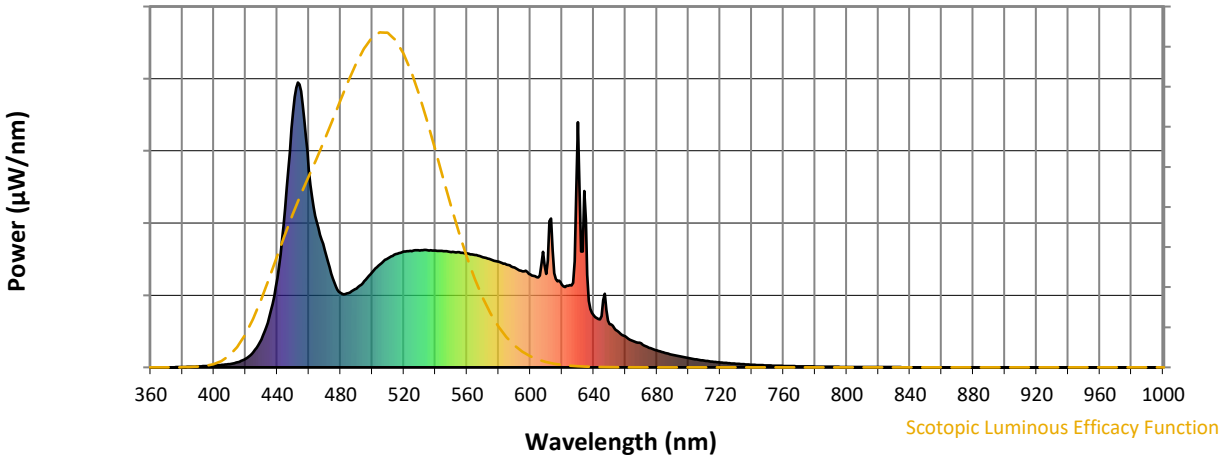


Photopic Lumens: NR

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	277	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	302	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	334	NR	630	861	NR	760	5	NR	890	0	NR
375	0	NR	505	361	NR	635	516	NR	765	4	NR	895	0	NR
380	2	NR	510	383	NR	640	183	NR	770	4	NR	900	0	NR
385	2	NR	515	398	NR	645	180	NR	775	3	NR	905	0	NR
390	3	NR	520	406	NR	650	151	NR	780	3	NR	910	0	NR
395	5	NR	525	408	NR	655	128	NR	785	2	NR	915	0	NR
400	6	NR	530	410	NR	660	109	NR	790	2	NR	920	0	NR
405	9	NR	535	411	NR	665	92	NR	795	2	NR	925	0	NR
410	12	NR	540	411	NR	670	84	NR	800	2	NR	930	0	NR
415	18	NR	545	408	NR	675	69	NR	805	1	NR	935	0	NR
420	31	NR	550	405	NR	680	59	NR	810	1	NR	940	0	NR
425	54	NR	555	404	NR	685	51	NR	815	1	NR	945	0	NR
430	98	NR	560	400	NR	690	44	NR	820	1	NR	950	0	NR
435	179	NR	565	394	NR	695	38	NR	825	1	NR	955	0	NR
440	314	NR	570	386	NR	700	32	NR	830	1	NR	960	0	NR
445	557	NR	575	378	NR	705	28	NR	835	1	NR	965	0	NR
450	898	NR	580	370	NR	710	24	NR	840	1	NR	970	0	NR
455	970	NR	585	361	NR	715	20	NR	845	0	NR	975	0	NR
460	692	NR	590	351	NR	720	17	NR	850	0	NR	980	0	NR
465	510	NR	595	337	NR	725	15	NR	855	0	NR	985	0	NR
470	411	NR	600	326	NR	730	13	NR	860	0	NR	990	0	NR
475	313	NR	605	316	NR	735	11	NR	865	0	NR	995	0	NR
480	262	NR	610	328	NR	740	9	NR	870	0	NR	1000	0	NR
485	261	NR	615	331	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-18-R2

Scotopic Flux vs. Wavelength

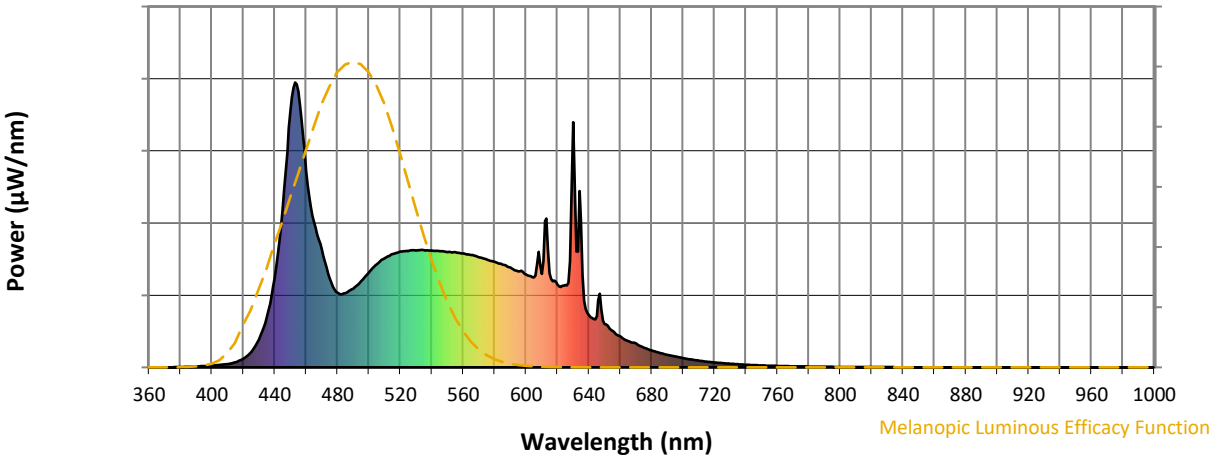


Scotopic Lumens: NR **S/P: 2.39**

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	277	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	302	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	334	NR	630	861	NR	760	5	NR	890	0	NR
375	0	NR	505	361	NR	635	516	NR	765	4	NR	895	0	NR
380	2	NR	510	383	NR	640	183	NR	770	4	NR	900	0	NR
385	2	NR	515	398	NR	645	180	NR	775	3	NR	905	0	NR
390	3	NR	520	406	NR	650	151	NR	780	3	NR	910	0	NR
395	5	NR	525	408	NR	655	128	NR	785	2	NR	915	0	NR
400	6	NR	530	410	NR	660	109	NR	790	2	NR	920	0	NR
405	9	NR	535	411	NR	665	92	NR	795	2	NR	925	0	NR
410	12	NR	540	411	NR	670	84	NR	800	2	NR	930	0	NR
415	18	NR	545	408	NR	675	69	NR	805	1	NR	935	0	NR
420	31	NR	550	405	NR	680	59	NR	810	1	NR	940	0	NR
425	54	NR	555	404	NR	685	51	NR	815	1	NR	945	0	NR
430	98	NR	560	400	NR	690	44	NR	820	1	NR	950	0	NR
435	179	NR	565	394	NR	695	38	NR	825	1	NR	955	0	NR
440	314	NR	570	386	NR	700	32	NR	830	1	NR	960	0	NR
445	557	NR	575	378	NR	705	28	NR	835	1	NR	965	0	NR
450	898	NR	580	370	NR	710	24	NR	840	1	NR	970	0	NR
455	970	NR	585	361	NR	715	20	NR	845	0	NR	975	0	NR
460	692	NR	590	351	NR	720	17	NR	850	0	NR	980	0	NR
465	510	NR	595	337	NR	725	15	NR	855	0	NR	985	0	NR
470	411	NR	600	326	NR	730	13	NR	860	0	NR	990	0	NR
475	313	NR	605	316	NR	735	11	NR	865	0	NR	995	0	NR
480	262	NR	610	328	NR	740	9	NR	870	0	NR	1000	0	NR
485	261	NR	615	331	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 5.37**

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	277	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	302	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	334	NR	630	861	NR	760	5	NR	890	0	NR
375	0	NR	505	361	NR	635	516	NR	765	4	NR	895	0	NR
380	2	NR	510	383	NR	640	183	NR	770	4	NR	900	0	NR
385	2	NR	515	398	NR	645	180	NR	775	3	NR	905	0	NR
390	3	NR	520	406	NR	650	151	NR	780	3	NR	910	0	NR
395	5	NR	525	408	NR	655	128	NR	785	2	NR	915	0	NR
400	6	NR	530	410	NR	660	109	NR	790	2	NR	920	0	NR
405	9	NR	535	411	NR	665	92	NR	795	2	NR	925	0	NR
410	12	NR	540	411	NR	670	84	NR	800	2	NR	930	0	NR
415	18	NR	545	408	NR	675	69	NR	805	1	NR	935	0	NR
420	31	NR	550	405	NR	680	59	NR	810	1	NR	940	0	NR
425	54	NR	555	404	NR	685	51	NR	815	1	NR	945	0	NR
430	98	NR	560	400	NR	690	44	NR	820	1	NR	950	0	NR
435	179	NR	565	394	NR	695	38	NR	825	1	NR	955	0	NR
440	314	NR	570	386	NR	700	32	NR	830	1	NR	960	0	NR
445	557	NR	575	378	NR	705	28	NR	835	1	NR	965	0	NR
450	898	NR	580	370	NR	710	24	NR	840	1	NR	970	0	NR
455	970	NR	585	361	NR	715	20	NR	845	0	NR	975	0	NR
460	692	NR	590	351	NR	720	17	NR	850	0	NR	980	0	NR
465	510	NR	595	337	NR	725	15	NR	855	0	NR	985	0	NR
470	411	NR	600	326	NR	730	13	NR	860	0	NR	990	0	NR
475	313	NR	605	316	NR	735	11	NR	865	0	NR	995	0	NR
480	262	NR	610	328	NR	740	9	NR	870	0	NR	1000	0	NR
485	261	NR	615	331	NR	745	8	NR	875	0	NR			

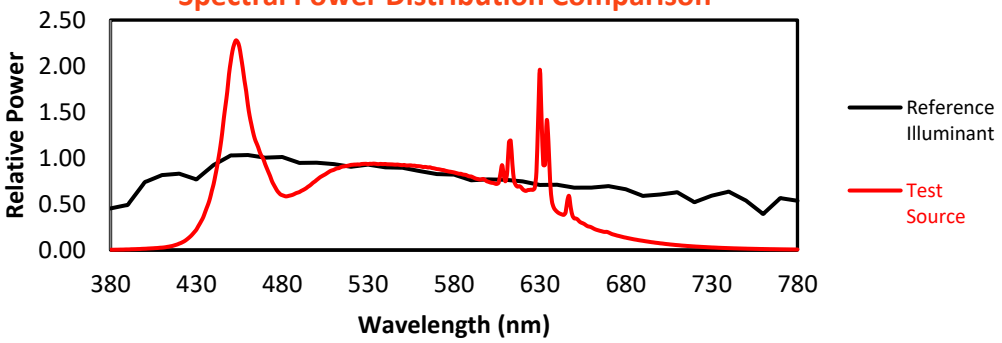
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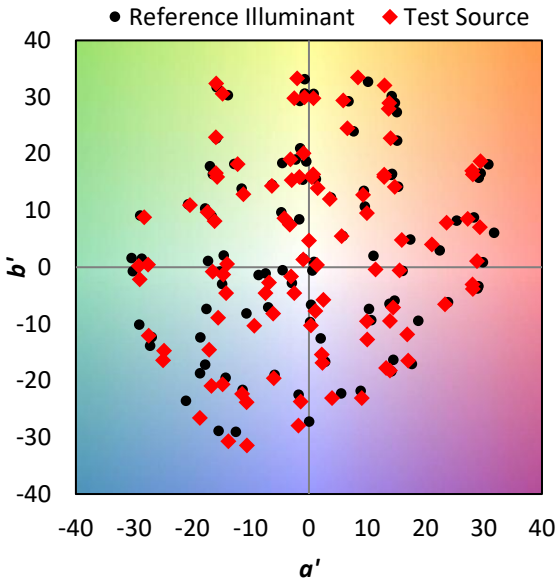
Summary

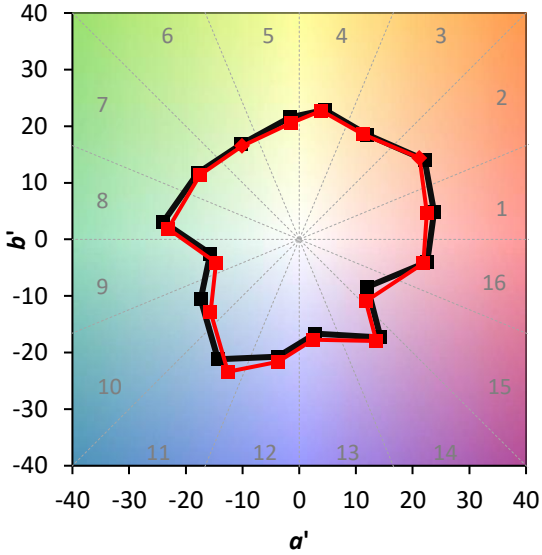
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R_g = 97.8
CIE R_a = 93.3
R_9 = 71.5

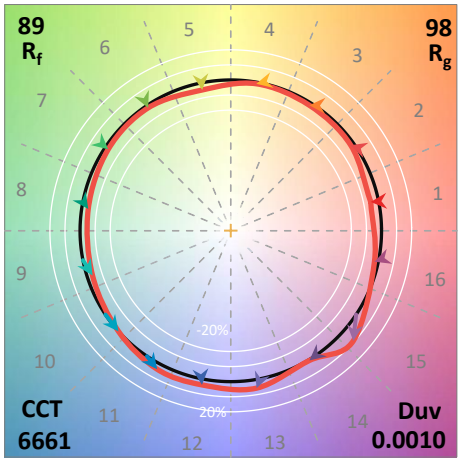
Spectral Power Distribution Comparison

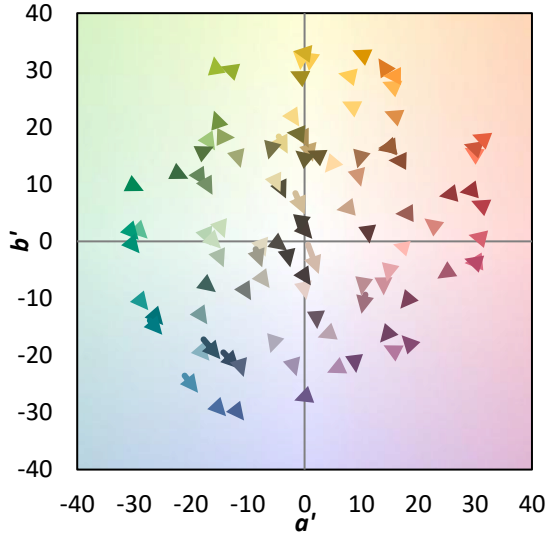


Color Vector Graphics







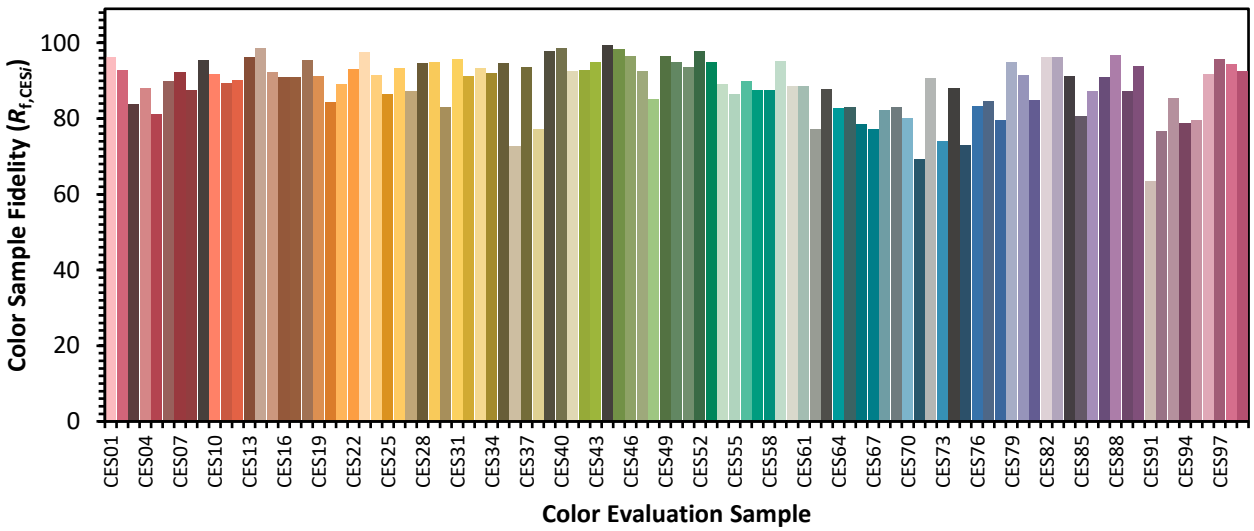


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Individual Sample Fidelity Index ($R_{f,i}$)

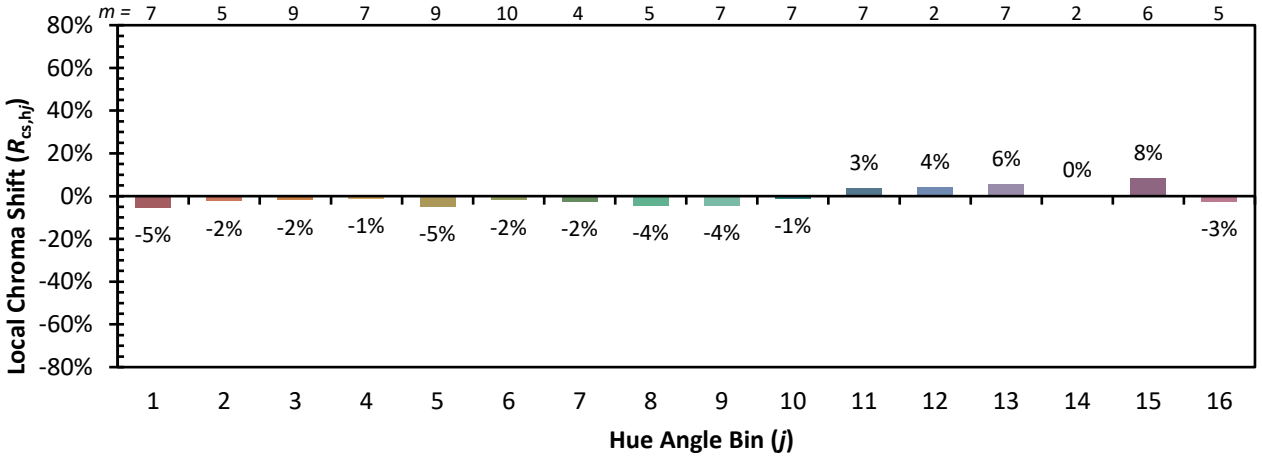
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CES02 = 60	CES27 = 87	CES52 = 98	CES77 = 85
CES03 = 31	CES28 = 95	CES53 = 95	CES78 = 80
CES04 = 68	CES29 = 95	CES54 = 89	CES79 = 95
CES05 = 47	CES30 = 83	CES55 = 86	CES80 = 91
CES06 = 49	CES31 = 96	CES56 = 90	CES81 = 85
CES07 = 40	CES32 = 91	CES57 = 87	CES82 = 96
CES08 = 39	CES33 = 93	CES58 = 88	CES83 = 96
CES09 = 29	CES34 = 92	CES59 = 95	CES84 = 91
CES10 = 72	CES35 = 95	CES60 = 89	CES85 = 81
CES11 = 55	CES36 = 73	CES61 = 89	CES86 = 87
CES12 = 61	CES37 = 94	CES62 = 77	CES87 = 91
CES13 = 42	CES38 = 77	CES63 = 88	CES88 = 97
CES14 = 74	CES39 = 98	CES64 = 83	CES89 = 87
CES15 = 70	CES40 = 99	CES65 = 83	CES90 = 94
CES16 = 46	CES41 = 92	CES66 = 78	CES91 = 63
CES17 = 48	CES42 = 93	CES67 = 77	CES92 = 77
CES18 = 55	CES43 = 95	CES68 = 82	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 83	CES94 = 79
CES20 = 64	CES45 = 98	CES70 = 80	CES95 = 80
CES21 = 84	CES46 = 96	CES71 = 69	CES96 = 92
CES22 = 76	CES47 = 93	CES72 = 91	CES97 = 96
CES23 = 91	CES48 = 85	CES73 = 74	CES98 = 94
CES24 = 89	CES49 = 96	CES74 = 88	CES99 = 92
CES25 = 70	CES50 = 95	CES75 = 73	

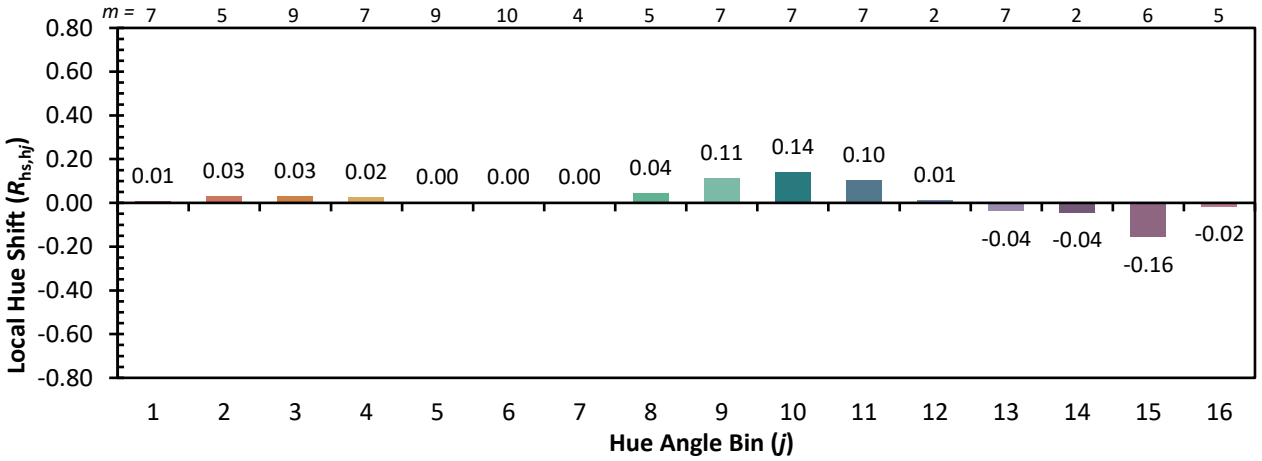


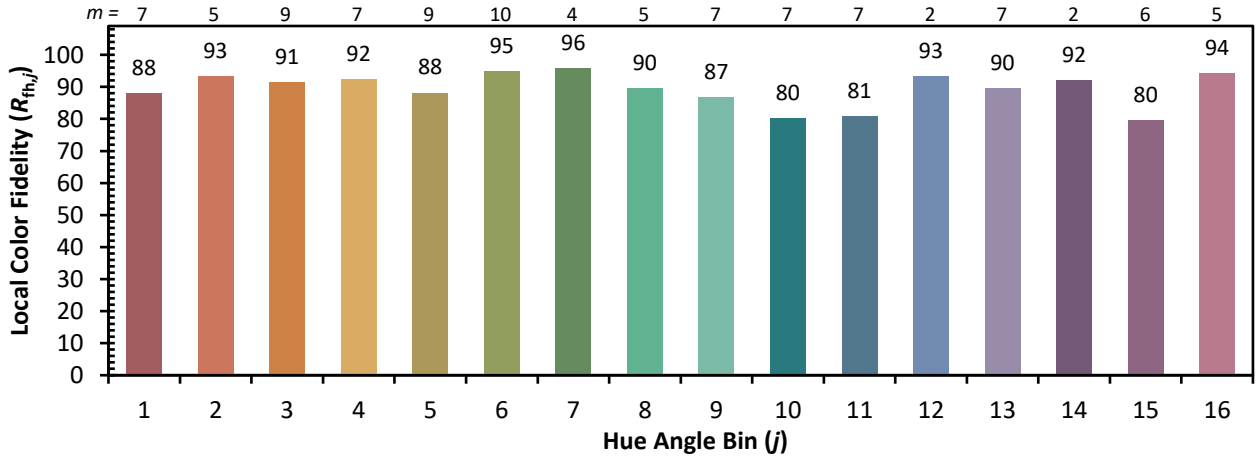
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Color Rendition by Hue-Angle Bin



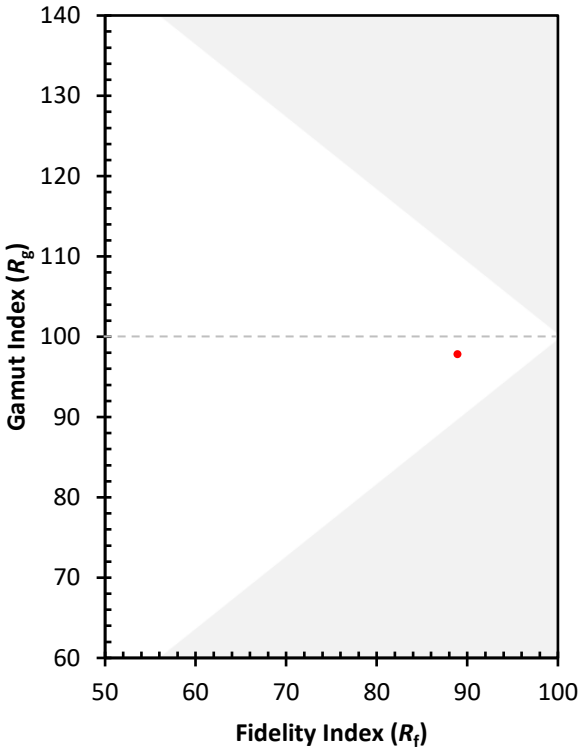


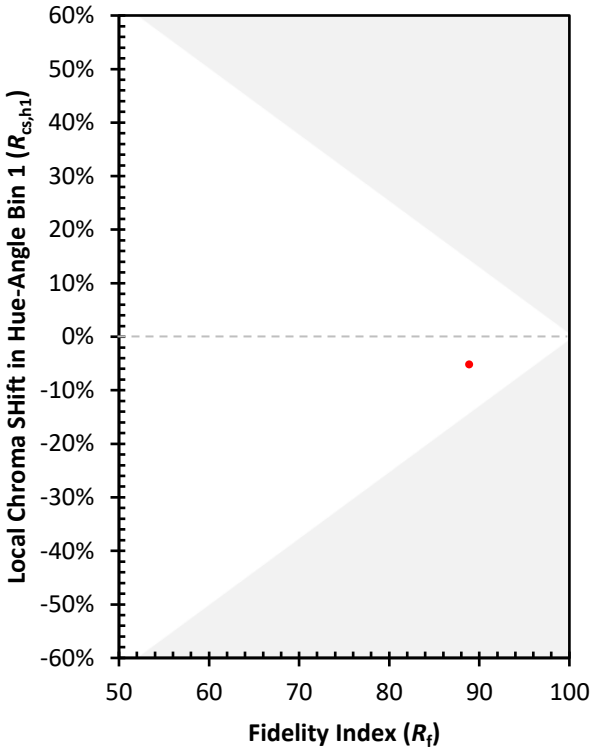


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Measure Comparisons





(END OF REPORT)