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: P1590688

Luminaire Tested: 24CGTX-65-B35-HCD2

Issue Date: 9/4/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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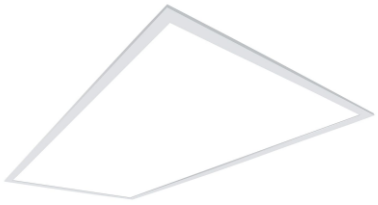
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590688
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2505-442-1)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/4/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-65-B35-HCD2
Description:	2X4 6500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 3500K CCT WITH FROSTED SMOOTH LENS
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6130.7 lumens
Efficiency:	N/A
Efficacy:	109.5 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):	56
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

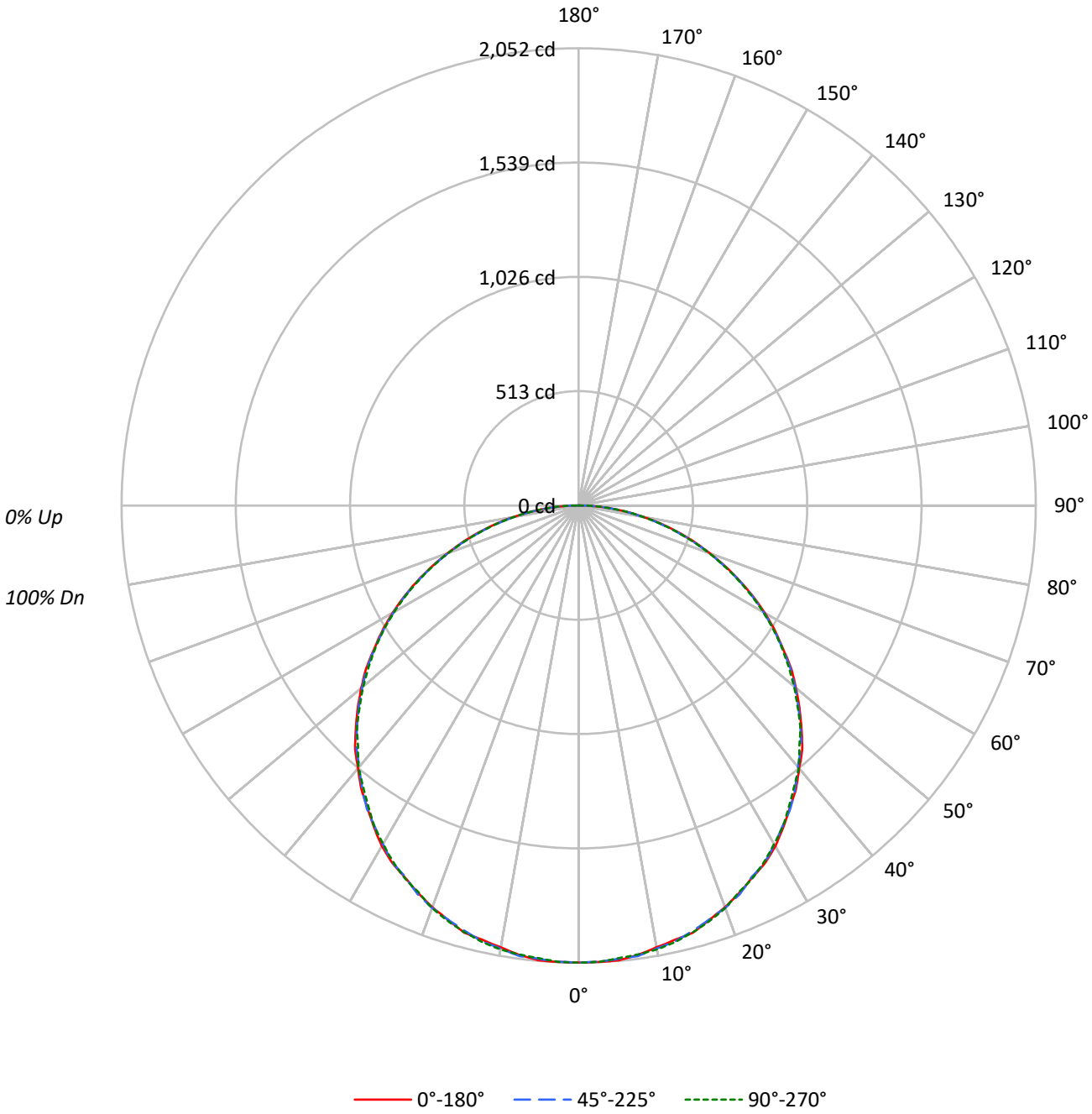


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Scaled Data Report

TEST NUMBER: P1590688
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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	87	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57
4	82	69	60	53	79	68	60	53	65	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	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	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	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2761	2761	2761
5°	2768	2759	2754
10°	2751	2759	2765
15°	2765	2754	2761
20°	2747	2752	2754
25°	2736	2731	2741
30°	2743	2729	2726
35°	2717	2724	2704
40°	2705	2689	2699
45°	2690	2678	2678
50°	2665	2653	2639
55°	2625	2617	2612
60°	2594	2579	2573
65°	2535	2521	2510
70°	2460	2443	2443
75°	2392	2357	2357
80°	2285	2242	2259
85°	2121	2052	2104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2690 cd/sqm

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TEST NUMBER: P1590688
CATALOG NUMBER: 24CGTX-65-B35-HCD2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	3.2
10°-20°	558.5	9.1
20°-30°	850.7	13.9
30°-40°	1033.7	16.9
40°-50°	1084.2	17.7
50°-60°	996.5	16.3
60°-70°	782.9	12.8
70°-80°	479.4	7.8
80°-90°	150.4	2.5
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°	1603.6	26.2
0°-40°	2637.3	43.0
0°-60°	4718.0	77.0
0°-90°	6130.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6130.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2052	2052	2052	2052	2052	
5°	2049	2042	2043	2047	2039	194
15°	1985	1977	1977	1978	1982	558
25°	1843	1850	1840	1842	1846	852
35°	1654	1654	1658	1646	1646	1037
45°	1414	1406	1407	1397	1407	1091
55°	1119	1118	1116	1109	1114	1003
65°	796	801	792	783	788	788
75°	460	459	453	446	453	486
85°	137	135	133	128	136	153
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1590688
CATALOG NUMBER: 24CGTX-65-B35-HCD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2051.7*	*2051.7*	*2051.7*	*2051.7*	*2051.7*
2.5°	*2050.5*	2051.7	2049.4	2048.3	2050.5
5°	*2049.4*	2041.6	2042.7	2047.2	2039.4
7.5°	*2034.9*	2032.7	2039.4	2039.4	2032.7
10°	*2013.7*	2021.5	2019.3	2013.7	2023.7
12.5°	*1996.9*	2000.3	2003.6	2003.6	2005.9
15°	*1984.7*	1976.8	1976.8	1978.0	1982.4
17.5°	*1950.0*	1950.0	1948.9	1950.0	1955.6
20°	*1918.8*	1923.2	1922.1	1918.8	1923.2
22.5°	*1883.0*	1888.6	1888.6	1885.3	1878.6
25°	*1842.8*	1849.5	1839.5	1841.7	1846.2
27.5°	*1810.4*	1799.3	1808.2	1798.1	1803.7
30°	*1765.8*	1757.9	1756.8	1745.6	1754.6
32.5°	*1711.0*	1714.4	1705.4	1697.6	1707.7
35°	*1654.1*	1654.1	1658.5	1646.2	1646.2
37.5°	*1602.7*	1602.7	1597.1	1587.1	1589.3
40°	*1540.1*	1540.1	1531.2	1525.6	1536.8
42.5°	*1485.4*	1476.5	1476.5	1462.0	1466.4
45°	*1413.9*	1406.1	1407.2	1397.2	1407.2
47.5°	*1344.7*	1344.7	1338.0	1327.9	1332.4
50°	*1273.2*	1269.9	1267.6	1256.5	1260.9
52.5°	*1202.9*	1193.9	1196.2	1179.4	1187.2
55°	*1119.1*	1118.0	1115.7	1109.0	1113.5
57.5°	*1044.3*	1040.9	1038.7	1029.7	1036.4
60°	*963.8*	961.6	958.3	950.4	956.0
62.5°	*881.2*	882.3	876.7	865.6	873.4
65°	*796.3*	800.8	791.9	782.9	788.5
67.5°	*710.3*	711.4	707.0	699.2	705.9
70°	*625.4*	627.7	621.0	613.2	621.0
72.5°	*543.9*	543.9	537.2	530.5	536.1
75°	*460.1*	459.0	453.4	445.6	453.4
77.5°	*377.5*	375.3	369.7	363.0	371.9
80°	*294.9*	292.6	289.3	281.4	291.5
82.5°	*215.6*	213.3	212.2	204.4	212.2
85°	*137.4*	135.1	132.9	128.4	136.3
87.5°	*63.7*	63.7	63.7	62.5	69.2
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	15.56	17.23	15.93	17.55	17.86	15.49	17.16	15.86	17.47	17.79
	3H	17.51	19.02	17.88	19.35	19.71	17.43	18.94	17.80	19.27	19.62
	4H	18.28	19.71	18.68	20.06	20.43	18.19	19.62	18.59	19.97	20.34
	6H	18.90	20.23	19.31	20.59	20.98	18.80	20.13	19.21	20.49	20.88
	8H	19.12	20.39	19.54	20.77	21.17	19.02	20.28	19.44	20.67	21.07
	12H	19.28	20.49	19.71	20.87	21.30	19.18	20.39	19.61	20.77	21.20
4H	2H	16.23	17.66	16.63	18.01	18.38	16.18	17.60	16.58	17.95	18.33
	3H	18.41	19.61	18.82	20.01	20.41	18.33	19.53	18.74	19.93	20.33
	4H	19.32	20.41	19.75	20.83	21.26	19.23	20.32	19.66	20.73	21.17
	6H	20.08	21.04	20.53	21.48	21.93	19.97	20.93	20.42	21.37	21.82
	8H	20.36	21.25	20.82	21.70	22.16	20.24	21.14	20.70	21.58	22.04
	12H	20.57	21.38	21.05	21.85	22.32	20.46	21.26	20.93	21.74	22.20
8H	4H	19.68	20.58	20.14	21.02	21.48	19.60	20.49	20.05	20.93	21.40
	6H	20.58	21.33	21.07	21.81	22.29	20.47	21.22	20.97	21.71	22.18
	8H	20.94	21.62	21.45	22.12	22.60	20.83	21.50	21.34	22.01	22.49
	12H	21.25	21.84	21.75	22.33	22.89	21.13	21.72	21.63	22.21	22.77
12H	4H	19.73	20.53	20.21	21.01	21.48	19.65	20.46	20.13	20.93	21.40
	6H	20.66	21.33	21.16	21.83	22.32	20.56	21.23	21.06	21.73	22.22
	8H	21.09	21.68	21.59	22.17	22.73	20.98	21.57	21.48	22.06	22.62

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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: SP1-2507-484-6-R2

Test Date: 08/13/2025

Luminaire Tested: 24CGTX-55HE-B35-HCD

Data in this report applies to families of products including 24CGTX-55HE-B35-HCD

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

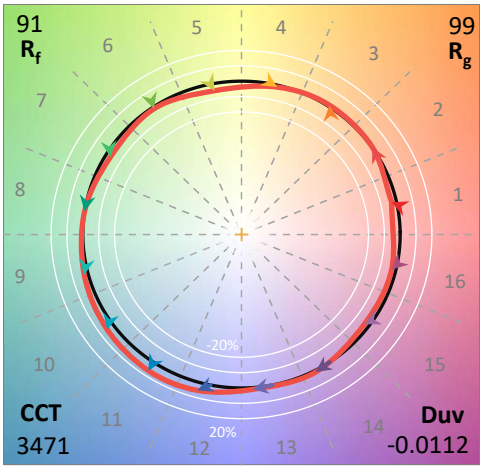
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2507-484-6-R2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/08/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**24CGTX-55HE-B35-HCD**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-484-6 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 Lumen CGTX with MDER board at 3500K

Spectral Parameters

CCT (K):	3471
CIE u':	0.2417
CIE v':	0.4970
Duv:	-0.0112
CIE x:	0.3956
CIE y:	0.3615
CIE z:	0.2429
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	587
Purity:	27.18426
Rf:	90.9
Rg:	99.4

CRI (Ra):	90.5
R1:	93.4
R2:	90.2
R3:	90.1
R4:	96.6
R5:	92.2
R6:	83.3
R7:	88.1
R8:	90.3
R9:	87.9
R10:	81.6
R11:	95.9
R12:	74.5
R13:	91.7
R14:	96.1
R15:	94.9



Test Conditions

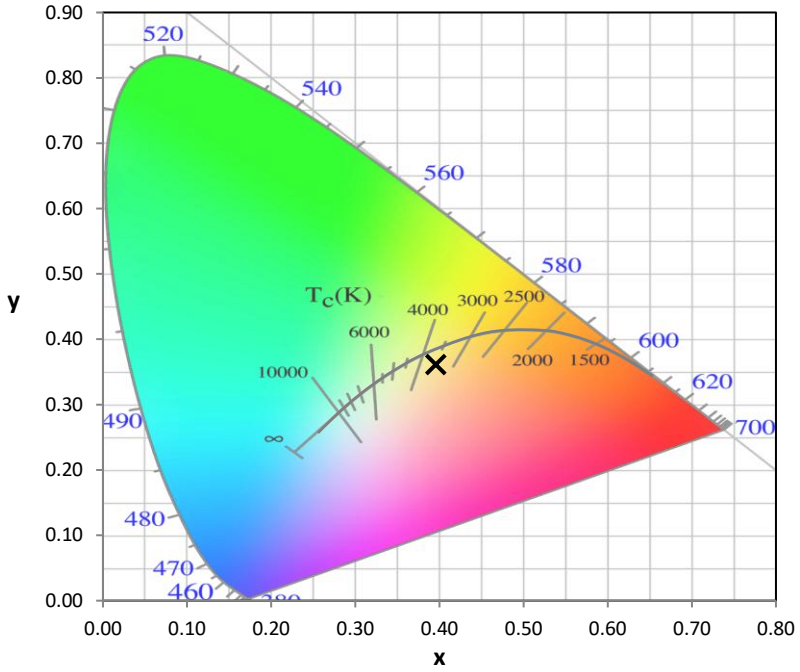
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2507-484-6-R2

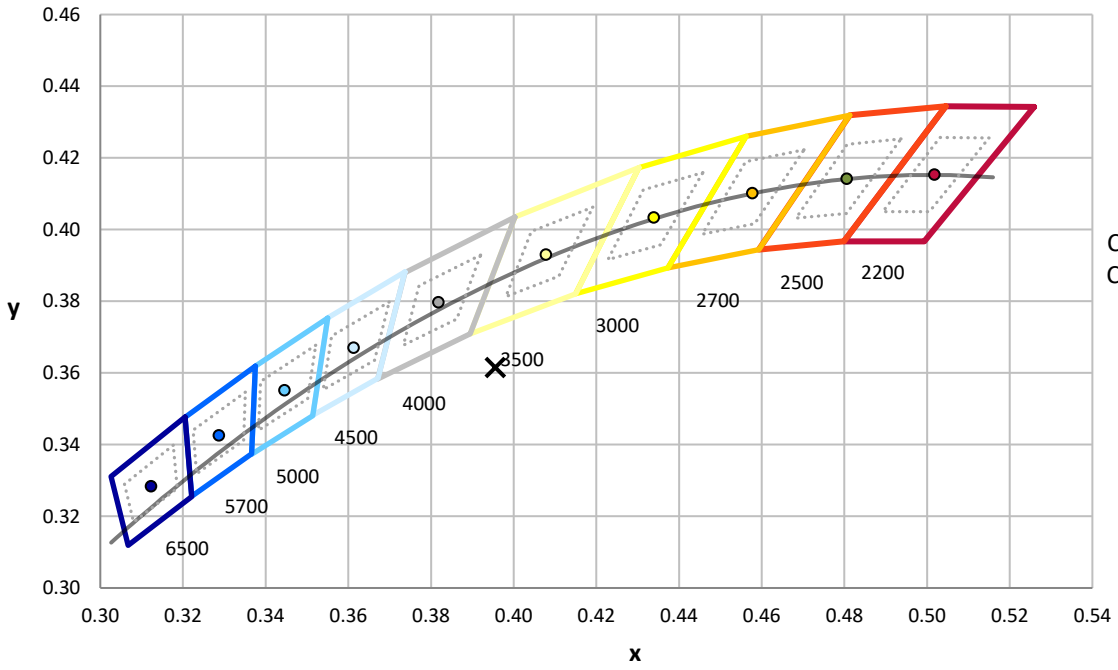
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2507-484-6-R2

CIE 1931 Chromaticity Diagram



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

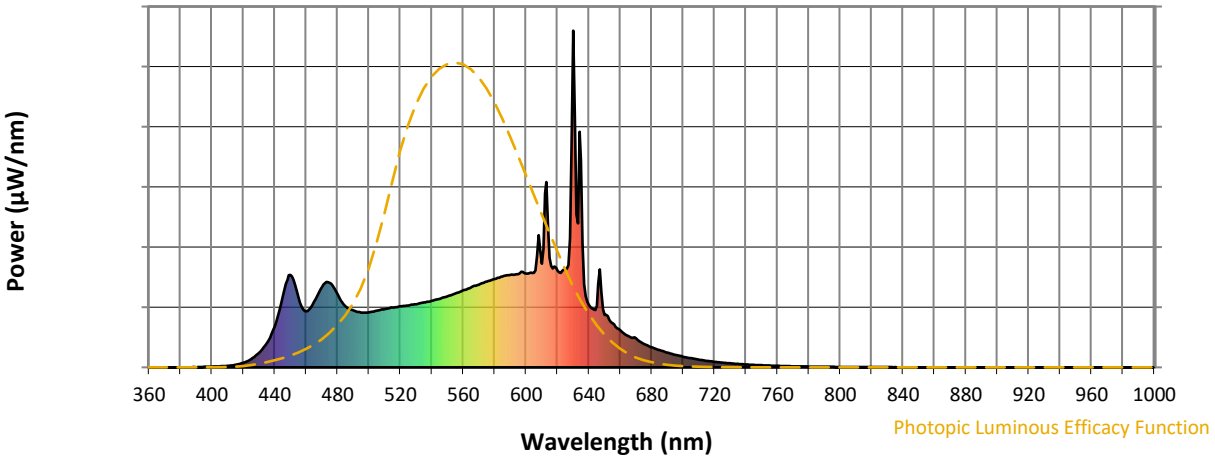


CCT = 3471K
CIE x = 0.3956
CIE y = 0.3615
Duv = -0.0112

Point lies outside the range

REPORT NUMBER: SP1-2507-484-6-R2

Photopic Flux vs. Wavelength

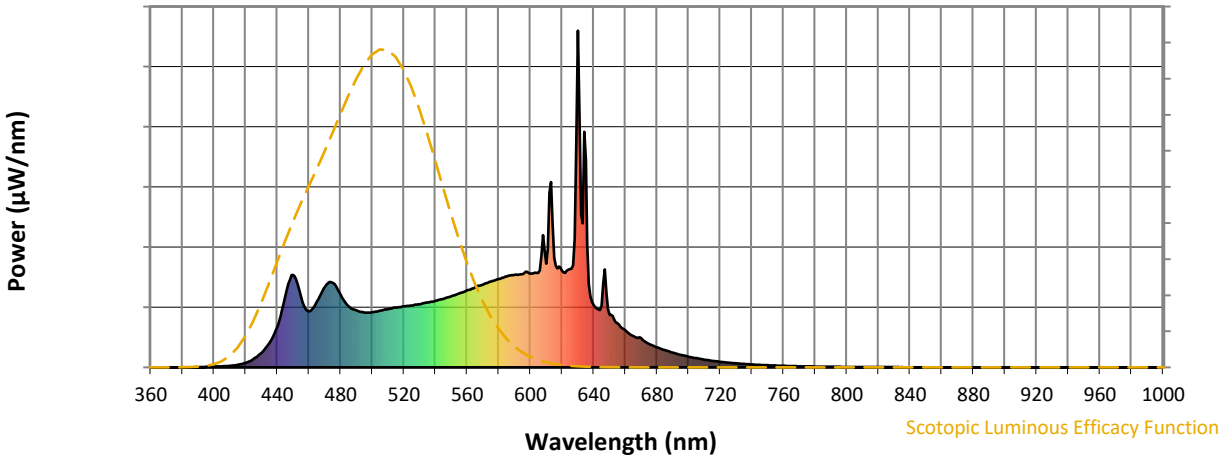


Photopic Lumens: NR

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	169	NR	620	287	NR	750	6	NR	880	0	NR
365	0	NR	495	163	NR	625	292	NR	755	5	NR	885	0	NR
370	0	NR	500	164	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	168	NR	635	615	NR	765	4	NR	895	0	NR
380	0	NR	510	173	NR	640	186	NR	770	3	NR	900	0	NR
385	0	NR	515	178	NR	645	183	NR	775	3	NR	905	0	NR
390	0	NR	520	181	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	184	NR	655	131	NR	785	2	NR	915	0	NR
400	2	NR	530	187	NR	660	111	NR	790	2	NR	920	0	NR
405	3	NR	535	193	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	198	NR	670	86	NR	800	1	NR	930	0	NR
415	7	NR	545	203	NR	675	70	NR	805	1	NR	935	0	NR
420	14	NR	550	211	NR	680	60	NR	810	1	NR	940	0	NR
425	25	NR	555	220	NR	685	51	NR	815	1	NR	945	0	NR
430	43	NR	560	229	NR	690	44	NR	820	1	NR	950	0	NR
435	72	NR	565	237	NR	695	37	NR	825	1	NR	955	0	NR
440	121	NR	570	246	NR	700	32	NR	830	1	NR	960	0	NR
445	209	NR	575	255	NR	705	27	NR	835	1	NR	965	0	NR
450	275	NR	580	263	NR	710	23	NR	840	0	NR	970	0	NR
455	209	NR	585	270	NR	715	20	NR	845	0	NR	975	0	NR
460	166	NR	590	275	NR	720	17	NR	850	0	NR	980	0	NR
465	195	NR	595	277	NR	725	14	NR	855	0	NR	985	0	NR
470	239	NR	600	279	NR	730	12	NR	860	0	NR	990	0	NR
475	251	NR	605	281	NR	735	10	NR	865	0	NR	995	0	NR
480	217	NR	610	308	NR	740	9	NR	870	0	NR	1000	0	NR
485	182	NR	615	325	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2507-484-6-R2

Scotopic Flux vs. Wavelength

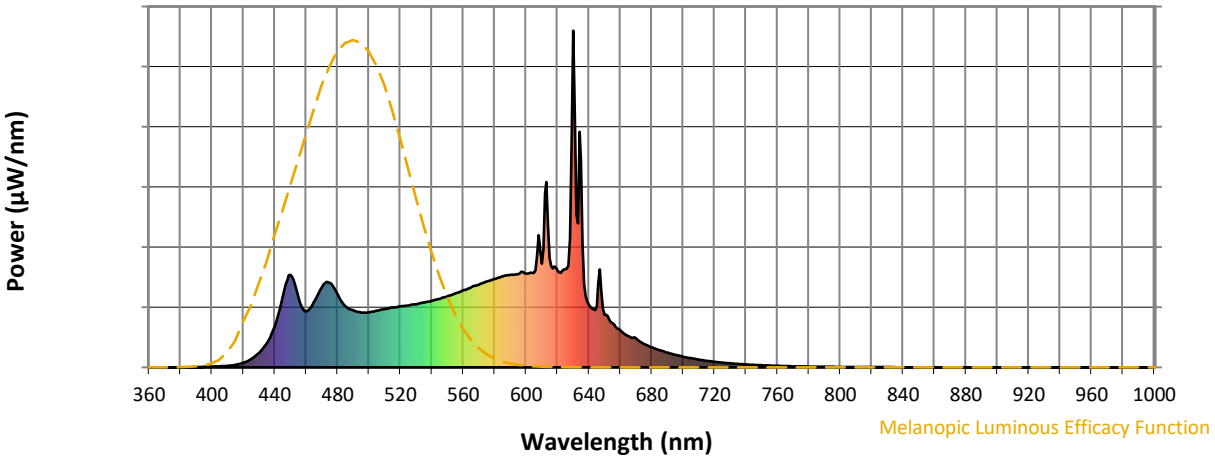


Scotopic Lumens: NR **S/P: 1.8**

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	169	NR	620	287	NR	750	6	NR	880	0	NR
365	0	NR	495	163	NR	625	292	NR	755	5	NR	885	0	NR
370	0	NR	500	164	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	168	NR	635	615	NR	765	4	NR	895	0	NR
380	0	NR	510	173	NR	640	186	NR	770	3	NR	900	0	NR
385	0	NR	515	178	NR	645	183	NR	775	3	NR	905	0	NR
390	0	NR	520	181	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	184	NR	655	131	NR	785	2	NR	915	0	NR
400	2	NR	530	187	NR	660	111	NR	790	2	NR	920	0	NR
405	3	NR	535	193	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	198	NR	670	86	NR	800	1	NR	930	0	NR
415	7	NR	545	203	NR	675	70	NR	805	1	NR	935	0	NR
420	14	NR	550	211	NR	680	60	NR	810	1	NR	940	0	NR
425	25	NR	555	220	NR	685	51	NR	815	1	NR	945	0	NR
430	43	NR	560	229	NR	690	44	NR	820	1	NR	950	0	NR
435	72	NR	565	237	NR	695	37	NR	825	1	NR	955	0	NR
440	121	NR	570	246	NR	700	32	NR	830	1	NR	960	0	NR
445	209	NR	575	255	NR	705	27	NR	835	1	NR	965	0	NR
450	275	NR	580	263	NR	710	23	NR	840	0	NR	970	0	NR
455	209	NR	585	270	NR	715	20	NR	845	0	NR	975	0	NR
460	166	NR	590	275	NR	720	17	NR	850	0	NR	980	0	NR
465	195	NR	595	277	NR	725	14	NR	855	0	NR	985	0	NR
470	239	NR	600	279	NR	730	12	NR	860	0	NR	990	0	NR
475	251	NR	605	281	NR	735	10	NR	865	0	NR	995	0	NR
480	217	NR	610	308	NR	740	9	NR	870	0	NR	1000	0	NR
485	182	NR	615	325	NR	745	7	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.93**

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	169	NR	620	287	NR	750	6	NR	880	0	NR
365	0	NR	495	163	NR	625	292	NR	755	5	NR	885	0	NR
370	0	NR	500	164	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	168	NR	635	615	NR	765	4	NR	895	0	NR
380	0	NR	510	173	NR	640	186	NR	770	3	NR	900	0	NR
385	0	NR	515	178	NR	645	183	NR	775	3	NR	905	0	NR
390	0	NR	520	181	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	184	NR	655	131	NR	785	2	NR	915	0	NR
400	2	NR	530	187	NR	660	111	NR	790	2	NR	920	0	NR
405	3	NR	535	193	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	198	NR	670	86	NR	800	1	NR	930	0	NR
415	7	NR	545	203	NR	675	70	NR	805	1	NR	935	0	NR
420	14	NR	550	211	NR	680	60	NR	810	1	NR	940	0	NR
425	25	NR	555	220	NR	685	51	NR	815	1	NR	945	0	NR
430	43	NR	560	229	NR	690	44	NR	820	1	NR	950	0	NR
435	72	NR	565	237	NR	695	37	NR	825	1	NR	955	0	NR
440	121	NR	570	246	NR	700	32	NR	830	1	NR	960	0	NR
445	209	NR	575	255	NR	705	27	NR	835	1	NR	965	0	NR
450	275	NR	580	263	NR	710	23	NR	840	0	NR	970	0	NR
455	209	NR	585	270	NR	715	20	NR	845	0	NR	975	0	NR
460	166	NR	590	275	NR	720	17	NR	850	0	NR	980	0	NR
465	195	NR	595	277	NR	725	14	NR	855	0	NR	985	0	NR
470	239	NR	600	279	NR	730	12	NR	860	0	NR	990	0	NR
475	251	NR	605	281	NR	735	10	NR	865	0	NR	995	0	NR
480	217	NR	610	308	NR	740	9	NR	870	0	NR	1000	0	NR
485	182	NR	615	325	NR	745	7	NR	875	0	NR			

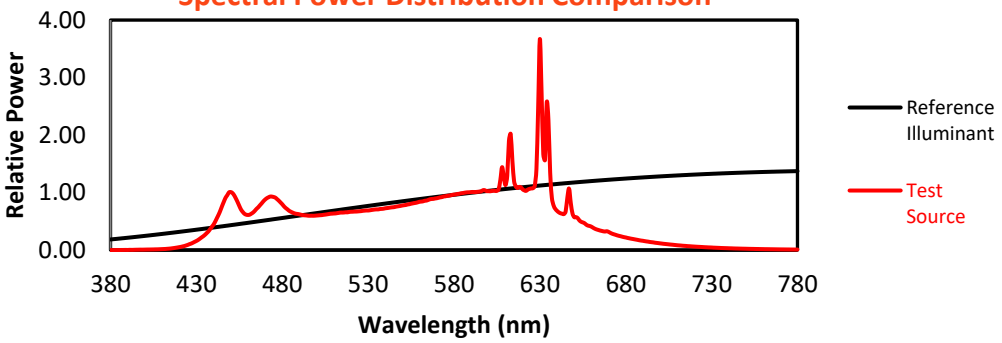
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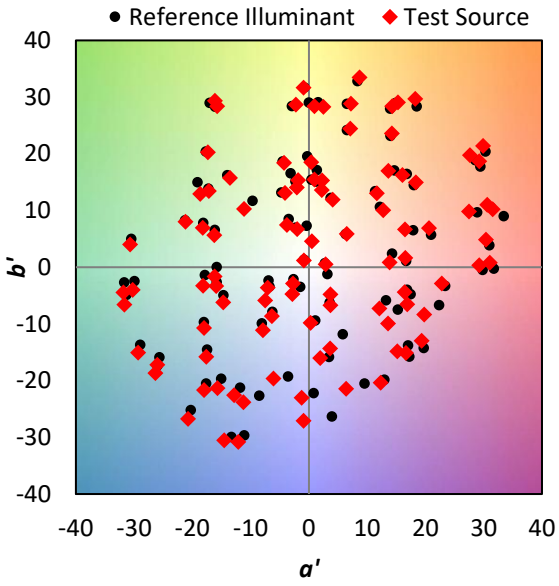
Summary

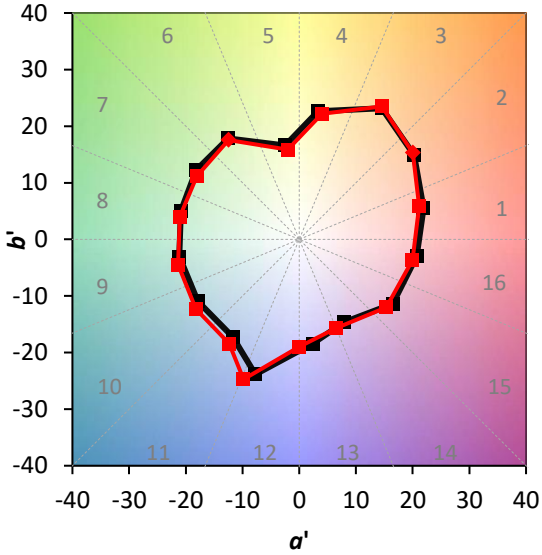
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R_g = 99.4
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R_9 = 87.9

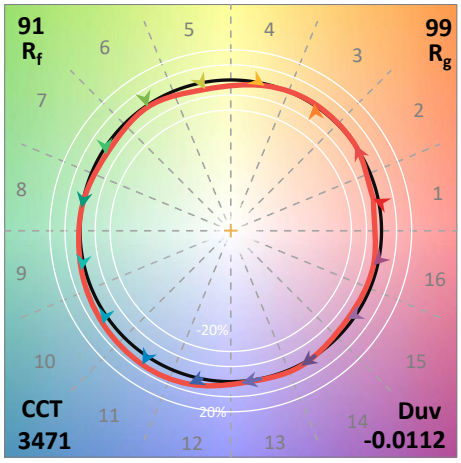
Spectral Power Distribution Comparison

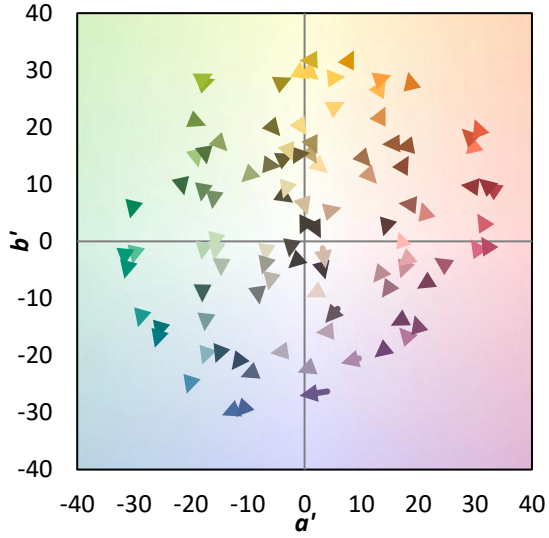


Color Vector Graphics







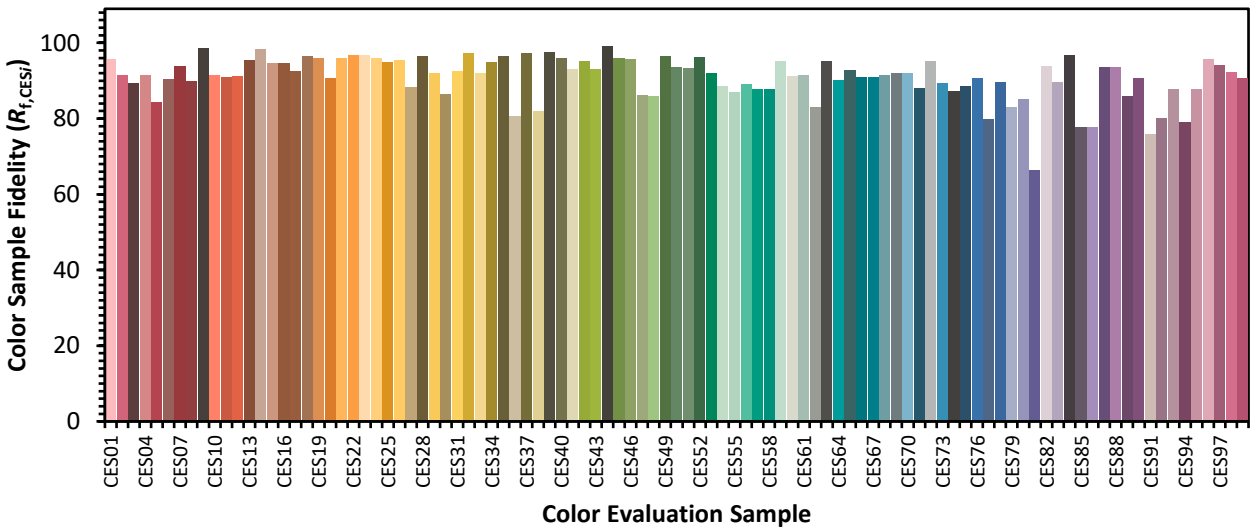


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Individual Sample Fidelity Index ($R_{f,i}$)

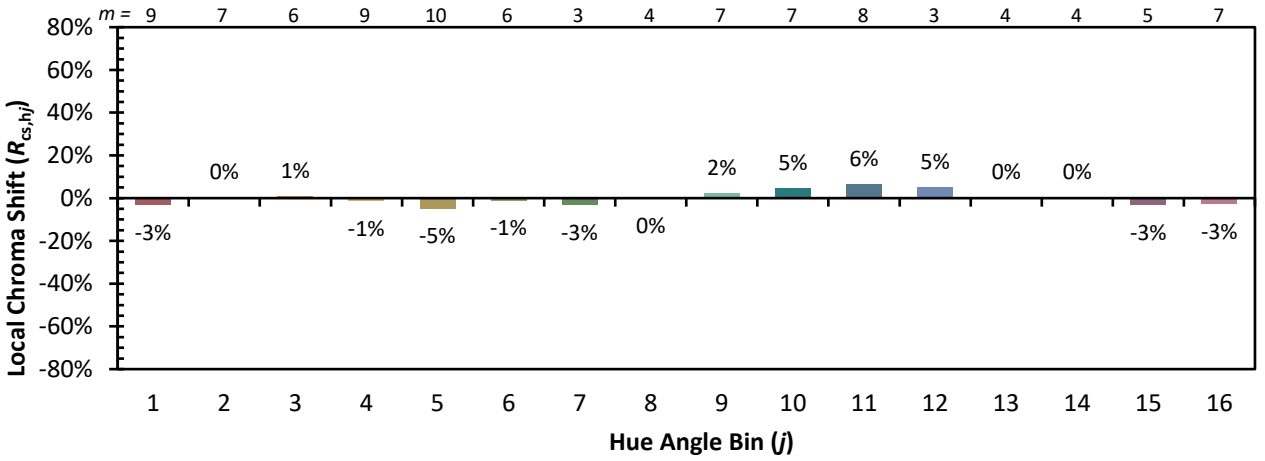
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CES02 = 63	CES27 = 88	CES52 = 96	CES77 = 80
CES03 = 32	CES28 = 96	CES53 = 92	CES78 = 90
CES04 = 70	CES29 = 92	CES54 = 88	CES79 = 83
CES05 = 50	CES30 = 86	CES55 = 87	CES80 = 85
CES06 = 51	CES31 = 92	CES56 = 89	CES81 = 66
CES07 = 43	CES32 = 97	CES57 = 88	CES82 = 94
CES08 = 42	CES33 = 92	CES58 = 88	CES83 = 90
CES09 = 29	CES34 = 95	CES59 = 95	CES84 = 97
CES10 = 76	CES35 = 97	CES60 = 91	CES85 = 78
CES11 = 58	CES36 = 81	CES61 = 92	CES86 = 78
CES12 = 65	CES37 = 97	CES62 = 83	CES87 = 93
CES13 = 44	CES38 = 82	CES63 = 95	CES88 = 93
CES14 = 74	CES39 = 97	CES64 = 90	CES89 = 86
CES15 = 72	CES40 = 96	CES65 = 93	CES90 = 91
CES16 = 48	CES41 = 93	CES66 = 91	CES91 = 76
CES17 = 49	CES42 = 95	CES67 = 91	CES92 = 80
CES18 = 57	CES43 = 93	CES68 = 92	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 92	CES94 = 79
CES20 = 67	CES45 = 96	CES70 = 92	CES95 = 88
CES21 = 86	CES46 = 96	CES71 = 88	CES96 = 96
CES22 = 78	CES47 = 86	CES72 = 95	CES97 = 94
CES23 = 91	CES48 = 86	CES73 = 89	CES98 = 92
CES24 = 90	CES49 = 97	CES74 = 87	CES99 = 91
CES25 = 71	CES50 = 94	CES75 = 89	

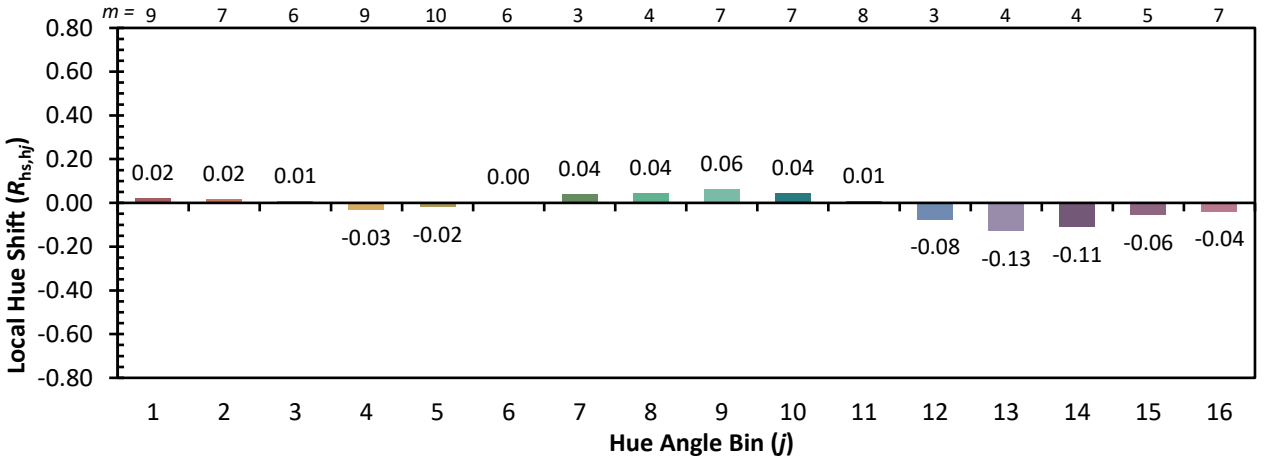


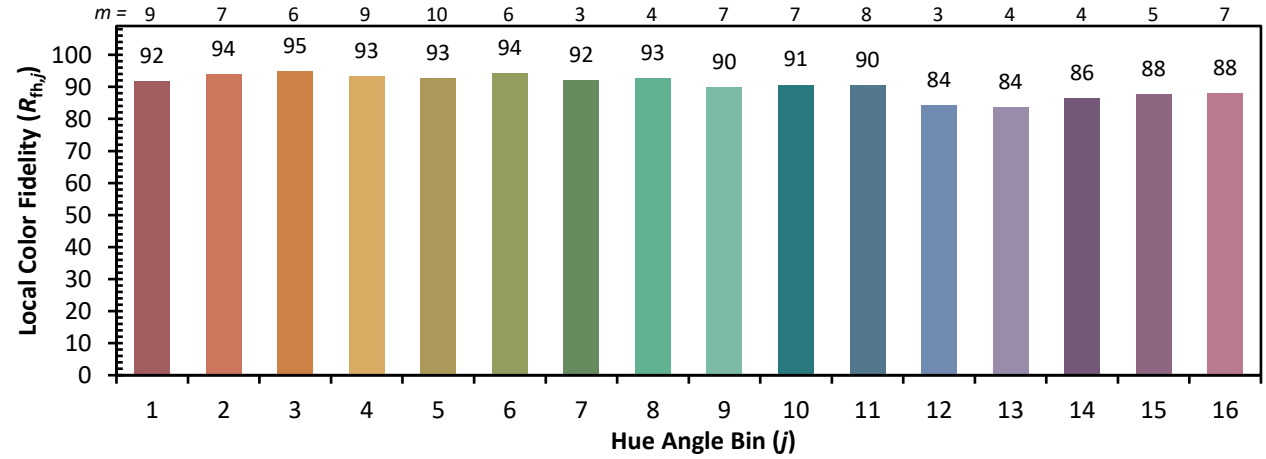
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Color Rendition by Hue-Angle Bin



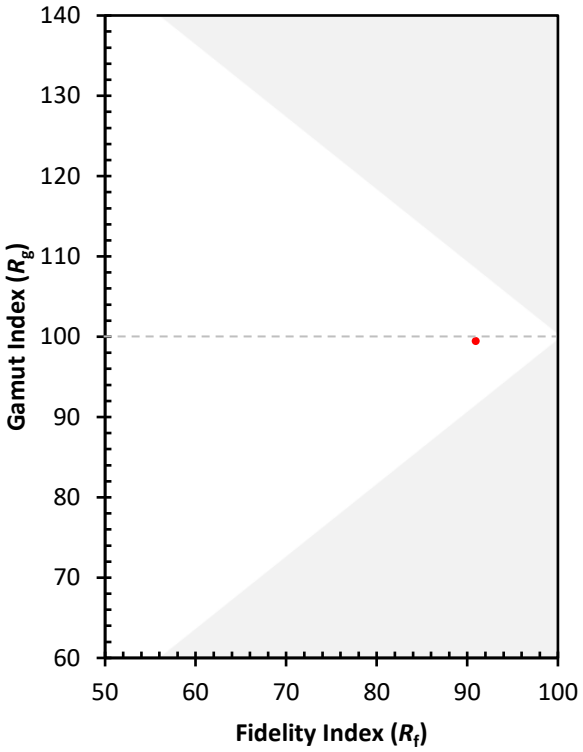


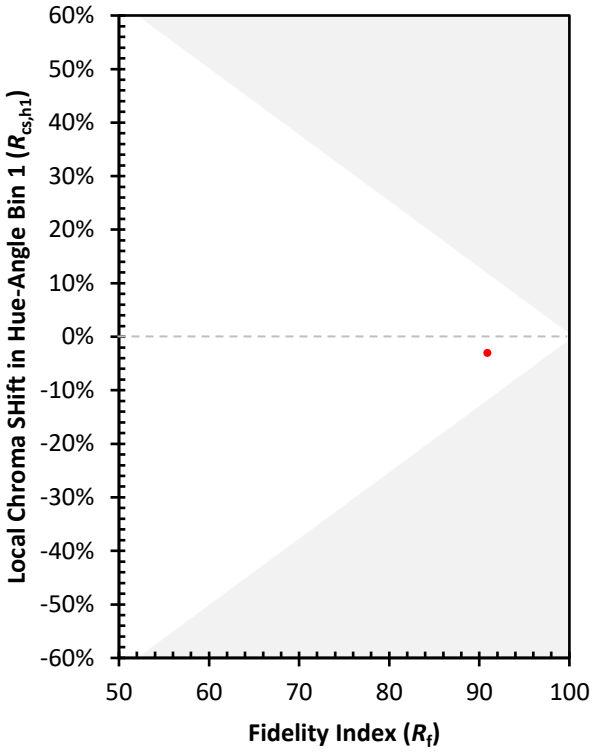


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Measure Comparisons





(END OF REPORT)