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: P1559272

Luminaire Tested: 22CGTX-50-B2750-W2D2-4500K

Issue Date: 8/30/2026

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:	P1559272
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-48)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/30/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-50-B2750-W2D2-4500K
Description:	2X2 5000 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 4500K CCT WITH FROSTED SMOOTH l
Light Source:	4500K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5293.3 lumens
Efficiency:	N/A
Efficacy:	103.0 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.28 / 1.4
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	51.4
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

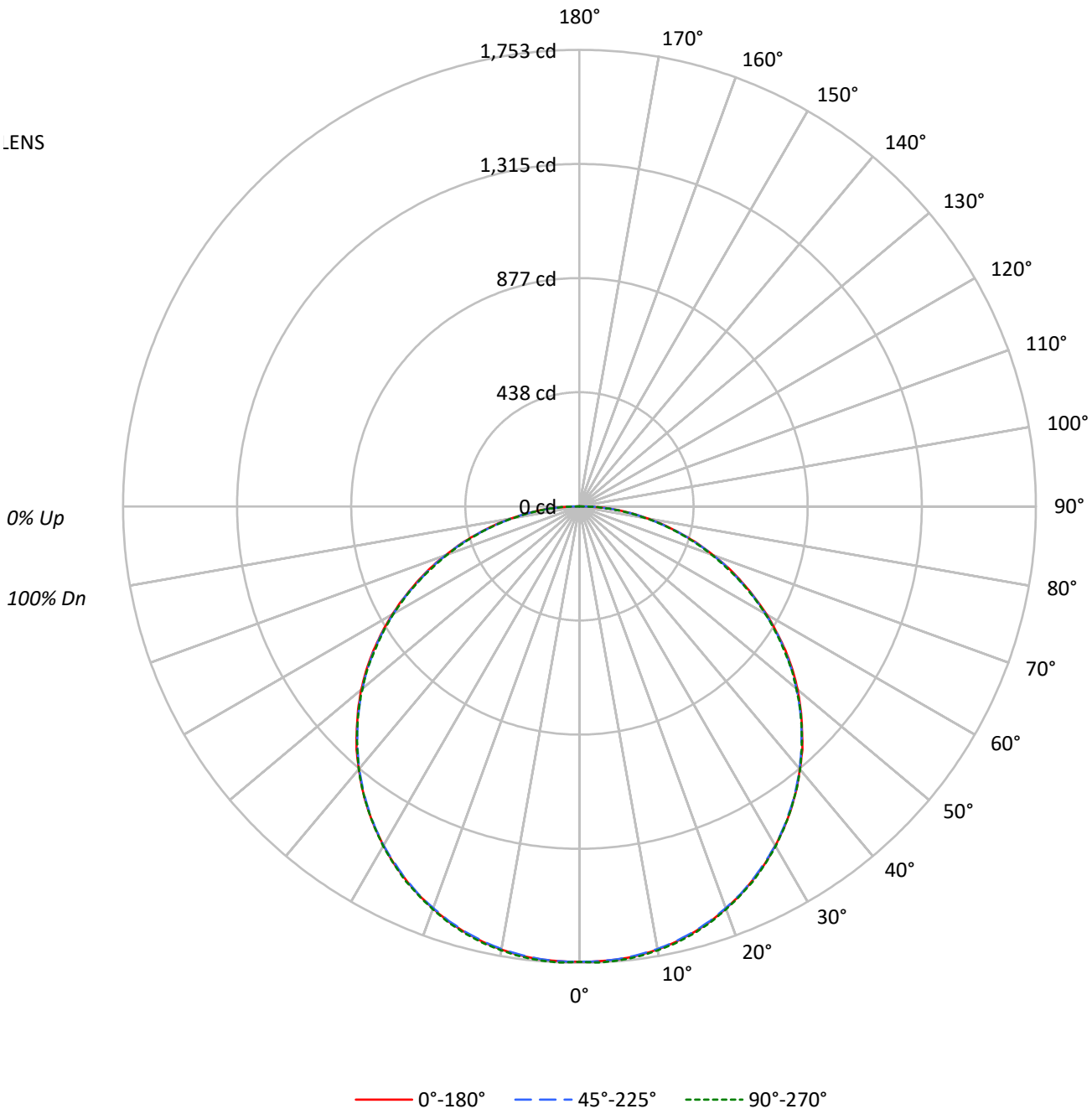


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Scaled Data Report

TEST NUMBER: P1559272
CATALOG NUMBER: 22CGTX-50-B2750-W2D2-4500K

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	94	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4707	4707	4707
5°	4716	4714	4727
10°	4722	4716	4730
15°	4719	4713	4730
20°	4707	4701	4715
25°	4692	4690	4704
30°	4674	4674	4683
35°	4657	4647	4657
40°	4627	4620	4631
45°	4601	4589	4593
50°	4577	4552	4552
55°	4532	4513	4494
60°	4469	4442	4436
65°	4386	4348	4341
70°	4282	4282	4227
75°	4186	4165	4113
80°	4093	4046	3967
85°	4153	3968	3906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4601 cd/sqm

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Scaled Data Report

TEST NUMBER: P1559272
CATALOG NUMBER: 22CGTX-50-B2750-W2D2-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.1
10°-20°	478.1	9.0
20°-30°	728.7	13.8
30°-40°	886.2	16.7
40°-50°	931.3	17.6
50°-60°	858.9	16.2
60°-70°	678.0	12.8
70°-80°	423.0	8.0
80°-90°	143.0	2.7
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°	1372.8	25.9
0°-40°	2259.0	42.7
0°-60°	4049.3	76.5
0°-90°	5293.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5293.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1746	1744	1745	1747	1750	166
15°	1694	1692	1692	1695	1698	478
25°	1580	1580	1579	1582	1584	729
35°	1418	1417	1415	1417	1418	887
45°	1209	1209	1206	1206	1207	934
55°	966	961	962	961	958	863
65°	689	688	683	684	682	682
75°	403	403	401	397	396	427
85°	134	132	128	128	126	147
90°	0	0	0	0	0	

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TEST NUMBER: P1559272
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.1	1749.1	1749.1	1749.1	*1749.1*
2.5°	*1748.1*	*1747.0*	*1748.1*	*1751.1*	*1753.1*
5°	1746.0	1744.0	1745.0	1747.0	*1750.1*
7.5°	1739.0	1737.0	1737.0	1741.0	*1743.0*
10°	1728.0	1726.0	1726.0	1729.0	*1731.0*
12.5°	1712.9	1711.9	1710.9	1713.9	*1716.9*
15°	1693.8	1691.8	1691.8	1694.8	*1697.8*
17.5°	1671.7	1669.7	1668.7	1671.7	*1674.8*
20°	1643.6	1642.6	1641.6	1645.6	*1646.6*
22.5°	1614.5	1613.5	1612.5	1615.5	*1616.5*
25°	1580.4	1580.4	1579.4	1582.4	*1584.4*
27.5°	1545.2	1543.2	1541.2	1545.2	*1546.2*
30°	1504.1	1505.1	1504.1	1505.1	*1507.1*
32.5°	1462.9	1461.9	1460.9	1462.9	*1462.9*
35°	1417.7	1416.7	1414.7	1416.7	*1417.7*
37.5°	1369.5	1367.5	1366.5	1368.5	*1369.5*
40°	1317.3	1317.3	1315.3	1317.3	*1318.3*
42.5°	1267.1	1265.1	1261.1	1261.1	*1263.1*
45°	1208.9	1208.9	1205.9	1205.9	*1206.9*
47.5°	1152.6	1151.6	1147.6	1148.6	*1149.6*
50°	1093.4	1090.4	1087.4	1086.4	*1087.4*
52.5°	1031.2	1028.1	1026.1	1025.1	*1026.1*
55°	965.9	960.9	961.9	960.9	*957.9*
57.5°	897.6	894.6	894.6	891.6	*891.6*
60°	830.3	828.3	825.3	823.3	*824.3*
62.5°	759.1	758.1	756.0	754.0	*753.0*
65°	688.8	687.8	682.8	683.8	*681.7*
67.5°	620.5	617.5	615.5	609.5	*607.5*
70°	544.2	546.2	544.2	540.2	*537.2*
72.5°	475.9	473.9	471.9	467.9	*466.9*
75°	402.6	402.6	400.6	396.6	*395.6*
77.5°	335.4	335.4	329.3	326.3	*327.3*
80°	264.1	265.1	261.1	258.0	*256.0*
82.5°	199.8	198.8	194.8	192.8	*192.8*
85°	134.5	132.5	128.5	127.5	*126.5*
87.5°	73.3	70.3	68.3	68.3	*68.3*
90°	0.0	0.0	0.0	0.0	*0.0*

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TEST NUMBER: P1559272
CATALOG NUMBER: 22CGTX-50-B2750-W2D2-4500K

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	17.42	19.10	17.79	19.41	19.72	17.40	19.07	17.76	19.38	19.70
	3H	19.41	20.93	19.78	21.25	21.61	19.34	20.86	19.72	21.19	21.55
	4H	20.20	21.63	20.60	21.98	22.36	20.13	21.56	20.53	21.91	22.28
	6H	20.86	22.19	21.27	22.55	22.94	20.76	22.09	21.17	22.45	22.84
	8H	21.10	22.37	21.52	22.76	23.16	20.99	22.27	21.42	22.66	23.05
	12H	21.29	22.51	21.72	22.90	23.32	21.18	22.40	21.60	22.78	23.21
4H	2H	18.10	19.53	18.50	19.88	20.25	18.08	19.51	18.47	19.85	20.23
	3H	20.32	21.52	20.72	21.92	22.32	20.26	21.47	20.67	21.87	22.27
	4H	21.25	22.35	21.68	22.76	23.20	21.18	22.28	21.61	22.69	23.13
	6H	22.06	23.02	22.51	23.46	23.91	21.96	22.92	22.41	23.36	23.82
	8H	22.36	23.27	22.82	23.71	24.17	22.26	23.16	22.72	23.60	24.06
	12H	22.62	23.43	23.10	23.91	24.38	22.50	23.31	22.98	23.79	24.25
8H	4H	21.63	22.53	22.09	22.97	23.43	21.57	22.47	22.02	22.91	23.37
	6H	22.58	23.33	23.07	23.82	24.29	22.49	23.25	22.98	23.73	24.21
	8H	22.99	23.66	23.49	24.17	24.65	22.88	23.56	23.39	24.06	24.55
	12H	23.35	23.95	23.85	24.44	25.00	23.22	23.82	23.73	24.31	24.87
12H	4H	21.68	22.49	22.16	22.97	23.44	21.62	22.44	22.10	22.91	23.38
	6H	22.67	23.35	23.17	23.85	24.33	22.58	23.26	23.09	23.77	24.25
	8H	23.14	23.74	23.65	24.23	24.79	23.04	23.65	23.55	24.14	24.69

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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: SP1-2505-441-26-R2

Test Date: 06/11/2025

Luminaire Tested: 24CGTX-45-B2750-W2D-4500K

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

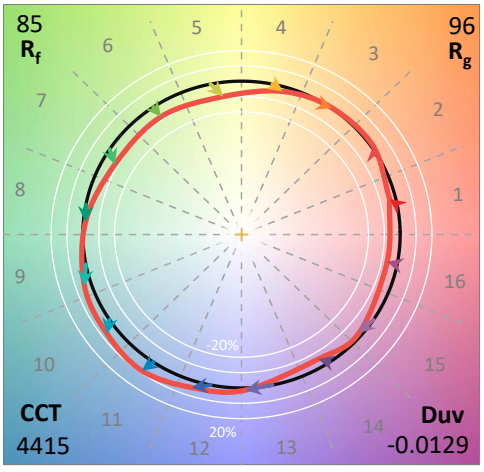
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-26-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-45-B2750-W2D-4500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-26-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 4500 LUMEN CGTX

Spectral Parameters

CCT (K):	4415	CRI (Ra):	84.8		
CIE u':	0.2266	R1:	90.4	R9:	89.2
CIE v':	0.4791	R2:	84.7	R10:	69.6
Duv:	-0.0129	R3:	81.6	R11:	89.5
CIE x:	0.3582	R4:	87.2	R12:	66.3
CIE y:	0.3366	R5:	88.3	R13:	88.0
CIE z:	0.3052	R6:	78.2	R14:	91.2
Peak Wavelength (nm):	630	R7:	81.9	R15:	91.1
Dominant Wavelength (nm):	600	R8:	86.0		
Purity:	8.455821				
Rf:	85.3				
Rg:	95.6				



Test Conditions

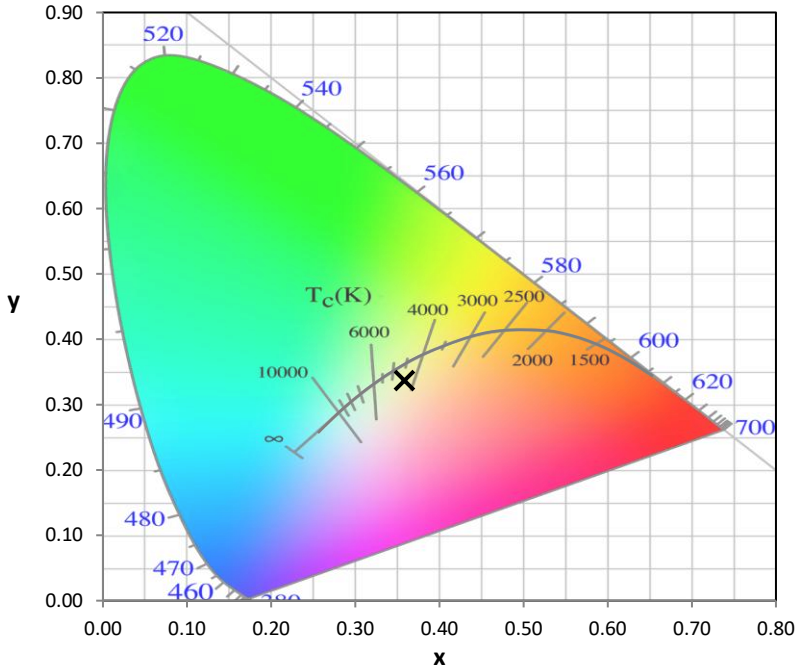
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2505-441-26-R2

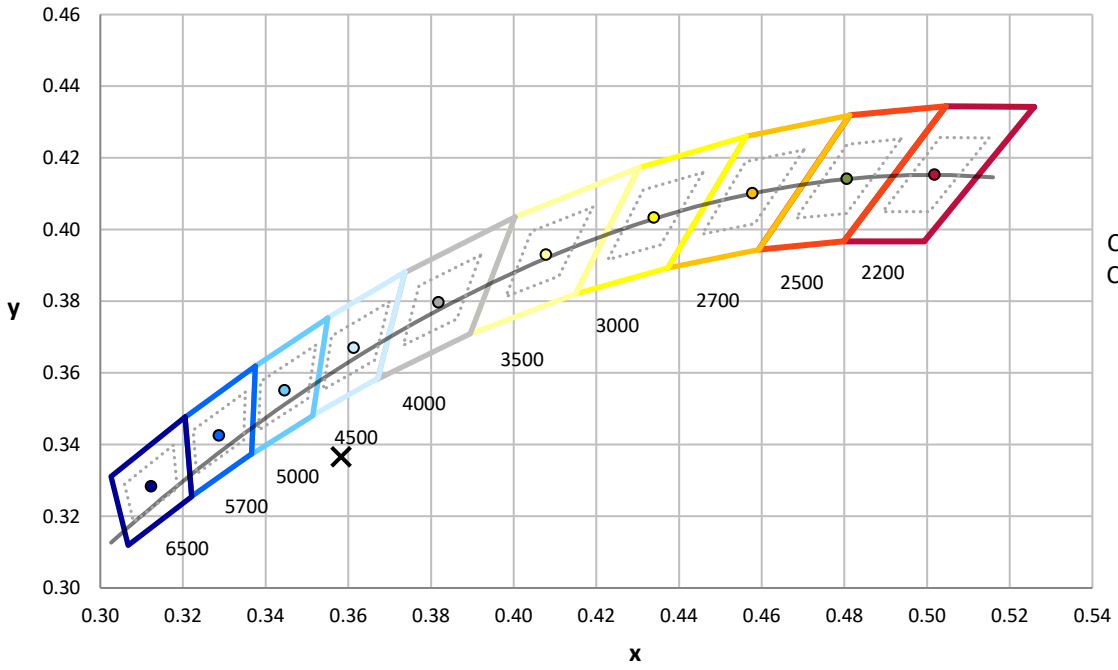
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



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

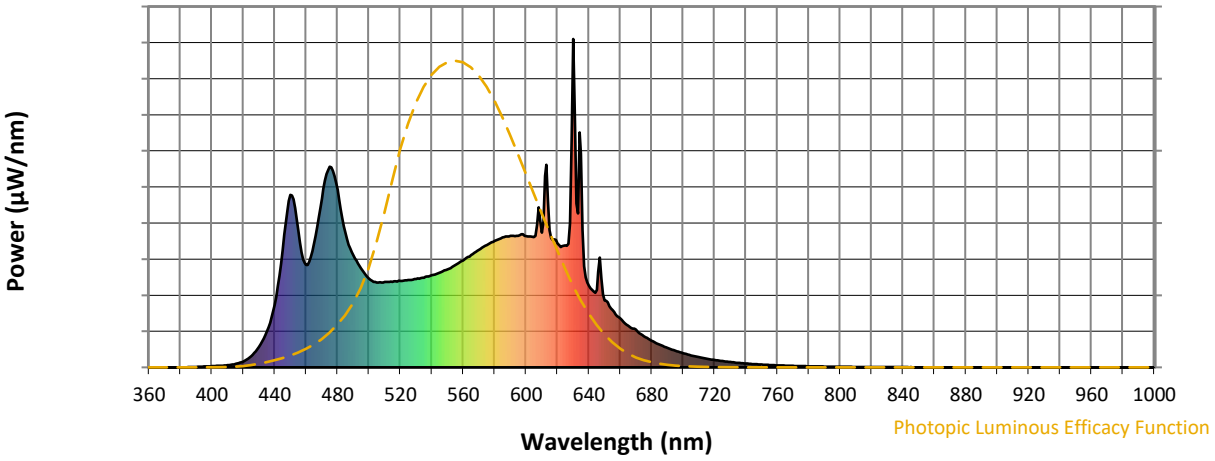


CCT = 4415K
CIE x = 0.3582
CIE y = 0.3366
Duv = -0.0129

Point lies outside the range

REPORT NUMBER: SP1-2505-441-26-R2

Photopic Flux vs. Wavelength

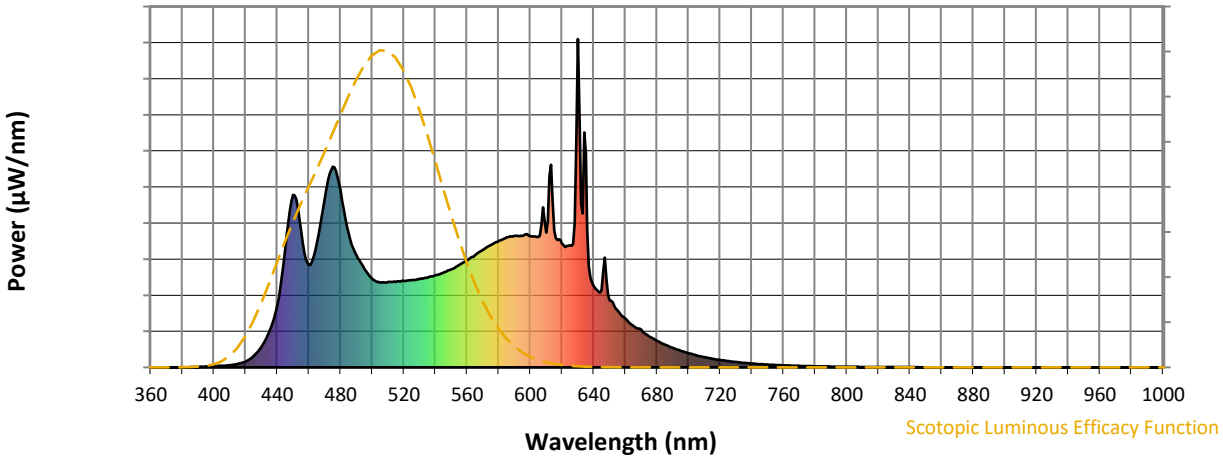


Photopic Lumens: NR

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	377	NR	750	8	NR	880	0	NR
365	0	NR	495	301	NR	625	371	NR	755	7	NR	885	0	NR
370	0	NR	500	270	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	259	NR	635	650	NR	765	5	NR	895	0	NR
380	0	NR	510	260	NR	640	249	NR	770	4	NR	900	0	NR
385	1	NR	515	260	NR	645	236	NR	775	4	NR	905	0	NR
390	1	NR	520	263	NR	650	204	NR	780	3	NR	910	0	NR
395	3	NR	525	266	NR	655	174	NR	785	3	NR	915	0	NR
400	4	NR	530	269	NR	660	149	NR	790	2	NR	920	0	NR
405	5	NR	535	273	NR	665	126	NR	795	2	NR	925	0	NR
410	7	NR	540	280	NR	670	115	NR	800	2	NR	930	0	NR
415	10	NR	545	289	NR	675	94	NR	805	2	NR	935	0	NR
420	18	NR	550	298	NR	680	81	NR	810	1	NR	940	0	NR
425	34	NR	555	312	NR	685	69	NR	815	1	NR	945	0	NR
430	62	NR	560	326	NR	690	59	NR	820	1	NR	950	0	NR
435	110	NR	565	342	NR	695	51	NR	825	1	NR	955	0	NR
440	191	NR	570	358	NR	700	43	NR	830	1	NR	960	0	NR
445	357	NR	575	373	NR	705	37	NR	835	1	NR	965	0	NR
450	525	NR	580	385	NR	710	31	NR	840	1	NR	970	0	NR
455	416	NR	585	396	NR	715	26	NR	845	1	NR	975	0	NR
460	312	NR	590	400	NR	720	22	NR	850	0	NR	980	0	NR
465	377	NR	595	400	NR	725	19	NR	855	0	NR	985	0	NR
470	514	NR	600	399	NR	730	16	NR	860	0	NR	990	0	NR
475	611	NR	605	397	NR	735	14	NR	865	0	NR	995	0	NR
480	541	NR	610	410	NR	740	12	NR	870	0	NR	1000	0	NR
485	411	NR	615	418	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-26-R2

Scotopic Flux vs. Wavelength

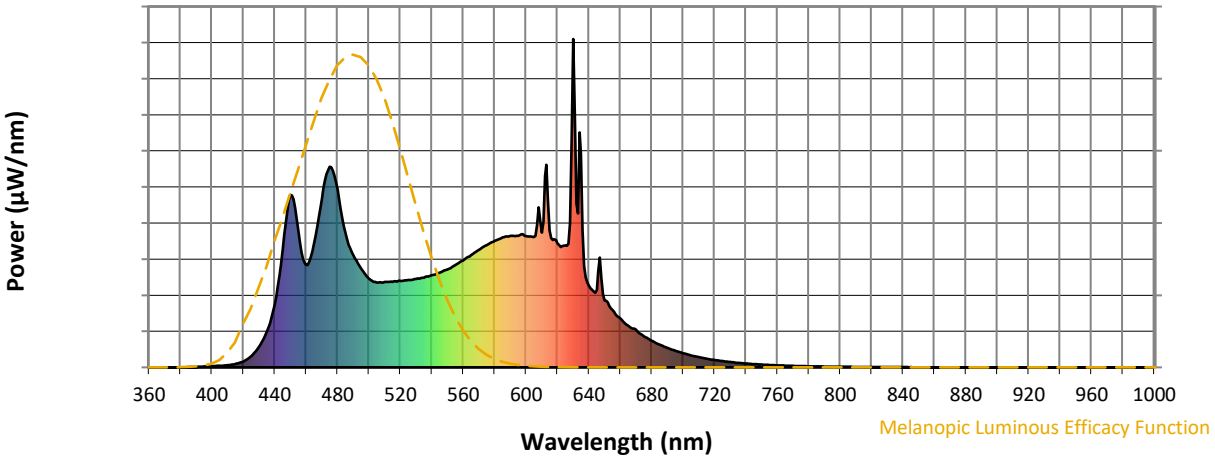


Scotopic Lumens: NR **S/P: 2.18**

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	377	NR	750	8	NR	880	0	NR
365	0	NR	495	301	NR	625	371	NR	755	7	NR	885	0	NR
370	0	NR	500	270	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	259	NR	635	650	NR	765	5	NR	895	0	NR
380	0	NR	510	260	NR	640	249	NR	770	4	NR	900	0	NR
385	1	NR	515	260	NR	645	236	NR	775	4	NR	905	0	NR
390	1	NR	520	263	NR	650	204	NR	780	3	NR	910	0	NR
395	3	NR	525	266	NR	655	174	NR	785	3	NR	915	0	NR
400	4	NR	530	269	NR	660	149	NR	790	2	NR	920	0	NR
405	5	NR	535	273	NR	665	126	NR	795	2	NR	925	0	NR
410	7	NR	540	280	NR	670	115	NR	800	2	NR	930	0	NR
415	10	NR	545	289	NR	675	94	NR	805	2	NR	935	0	NR
420	18	NR	550	298	NR	680	81	NR	810	1	NR	940	0	NR
425	34	NR	555	312	NR	685	69	NR	815	1	NR	945	0	NR
430	62	NR	560	326	NR	690	59	NR	820	1	NR	950	0	NR
435	110	NR	565	342	NR	695	51	NR	825	1	NR	955	0	NR
440	191	NR	570	358	NR	700	43	NR	830	1	NR	960	0	NR
445	357	NR	575	373	NR	705	37	NR	835	1	NR	965	0	NR
450	525	NR	580	385	NR	710	31	NR	840	1	NR	970	0	NR
455	416	NR	585	396	NR	715	26	NR	845	1	NR	975	0	NR
460	312	NR	590	400	NR	720	22	NR	850	0	NR	980	0	NR
465	377	NR	595	400	NR	725	19	NR	855	0	NR	985	0	NR
470	514	NR	600	399	NR	730	16	NR	860	0	NR	990	0	NR
475	611	NR	605	397	NR	735	14	NR	865	0	NR	995	0	NR
480	541	NR	610	410	NR	740	12	NR	870	0	NR	1000	0	NR
485	411	NR	615	418	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 5.03**

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	377	NR	750	8	NR	880	0	NR
365	0	NR	495	301	NR	625	371	NR	755	7	NR	885	0	NR
370	0	NR	500	270	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	259	NR	635	650	NR	765	5	NR	895	0	NR
380	0	NR	510	260	NR	640	249	NR	770	4	NR	900	0	NR
385	1	NR	515	260	NR	645	236	NR	775	4	NR	905	0	NR
390	1	NR	520	263	NR	650	204	NR	780	3	NR	910	0	NR
395	3	NR	525	266	NR	655	174	NR	785	3	NR	915	0	NR
400	4	NR	530	269	NR	660	149	NR	790	2	NR	920	0	NR
405	5	NR	535	273	NR	665	126	NR	795	2	NR	925	0	NR
410	7	NR	540	280	NR	670	115	NR	800	2	NR	930	0	NR
415	10	NR	545	289	NR	675	94	NR	805	2	NR	935	0	NR
420	18	NR	550	298	NR	680	81	NR	810	1	NR	940	0	NR
425	34	NR	555	312	NR	685	69	NR	815	1	NR	945	0	NR
430	62	NR	560	326	NR	690	59	NR	820	1	NR	950	0	NR
435	110	NR	565	342	NR	695	51	NR	825	1	NR	955	0	NR
440	191	NR	570	358	NR	700	43	NR	830	1	NR	960	0	NR
445	357	NR	575	373	NR	705	37	NR	835	1	NR	965	0	NR
450	525	NR	580	385	NR	710	31	NR	840	1	NR	970	0	NR
455	416	NR	585	396	NR	715	26	NR	845	1	NR	975	0	NR
460	312	NR	590	400	NR	720	22	NR	850	0	NR	980	0	NR
465	377	NR	595	400	NR	725	19	NR	855	0	NR	985	0	NR
470	514	NR	600	399	NR	730	16	NR	860	0	NR	990	0	NR
475	611	NR	605	397	NR	735	14	NR	865	0	NR	995	0	NR
480	541	NR	610	410	NR	740	12	NR	870	0	NR	1000	0	NR
485	411	NR	615	418	NR	745	10	NR	875	0	NR			

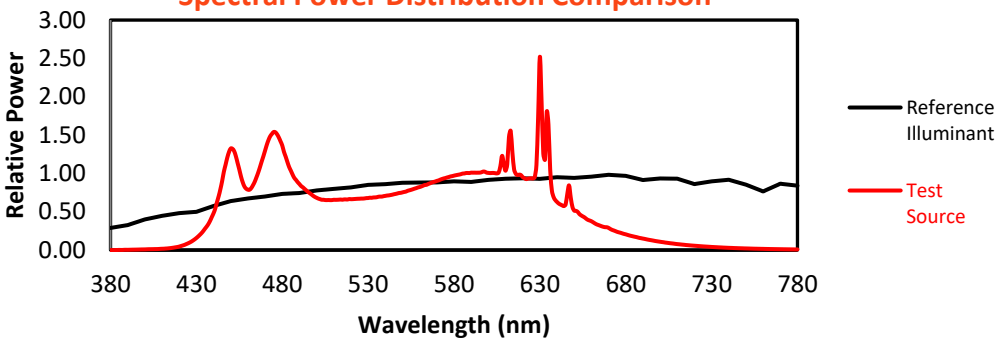
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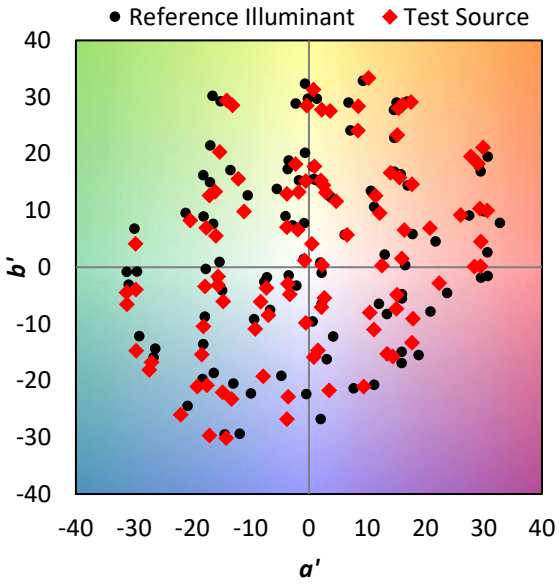
Summary

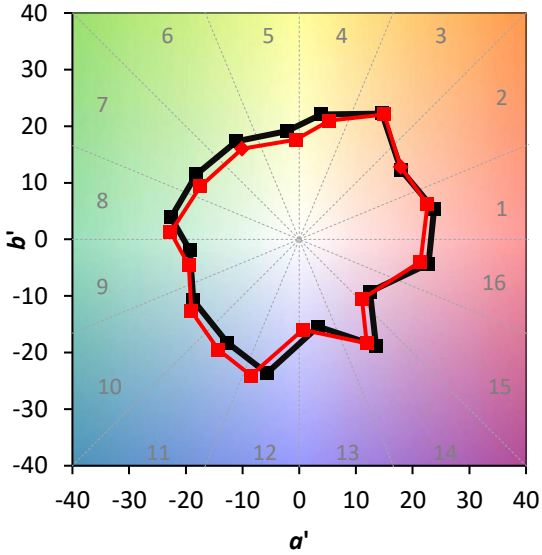
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R_g = 95.6
CIE R_a = 84.8
R_9 = 89.2

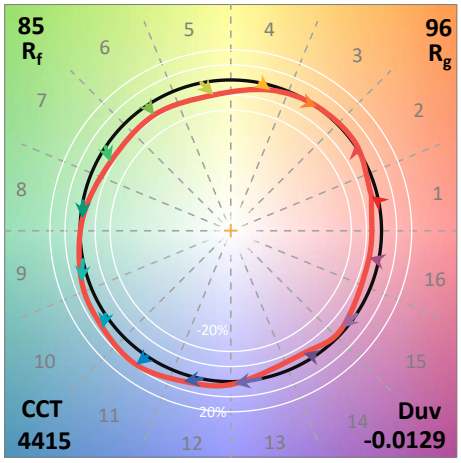
Spectral Power Distribution Comparison

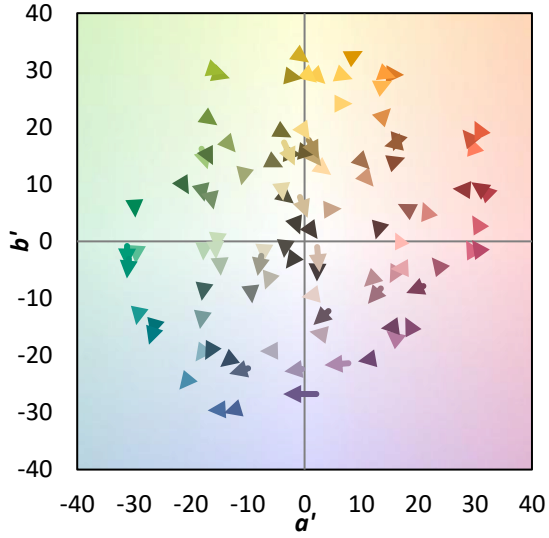


Color Vector Graphics







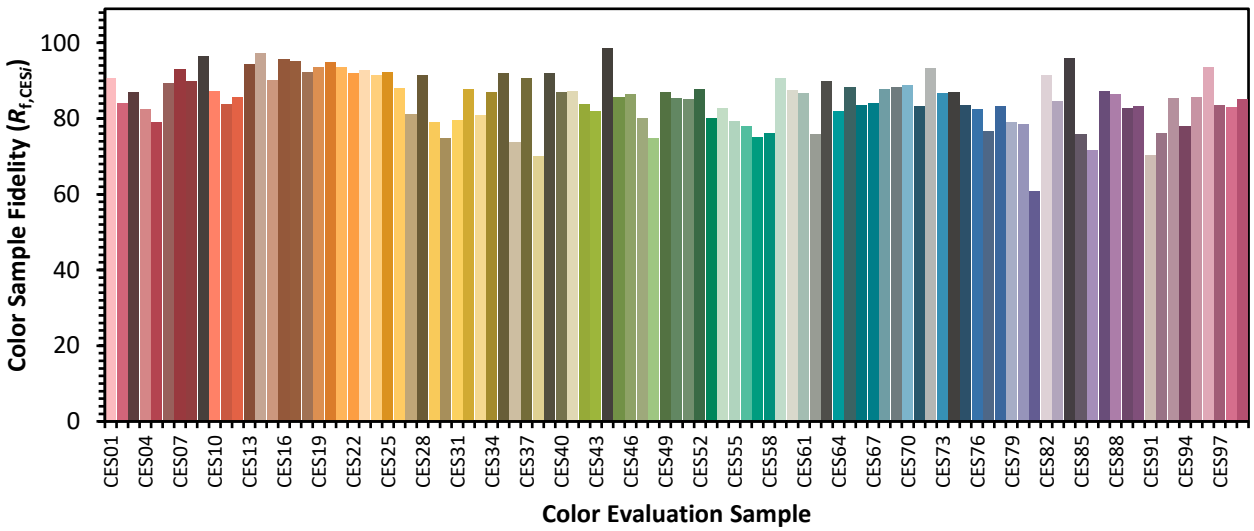


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Individual Sample Fidelity Index ($R_{f,i}$)

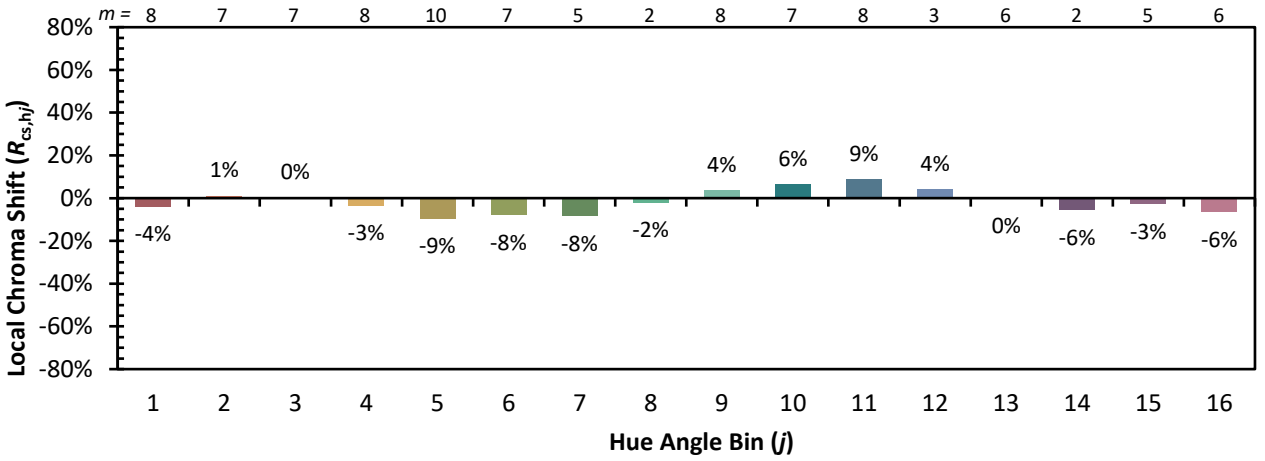
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CES02 = 62	CES27 = 81	CES52 = 88	CES77 = 77
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 83
CES04 = 69	CES29 = 79	CES54 = 83	CES79 = 79
CES05 = 49	CES30 = 75	CES55 = 79	CES80 = 79
CES06 = 50	CES31 = 80	CES56 = 78	CES81 = 61
CES07 = 42	CES32 = 88	CES57 = 75	CES82 = 91
CES08 = 41	CES33 = 81	CES58 = 76	CES83 = 85
CES09 = 29	CES34 = 87	CES59 = 91	CES84 = 96
CES10 = 75	CES35 = 92	CES60 = 87	CES85 = 76
CES11 = 57	CES36 = 74	CES61 = 87	CES86 = 72
CES12 = 64	CES37 = 91	CES62 = 76	CES87 = 87
CES13 = 43	CES38 = 70	CES63 = 90	CES88 = 87
CES14 = 74	CES39 = 92	CES64 = 82	CES89 = 83
CES15 = 71	CES40 = 87	CES65 = 88	CES90 = 83
CES16 = 47	CES41 = 87	CES66 = 84	CES91 = 70
CES17 = 49	CES42 = 84	CES67 = 84	CES92 = 76
CES18 = 56	CES43 = 82	CES68 = 88	CES93 = 85
CES19 = 71	CES44 = 98	CES69 = 88	CES94 = 78
CES20 = 66	CES45 = 86	CES70 = 89	CES95 = 86
CES21 = 85	CES46 = 86	CES71 = 83	CES96 = 93
CES22 = 78	CES47 = 80	CES72 = 93	CES97 = 83
CES23 = 91	CES48 = 75	CES73 = 87	CES98 = 83
CES24 = 90	CES49 = 87	CES74 = 87	CES99 = 85
CES25 = 70	CES50 = 85	CES75 = 84	

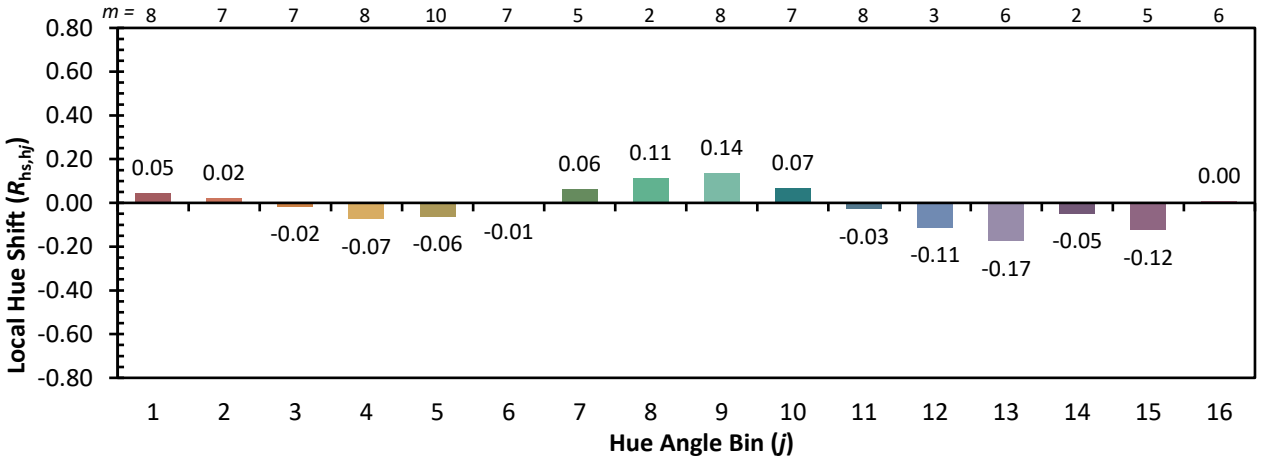


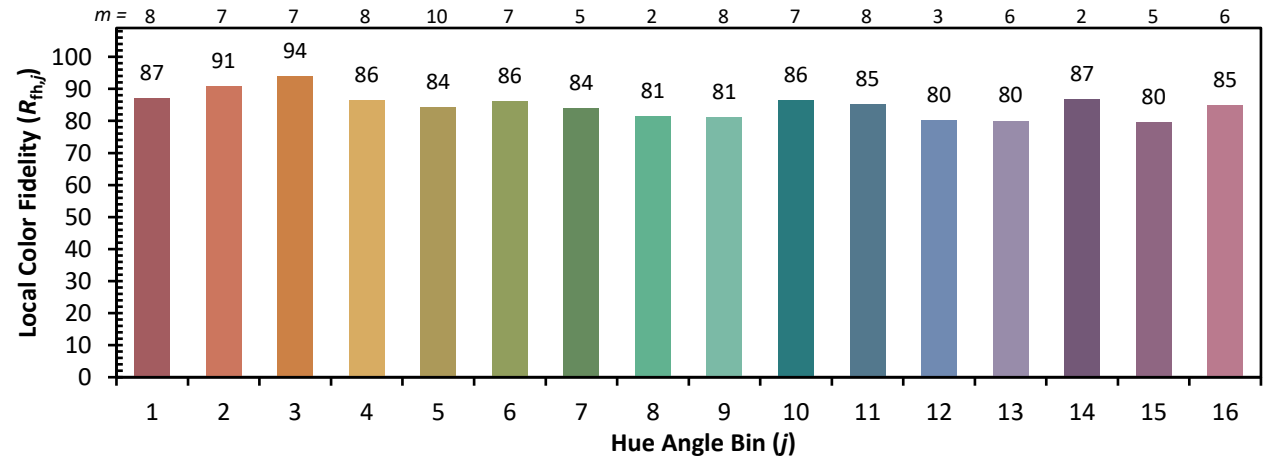
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Color Rendition by Hue-Angle Bin



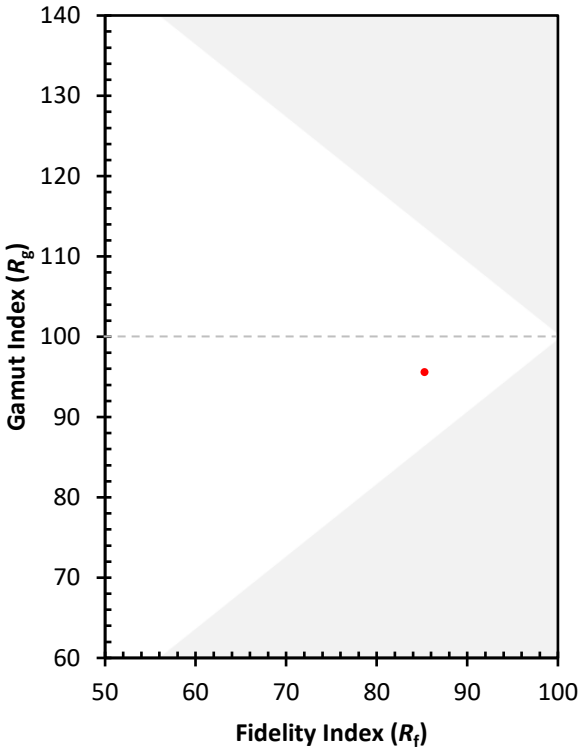


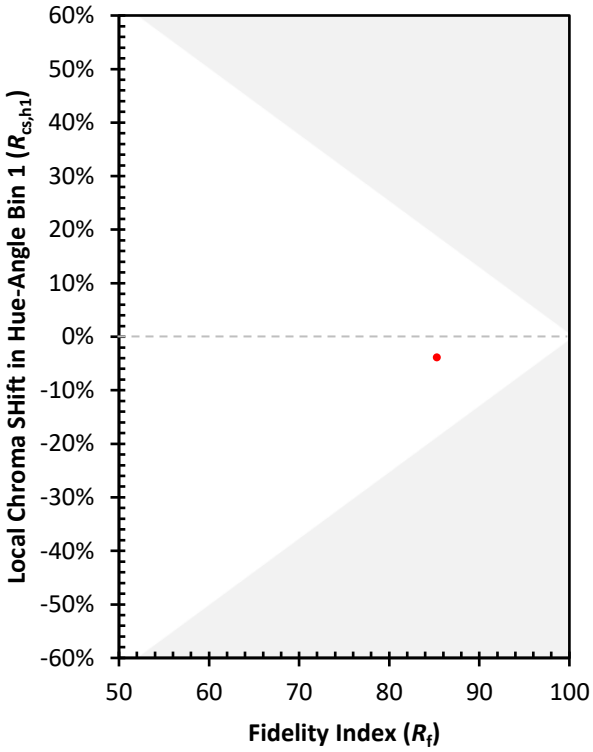


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Measure Comparisons





(END OF REPORT)