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: P1527744

Luminaire Tested: 22CGTX-50-B2750-W2A-5000K

Issue Date: 8/26/2026

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:	P1527744
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-8)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-50-B2750-W2A-5000K
Description:	2X2 5000 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 5000K CCT WITH FROSTED SMOOTH L
Light Source:	5000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4984.1 lumens
Efficiency:	N/A
Efficacy:	99.9 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct

Input Watts (W):	49.9
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

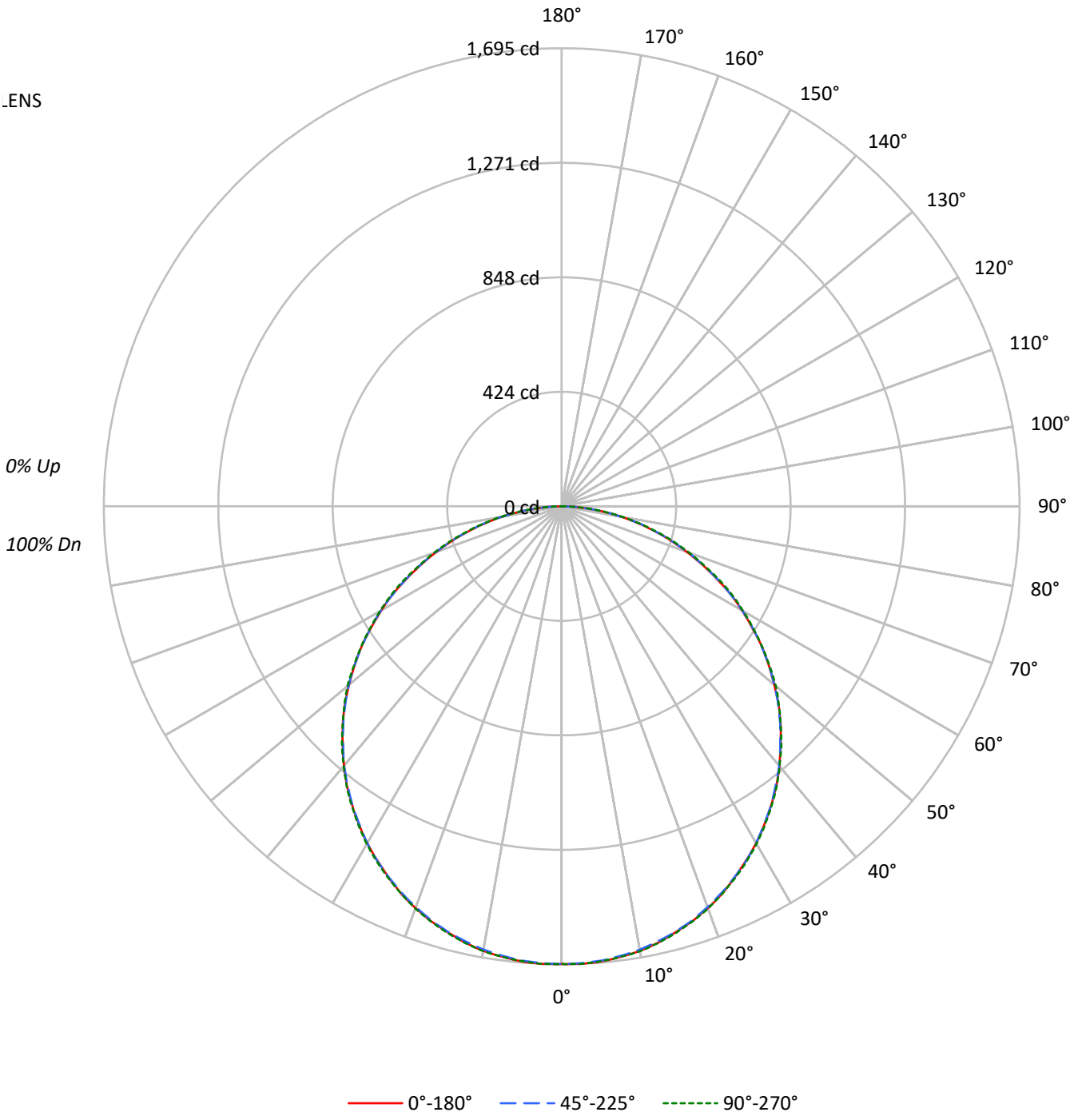


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Scaled Data Report

TEST NUMBER: P1527744
CATALOG NUMBER: 22CGTX-50-B2750-W2A-5000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1527744
CATALOG NUMBER: 22CGTX-50-B2750-W2A-5000K

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	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	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	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	38	31	26	37	30	25	37	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4558	4558	4558
5°	4567	4559	4564
10°	4565	4551	4568
15°	4545	4540	4554
20°	4531	4520	4537
25°	4498	4495	4507
30°	4474	4474	4483
35°	4439	4436	4449
40°	4405	4402	4409
45°	4364	4352	4364
50°	4300	4304	4333
55°	4244	4235	4253
60°	4150	4161	4177
65°	4027	4040	4098
70°	3871	3910	3958
75°	3716	3747	3790
80°	3501	3516	3594
85°	3131	3162	3285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4364 cd/sqm

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Scaled Data Report

TEST NUMBER: P1527744
CATALOG NUMBER: 22CGTX-50-B2750-W2A-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	3.2
10°-20°	460.4	9.2
20°-30°	698.7	14.0
30°-40°	845.4	17.0
40°-50°	883.4	17.7
50°-60°	808.2	16.2
60°-70°	630.0	12.6
70°-80°	381.8	7.7
80°-90°	115.8	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°	1319.6	26.5
0°-40°	2165.0	43.4
0°-60°	3856.5	77.4
0°-90°	4984.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4984.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1691	1687	1688	1689	1690	161
15°	1632	1630	1630	1632	1634	461
25°	1515	1516	1514	1516	1518	699
35°	1351	1349	1350	1351	1354	846
45°	1147	1144	1144	1146	1147	884
55°	905	904	903	907	907	807
65°	632	634	634	641	644	627
75°	357	357	360	364	364	378
85°	101	101	102	104	106	114
90°	0	0	0	0	0	

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TEST NUMBER: P1527744
CATALOG NUMBER: 22CGTX-50-B2750-W2A-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1693.8*	1693.8	1693.8	1693.8	1693.8
2.5°	*1694.8*	*1692.8*	*1691.8*	*1692.8*	*1694.8*
5°	*1690.7*	1686.7	1687.7	1688.7	1689.7
7.5°	*1681.7*	1677.7	1677.7	1679.7	1681.7
10°	*1670.7*	1666.7	1665.6	1667.7	1671.7
12.5°	*1653.6*	1650.6	1648.6	1650.6	1654.6
15°	*1631.5*	1630.5	1629.5	1631.5	1634.5
17.5°	*1609.4*	1607.4	1606.4	1608.4	1610.4
20°	*1582.3*	1579.3	1578.3	1580.3	1584.3
22.5°	*1552.2*	1548.2	1548.2	1549.2	1552.2
25°	*1515.0*	1516.1	1514.0	1516.1	1518.1
27.5°	*1477.9*	1477.9	1478.9	1480.9	1481.9
30°	*1439.7*	1439.7	1439.7	1439.7	1442.8
32.5°	*1396.6*	1396.6	1394.6	1396.6	1399.6
35°	*1351.4*	1349.4	1350.4	1351.4	1354.4
37.5°	*1305.2*	1301.2	1301.2	1305.2	1307.2
40°	*1254.0*	1251.0	1253.0	1253.0	1255.0
42.5°	*1199.8*	1198.8	1197.8	1201.8	1203.8
45°	*1146.6*	1143.6	1143.6	1145.6	1146.6
47.5°	*1089.3*	1087.3	1087.3	1089.3	1091.4
50°	*1027.1*	1027.1	1028.1	1032.1	1035.1
52.5°	*965.9*	966.9	966.9	968.9	969.9
55°	*904.6*	903.6	902.6	906.6	906.6
57.5°	*836.3*	837.3	839.3	843.4	841.4
60°	*771.1*	770.1	773.1	774.1	776.1
62.5°	*705.8*	705.8	703.8	707.8	712.8
65°	*632.5*	634.5	634.5	640.6	643.6
67.5°	*562.2*	565.3	566.3	569.3	570.3
70°	*492.0*	494.0	497.0	503.0	503.0
72.5°	*425.7*	428.7	427.7	431.7	434.7
75°	*357.4*	357.4	360.4	364.5	364.5
77.5°	*290.2*	292.2	294.2	297.2	297.2
80°	*225.9*	224.9	226.9	230.9	231.9
82.5°	*161.6*	161.6	164.7	164.7	165.7
85°	*101.4*	101.4	102.4	104.4	106.4
87.5°	*43.2*	43.2	44.2	46.2	49.2
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 22CGTX-50-B2750-W2A-5000K

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	17.18	18.84	17.54	19.15	19.47	17.23	18.89	17.59	19.20	19.52
	3H	19.07	20.58	19.45	20.90	21.26	19.14	20.65	19.52	20.98	21.34
	4H	19.82	21.24	20.21	21.58	21.96	19.90	21.32	20.30	21.67	22.04
	6H	20.40	21.71	20.81	22.08	22.47	20.49	21.81	20.90	22.17	22.56
	8H	20.59	21.85	21.02	22.24	22.64	20.70	21.96	21.12	22.34	22.74
	12H	20.73	21.94	21.16	22.32	22.75	20.84	22.05	21.27	22.43	22.86
4H	2H	17.84	19.26	18.24	19.61	19.99	17.88	19.30	18.28	19.65	20.02
	3H	19.97	21.16	20.38	21.56	21.96	20.03	21.23	20.44	21.62	22.02
	4H	20.85	21.93	21.28	22.34	22.78	20.92	22.01	21.36	22.42	22.86
	6H	21.56	22.51	22.02	22.95	23.41	21.66	22.61	22.11	23.05	23.50
	8H	21.82	22.71	22.28	23.15	23.61	21.92	22.81	22.38	23.25	23.71
	12H	22.01	22.81	22.49	23.28	23.75	22.12	22.92	22.60	23.39	23.86
8H	4H	21.21	22.10	21.67	22.54	23.00	21.27	22.16	21.73	22.61	23.07
	6H	22.06	22.80	22.55	23.29	23.76	22.15	22.89	22.64	23.37	23.85
	8H	22.40	23.06	22.90	23.57	24.05	22.49	23.15	23.00	23.66	24.14
	12H	22.67	23.26	23.18	23.75	24.31	22.77	23.36	23.28	23.85	24.41
12H	4H	21.25	22.06	21.73	22.53	23.00	21.32	22.12	21.80	22.59	23.06
	6H	22.14	22.80	22.64	23.31	23.79	22.22	22.89	22.73	23.39	23.88
	8H	22.54	23.13	23.04	23.62	24.18	22.63	23.22	23.13	23.71	24.26

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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: SP1-2505-441-5-R2

Test Date: 06/12/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-5000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

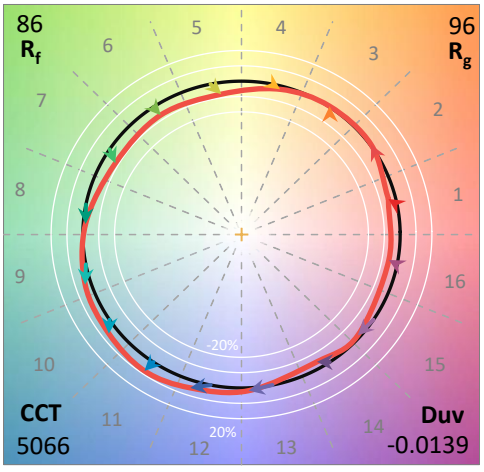
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-5-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:	**24CGTX-55-B2750-W2A-5000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-5-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 2.0V

Spectral Parameters

CCT (K):	5066	CRI (Ra):	84.8		
CIE u':	0.2206	R1:	90.0	R9:	84.7
CIE v':	0.4690	R2:	84.8	R10:	71.2
Duv:	-0.0139	R3:	82.4	R11:	87.6
CIE x:	0.3411	R4:	87.2	R12:	68.6
CIE y:	0.3223	R5:	88.1	R13:	87.8
CIE z:	0.3366	R6:	78.9	R14:	91.9
Peak Wavelength (nm):	630	R7:	82.2	R15:	91.6
Dominant Wavelength (nm):	0	R8:	85.1		
Purity:	0				

Rf:	86.1
Rg:	95.8



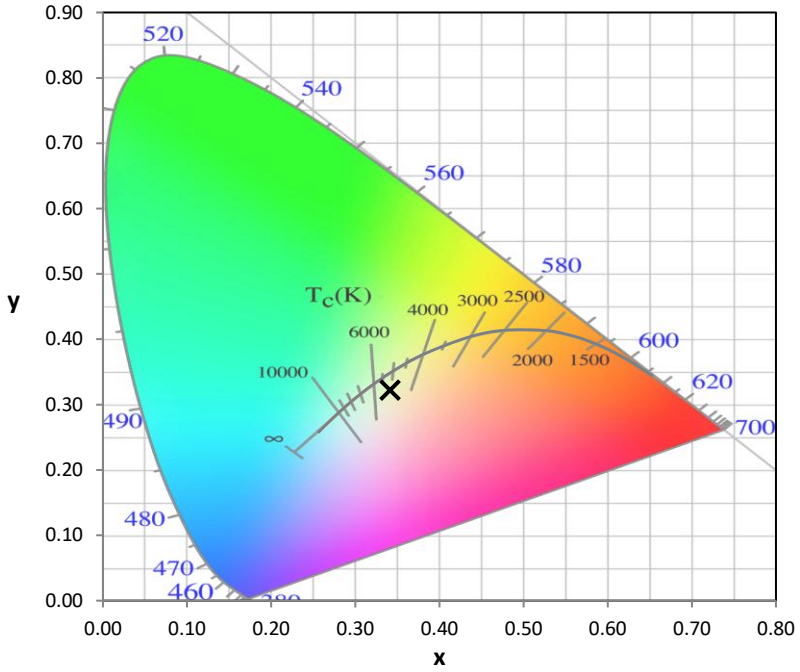
Test Conditions

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

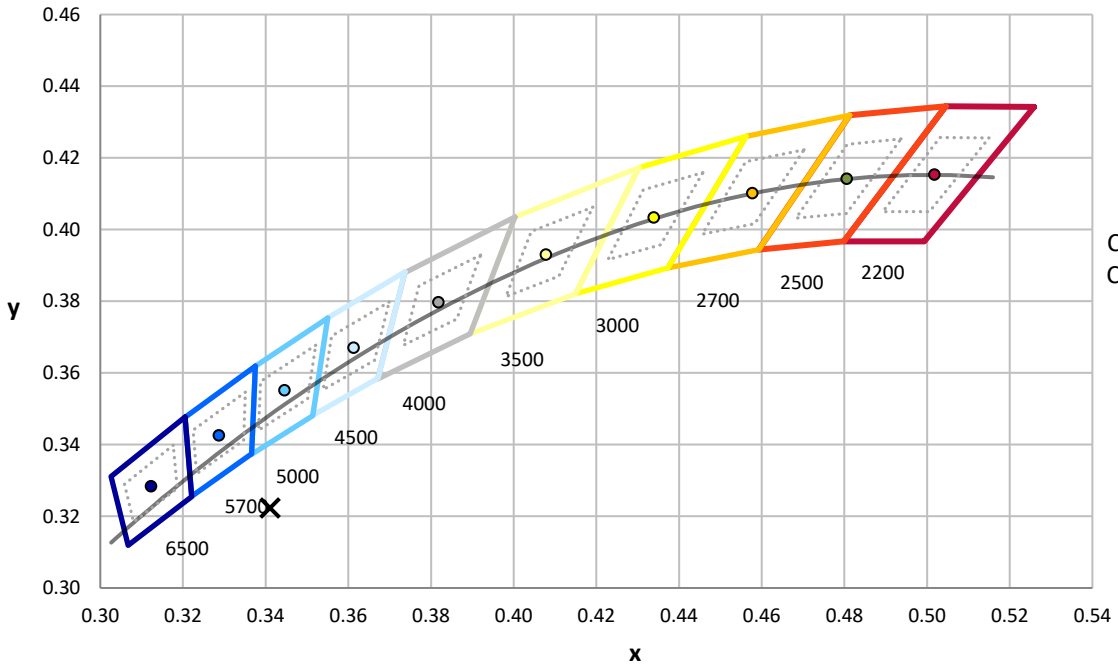
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2505-441-5-R2

CIE 1931 Chromaticity Diagram



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

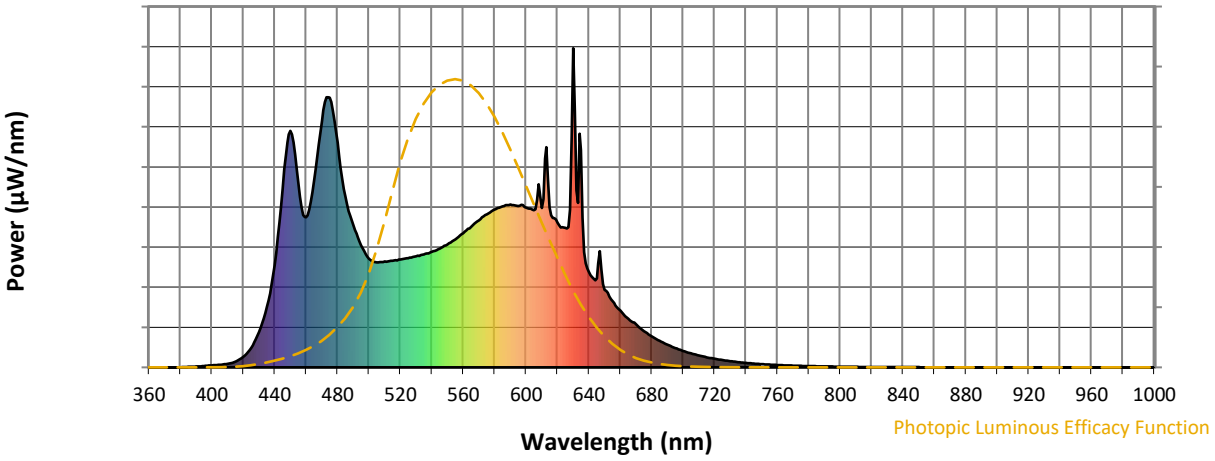


CCT = 5066K
CIE x = 0.3411
CIE y = 0.3223
Duv = -0.0139

Point lies outside the range

REPORT NUMBER: SP1-2505-441-5-R2

Photopic Flux vs. Wavelength

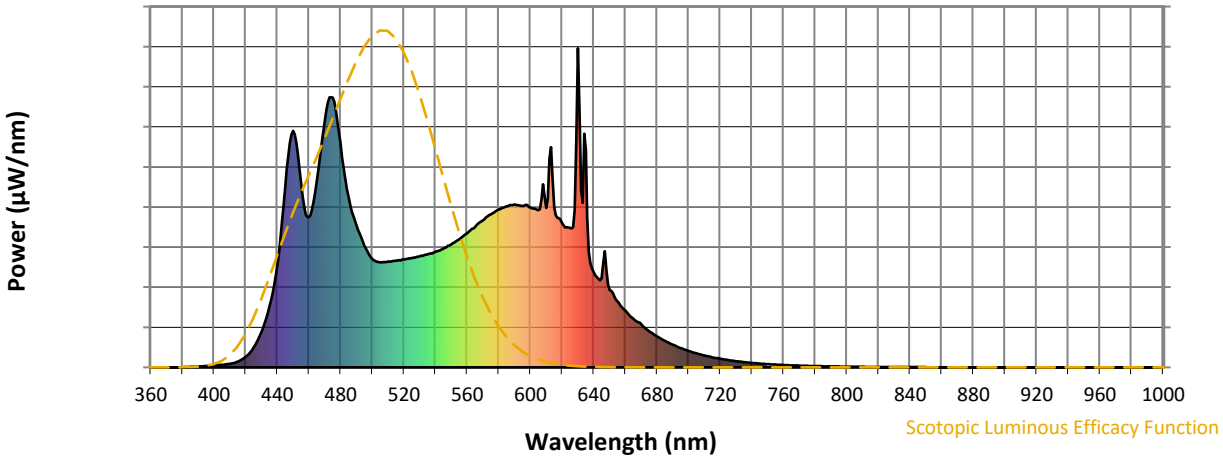


Photopic Lumens: NR

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	446	NR	620	453	NR	750	10	NR	880	0	NR
365	0	NR	495	382	NR	625	437	NR	755	9	NR	885	0	NR
370	0	NR	500	340	NR	630	1000	NR	760	7	NR	890	0	NR
375	0	NR	505	329	NR	635	681	NR	765	6	NR	895	0	NR
380	0	NR	510	332	NR	640	299	NR	770	5	NR	900	0	NR
385	2	NR	515	334	NR	645	278	NR	775	5	NR	905	0	NR
390	3	NR	520	338	NR	650	242	NR	780	4	NR	910	0	NR
395	4	NR	525	342	NR	655	208	NR	785	3	NR	915	0	NR
400	6	NR	530	348	NR	660	178	NR	790	3	NR	920	0	NR
405	8	NR	535	354	NR	665	152	NR	795	3	NR	925	0	NR
410	11	NR	540	362	NR	670	136	NR	800	2	NR	930	0	NR
415	18	NR	545	372	NR	675	113	NR	805	2	NR	935	0	NR
420	33	NR	550	385	NR	680	97	NR	810	2	NR	940	0	NR
425	61	NR	555	401	NR	685	83	NR	815	1	NR	945	0	NR
430	111	NR	560	420	NR	690	71	NR	820	1	NR	950	0	NR
435	191	NR	565	440	NR	695	61	NR	825	1	NR	955	0	NR
440	320	NR	570	461	NR	700	52	NR	830	1	NR	960	0	NR
445	560	NR	575	479	NR	705	44	NR	835	1	NR	965	0	NR
450	741	NR	580	494	NR	710	37	NR	840	1	NR	970	0	NR
455	577	NR	585	505	NR	715	32	NR	845	1	NR	975	0	NR
460	471	NR	590	510	NR	720	27	NR	850	1	NR	980	0	NR
465	583	NR	595	506	NR	725	23	NR	855	0	NR	985	0	NR
470	773	NR	600	501	NR	730	19	NR	860	0	NR	990	0	NR
475	846	NR	605	492	NR	735	17	NR	865	0	NR	995	0	NR
480	704	NR	610	500	NR	740	14	NR	870	0	NR	1000	0	NR
485	536	NR	615	501	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-5-R2

Scotopic Flux vs. Wavelength

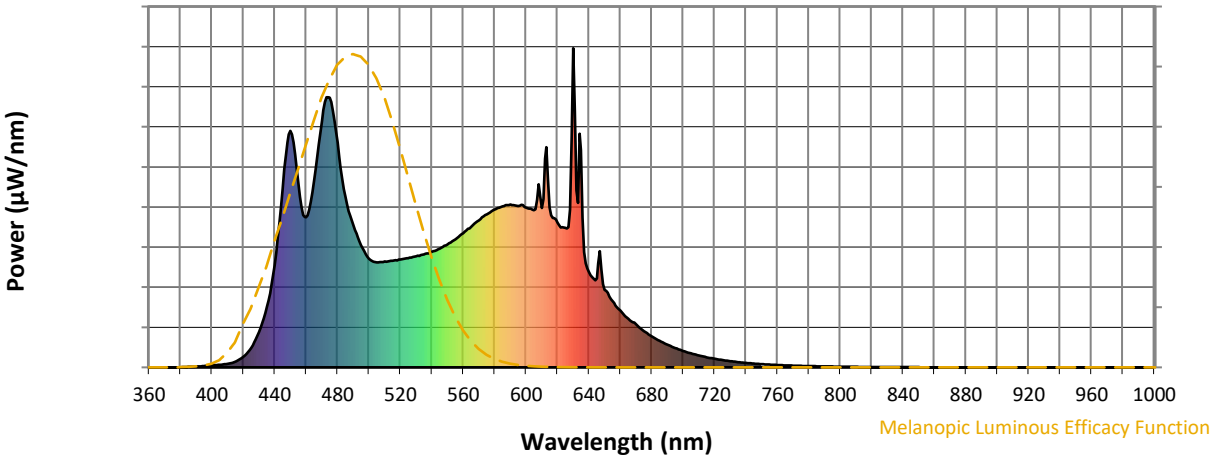


Scotopic Lumens: NR **S/P: 2.31**

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	446	NR	620	453	NR	750	10	NR	880	0	NR
365	0	NR	495	382	NR	625	437	NR	755	9	NR	885	0	NR
370	0	NR	500	340	NR	630	1000	NR	760	7	NR	890	0	NR
375	0	NR	505	329	NR	635	681	NR	765	6	NR	895	0	NR
380	0	NR	510	332	NR	640	299	NR	770	5	NR	900	0	NR
385	2	NR	515	334	NR	645	278	NR	775	5	NR	905	0	NR
390	3	NR	520	338	NR	650	242	NR	780	4	NR	910	0	NR
395	4	NR	525	342	NR	655	208	NR	785	3	NR	915	0	NR
400	6	NR	530	348	NR	660	178	NR	790	3	NR	920	0	NR
405	8	NR	535	354	NR	665	152	NR	795	3	NR	925	0	NR
410	11	NR	540	362	NR	670	136	NR	800	2	NR	930	0	NR
415	18	NR	545	372	NR	675	113	NR	805	2	NR	935	0	NR
420	33	NR	550	385	NR	680	97	NR	810	2	NR	940	0	NR
425	61	NR	555	401	NR	685	83	NR	815	1	NR	945	0	NR
430	111	NR	560	420	NR	690	71	NR	820	1	NR	950	0	NR
435	191	NR	565	440	NR	695	61	NR	825	1	NR	955	0	NR
440	320	NR	570	461	NR	700	52	NR	830	1	NR	960	0	NR
445	560	NR	575	479	NR	705	44	NR	835	1	NR	965	0	NR
450	741	NR	580	494	NR	710	37	NR	840	1	NR	970	0	NR
455	577	NR	585	505	NR	715	32	NR	845	1	NR	975	0	NR
460	471	NR	590	510	NR	720	27	NR	850	1	NR	980	0	NR
465	583	NR	595	506	NR	725	23	NR	855	0	NR	985	0	NR
470	773	NR	600	501	NR	730	19	NR	860	0	NR	990	0	NR
475	846	NR	605	492	NR	735	17	NR	865	0	NR	995	0	NR
480	704	NR	610	500	NR	740	14	NR	870	0	NR	1000	0	NR
485	536	NR	615	501	NR	745	12	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 5.41**

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	446	NR	620	453	NR	750	10	NR	880	0	NR
365	0	NR	495	382	NR	625	437	NR	755	9	NR	885	0	NR
370	0	NR	500	340	NR	630	1000	NR	760	7	NR	890	0	NR
375	0	NR	505	329	NR	635	681	NR	765	6	NR	895	0	NR
380	0	NR	510	332	NR	640	299	NR	770	5	NR	900	0	NR
385	2	NR	515	334	NR	645	278	NR	775	5	NR	905	0	NR
390	3	NR	520	338	NR	650	242	NR	780	4	NR	910	0	NR
395	4	NR	525	342	NR	655	208	NR	785	3	NR	915	0	NR
400	6	NR	530	348	NR	660	178	NR	790	3	NR	920	0	NR
405	8	NR	535	354	NR	665	152	NR	795	3	NR	925	0	NR
410	11	NR	540	362	NR	670	136	NR	800	2	NR	930	0	NR
415	18	NR	545	372	NR	675	113	NR	805	2	NR	935	0	NR
420	33	NR	550	385	NR	680	97	NR	810	2	NR	940	0	NR
425	61	NR	555	401	NR	685	83	NR	815	1	NR	945	0	NR
430	111	NR	560	420	NR	690	71	NR	820	1	NR	950	0	NR
435	191	NR	565	440	NR	695	61	NR	825	1	NR	955	0	NR
440	320	NR	570	461	NR	700	52	NR	830	1	NR	960	0	NR
445	560	NR	575	479	NR	705	44	NR	835	1	NR	965	0	NR
450	741	NR	580	494	NR	710	37	NR	840	1	NR	970	0	NR
455	577	NR	585	505	NR	715	32	NR	845	1	NR	975	0	NR
460	471	NR	590	510	NR	720	27	NR	850	1	NR	980	0	NR
465	583	NR	595	506	NR	725	23	NR	855	0	NR	985	0	NR
470	773	NR	600	501	NR	730	19	NR	860	0	NR	990	0	NR
475	846	NR	605	492	NR	735	17	NR	865	0	NR	995	0	NR
480	704	NR	610	500	NR	740	14	NR	870	0	NR	1000	0	NR
485	536	NR	615	501	NR	745	12	NR	875	0	NR			

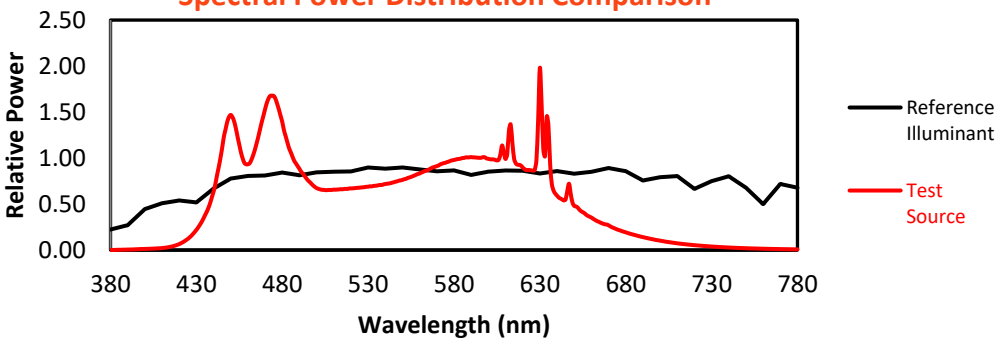
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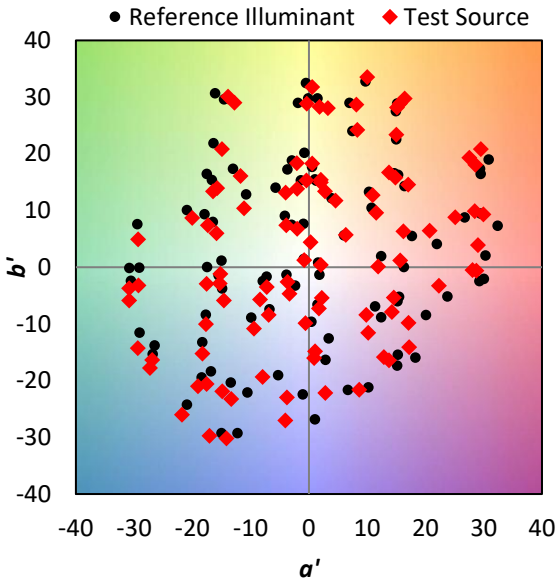
Summary

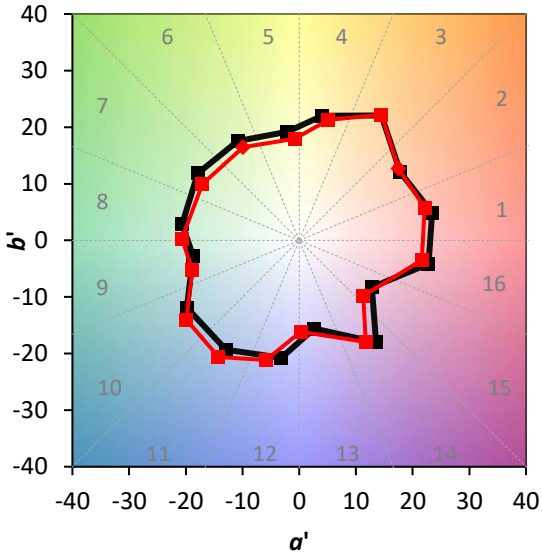
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R_g = 95.8
CIE R_a = 84.8
R_9 = 84.7

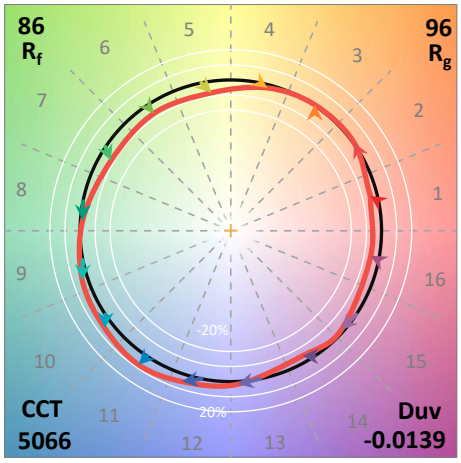
Spectral Power Distribution Comparison

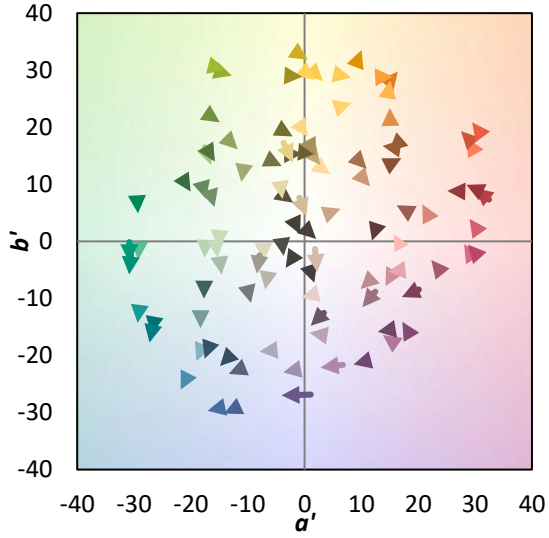


Color Vector Graphics







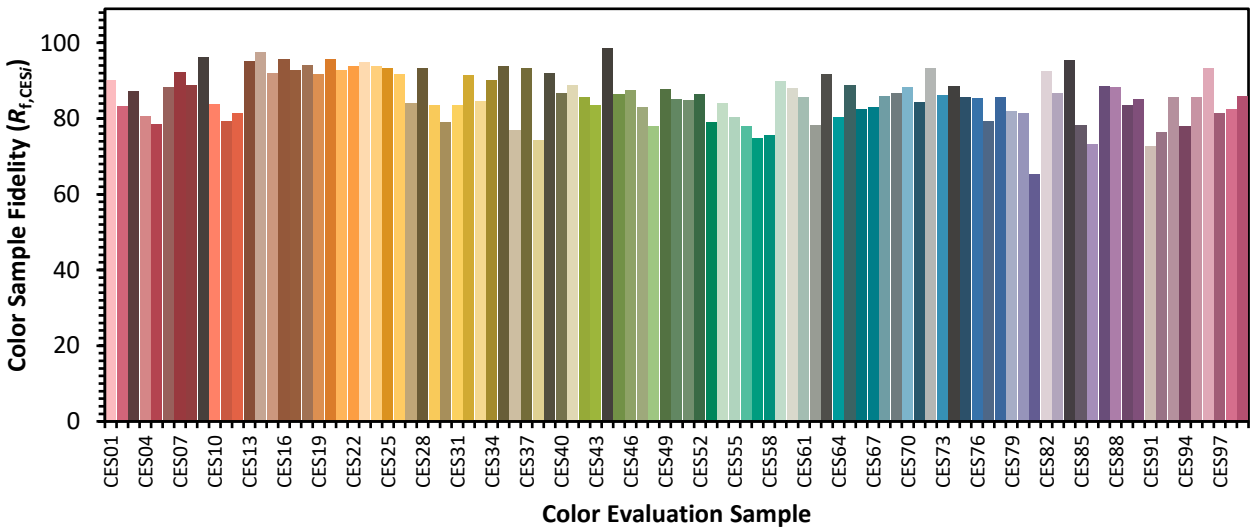


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Individual Sample Fidelity Index ($R_{f,i}$)

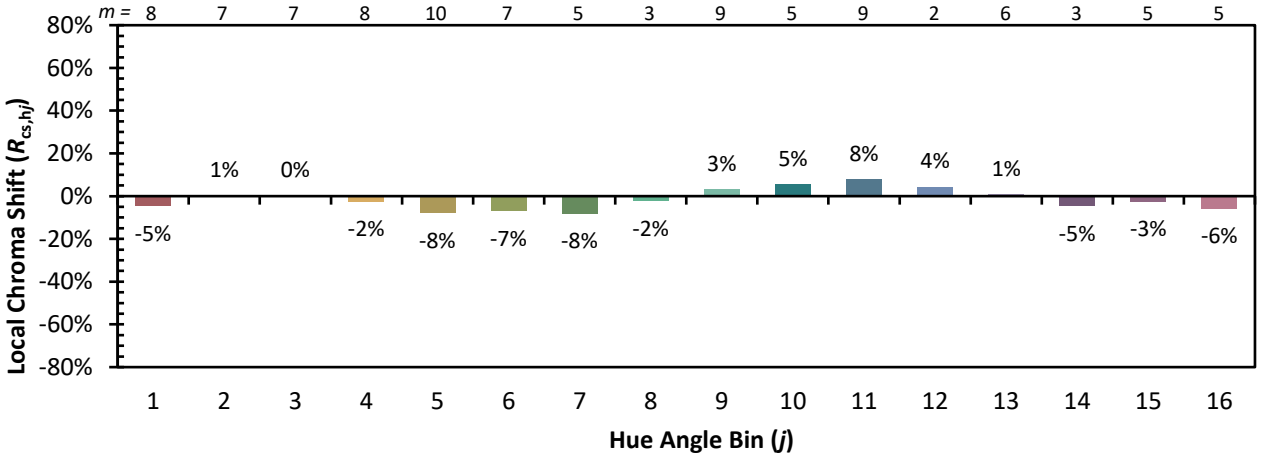
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CES04 = 69	CES29 = 84	CES54 = 84	CES79 = 82
CES05 = 48	CES30 = 79	CES55 = 80	CES80 = 81
CES06 = 50	CES31 = 84	CES56 = 78	CES81 = 65
CES07 = 41	CES32 = 92	CES57 = 75	CES82 = 93
CES08 = 40	CES33 = 85	CES58 = 76	CES83 = 87
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 95
CES10 = 74	CES35 = 94	CES60 = 88	CES85 = 78
CES11 = 57	CES36 = 77	CES61 = 86	CES86 = 73
CES12 = 63	CES37 = 93	CES62 = 78	CES87 = 89
CES13 = 43	CES38 = 74	CES63 = 92	CES88 = 88
CES14 = 74	CES39 = 92	CES64 = 80	CES89 = 83
CES15 = 71	CES40 = 87	CES65 = 89	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 82	CES91 = 73
CES17 = 49	CES42 = 86	CES67 = 83	CES92 = 76
CES18 = 56	CES43 = 84	CES68 = 86	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 78
CES20 = 66	CES45 = 87	CES70 = 88	CES95 = 86
CES21 = 85	CES46 = 88	CES71 = 84	CES96 = 93
CES22 = 77	CES47 = 83	CES72 = 93	CES97 = 81
CES23 = 91	CES48 = 78	CES73 = 86	CES98 = 82
CES24 = 90	CES49 = 88	CES74 = 89	CES99 = 86
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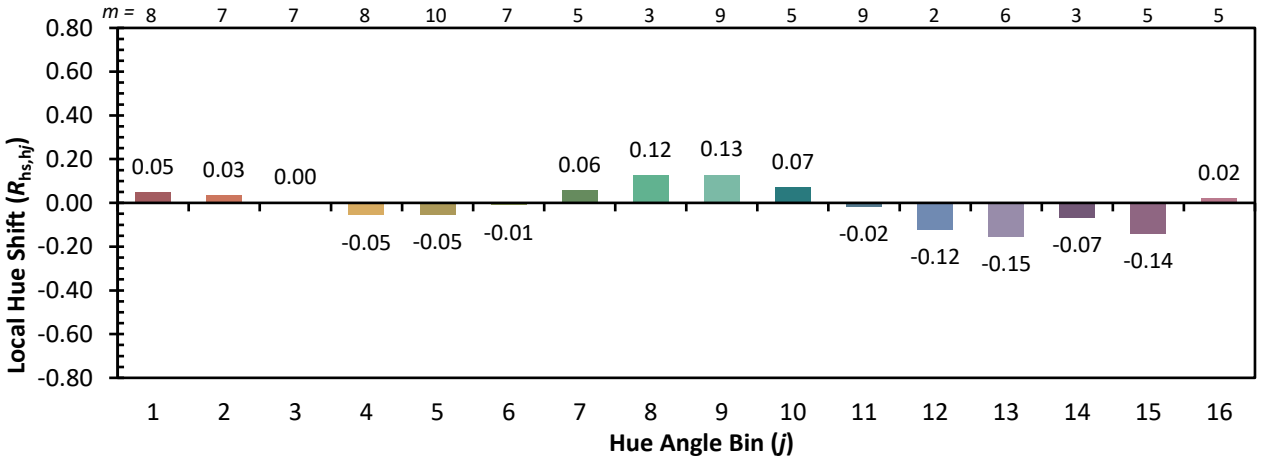


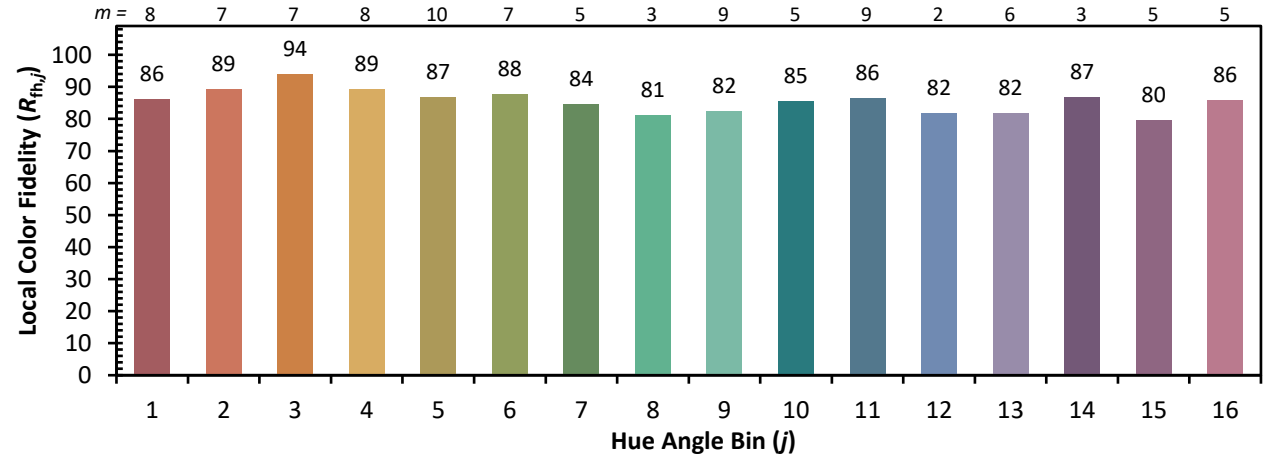
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Color Rendition by Hue-Angle Bin



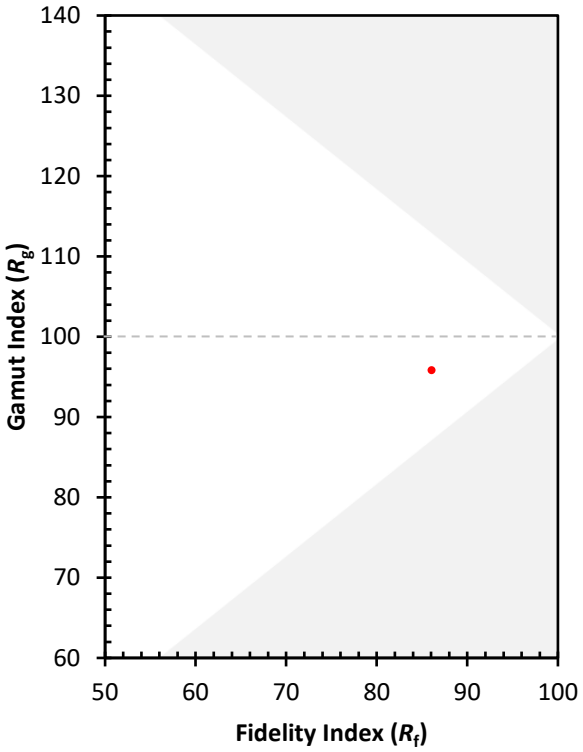


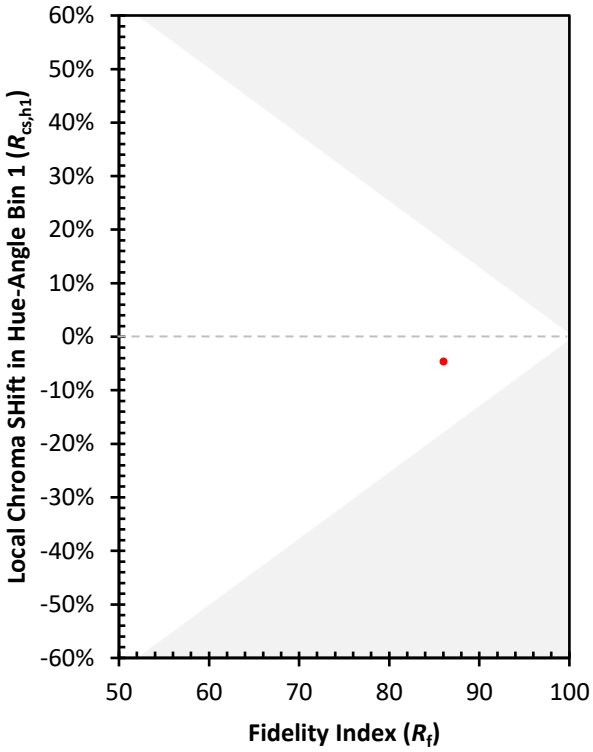


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Measure Comparisons





(END OF REPORT)