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: P1590925

Luminaire Tested: 22CGTX-45-L93050-W2A-5000K

Issue Date: 9/7/2026

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:	P1590925
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2512-631-4)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-45-L93050-W2A-5000K
Description:	2X2 4500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 5000K CCT
Light Source:	5000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5152.9 lumens
Efficiency:	N/A
Efficacy:	109.4 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	47.1
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

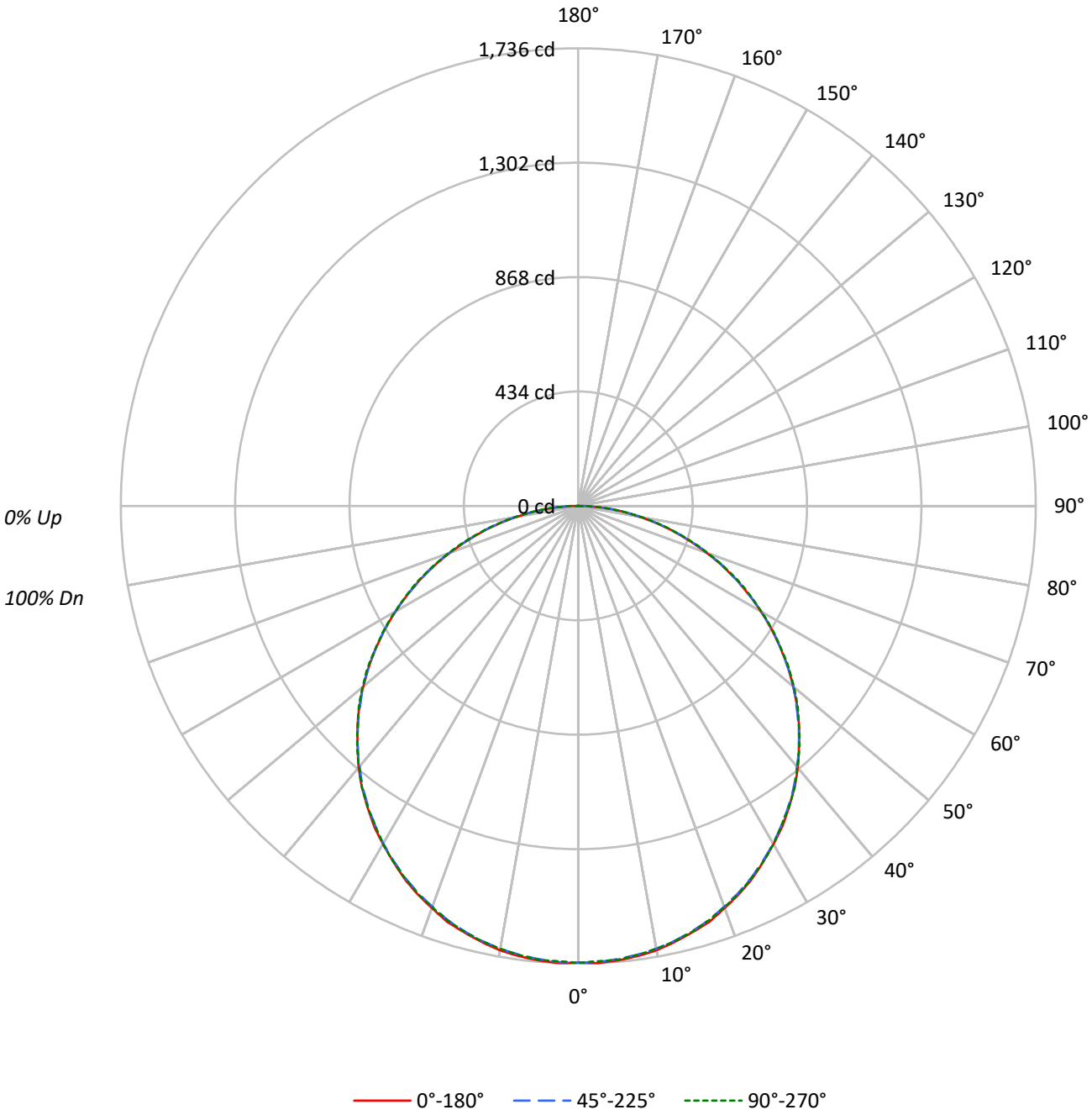


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Scaled Data Report

TEST NUMBER: P1590925
CATALOG NUMBER: 22CGTX-45-L93050-W2A-5000K

Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1590925
CATALOG NUMBER: 22CGTX-45-L93050-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	93	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	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	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	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	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	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4663	4663	4663
5°	4675	4661	4667
10°	4678	4661	4661
15°	4665	4653	4659
20°	4649	4633	4639
25°	4634	4618	4622
30°	4603	4596	4603
35°	4582	4568	4578
40°	4554	4536	4543
45°	4509	4501	4505
50°	4458	4462	4471
55°	4388	4393	4398
60°	4303	4315	4321
65°	4208	4208	4254
70°	4065	4091	4131
75°	3907	3939	3951
80°	3656	3721	3753
85°	3353	3384	3449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4509 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590925
CATALOG NUMBER: 22CGTX-45-L93050-W2A-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.2
10°-20°	471.9	9.2
20°-30°	717.6	13.9
30°-40°	870.9	16.9
40°-50°	912.7	17.7
50°-60°	837.7	16.3
60°-70°	655.5	12.7
70°-80°	399.3	7.7
80°-90°	123.0	2.4
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°	1353.7	26.3
0°-40°	2224.6	43.2
0°-60°	3975.1	77.1
0°-90°	5152.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5152.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1731	1730	1726	1727	1728	165
15°	1674	1672	1670	1668	1672	473
25°	1561	1558	1555	1556	1556	719
35°	1395	1393	1390	1392	1394	873
45°	1185	1182	1183	1185	1184	914
55°	935	940	936	940	937	836
65°	661	657	661	665	668	653
75°	376	376	379	379	380	396
85°	109	108	110	111	112	121
90°	0	0	0	0	0	

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TEST NUMBER: P1590925
CATALOG NUMBER: 22CGTX-45-L93050-W2A-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1732.9*	1732.9	1732.9	1732.9	1732.9
2.5°	*1736.0*	*1732.9*	*1731.8*	*1729.7*	*1728.7*
5°	*1730.8*	1729.7	1725.6	1726.6	1727.7
7.5°	*1722.4*	1719.3	1717.2	1717.2	1718.3
10°	*1712.0*	1708.9	1705.7	1706.8	1705.7
12.5°	*1694.3*	1694.3	1690.1	1690.1	1691.1
15°	*1674.4*	1672.3	1670.2	1668.2	1672.3
17.5°	*1654.6*	1649.4	1647.3	1649.4	1648.3
20°	*1623.3*	1622.2	1618.0	1619.1	1620.1
22.5°	*1594.0*	1591.9	1588.8	1589.9	1591.9
25°	*1560.6*	1558.5	1555.4	1556.5	1556.5
27.5°	*1521.0*	1521.0	1517.8	1518.9	1521.0
30°	*1481.3*	1480.3	1479.2	1480.3	1481.3
32.5°	*1441.6*	1437.5	1435.4	1435.4	1435.4
35°	*1394.7*	1392.6	1390.5	1391.5	1393.6
37.5°	*1347.7*	1343.5	1343.5	1342.5	1347.7
40°	*1296.5*	1293.4	1291.3	1291.3	1293.4
42.5°	*1239.1*	1238.1	1239.1	1239.1	1242.2
45°	*1184.8*	1181.7	1182.7	1184.8	1183.8
47.5°	*1126.4*	1125.3	1122.2	1125.3	1129.5
50°	*1064.8*	1063.7	1065.8	1064.8	1067.9
52.5°	*1001.1*	1002.1	1001.1	1003.2	1006.3
55°	*935.3*	939.5	936.4	939.5	937.4
57.5°	*868.5*	869.6	870.6	872.7	872.7
60°	*799.6*	803.8	801.7	802.8	802.8
62.5°	*730.7*	733.9	730.7	734.9	734.9
65°	*660.8*	656.6	660.8	665.0	668.1
67.5°	*588.8*	588.8	594.0	596.1	594.0
70°	*516.7*	517.8	519.9	523.0	525.1
72.5°	*443.7*	443.7	447.8	451.0	452.0
75°	*375.8*	375.8	378.9	378.9	380.0
77.5°	*304.8*	304.8	309.0	311.1	312.1
80°	*235.9*	240.1	240.1	241.1	242.2
82.5°	*171.2*	170.2	174.3	175.4	175.4
85°	*108.6*	107.5	109.6	110.7	111.7
87.5°	*48.0*	49.1	48.0	50.1	51.2
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1590925
CATALOG NUMBER: 22CGTX-45-L93050-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	17.32	18.99	17.69	19.30	19.62	17.35	19.01	17.71	19.33	19.64
	3H	19.24	20.75	19.62	21.07	21.43	19.29	20.80	19.67	21.12	21.48
	4H	19.99	21.41	20.39	21.76	22.14	20.05	21.47	20.45	21.82	22.19
	6H	20.58	21.90	20.99	22.26	22.65	20.65	21.97	21.06	22.34	22.73
	8H	20.78	22.04	21.20	22.43	22.83	20.86	22.12	21.28	22.51	22.91
	12H	20.93	22.14	21.35	22.52	22.95	21.01	22.22	21.44	22.60	23.03
4H	2H	17.99	19.42	18.39	19.76	20.14	18.01	19.44	18.41	19.78	20.16
	3H	20.14	21.34	20.55	21.73	22.13	20.18	21.38	20.59	21.78	22.18
	4H	21.02	22.11	21.46	22.52	22.96	21.08	22.17	21.51	22.58	23.01
	6H	21.75	22.70	22.20	23.14	23.60	21.82	22.77	22.27	23.21	23.67
	8H	22.01	22.90	22.47	23.34	23.81	22.09	22.98	22.55	23.42	23.89
	12H	22.21	23.01	22.69	23.49	23.96	22.29	23.10	22.77	23.57	24.04
8H	4H	21.39	22.28	21.85	22.72	23.19	21.43	22.33	21.89	22.77	23.23
	6H	22.26	23.00	22.75	23.49	23.96	22.32	23.06	22.81	23.55	24.02
	8H	22.60	23.27	23.10	23.77	24.26	22.67	23.34	23.18	23.84	24.33
	12H	22.88	23.47	23.39	23.96	24.52	22.96	23.56	23.47	24.05	24.61
12H	4H	21.44	22.24	21.92	22.72	23.18	21.48	22.29	21.96	22.76	23.23
	6H	22.33	23.01	22.84	23.51	23.99	22.39	23.06	22.90	23.57	24.05
	8H	22.74	23.34	23.25	23.82	24.38	22.81	23.41	23.32	23.89	24.45

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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: SP1-2512-631-24-R2

Test Date: 02/04/2026

Luminaire Tested: 22CGTX-50-L93050-W2A-5000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

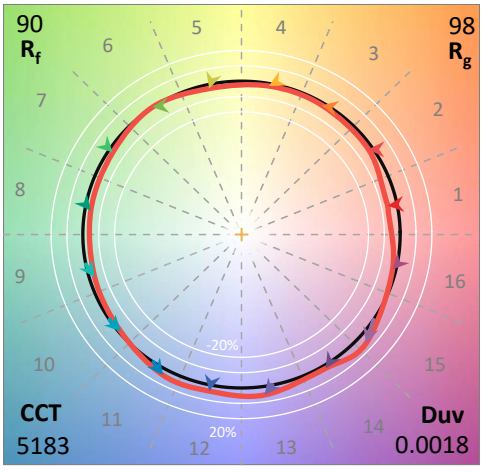
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-631-24-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-L93050-W2A-5000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-631-24-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 5000 LUMEN HE CGTX TUNABLE WHITE FROM 3000K TO 5000K - 1 Volt

Spectral Parameters

CCT (K):	5183
CIE u':	0.2084
CIE v':	0.4838
Duv:	0.0018
CIE x:	0.3404
CIE y:	0.3513
CIE z:	0.3084
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	567
Purity:	7.523728
Rf:	89.8
Rg:	98.4

CRI (Ra):	93.0
R1:	94.0
R2:	95.9
R3:	95.1
R4:	93.5
R5:	92.7
R6:	92.2
R7:	94.0
R8:	86.9
R9:	64.0
R10:	88.2
R11:	93.7
R12:	69.8
R13:	94.9
R14:	97.0
R15:	92.0



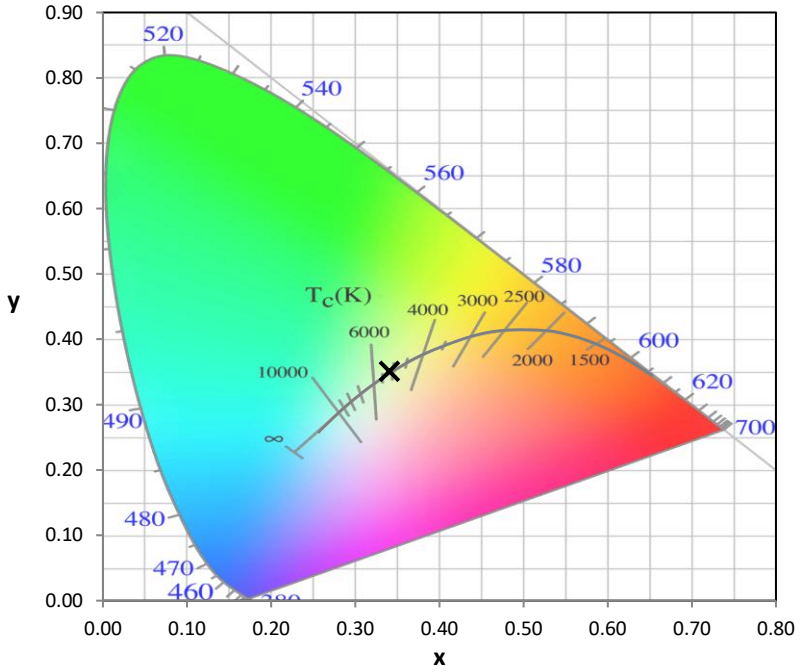
Test Conditions

Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.1

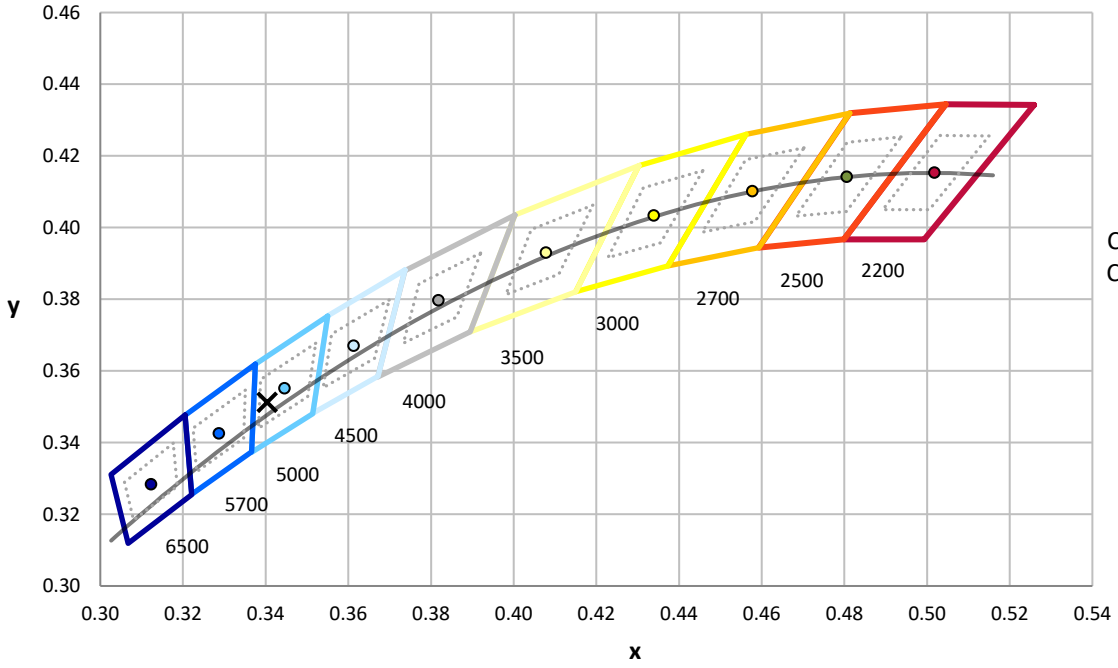
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2512-631-24-R2

CIE 1931 Chromaticity Diagram



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

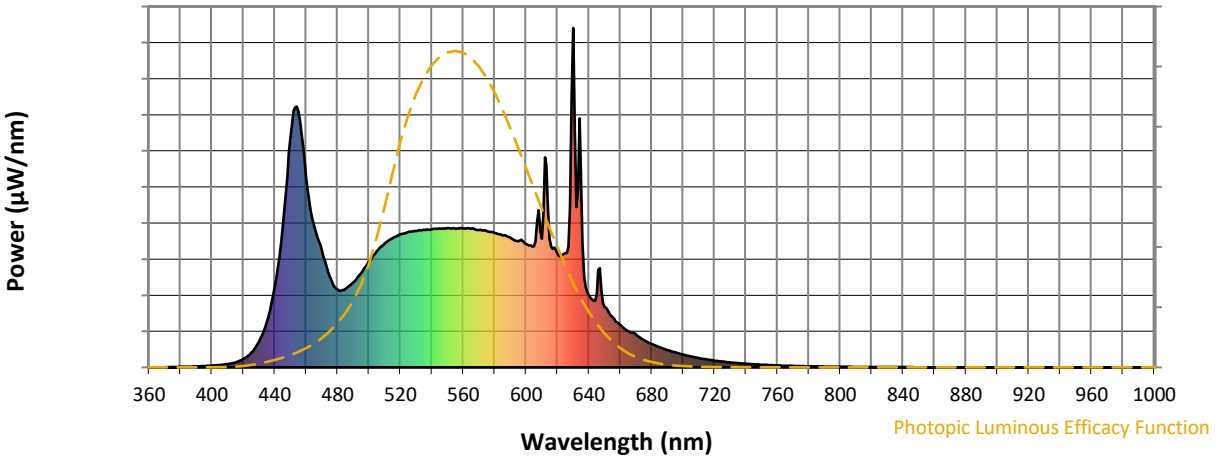


CCT = 5183K
CIE x = 0.3404
CIE y = 0.3513
Duv = 0.0018

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2512-631-24-R2

Photopic Flux vs. Wavelength

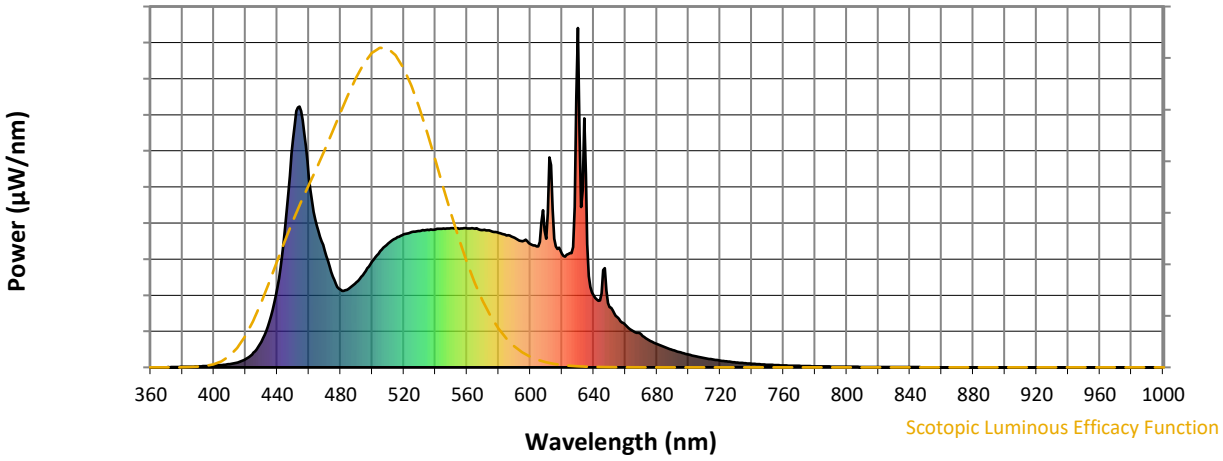


Photopic Lumens: NR

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	251	NR	620	335	NR	750	8	NR	880	0	NR
365	0	NR	495	277	NR	625	337	NR	755	7	NR	885	0	NR
370	0	NR	500	312	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	342	NR	635	569	NR	765	5	NR	895	0	NR
380	2	NR	510	365	NR	640	212	NR	770	4	NR	900	0	NR
385	2	NR	515	380	NR	645	218	NR	775	4	NR	905	0	NR
390	3	NR	520	392	NR	650	177	NR	780	3	NR	910	0	NR
395	4	NR	525	399	NR	655	148	NR	785	3	NR	915	0	NR
400	5	NR	530	402	NR	660	126	NR	790	2	NR	920	0	NR
405	7	NR	535	406	NR	665	106	NR	795	2	NR	925	0	NR
410	10	NR	540	407	NR	670	97	NR	800	2	NR	930	0	NR
415	15	NR	545	409	NR	675	80	NR	805	2	NR	935	0	NR
420	25	NR	550	410	NR	680	69	NR	810	1	NR	940	0	NR
425	43	NR	555	409	NR	685	59	NR	815	1	NR	945	0	NR
430	76	NR	560	409	NR	690	51	NR	820	1	NR	950	0	NR
435	135	NR	565	409	NR	695	44	NR	825	1	NR	955	0	NR
440	235	NR	570	405	NR	700	38	NR	830	1	NR	960	0	NR
445	412	NR	575	402	NR	705	32	NR	835	1	NR	965	0	NR
450	675	NR	580	396	NR	710	27	NR	840	1	NR	970	0	NR
455	756	NR	585	389	NR	715	23	NR	845	1	NR	975	0	NR
460	560	NR	590	382	NR	720	20	NR	850	0	NR	980	0	NR
465	418	NR	595	371	NR	725	17	NR	855	0	NR	985	0	NR
470	344	NR	600	363	NR	730	15	NR	860	0	NR	990	0	NR
475	268	NR	605	356	NR	735	13	NR	865	0	NR	995	0	NR
480	229	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	231	NR	615	379	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-24-R2

Scotopic Flux vs. Wavelength

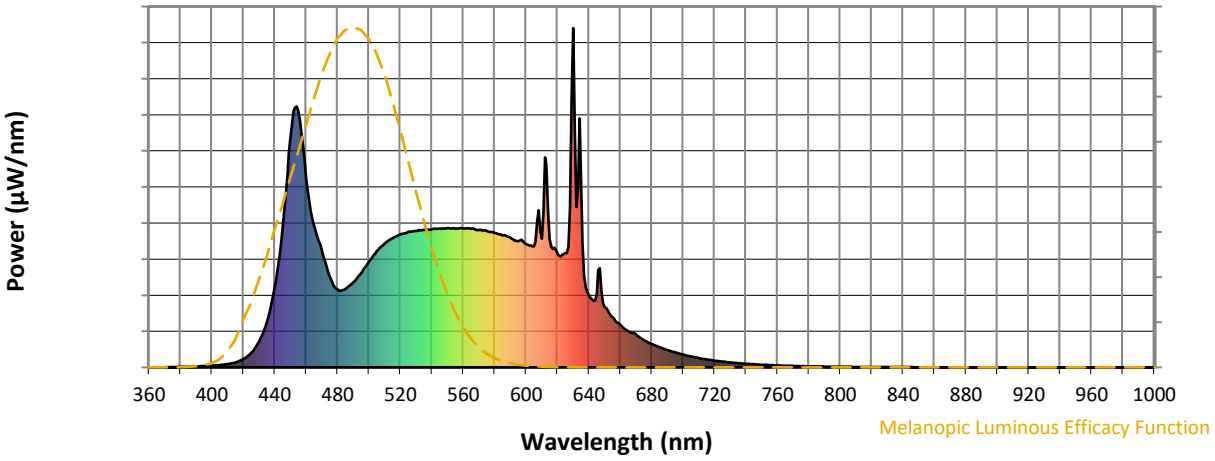


Scotopic Lumens: NR **S/P: 2.11**

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	251	NR	620	335	NR	750	8	NR	880	0	NR
365	0	NR	495	277	NR	625	337	NR	755	7	NR	885	0	NR
370	0	NR	500	312	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	342	NR	635	569	NR	765	5	NR	895	0	NR
380	2	NR	510	365	NR	640	212	NR	770	4	NR	900	0	NR
385	2	NR	515	380	NR	645	218	NR	775	4	NR	905	0	NR
390	3	NR	520	392	NR	650	177	NR	780	3	NR	910	0	NR
395	4	NR	525	399	NR	655	148	NR	785	3	NR	915	0	NR
400	5	NR	530	402	NR	660	126	NR	790	2	NR	920	0	NR
405	7	NR	535	406	NR	665	106	NR	795	2	NR	925	0	NR
410	10	NR	540	407	NR	670	97	NR	800	2	NR	930	0	NR
415	15	NR	545	409	NR	675	80	NR	805	2	NR	935	0	NR
420	25	NR	550	410	NR	680	69	NR	810	1	NR	940	0	NR
425	43	NR	555	409	NR	685	59	NR	815	1	NR	945	0	NR
430	76	NR	560	409	NR	690	51	NR	820	1	NR	950	0	NR
435	135	NR	565	409	NR	695	44	NR	825	1	NR	955	0	NR
440	235	NR	570	405	NR	700	38	NR	830	1	NR	960	0	NR
445	412	NR	575	402	NR	705	32	NR	835	1	NR	965	0	NR
450	675	NR	580	396	NR	710	27	NR	840	1	NR	970	0	NR
455	756	NR	585	389	NR	715	23	NR	845	1	NR	975	0	NR
460	560	NR	590	382	NR	720	20	NR	850	0	NR	980	0	NR
465	418	NR	595	371	NR	725	17	NR	855	0	NR	985	0	NR
470	344	NR	600	363	NR	730	15	NR	860	0	NR	990	0	NR
475	268	NR	605	356	NR	735	13	NR	865	0	NR	995	0	NR
480	229	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	231	NR	615	379	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.6**

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	251	NR	620	335	NR	750	8	NR	880	0	NR
365	0	NR	495	277	NR	625	337	NR	755	7	NR	885	0	NR
370	0	NR	500	312	NR	630	1000	NR	760	6	NR	890	0	NR
375	1	NR	505	342	NR	635	569	NR	765	5	NR	895	0	NR
380	2	NR	510	365	NR	640	212	NR	770	4	NR	900	0	NR
385	2	NR	515	380	NR	645	218	NR	775	4	NR	905	0	NR
390	3	NR	520	392	NR	650	177	NR	780	3	NR	910	0	NR
395	4	NR	525	399	NR	655	148	NR	785	3	NR	915	0	NR
400	5	NR	530	402	NR	660	126	NR	790	2	NR	920	0	NR
405	7	NR	535	406	NR	665	106	NR	795	2	NR	925	0	NR
410	10	NR	540	407	NR	670	97	NR	800	2	NR	930	0	NR
415	15	NR	545	409	NR	675	80	NR	805	2	NR	935	0	NR
420	25	NR	550	410	NR	680	69	NR	810	1	NR	940	0	NR
425	43	NR	555	409	NR	685	59	NR	815	1	NR	945	0	NR
430	76	NR	560	409	NR	690	51	NR	820	1	NR	950	0	NR
435	135	NR	565	409	NR	695	44	NR	825	1	NR	955	0	NR
440	235	NR	570	405	NR	700	38	NR	830	1	NR	960	0	NR
445	412	NR	575	402	NR	705	32	NR	835	1	NR	965	0	NR
450	675	NR	580	396	NR	710	27	NR	840	1	NR	970	0	NR
455	756	NR	585	389	NR	715	23	NR	845	1	NR	975	0	NR
460	560	NR	590	382	NR	720	20	NR	850	0	NR	980	0	NR
465	418	NR	595	371	NR	725	17	NR	855	0	NR	985	0	NR
470	344	NR	600	363	NR	730	15	NR	860	0	NR	990	0	NR
475	268	NR	605	356	NR	735	13	NR	865	0	NR	995	0	NR
480	229	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	231	NR	615	379	NR	745	9	NR	875	0	NR			

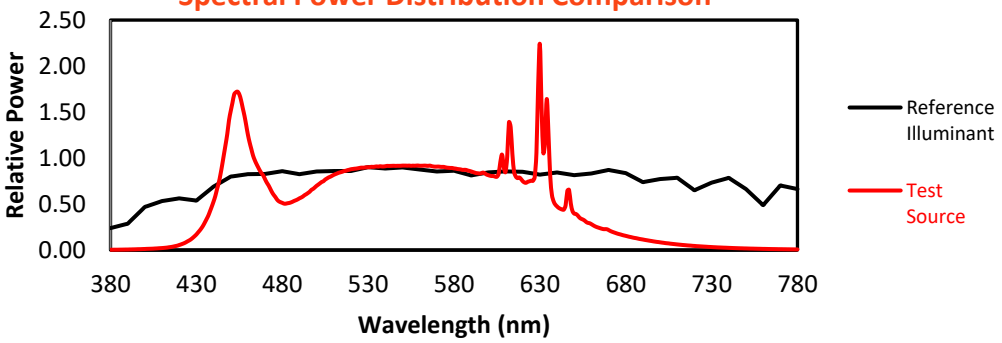
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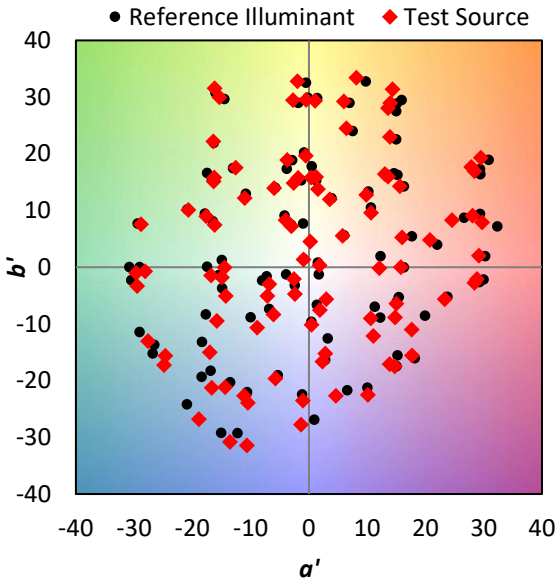
Summary

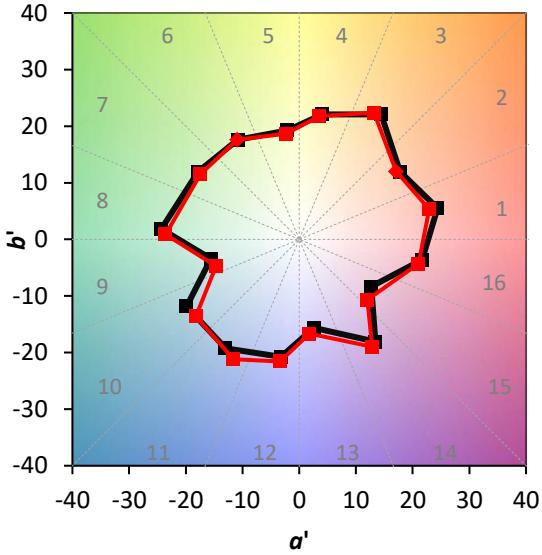
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R_g = 98.4
CIE R_a = 93.0
R_9 = 64.0

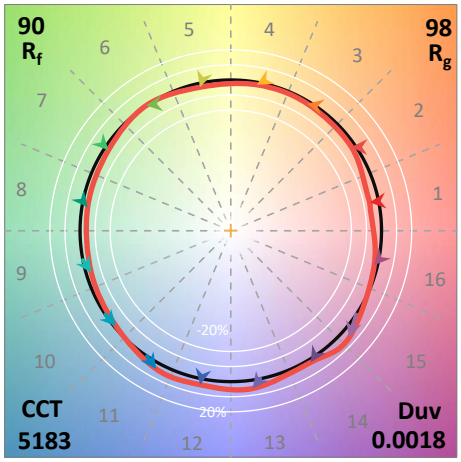
Spectral Power Distribution Comparison

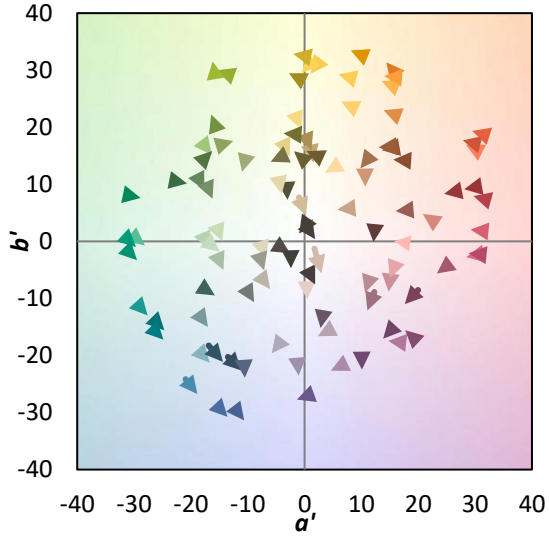


Color Vector Graphics







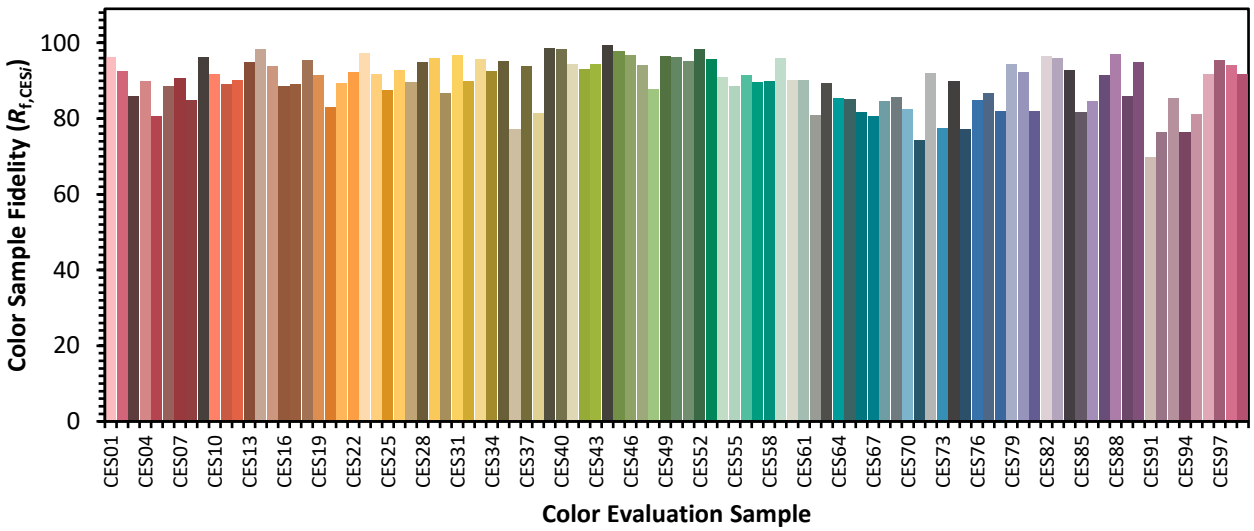


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Individual Sample Fidelity Index ($R_{f,i}$)

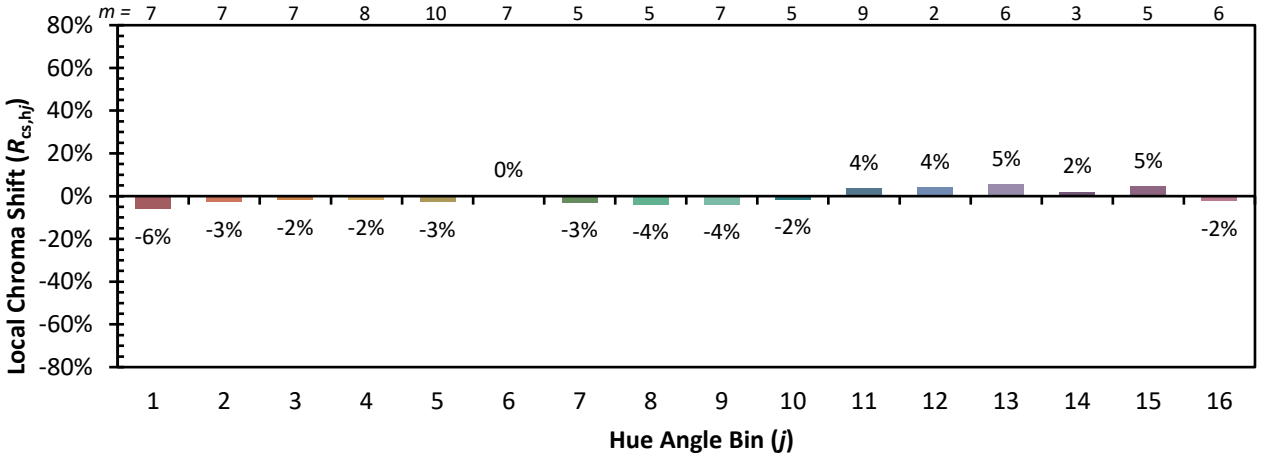
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CES02 = 60	CES27 = 90	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 95	CES53 = 96	CES78 = 82
CES04 = 68	CES29 = 96	CES54 = 91	CES79 = 94
CES05 = 47	CES30 = 87	CES55 = 89	CES80 = 92
CES06 = 50	CES31 = 97	CES56 = 92	CES81 = 82
CES07 = 41	CES32 = 90	CES57 = 90	CES82 = 96
CES08 = 40	CES33 = 96	CES58 = 90	CES83 = 96
CES09 = 29	CES34 = 92	CES59 = 96	CES84 = 93
CES10 = 73	CES35 = 95	CES60 = 90	CES85 = 82
CES11 = 55	CES36 = 77	CES61 = 90	CES86 = 85
CES12 = 62	CES37 = 94	CES62 = 81	CES87 = 91
CES13 = 42	CES38 = 82	CES63 = 89	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 85	CES89 = 86
CES15 = 71	CES40 = 98	CES65 = 85	CES90 = 95
CES16 = 46	CES41 = 94	CES66 = 82	CES91 = 70
CES17 = 48	CES42 = 93	CES67 = 81	CES92 = 76
CES18 = 56	CES43 = 94	CES68 = 85	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 86	CES94 = 76
CES20 = 65	CES45 = 98	CES70 = 83	CES95 = 81
CES21 = 84	CES46 = 97	CES71 = 74	CES96 = 92
CES22 = 77	CES47 = 94	CES72 = 92	CES97 = 96
CES23 = 91	CES48 = 88	CES73 = 78	CES98 = 94
CES24 = 90	CES49 = 97	CES74 = 90	CES99 = 92
CES25 = 70	CES50 = 96	CES75 = 77	

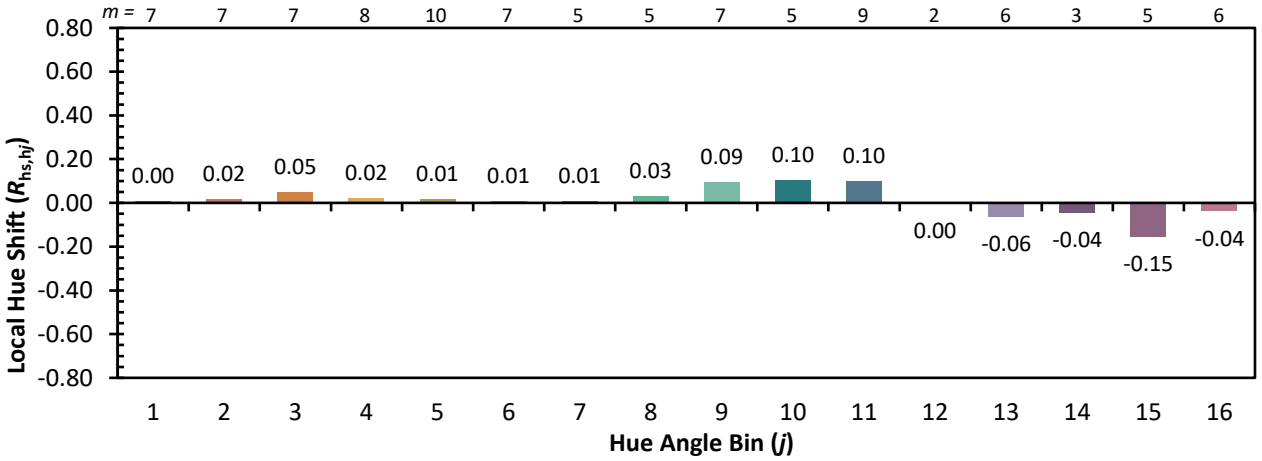


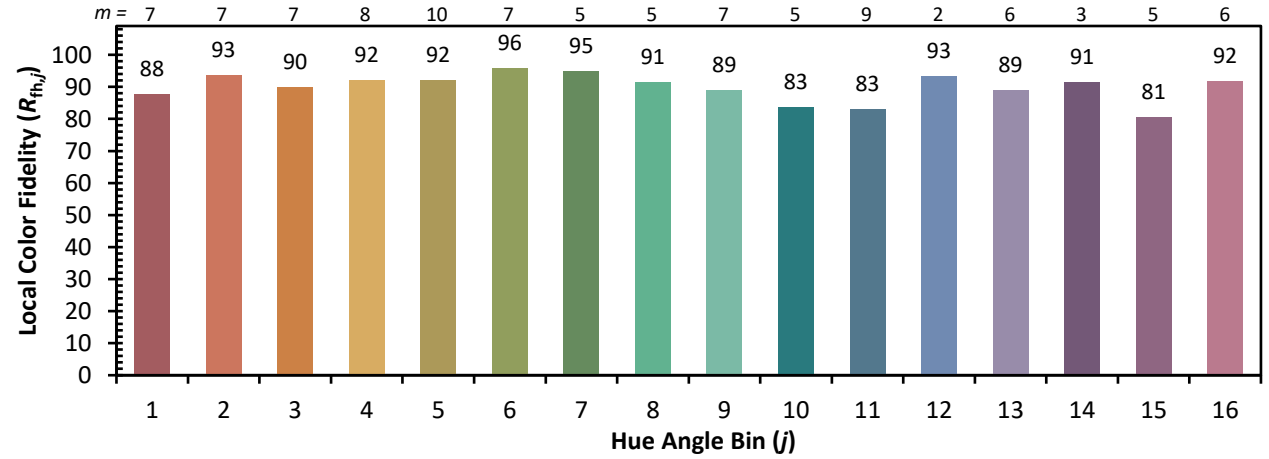
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Color Rendition by Hue-Angle Bin



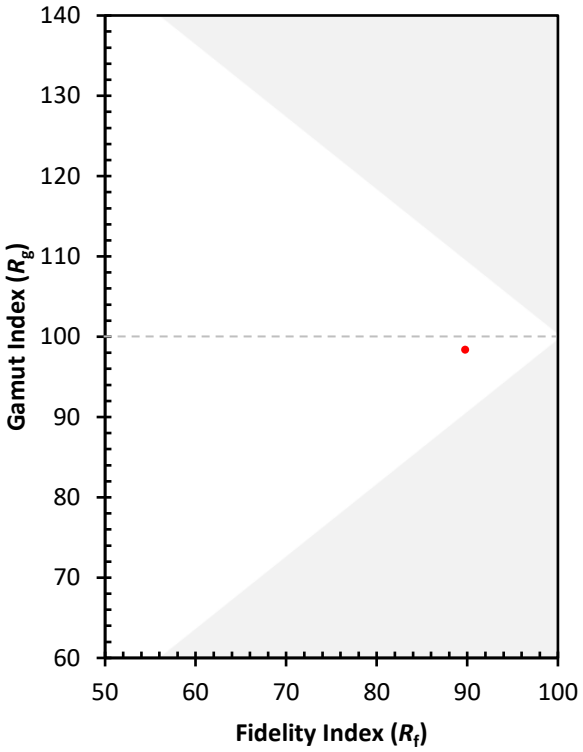


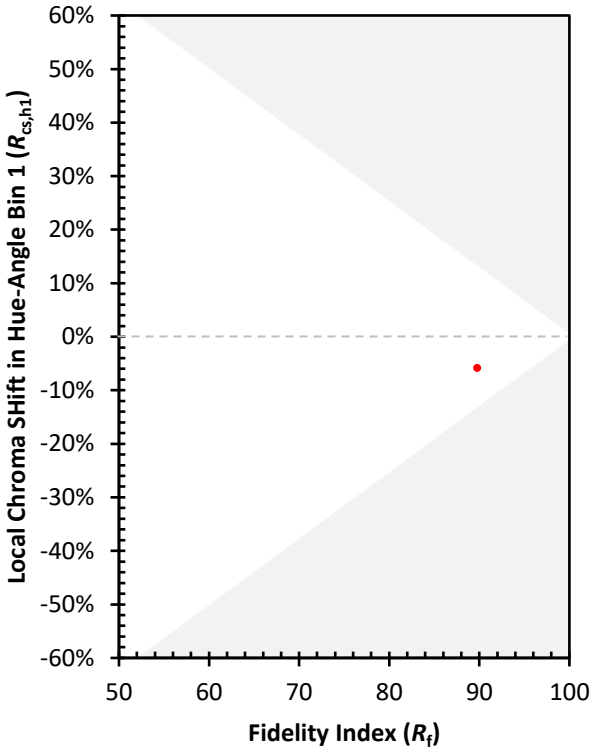


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Measure Comparisons





(END OF REPORT)