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: P1527737

Luminaire Tested: 22CGTX-45-B2750-W2A-4500K

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:	P1527737
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-7)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-45-B2750-W2A-4500K
Description:	2X2 4500 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:	4495.1 lumens
Efficiency:	N/A
Efficacy:	102.9 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):	43.7
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

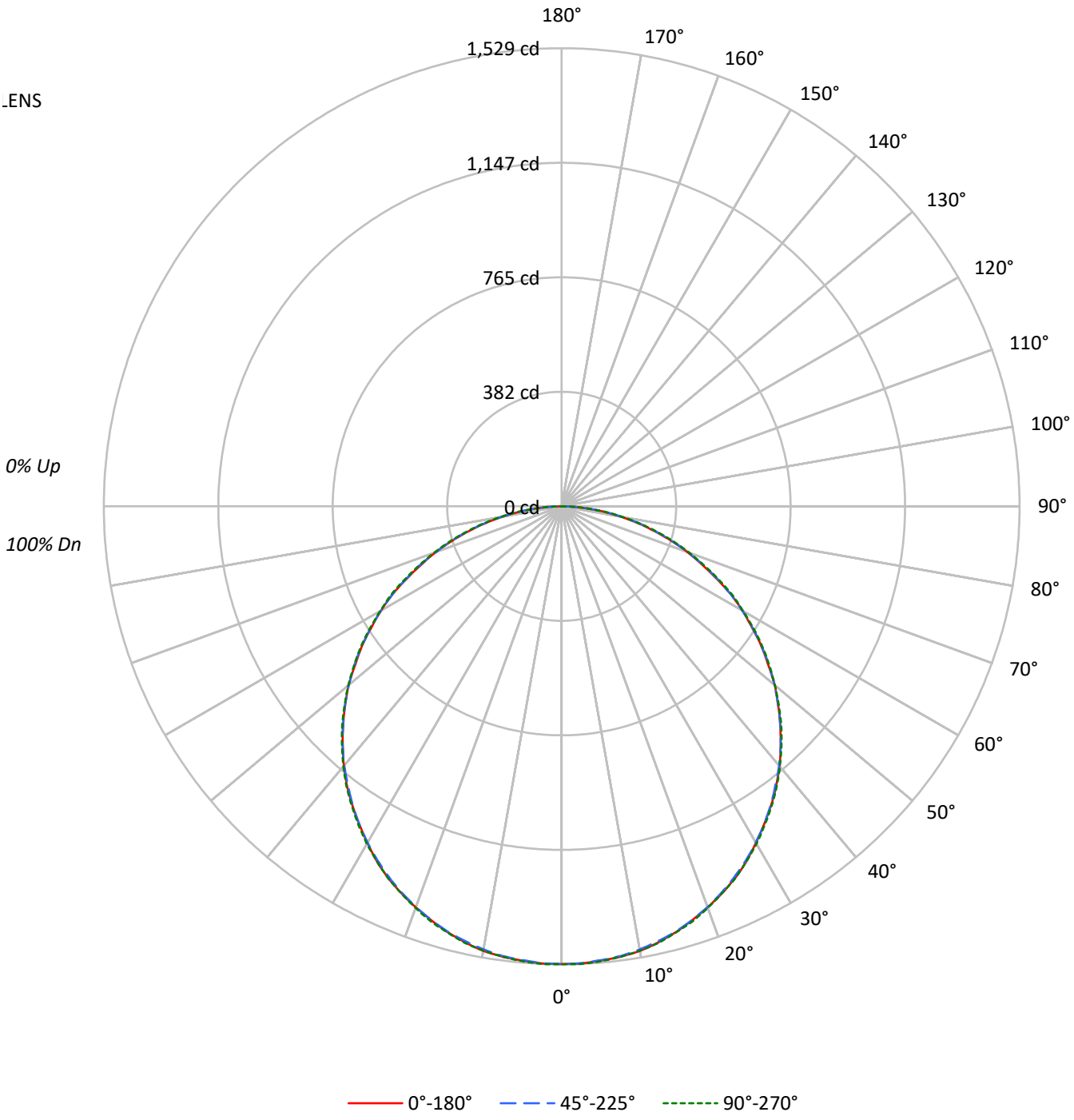


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Scaled Data Report

TEST NUMBER: P1527737
CATALOG NUMBER: 22CGTX-45-B2750-W2A-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	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°	4112	4112	4112
5°	4112	4106	4117
10°	4118	4104	4115
15°	4101	4095	4104
20°	4080	4077	4086
25°	4067	4054	4070
30°	4031	4028	4043
35°	4004	3998	4014
40°	3975	3968	3982
45°	3928	3928	3947
50°	3888	3884	3893
55°	3820	3825	3844
60°	3750	3750	3766
65°	3625	3650	3682
70°	3523	3523	3570
75°	3330	3393	3445
80°	3127	3158	3236
85°	2791	2884	2884

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 3947 cd/sqm

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TEST NUMBER: P1527737
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	3.2
10°-20°	415.2	9.2
20°-30°	630.2	14.0
30°-40°	762.4	17.0
40°-50°	796.9	17.7
50°-60°	728.8	16.2
60°-70°	568.3	12.6
70°-80°	344.3	7.7
80°-90°	104.4	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°	1190.1	26.5
0°-40°	1952.4	43.4
0°-60°	3478.2	77.4
0°-90°	4495.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4495.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1522	1521	1520	1522	1524	145
15°	1472	1470	1470	1473	1473	415
25°	1370	1366	1366	1369	1371	631
35°	1219	1217	1217	1220	1222	763
45°	1032	1031	1032	1034	1037	796
55°	814	815	815	816	819	727
65°	569	572	573	575	578	565
75°	320	322	326	327	331	341
85°	90	91	93	93	93	101
90°	0	0	0	0	0	

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TEST NUMBER: P1527737
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1528.2	1528.2	1528.2	1528.2	*1528.2*
2.5°	*1527.2*	*1526.2*	*1526.2*	*1527.2*	*1529.2*
5°	1522.2	1521.2	1520.2	1522.2	*1524.2*
7.5°	1516.2	1513.1	1514.1	1514.1	*1516.2*
10°	1507.1	1503.1	1502.1	1504.1	*1506.1*
12.5°	1491.1	1488.0	1487.0	1490.0	*1493.1*
15°	1472.0	1470.0	1470.0	1473.0	*1473.0*
17.5°	1448.9	1449.9	1447.9	1449.9	*1452.9*
20°	1424.8	1424.8	1423.8	1425.8	*1426.8*
22.5°	1398.7	1395.7	1395.7	1398.7	*1398.7*
25°	1369.6	1365.5	1365.5	1368.6	*1370.6*
27.5°	1336.4	1333.4	1332.4	1336.4	*1336.4*
30°	1297.3	1296.3	1296.3	1298.3	*1301.3*
32.5°	1258.1	1258.1	1258.1	1259.1	*1262.1*
35°	1218.9	1216.9	1216.9	1220.0	*1222.0*
37.5°	1176.8	1173.8	1172.8	1177.8	*1179.8*
40°	1131.6	1130.6	1129.6	1130.6	*1133.6*
42.5°	1082.4	1080.4	1082.4	1084.4	*1086.4*
45°	1032.2	1031.2	1032.2	1034.2	*1037.2*
47.5°	980.0	981.0	981.0	983.0	*984.0*
50°	928.8	927.8	927.8	927.8	*929.8*
52.5°	869.5	869.5	873.5	873.5	*874.6*
55°	814.3	815.3	815.3	816.3	*819.3*
57.5°	754.1	755.1	756.1	760.1	*760.1*
60°	696.8	695.8	696.8	699.8	*699.8*
62.5°	637.6	634.6	636.6	638.6	*643.6*
65°	569.3	572.3	573.3	575.3	*578.3*
67.5°	506.1	508.1	511.1	517.1	*514.1*
70°	447.8	447.8	447.8	450.8	*453.8*
72.5°	384.6	385.6	387.6	388.6	*392.6*
75°	320.3	322.3	326.3	327.3	*331.3*
77.5°	262.1	262.1	266.1	268.1	*269.1*
80°	201.8	200.8	203.8	207.8	*208.8*
82.5°	144.6	145.6	148.6	150.6	*151.6*
85°	90.4	91.4	93.4	93.4	*93.4*
87.5°	37.2	40.2	41.2	42.2	*42.2*
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	16.82	18.48	17.19	18.80	19.11	16.87	18.53	17.23	18.84	19.16
	3H	18.72	20.22	19.10	20.55	20.91	18.79	20.29	19.16	20.62	20.98
	4H	19.46	20.88	19.85	21.22	21.60	19.55	20.97	19.94	21.31	21.69
	6H	20.03	21.35	20.44	21.71	22.10	20.14	21.46	20.55	21.82	22.21
	8H	20.23	21.49	20.65	21.88	22.27	20.35	21.61	20.77	21.99	22.39
	12H	20.36	21.57	20.79	21.95	22.38	20.49	21.70	20.92	22.08	22.51
4H	2H	17.49	18.91	17.89	19.26	19.63	17.53	18.95	17.92	19.29	19.67
	3H	19.62	20.81	20.02	21.21	21.61	19.67	20.87	20.08	21.26	21.66
	4H	20.49	21.57	20.92	21.99	22.42	20.57	21.65	21.00	22.06	22.50
	6H	21.20	22.15	21.65	22.59	23.04	21.30	22.25	21.75	22.69	23.14
	8H	21.45	22.34	21.91	22.78	23.24	21.56	22.45	22.02	22.90	23.36
	12H	21.64	22.44	22.12	22.91	23.38	21.76	22.56	22.24	23.04	23.50
8H	4H	20.85	21.74	21.31	22.18	22.65	20.92	21.81	21.38	22.25	22.71
	6H	21.69	22.44	22.19	22.92	23.40	21.79	22.53	22.28	23.02	23.49
	8H	22.03	22.69	22.53	23.20	23.68	22.14	22.80	22.65	23.31	23.79
	12H	22.30	22.89	22.80	23.38	23.94	22.42	23.01	22.93	23.50	24.06
12H	4H	20.90	21.70	21.38	22.17	22.64	20.96	21.76	21.44	22.24	22.71
	6H	21.77	22.44	22.28	22.94	23.43	21.86	22.53	22.37	23.03	23.52
	8H	22.17	22.76	22.67	23.25	23.81	22.27	22.87	22.78	23.35	23.91

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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: SP1-2505-441-7-R2

Test Date: 06/12/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-4500K

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

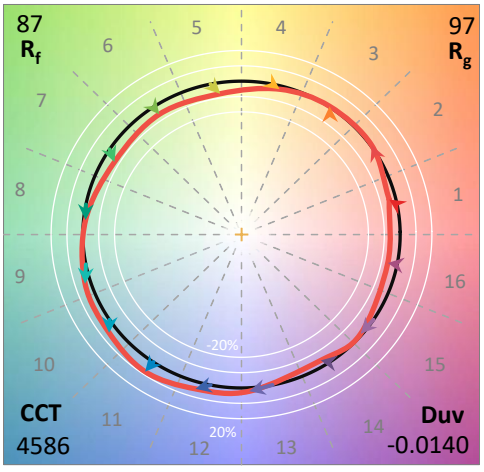
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-7-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-4500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-7-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 3.0V

Spectral Parameters

CCT (K):	4586	CRI (Ra):	86.0		
CIE u':	0.2254	R1:	90.9	R9:	88.3
CIE v':	0.4753	R2:	86.0	R10:	73.4
Duv:	-0.0140	R3:	84.1	R11:	89.8
CIE x:	0.3529	R4:	88.1	R12:	69.1
CIE y:	0.3308	R5:	89.1	R13:	88.9
CIE z:	0.3163	R6:	80.3	R14:	92.7
Peak Wavelength (nm):	630	R7:	83.3	R15:	91.4
Dominant Wavelength (nm):	637	R8:	86.7		
Purity:	5.105834				
Rf:	86.9				
Rg:	96.7				



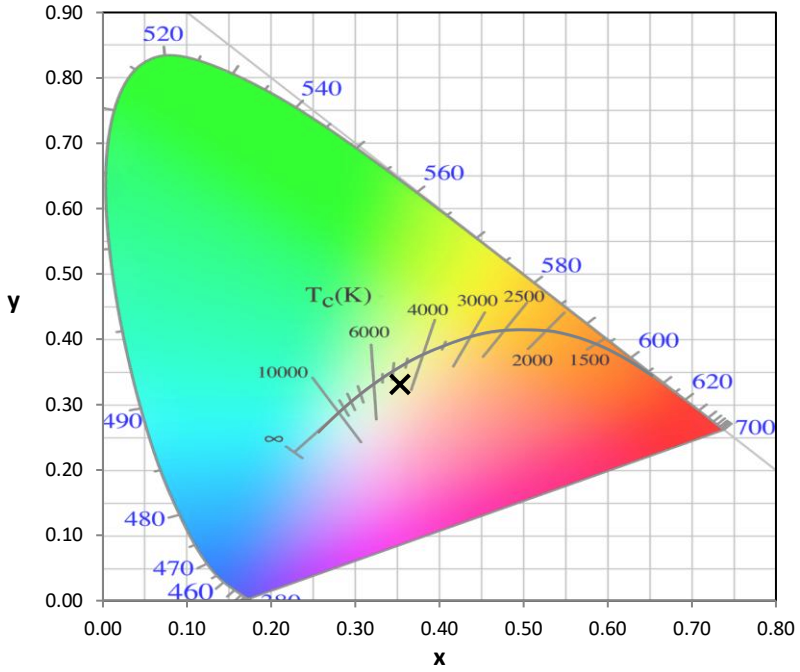
Test Conditions

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

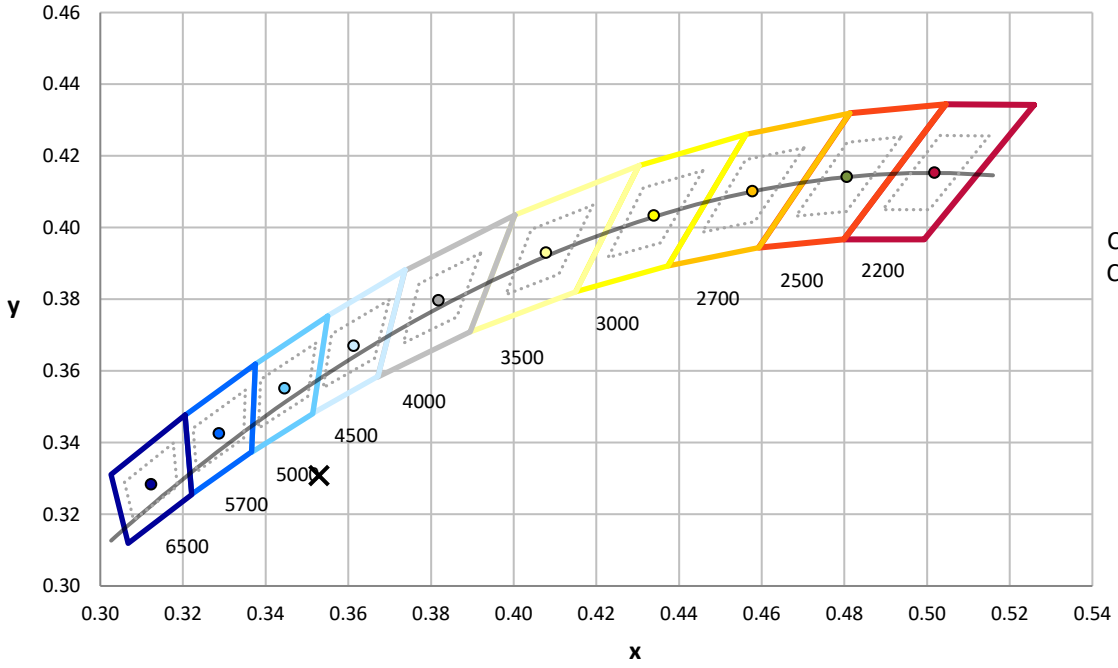
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2505-441-7-R2

CIE 1931 Chromaticity Diagram



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

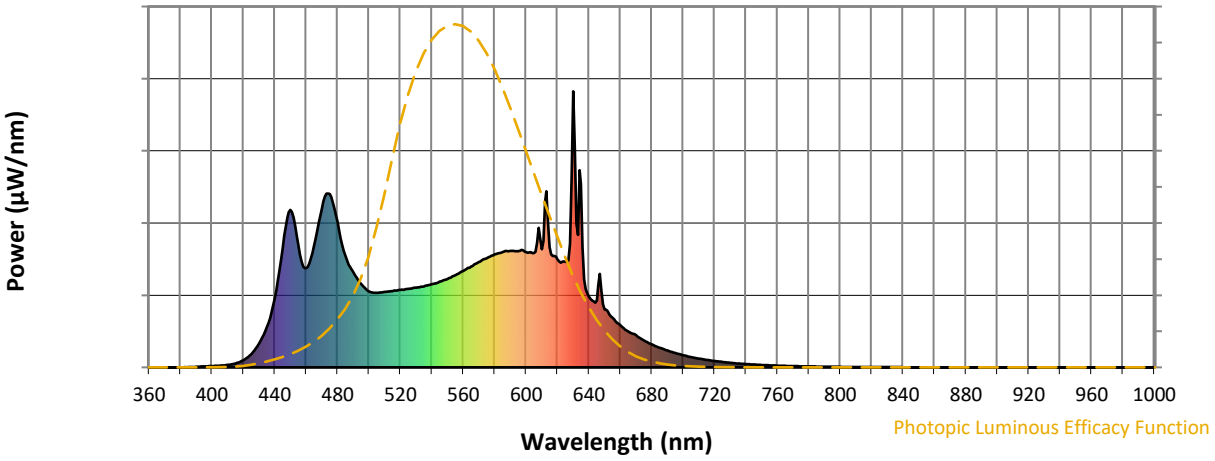


CCT = 4586K
CIE x = 0.3529
CIE y = 0.3308
Duv = -0.0140

Point lies outside the range

REPORT NUMBER: SP1-2505-441-7-R2

Photopic Flux vs. Wavelength

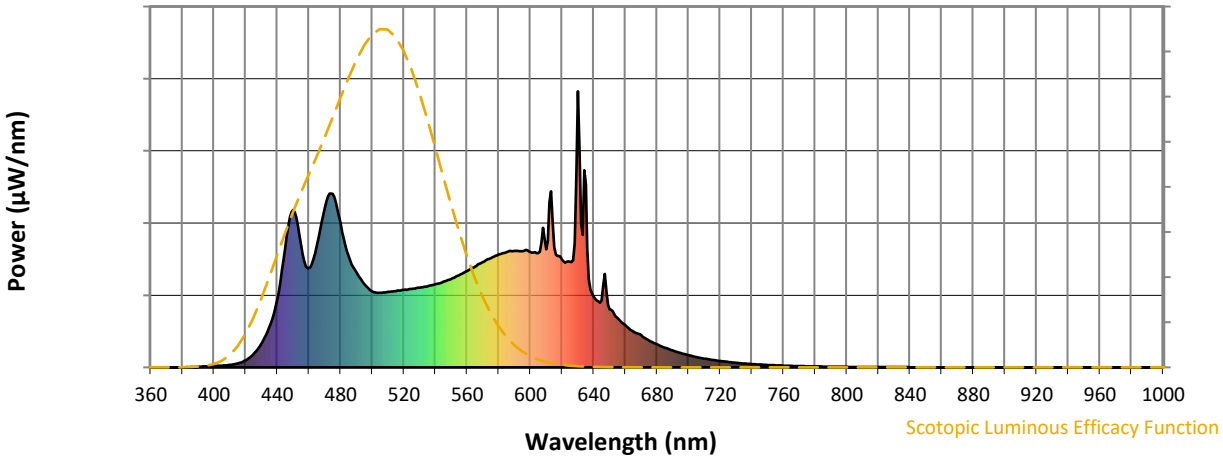


Photopic Lumens: NR

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	344	NR	620	391	NR	750	9	NR	880	0	NR
365	0	NR	495	302	NR	625	383	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	270	NR	635	663	NR	765	5	NR	895	0	NR
380	0	NR	510	274	NR	640	257	NR	770	5	NR	900	0	NR
385	1	NR	515	276	NR	645	242	NR	775	4	NR	905	0	NR
390	2	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	3	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	5	NR	530	289	NR	660	153	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	130	NR	795	2	NR	925	0	NR
410	9	NR	540	302	NR	670	117	NR	800	2	NR	930	0	NR
415	14	NR	545	310	NR	675	97	NR	805	2	NR	935	0	NR
420	26	NR	550	321	NR	680	83	NR	810	1	NR	940	0	NR
425	48	NR	555	334	NR	685	71	NR	815	1	NR	945	0	NR
430	86	NR	560	349	NR	690	61	NR	820	1	NR	950	0	NR
435	148	NR	565	365	NR	695	52	NR	825	1	NR	955	0	NR
440	248	NR	570	382	NR	700	44	NR	830	1	NR	960	0	NR
445	431	NR	575	396	NR	705	38	NR	835	1	NR	965	0	NR
450	571	NR	580	409	NR	710	32	NR	840	1	NR	970	0	NR
455	443	NR	585	418	NR	715	27	NR	845	1	NR	975	0	NR
460	359	NR	590	422	NR	720	23	NR	850	1	NR	980	0	NR
465	441	NR	595	421	NR	725	20	NR	855	0	NR	985	0	NR
470	578	NR	600	418	NR	730	17	NR	860	0	NR	990	0	NR
475	628	NR	605	414	NR	735	14	NR	865	0	NR	995	0	NR
480	525	NR	610	428	NR	740	12	NR	870	0	NR	1000	0	NR
485	405	NR	615	435	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-7-R2

Scotopic Flux vs. Wavelength

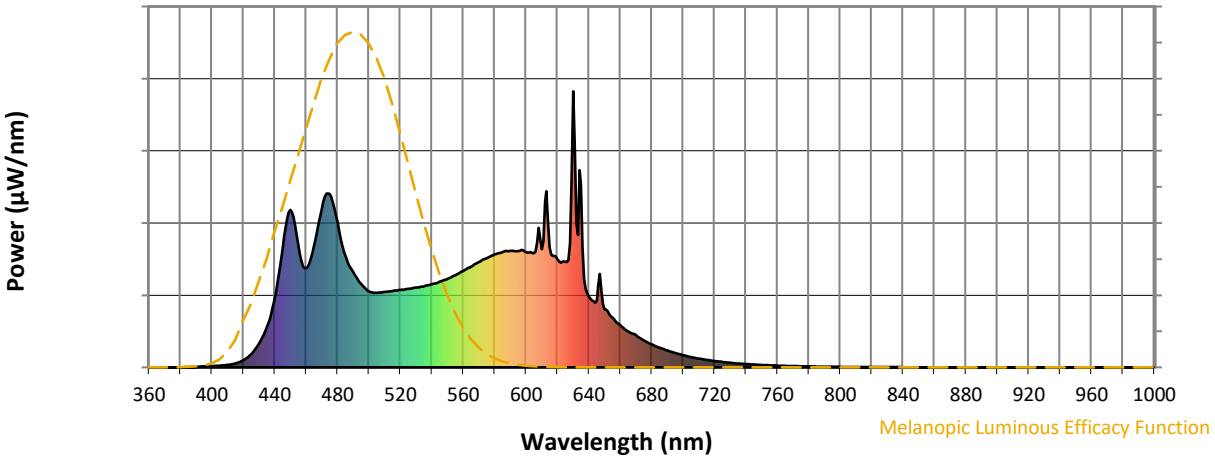


Scotopic Lumens: NR **S/P: 2.19**

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	344	NR	620	391	NR	750	9	NR	880	0	NR
365	0	NR	495	302	NR	625	383	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	270	NR	635	663	NR	765	5	NR	895	0	NR
380	0	NR	510	274	NR	640	257	NR	770	5	NR	900	0	NR
385	1	NR	515	276	NR	645	242	NR	775	4	NR	905	0	NR
390	2	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	3	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	5	NR	530	289	NR	660	153	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	130	NR	795	2	NR	925	0	NR
410	9	NR	540	302	NR	670	117	NR	800	2	NR	930	0	NR
415	14	NR	545	310	NR	675	97	NR	805	2	NR	935	0	NR
420	26	NR	550	321	NR	680	83	NR	810	1	NR	940	0	NR
425	48	NR	555	334	NR	685	71	NR	815	1	NR	945	0	NR
430	86	NR	560	349	NR	690	61	NR	820	1	NR	950	0	NR
435	148	NR	565	365	NR	695	52	NR	825	1	NR	955	0	NR
440	248	NR	570	382	NR	700	44	NR	830	1	NR	960	0	NR
445	431	NR	575	396	NR	705	38	NR	835	1	NR	965	0	NR
450	571	NR	580	409	NR	710	32	NR	840	1	NR	970	0	NR
455	443	NR	585	418	NR	715	27	NR	845	1	NR	975	0	NR
460	359	NR	590	422	NR	720	23	NR	850	1	NR	980	0	NR
465	441	NR	595	421	NR	725	20	NR	855	0	NR	985	0	NR
470	578	NR	600	418	NR	730	17	NR	860	0	NR	990	0	NR
475	628	NR	605	414	NR	735	14	NR	865	0	NR	995	0	NR
480	525	NR	610	428	NR	740	12	NR	870	0	NR	1000	0	NR
485	405	NR	615	435	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 5.06**

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	344	NR	620	391	NR	750	9	NR	880	0	NR
365	0	NR	495	302	NR	625	383	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	270	NR	635	663	NR	765	5	NR	895	0	NR
380	0	NR	510	274	NR	640	257	NR	770	5	NR	900	0	NR
385	1	NR	515	276	NR	645	242	NR	775	4	NR	905	0	NR
390	2	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	3	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	5	NR	530	289	NR	660	153	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	130	NR	795	2	NR	925	0	NR
410	9	NR	540	302	NR	670	117	NR	800	2	NR	930	0	NR
415	14	NR	545	310	NR	675	97	NR	805	2	NR	935	0	NR
420	26	NR	550	321	NR	680	83	NR	810	1	NR	940	0	NR
425	48	NR	555	334	NR	685	71	NR	815	1	NR	945	0	NR
430	86	NR	560	349	NR	690	61	NR	820	1	NR	950	0	NR
435	148	NR	565	365	NR	695	52	NR	825	1	NR	955	0	NR
440	248	NR	570	382	NR	700	44	NR	830	1	NR	960	0	NR
445	431	NR	575	396	NR	705	38	NR	835	1	NR	965	0	NR
450	571	NR	580	409	NR	710	32	NR	840	1	NR	970	0	NR
455	443	NR	585	418	NR	715	27	NR	845	1	NR	975	0	NR
460	359	NR	590	422	NR	720	23	NR	850	1	NR	980	0	NR
465	441	NR	595	421	NR	725	20	NR	855	0	NR	985	0	NR
470	578	NR	600	418	NR	730	17	NR	860	0	NR	990	0	NR
475	628	NR	605	414	NR	735	14	NR	865	0	NR	995	0	NR
480	525	NR	610	428	NR	740	12	NR	870	0	NR	1000	0	NR
485	405	NR	615	435	NR	745	10	NR	875	0	NR			

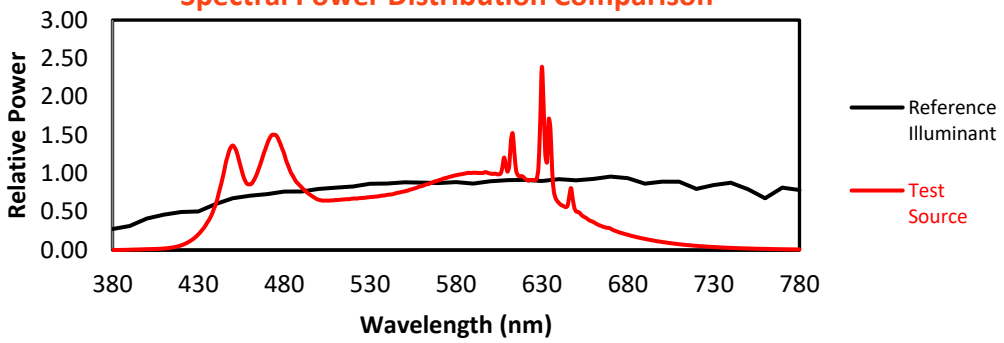
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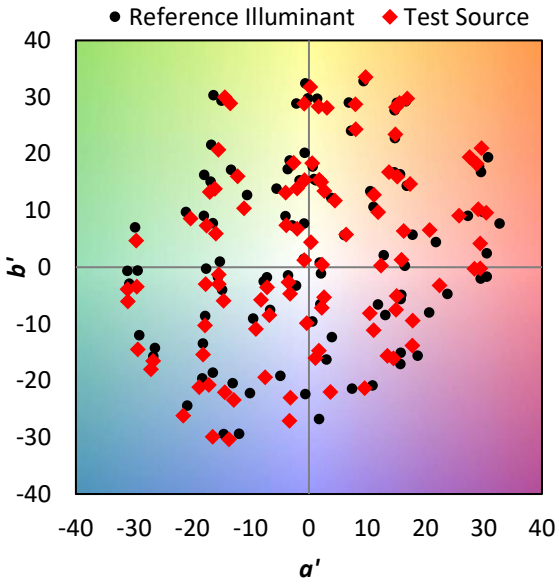
Summary

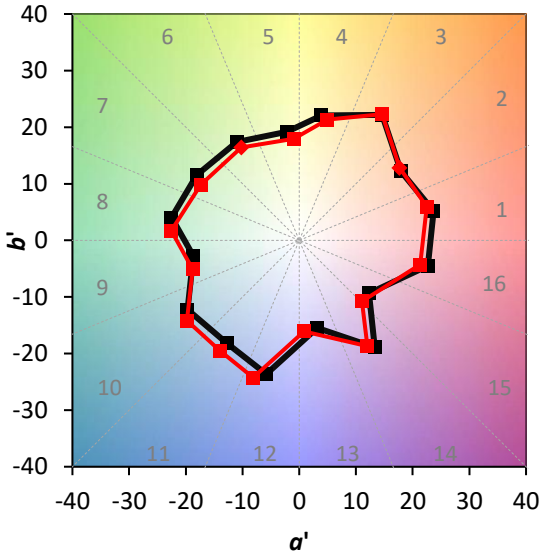
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R_g = 96.7
CIE R_a = 86.0
R_9 = 88.3

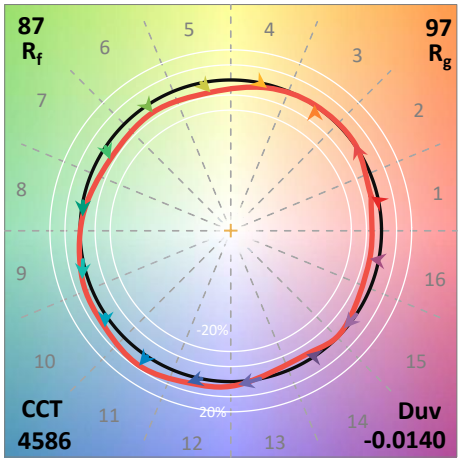
Spectral Power Distribution Comparison

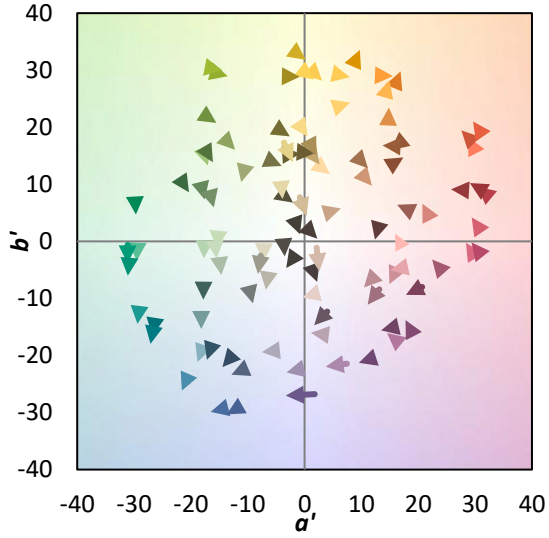


Color Vector Graphics







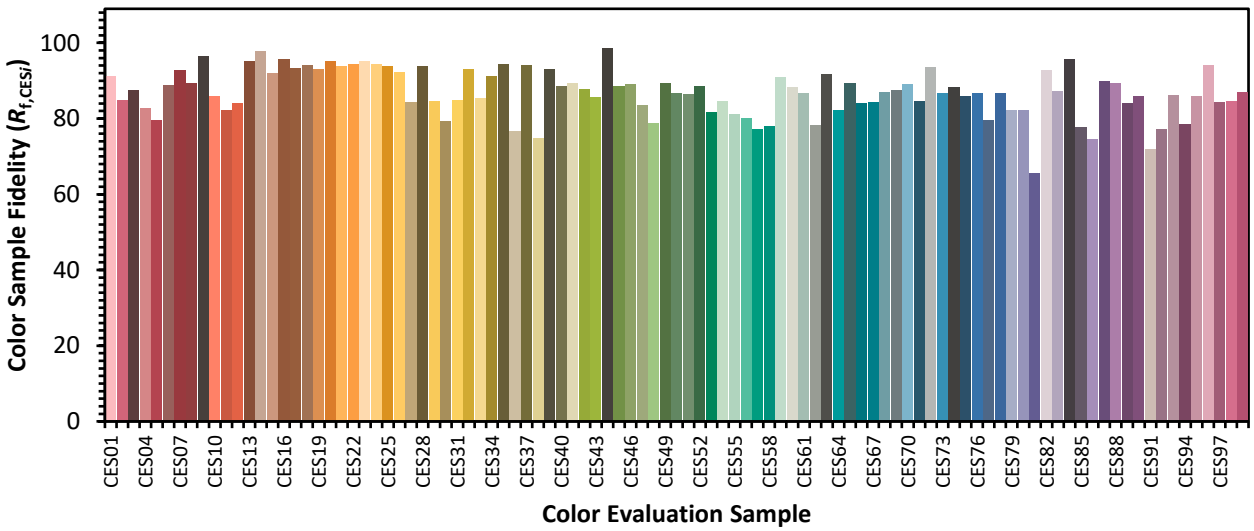


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Individual Sample Fidelity Index ($R_{f,i}$)

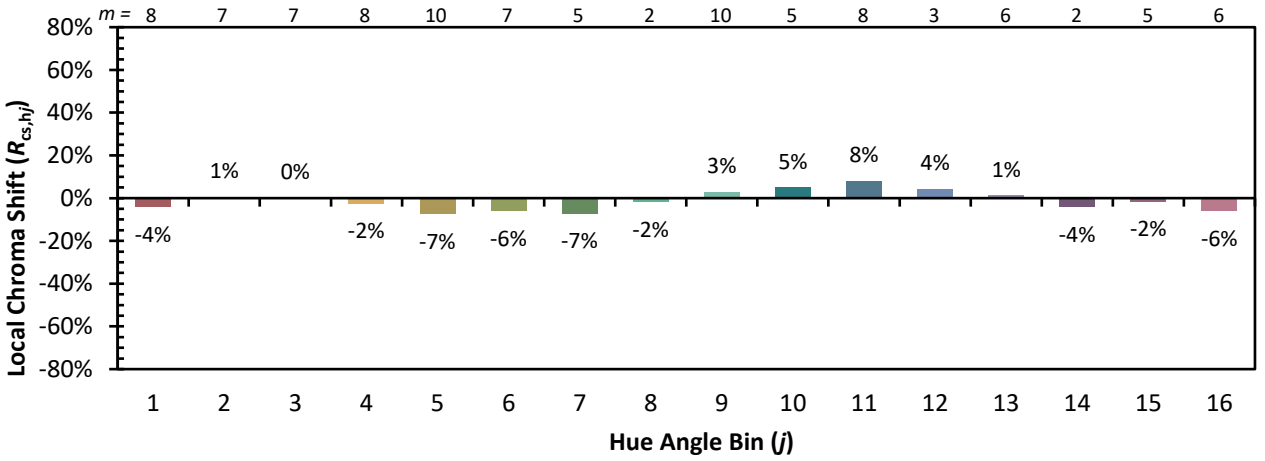
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CES02 = 62	CES27 = 84	CES52 = 89	CES77 = 80
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CES04 = 69	CES29 = 85	CES54 = 85	CES79 = 82
CES05 = 49	CES30 = 79	CES55 = 81	CES80 = 82
CES06 = 50	CES31 = 85	CES56 = 80	CES81 = 65
CES07 = 42	CES32 = 93	CES57 = 77	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 78	CES83 = 87
CES09 = 29	CES34 = 91	CES59 = 91	CES84 = 96
CES10 = 75	CES35 = 94	CES60 = 88	CES85 = 78
CES11 = 57	CES36 = 77	CES61 = 87	CES86 = 75
CES12 = 63	CES37 = 94	CES62 = 78	CES87 = 90
CES13 = 43	CES38 = 75	CES63 = 92	CES88 = 89
CES14 = 74	CES39 = 93	CES64 = 82	CES89 = 84
CES15 = 71	CES40 = 89	CES65 = 89	CES90 = 86
CES16 = 47	CES41 = 89	CES66 = 84	CES91 = 72
CES17 = 49	CES42 = 88	CES67 = 84	CES92 = 77
CES18 = 56	CES43 = 86	CES68 = 87	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 79
CES20 = 66	CES45 = 88	CES70 = 89	CES95 = 86
CES21 = 85	CES46 = 89	CES71 = 85	CES96 = 94
CES22 = 78	CES47 = 84	CES72 = 94	CES97 = 84
CES23 = 91	CES48 = 79	CES73 = 87	CES98 = 85
CES24 = 90	CES49 = 89	CES74 = 88	CES99 = 87
CES25 = 70	CES50 = 87	CES75 = 86	

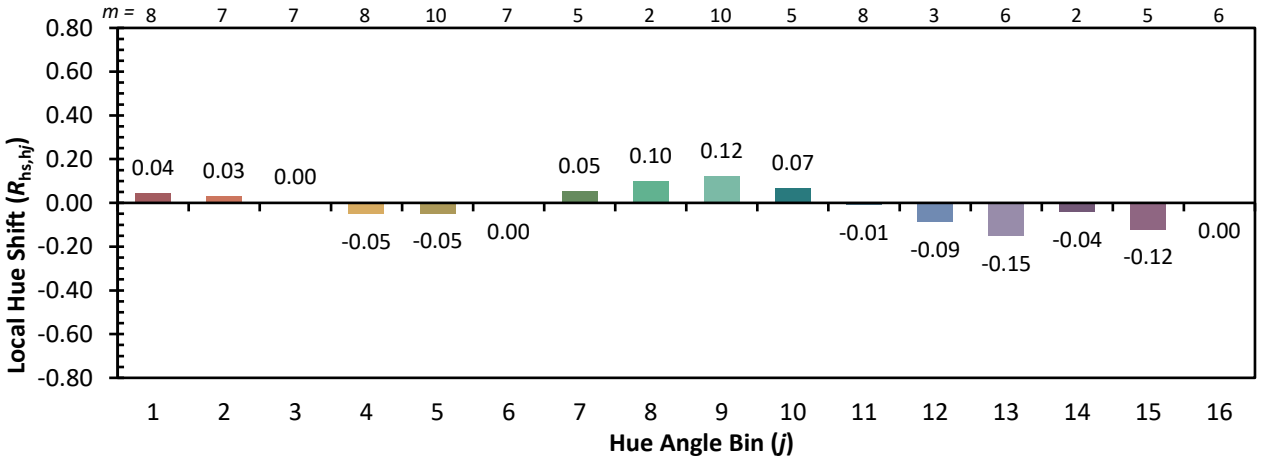


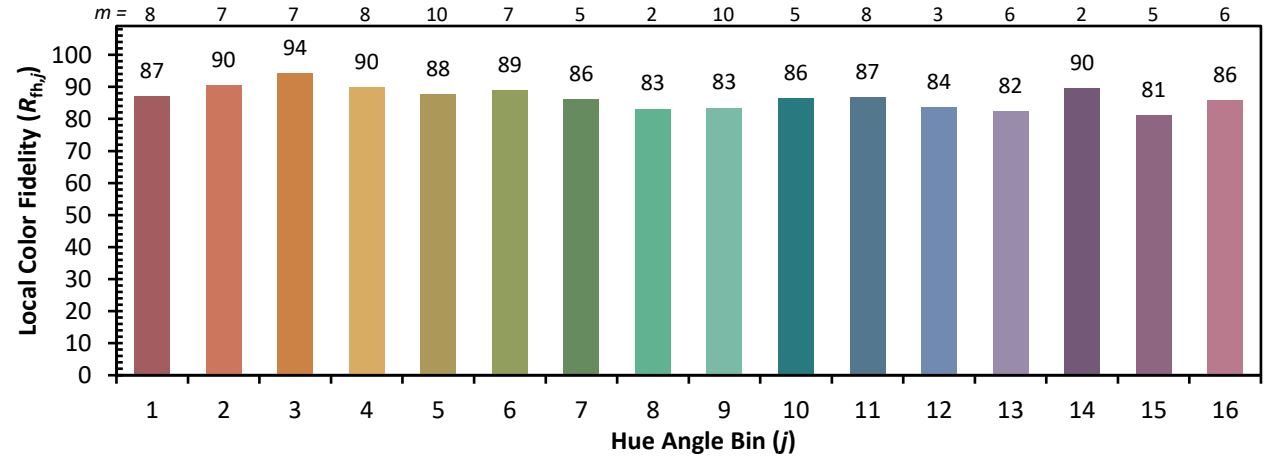
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Color Rendition by Hue-Angle Bin



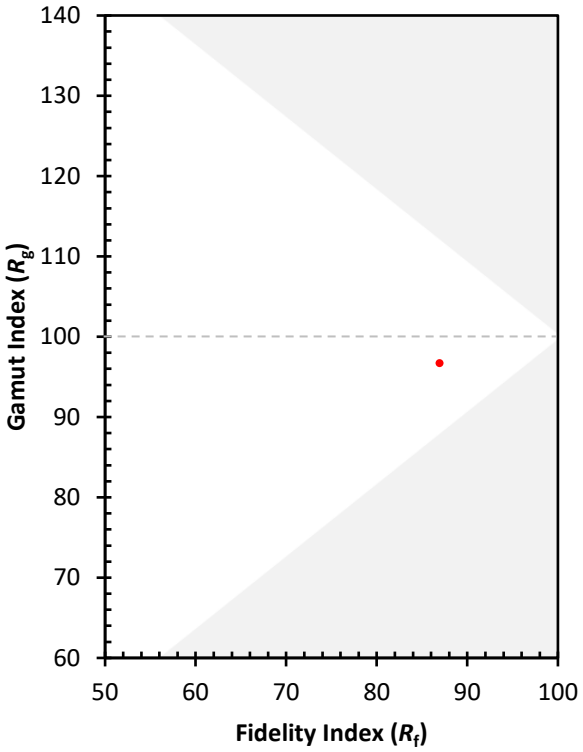


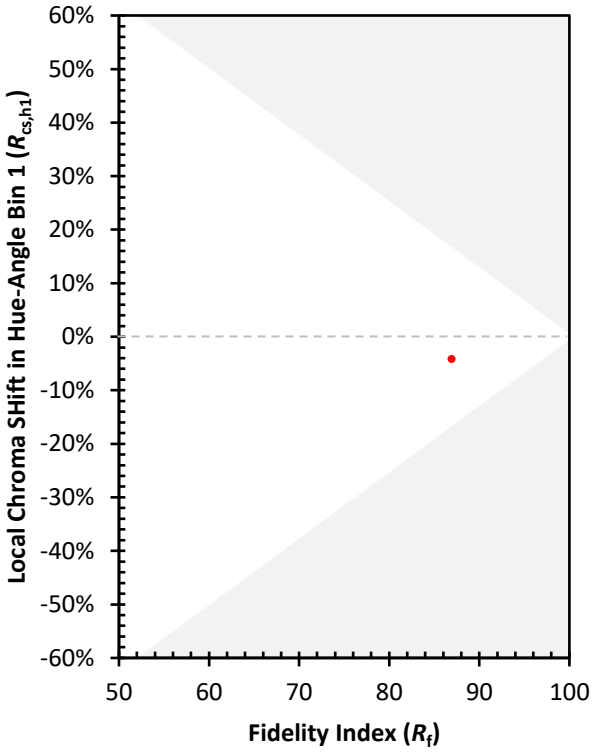


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Measure Comparisons





(END OF REPORT)