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: P1527734

Luminaire Tested: 22CGTX-45-B2750-W2A-3000K

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:	P1527734
	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-3000K
Description:	2X2 4500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 3000K CCT WITH FROSTED SMOOTH L
Light Source:	3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4486.1 lumens
Efficiency:	N/A
Efficacy:	102.7 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

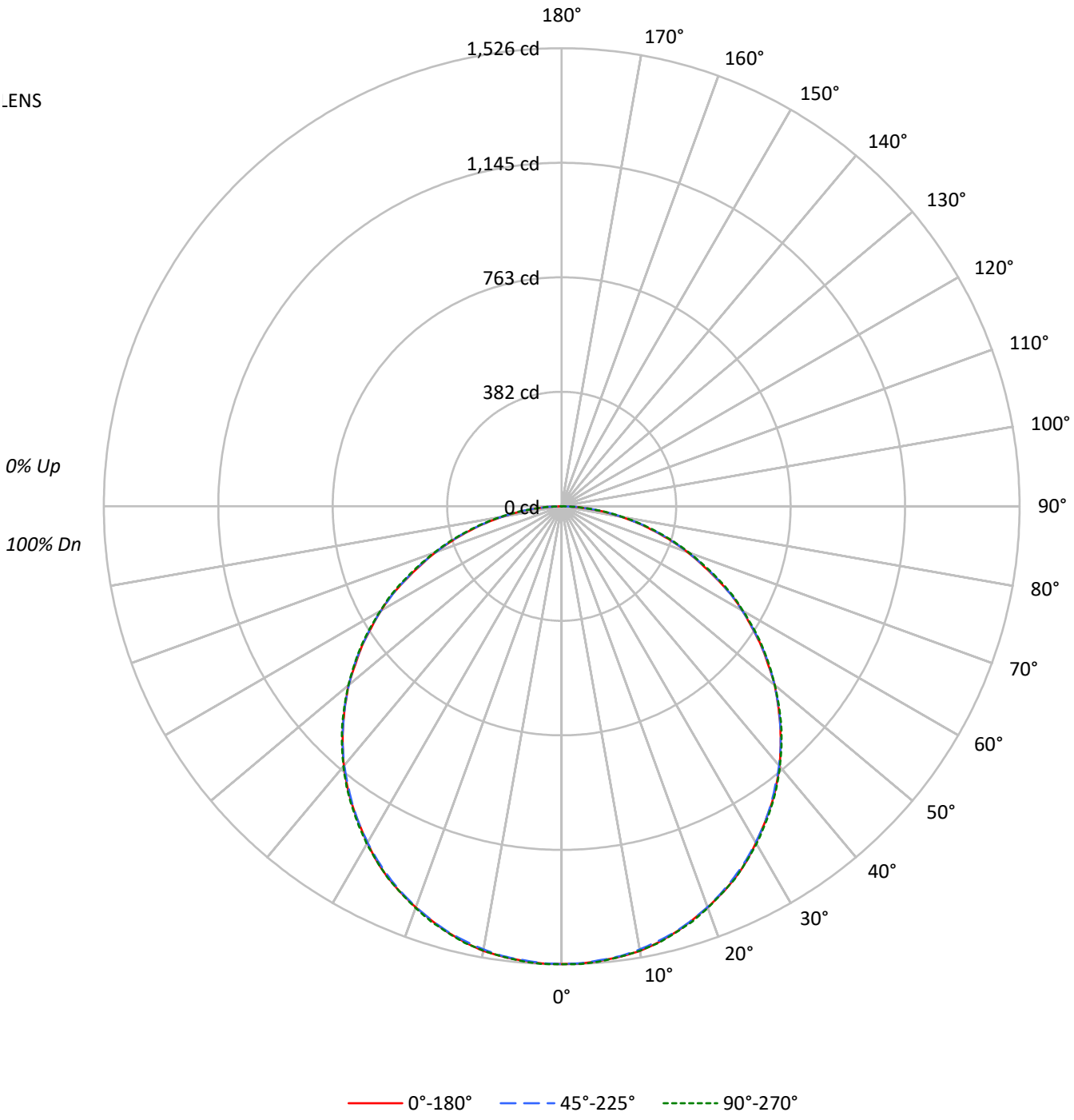


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Scaled Data Report

TEST NUMBER: P1527734
CATALOG NUMBER: 22CGTX-45-B2750-W2A-3000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1527734
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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°	4104	4104	4104
5°	4103	4098	4109
10°	4110	4096	4107
15°	4092	4087	4095
20°	4072	4069	4078
25°	4058	4046	4061
30°	4023	4020	4035
35°	3996	3990	4006
40°	3967	3960	3974
45°	3920	3920	3939
50°	3880	3876	3885
55°	3813	3818	3836
60°	3743	3743	3759
65°	3618	3643	3675
70°	3516	3516	3563
75°	3324	3386	3438
80°	3121	3152	3230
85°	2785	2878	2878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 3939 cd/sqm

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Scaled Data Report

TEST NUMBER: P1527734
CATALOG NUMBER: 22CGTX-45-B2750-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.2
10°-20°	414.4	9.2
20°-30°	628.9	14.0
30°-40°	760.8	17.0
40°-50°	795.3	17.7
50°-60°	727.3	16.2
60°-70°	567.1	12.6
70°-80°	343.6	7.7
80°-90°	104.2	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°	1187.7	26.5
0°-40°	1948.5	43.4
0°-60°	3471.1	77.4
0°-90°	4486.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4486.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1519	1518	1517	1519	1521	145
15°	1469	1467	1467	1470	1470	415
25°	1367	1363	1363	1366	1368	629
35°	1216	1214	1214	1218	1220	761
45°	1030	1029	1030	1032	1035	795
55°	813	814	814	815	818	726
65°	568	571	572	574	577	564
75°	320	322	326	327	331	340
85°	90	91	93	93	93	101
90°	0	0	0	0	0	

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TEST NUMBER: P1527734
CATALOG NUMBER: 22CGTX-45-B2750-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.1	1525.1	1525.1	1525.1	*1525.1*
2.5°	*1524.1*	*1523.1*	*1523.1*	*1524.1*	*1526.1*
5°	1519.1	1518.1	1517.1	1519.1	*1521.1*
7.5°	1513.1	1510.1	1511.1	1511.1	*1513.1*
10°	1504.1	1500.1	1499.1	1501.1	*1503.1*
12.5°	1488.1	1485.0	1484.0	1487.0	*1490.1*
15°	1469.0	1467.0	1467.0	1470.0	*1470.0*
17.5°	1446.0	1447.0	1445.0	1447.0	*1450.0*
20°	1421.9	1421.9	1420.9	1422.9	*1423.9*
22.5°	1395.9	1392.9	1392.9	1395.9	*1395.9*
25°	1366.8	1362.8	1362.8	1365.8	*1367.8*
27.5°	1333.7	1330.7	1329.7	1333.7	*1333.7*
30°	1294.7	1293.7	1293.7	1295.7	*1298.7*
32.5°	1255.6	1255.6	1255.6	1256.6	*1259.6*
35°	1216.5	1214.5	1214.5	1217.5	*1219.5*
37.5°	1174.4	1171.4	1170.4	1175.4	*1177.4*
40°	1129.3	1128.3	1127.3	1128.3	*1131.3*
42.5°	1080.2	1078.2	1080.2	1082.2	*1084.2*
45°	1030.1	1029.1	1030.1	1032.1	*1035.1*
47.5°	978.0	979.0	979.0	981.0	*982.0*
50°	926.9	925.9	925.9	925.9	*927.9*
52.5°	867.8	867.8	871.8	871.8	*872.8*
55°	812.7	813.7	813.7	814.7	*817.7*
57.5°	752.5	753.5	754.5	758.6	*758.6*
60°	695.4	694.4	695.4	698.4	*698.4*
62.5°	636.3	633.3	635.3	637.3	*642.3*
65°	568.2	571.2	572.2	574.2	*577.2*
67.5°	505.0	507.0	510.0	516.1	*513.1*
70°	446.9	446.9	446.9	449.9	*452.9*
72.5°	383.8	384.8	386.8	387.8	*391.8*
75°	319.7	321.7	325.7	326.7	*330.7*
77.5°	261.5	261.5	265.5	267.5	*268.6*
80°	201.4	200.4	203.4	207.4	*208.4*
82.5°	144.3	145.3	148.3	150.3	*151.3*
85°	90.2	91.2	93.2	93.2	*93.2*
87.5°	37.1	40.1	41.1	42.1	*42.1*
90°	0.0	0.0	0.0	0.0	*0.0*

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CATALOG NUMBER: 22CGTX-45-B2750-W2A-3000K

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	16.81	18.47	17.18	18.79	19.10	16.86	18.52	17.23	18.84	19.15
	3H	18.71	20.22	19.09	20.54	20.90	18.78	20.29	19.16	20.61	20.97
	4H	19.45	20.87	19.85	21.22	21.59	19.54	20.96	19.94	21.31	21.68
	6H	20.02	21.34	20.43	21.71	22.10	20.13	21.45	20.54	21.81	22.20
	8H	20.22	21.48	20.64	21.87	22.27	20.34	21.60	20.76	21.99	22.39
	12H	20.36	21.57	20.79	21.95	22.38	20.48	21.69	20.91	22.07	22.50
4H	2H	17.48	18.90	17.88	19.25	19.62	17.52	18.94	17.92	19.29	19.66
	3H	19.61	20.80	20.02	21.20	21.60	19.66	20.86	20.07	21.26	21.66
	4H	20.48	21.57	20.91	21.98	22.41	20.56	21.64	20.99	22.06	22.49
	6H	21.19	22.14	21.65	22.58	23.04	21.29	22.24	21.75	22.68	23.14
	8H	21.44	22.33	21.90	22.77	23.24	21.56	22.45	22.02	22.89	23.35
	12H	21.63	22.43	22.11	22.91	23.37	21.75	22.56	22.23	23.03	23.50
8H	4H	20.84	21.73	21.30	22.17	22.64	20.91	21.80	21.37	22.24	22.71
	6H	21.69	22.43	22.18	22.92	23.39	21.78	22.52	22.27	23.01	23.48
	8H	22.02	22.69	22.53	23.19	23.68	22.13	22.80	22.64	23.30	23.79
	12H	22.29	22.88	22.80	23.37	23.93	22.41	23.00	22.92	23.49	24.05
12H	4H	20.89	21.69	21.37	22.17	22.63	20.95	21.76	21.43	22.23	22.70
	6H	21.76	22.43	22.27	22.94	23.42	21.85	22.52	22.36	23.03	23.51
	8H	22.16	22.75	22.67	23.24	23.80	22.27	22.86	22.77	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: SP1-2505-441-15-R2

Test Date: 06/12/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-3000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

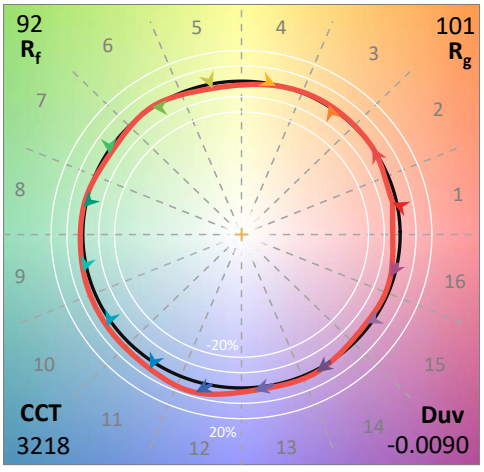
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-15-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-3000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-15-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 7.0V

Spectral Parameters

CCT (K):	3218
CIE u':	0.2471
CIE v':	0.5047
Duv:	-0.0090
CIE x:	0.4113
CIE y:	0.3733
CIE z:	0.2154
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	586
Purity:	35.5
Rf:	92.4
Rg:	100.9

CRI (Ra):	92.1				
R1:	94.2	R9:	87.4		
R2:	92.2	R10:	85.6		
R3:	93.0	R11:	94.6		
R4:	97.8	R12:	78.5		
R5:	93.2	R13:	92.9		
R6:	85.3	R14:	97.6		
R7:	90.0	R15:	96.4		
R8:	91.4				



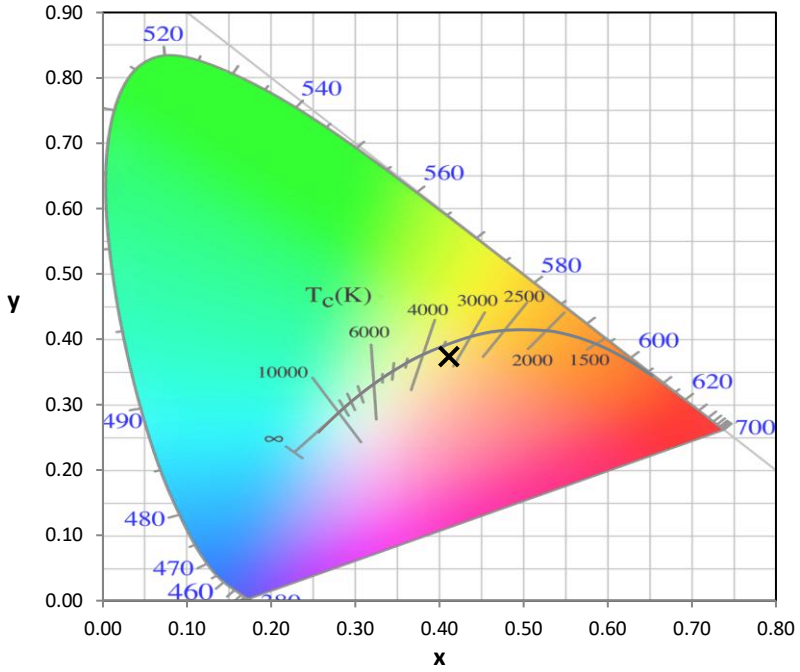
Test Conditions

Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.0

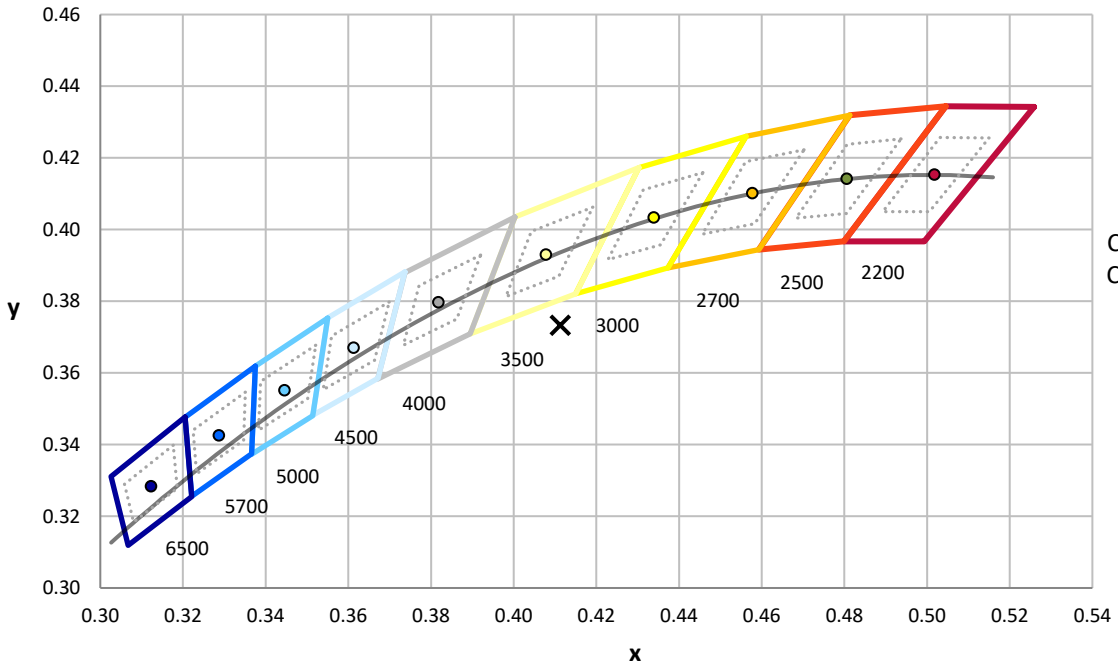
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2505-441-15-R2

CIE 1931 Chromaticity Diagram



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

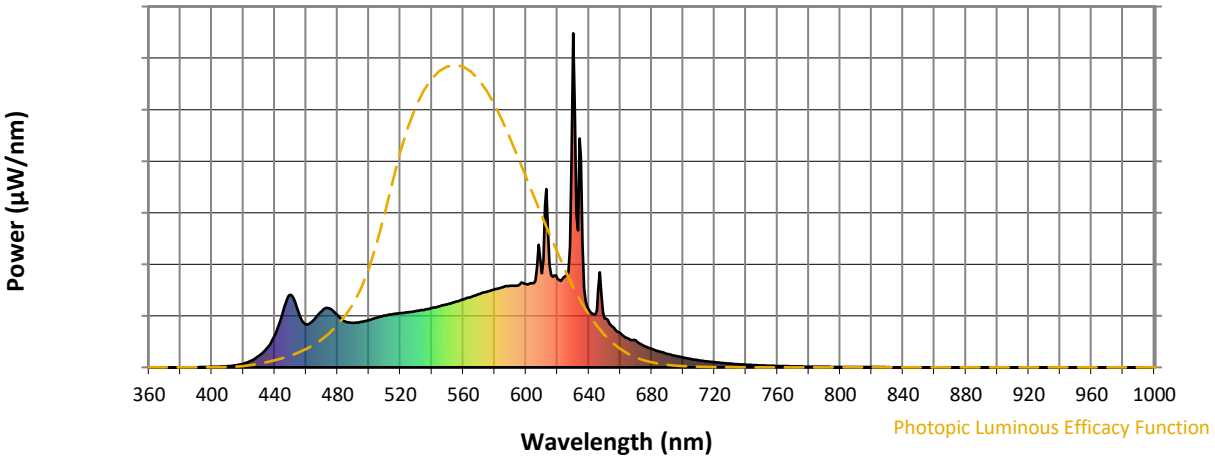


CCT = 3218K
CIE x = 0.4113
CIE y = 0.3733
Duv = -0.0090

Point lies outside the range

REPORT NUMBER: SP1-2505-441-15-R2

Photopic Flux vs. Wavelength

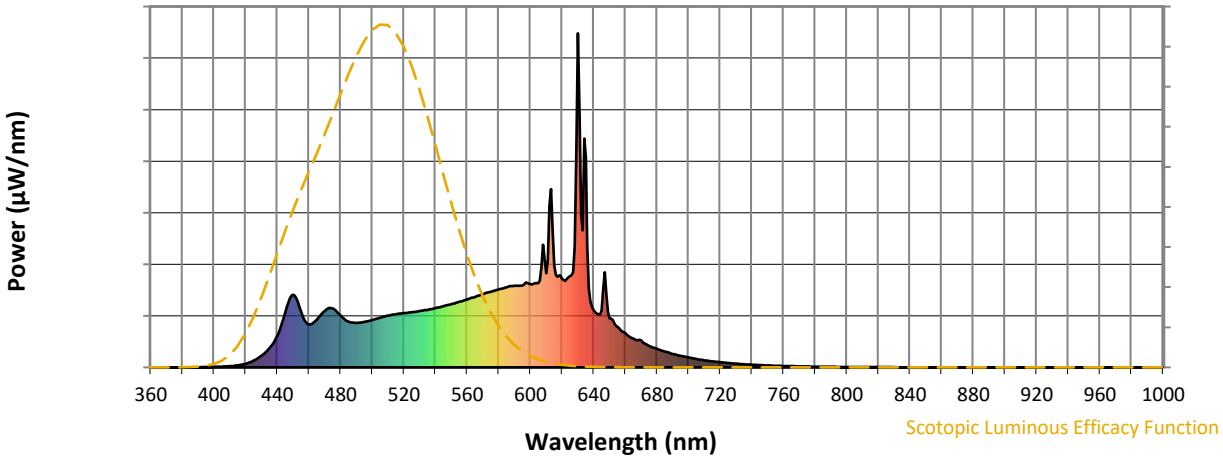


Photopic Lumens: NR

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	133	NR	620	266	NR	750	6	NR	880	0	NR
365	0	NR	495	136	NR	625	273	NR	755	5	NR	885	0	NR
370	0	NR	500	142	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	149	NR	635	627	NR	765	4	NR	895	0	NR
380	0	NR	510	155	NR	640	172	NR	770	3	NR	900	0	NR
385	0	NR	515	159	NR	645	169	NR	775	3	NR	905	0	NR
390	0	NR	520	162	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	165	NR	655	122	NR	785	2	NR	915	0	NR
400	2	NR	530	169	NR	660	103	NR	790	2	NR	920	0	NR
405	2	NR	535	172	NR	665	86	NR	795	1	NR	925	0	NR
410	4	NR	540	177	NR	670	80	NR	800	1	NR	930	0	NR
415	6	NR	545	183	NR	675	65	NR	805	1	NR	935	0	NR
420	11	NR	550	189	NR	680	55	NR	810	1	NR	940	0	NR
425	20	NR	555	196	NR	685	47	NR	815	1	NR	945	0	NR
430	35	NR	560	203	NR	690	40	NR	820	1	NR	950	0	NR
435	57	NR	565	211	NR	695	35	NR	825	1	NR	955	0	NR
440	94	NR	570	219	NR	700	29	NR	830	1	NR	960	0	NR
445	163	NR	575	226	NR	705	25	NR	835	0	NR	965	0	NR
450	218	NR	580	233	NR	710	21	NR	840	0	NR	970	0	NR
455	167	NR	585	240	NR	715	18	NR	845	0	NR	975	0	NR
460	129	NR	590	244	NR	720	15	NR	850	0	NR	980	0	NR
465	143	NR	595	245	NR	725	13	NR	855	0	NR	985	0	NR
470	169	NR	600	249	NR	730	11	NR	860	0	NR	990	0	NR
475	177	NR	605	252	NR	735	9	NR	865	0	NR	995	0	NR
480	156	NR	610	282	NR	740	8	NR	870	0	NR	1000	0	NR
485	137	NR	615	306	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-15-R2

Scotopic Flux vs. Wavelength

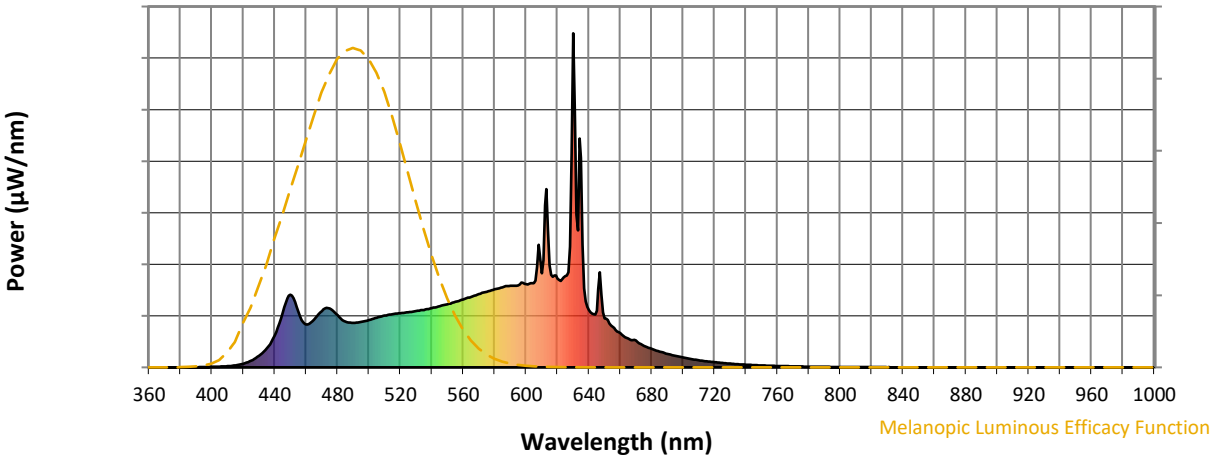


Scotopic Lumens: NR **S/P: 1.68**

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	133	NR	620	266	NR	750	6	NR	880	0	NR
365	0	NR	495	136	NR	625	273	NR	755	5	NR	885	0	NR
370	0	NR	500	142	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	149	NR	635	627	NR	765	4	NR	895	0	NR
380	0	NR	510	155	NR	640	172	NR	770	3	NR	900	0	NR
385	0	NR	515	159	NR	645	169	NR	775	3	NR	905	0	NR
390	0	NR	520	162	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	165	NR	655	122	NR	785	2	NR	915	0	NR
400	2	NR	530	169	NR	660	103	NR	790	2	NR	920	0	NR
405	2	NR	535	172	NR	665	86	NR	795	1	NR	925	0	NR
410	4	NR	540	177	NR	670	80	NR	800	1	NR	930	0	NR
415	6	NR	545	183	NR	675	65	NR	805	1	NR	935	0	NR
420	11	NR	550	189	NR	680	55	NR	810	1	NR	940	0	NR
425	20	NR	555	196	NR	685	47	NR	815	1	NR	945	0	NR
430	35	NR	560	203	NR	690	40	NR	820	1	NR	950	0	NR
435	57	NR	565	211	NR	695	35	NR	825	1	NR	955	0	NR
440	94	NR	570	219	NR	700	29	NR	830	1	NR	960	0	NR
445	163	NR	575	226	NR	705	25	NR	835	0	NR	965	0	NR
450	218	NR	580	233	NR	710	21	NR	840	0	NR	970	0	NR
455	167	NR	585	240	NR	715	18	NR	845	0	NR	975	0	NR
460	129	NR	590	244	NR	720	15	NR	850	0	NR	980	0	NR
465	143	NR	595	245	NR	725	13	NR	855	0	NR	985	0	NR
470	169	NR	600	249	NR	730	11	NR	860	0	NR	990	0	NR
475	177	NR	605	252	NR	735	9	NR	865	0	NR	995	0	NR
480	156	NR	610	282	NR	740	8	NR	870	0	NR	1000	0	NR
485	137	NR	615	306	NR	745	7	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.56**

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	133	NR	620	266	NR	750	6	NR	880	0	NR
365	0	NR	495	136	NR	625	273	NR	755	5	NR	885	0	NR
370	0	NR	500	142	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	149	NR	635	627	NR	765	4	NR	895	0	NR
380	0	NR	510	155	NR	640	172	NR	770	3	NR	900	0	NR
385	0	NR	515	159	NR	645	169	NR	775	3	NR	905	0	NR
390	0	NR	520	162	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	165	NR	655	122	NR	785	2	NR	915	0	NR
400	2	NR	530	169	NR	660	103	NR	790	2	NR	920	0	NR
405	2	NR	535	172	NR	665	86	NR	795	1	NR	925	0	NR
410	4	NR	540	177	NR	670	80	NR	800	1	NR	930	0	NR
415	6	NR	545	183	NR	675	65	NR	805	1	NR	935	0	NR
420	11	NR	550	189	NR	680	55	NR	810	1	NR	940	0	NR
425	20	NR	555	196	NR	685	47	NR	815	1	NR	945	0	NR
430	35	NR	560	203	NR	690	40	NR	820	1	NR	950	0	NR
435	57	NR	565	211	NR	695	35	NR	825	1	NR	955	0	NR
440	94	NR	570	219	NR	700	29	NR	830	1	NR	960	0	NR
445	163	NR	575	226	NR	705	25	NR	835	0	NR	965	0	NR
450	218	NR	580	233	NR	710	21	NR	840	0	NR	970	0	NR
455	167	NR	585	240	NR	715	18	NR	845	0	NR	975	0	NR
460	129	NR	590	244	NR	720	15	NR	850	0	NR	980	0	NR
465	143	NR	595	245	NR	725	13	NR	855	0	NR	985	0	NR
470	169	NR	600	249	NR	730	11	NR	860	0	NR	990	0	NR
475	177	NR	605	252	NR	735	9	NR	865	0	NR	995	0	NR
480	156	NR	610	282	NR	740	8	NR	870	0	NR	1000	0	NR
485	137	NR	615	306	NR	745	7	NR	875	0	NR			

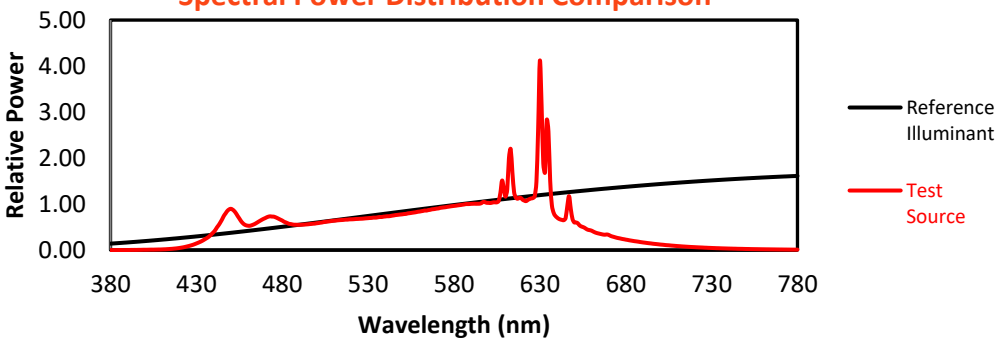
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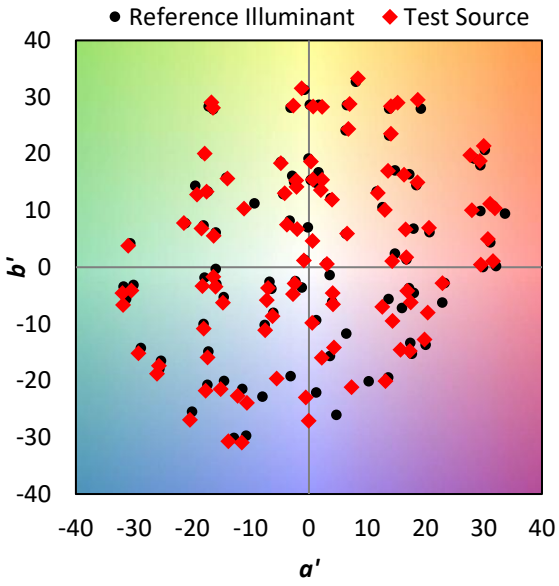
Summary

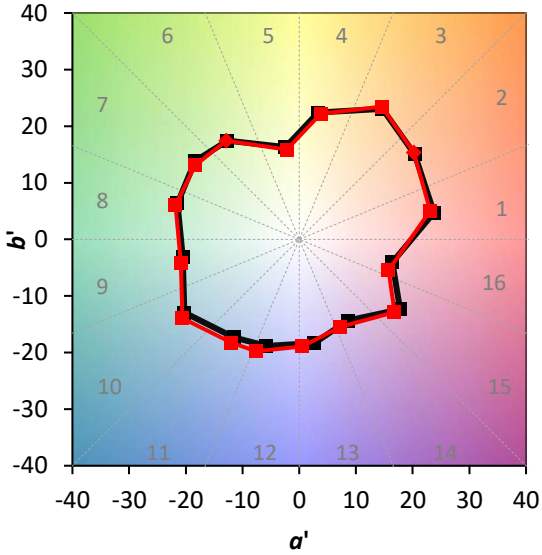
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R_g = 100.9
CIE R_a = 92.1
R_9 = 87.4

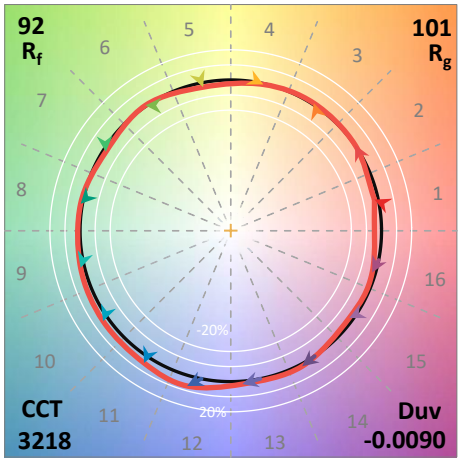
Spectral Power Distribution Comparison

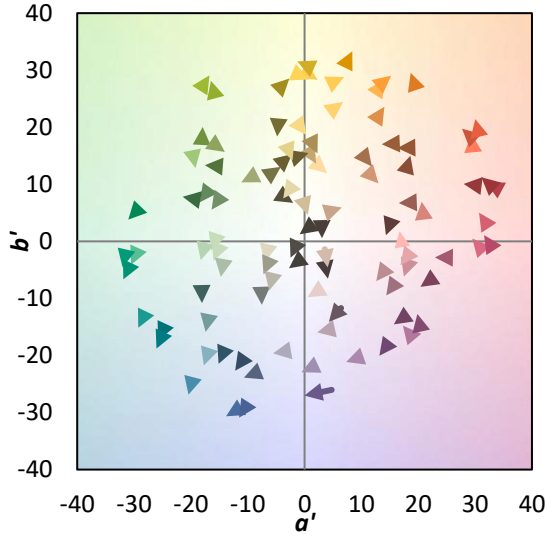


Color Vector Graphics







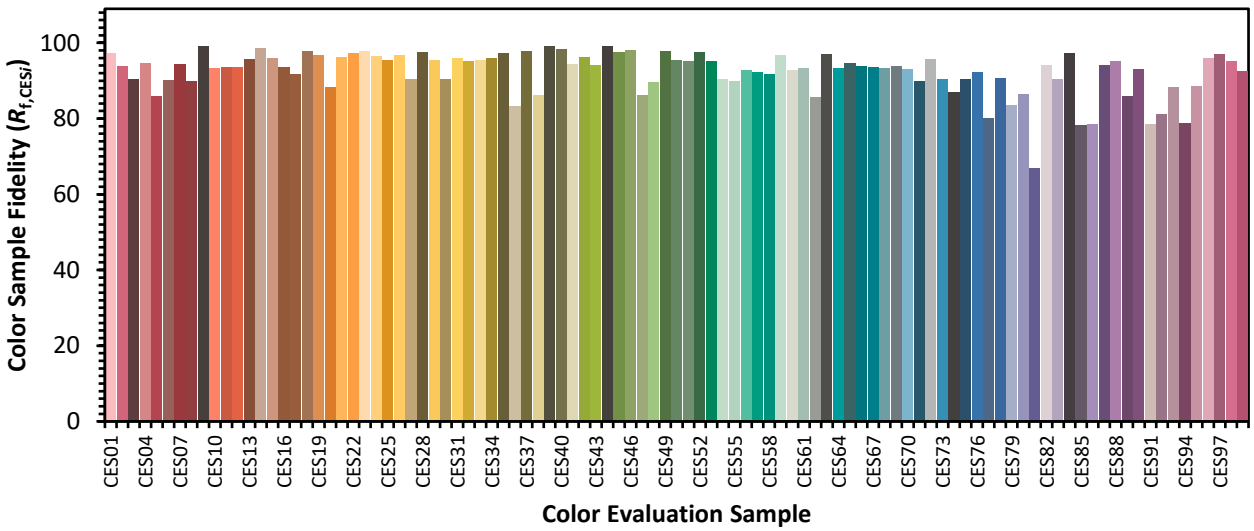


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Individual Sample Fidelity Index ($R_{f,i}$)

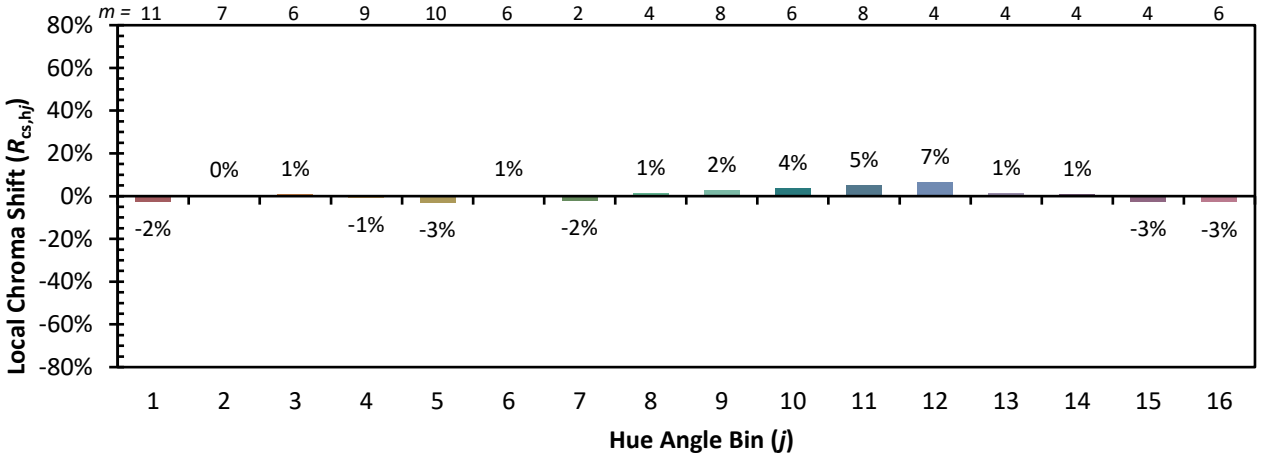
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CES02 = 63	CES27 = 90	CES52 = 97	CES77 = 80
CES03 = 32	CES28 = 97	CES53 = 95	CES78 = 91
CES04 = 70	CES29 = 95	CES54 = 91	CES79 = 83
CES05 = 51	CES30 = 90	CES55 = 90	CES80 = 86
CES06 = 51	CES31 = 96	CES56 = 93	CES81 = 67
CES07 = 44	CES32 = 95	CES57 = 92	CES82 = 94
CES08 = 42	CES33 = 96	CES58 = 92	CES83 = 90
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 97
CES10 = 76	CES35 = 97	CES60 = 93	CES85 = 78
CES11 = 58	CES36 = 83	CES61 = 93	CES86 = 79
CES12 = 65	CES37 = 98	CES62 = 86	CES87 = 94
CES13 = 44	CES38 = 86	CES63 = 97	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 93	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 95	CES90 = 93
CES16 = 48	CES41 = 94	CES66 = 94	CES91 = 79
CES17 = 50	CES42 = 96	CES67 = 94	CES92 = 81
CES18 = 57	CES43 = 94	CES68 = 93	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 94	CES94 = 79
CES20 = 67	CES45 = 97	CES70 = 93	CES95 = 89
CES21 = 86	CES46 = 98	CES71 = 90	CES96 = 96
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 97
CES23 = 91	CES48 = 90	CES73 = 90	CES98 = 95
CES24 = 90	CES49 = 98	CES74 = 87	CES99 = 92
CES25 = 71	CES50 = 95	CES75 = 90	

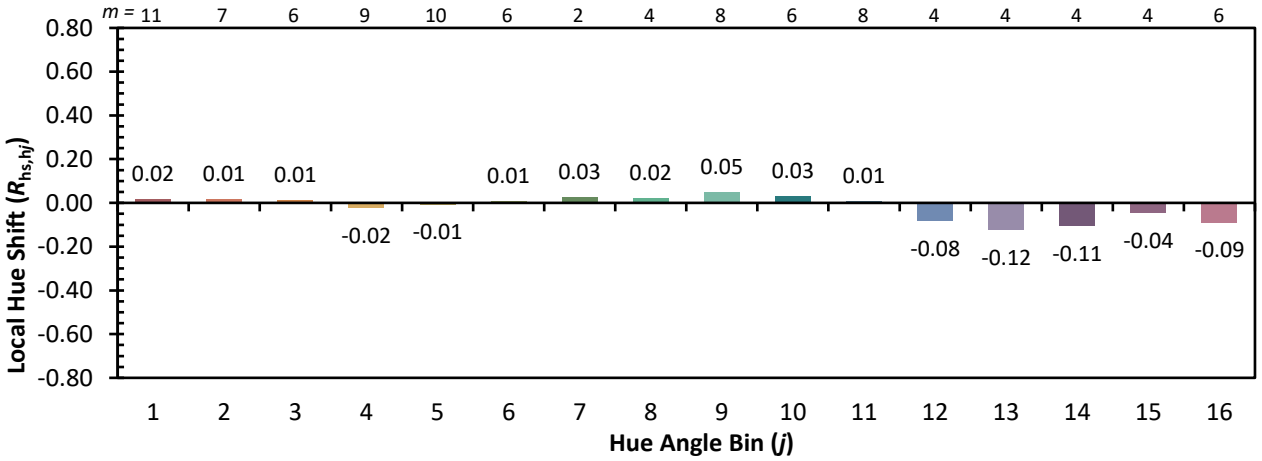


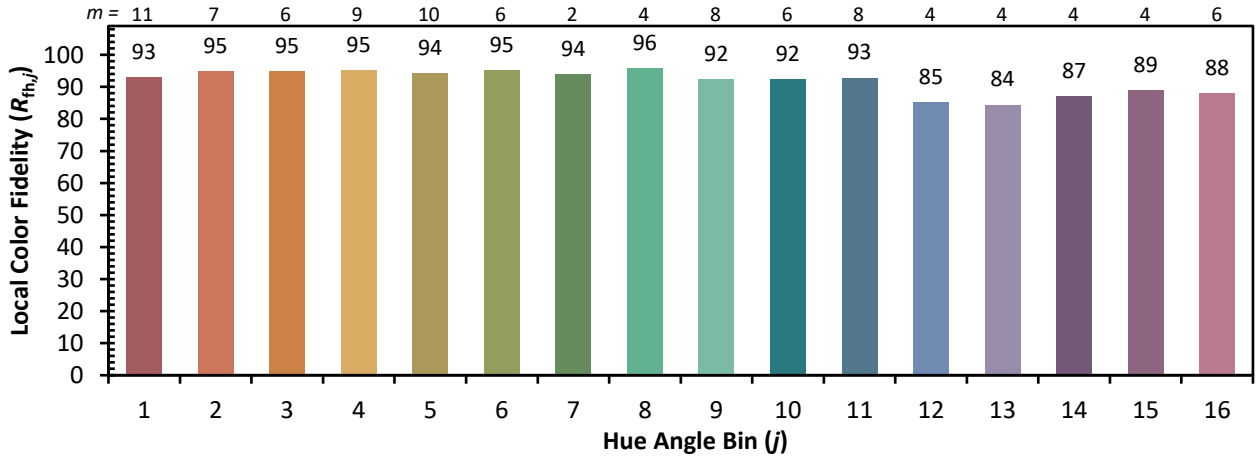
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Color Rendition by Hue-Angle Bin



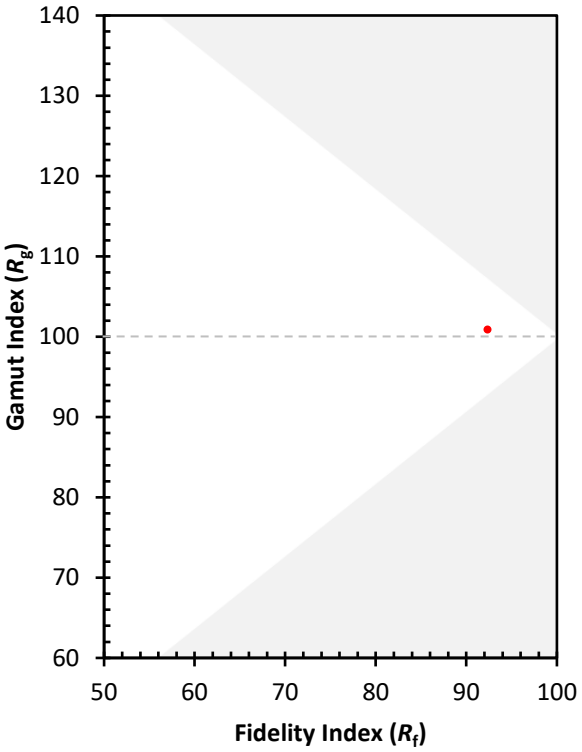


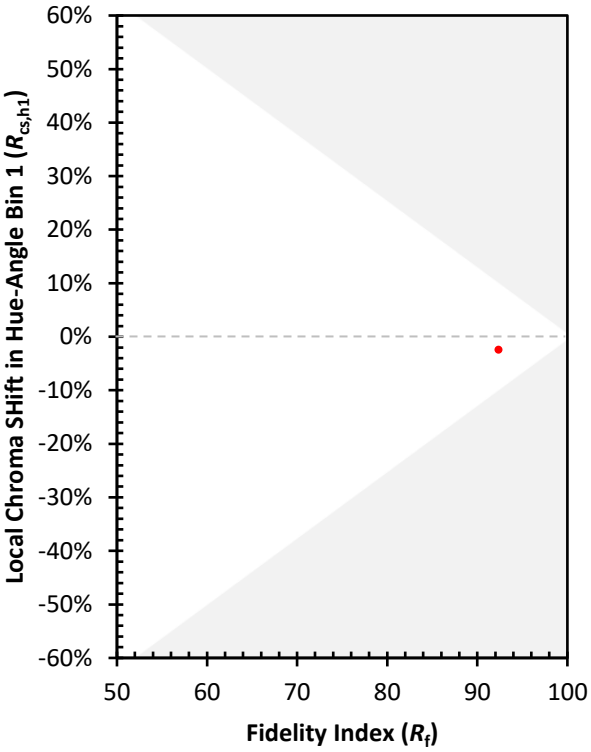


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Measure Comparisons





(END OF REPORT)