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: P1527769

Luminaire Tested: 24CGTX-45-B2750-W2A-2700K

Issue Date: 8/26/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

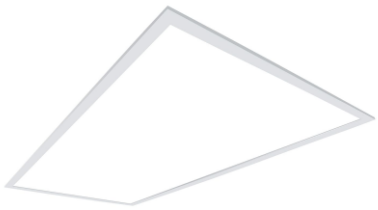
Test Information

Test Method:	LM-79-2019
Report Number:	P1527769
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-45-B2750-W2A-2700K
Description:	2X4 4500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 2700K CCT WITH FROSTED SMOOTH L
Light Source:	2700K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4431.7 lumens
Efficiency:	N/A
Efficacy:	112.8 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 1.81' x L: 3.83' x H: 0')
CIE Type:	Direct

Input Watts (W):	39.3
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

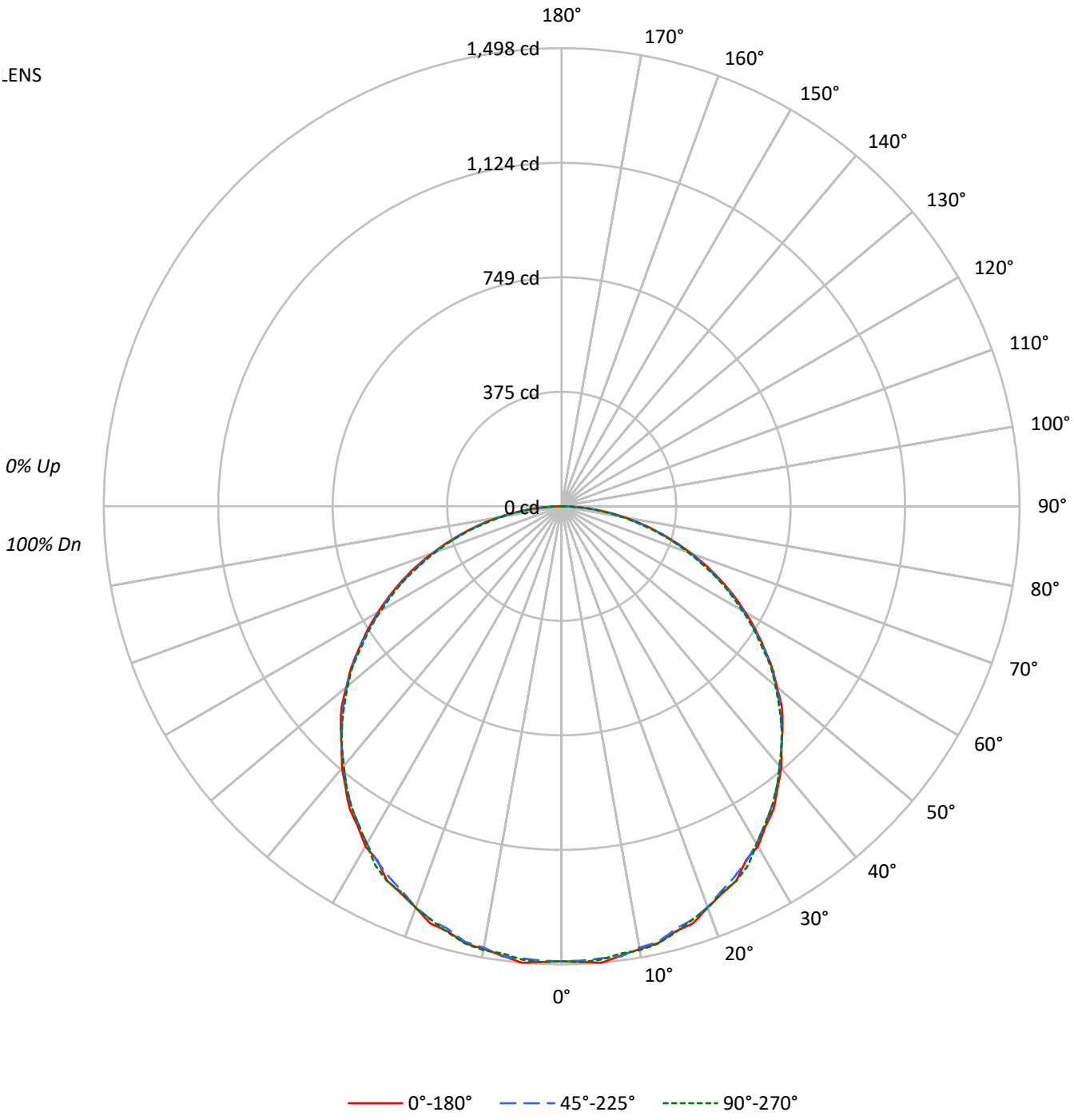


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Scaled Data Report

TEST NUMBER: P1527769
CATALOG NUMBER: 24CGTX-45-B2750-W2A-2700K

Luminous Intensity Polar Plot



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TEST NUMBER: P1527769
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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	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	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	39	51	44	39	50	44	39	37
7	64	50	42	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	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2305	2305	2305
5°	2330	2308	2314
10°	2312	2305	2319
15°	2308	2297	2313
20°	2302	2300	2305
25°	2309	2285	2311
30°	2297	2279	2281
35°	2287	2268	2268
40°	2259	2243	2243
45°	2239	2226	2230
50°	2215	2210	2200
55°	2185	2180	2158
60°	2150	2132	2113
65°	2111	2082	2071
70°	2047	2029	1998
75°	1969	1939	1921
80°	1882	1829	1793
85°	1724	1653	1653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 47.5°
Luminance: 2243 cd/sqm

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Scaled Data Report

TEST NUMBER: P1527769
CATALOG NUMBER: 24CGTX-45-B2750-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.2
10°-20°	406.3	9.2
20°-30°	618.3	14.0
30°-40°	750.3	16.9
40°-50°	785.2	17.7
50°-60°	719.5	16.2
60°-70°	562.6	12.7
70°-80°	342.5	7.7
80°-90°	105.9	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°	1165.7	26.3
0°-40°	1916.0	43.2
0°-60°	3420.7	77.2
0°-90°	4431.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4431.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1498	1484	1484	1482	1488	142
15°	1439	1434	1432	1437	1442	408
25°	1351	1344	1337	1341	1352	619
35°	1209	1197	1199	1195	1199	754
45°	1022	1017	1016	1020	1018	789
55°	809	806	807	799	799	724
65°	576	573	568	565	565	569
75°	329	329	324	320	321	349
85°	97	96	93	91	93	109
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1527769
CATALOG NUMBER: 24CGTX-45-B2750-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1488*	1488	1488	1488	1488
2.5°	*1491*	1495	1487	1485	1492
5°	*1498*	*1484*	*1484*	*1482*	*1488*
7.5°	*1482*	1479	1485	1477	1475
10°	*1470*	1460	1465	1460	1474
12.5°	*1463*	1465	1459	1459	1464
15°	*1439*	1434	1432	1437	1442
17.5°	*1430*	1417	1418	1423	1418
20°	*1396*	1396	1395	1393	1398
22.5°	*1371*	1368	1363	1368	1367
25°	*1351*	1344	1337	1341	1352
27.5°	*1305*	1312	1308	1305	1322
30°	*1284*	1281	1274	1277	1275
32.5°	*1241*	1241	1235	1242	1236
35°	*1209*	1197	1199	1195	1199
37.5°	*1161*	1160	1156	1158	1156
40°	*1117*	1111	1109	1110	1109
42.5°	*1065*	1067	1065	1066	1064
45°	*1022*	1017	1016	1020	1018
47.5°	*978*	969	969	966	964
50°	*919*	920	917	912	913
52.5°	*868*	864	863	859	863
55°	*809*	806	807	799	799
57.5°	*753*	751	746	742	744
60°	*694*	695	688	687	682
62.5°	*636*	633	630	625	624
65°	*576*	573	568	565	565
67.5°	*516*	509	506	503	500
70°	*452*	449	448	444	441
72.5°	*391*	388	382	381	382
75°	*329*	329	324	320	321
77.5°	*270*	268	265	259	256
80°	*211*	208	205	201	201
82.5°	*152*	149	148	145	146
85°	*97*	96	93	91	93
87.5°	*46*	45	45	45	45
90°	*0*	0	0	0	0

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TEST NUMBER: P1527769
CATALOG NUMBER: 24CGTX-45-B2750-W2A-2700K

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	14.92	16.58	15.28	16.89	17.21	14.83	16.50	15.20	16.81	17.13
	3H	16.86	18.36	17.23	18.69	19.05	16.75	18.25	17.12	18.58	18.94
	4H	17.62	19.04	18.02	19.39	19.77	17.50	18.92	17.90	19.27	19.65
	6H	18.23	19.55	18.64	19.91	20.30	18.07	19.39	18.48	19.76	20.15
	8H	18.44	19.70	18.86	20.09	20.49	18.28	19.54	18.70	19.93	20.33
	12H	18.59	19.80	19.02	20.19	20.61	18.42	19.63	18.85	20.01	20.44
4H	2H	15.58	17.00	15.98	17.35	17.72	15.51	16.94	15.91	17.28	17.66
	3H	17.74	18.94	18.15	19.34	19.74	17.65	18.85	18.06	19.25	19.65
	4H	18.65	19.74	19.08	20.15	20.59	18.54	19.63	18.97	20.04	20.47
	6H	19.40	20.35	19.85	20.79	21.25	19.25	20.20	19.70	20.64	21.10
	8H	19.67	20.56	20.13	21.00	21.46	19.51	20.40	19.97	20.84	21.31
	12H	19.87	20.68	20.35	21.15	21.62	19.71	20.51	20.19	20.98	21.45
8H	4H	19.00	19.90	19.46	20.34	20.80	18.91	19.80	19.36	20.24	20.70
	6H	19.89	20.63	20.38	21.12	21.59	19.75	20.50	20.25	20.98	21.46
	8H	20.24	20.91	20.75	21.41	21.90	20.09	20.76	20.60	21.27	21.75
	12H	20.54	21.13	21.04	21.62	22.18	20.38	20.97	20.88	21.46	22.02
12H	4H	19.05	19.85	19.53	20.33	20.79	18.96	19.76	19.43	20.23	20.70
	6H	19.96	20.63	20.47	21.14	21.62	19.83	20.50	20.34	21.01	21.49
	8H	20.38	20.97	20.88	21.46	22.02	20.24	20.83	20.74	21.32	21.88

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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: SP1-2505-441-19-R2

Test Date: 06/13/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-2700K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

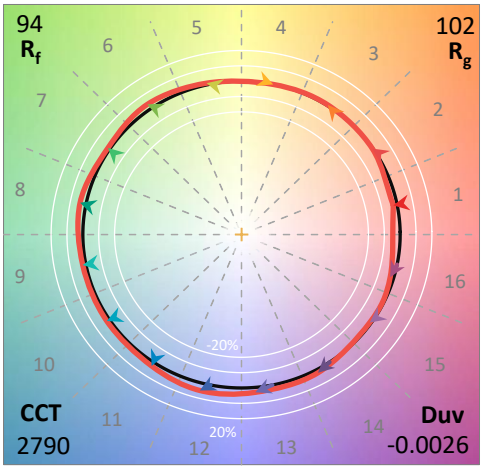
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-19-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-2700K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-19-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 9.0V

Spectral Parameters

CCT (K):	2790
CIE u':	0.2594
CIE v':	0.5218
Duv:	-0.0026
CIE x:	0.4483
CIE y:	0.4008
CIE z:	0.1509
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	584
Purity:	54.87344
Rf:	93.8
Rg:	102.2

CRI (Ra):	95.1				
R1:	96.3	R9:	82.2		
R2:	97.2	R10:	95.9		
R3:	99.0	R11:	90.1		
R4:	95.3	R12:	90.6		
R5:	95.9	R13:	96.2		
R6:	91.0	R14:	97.9		
R7:	93.9	R15:	99.0		
R8:	92.1				



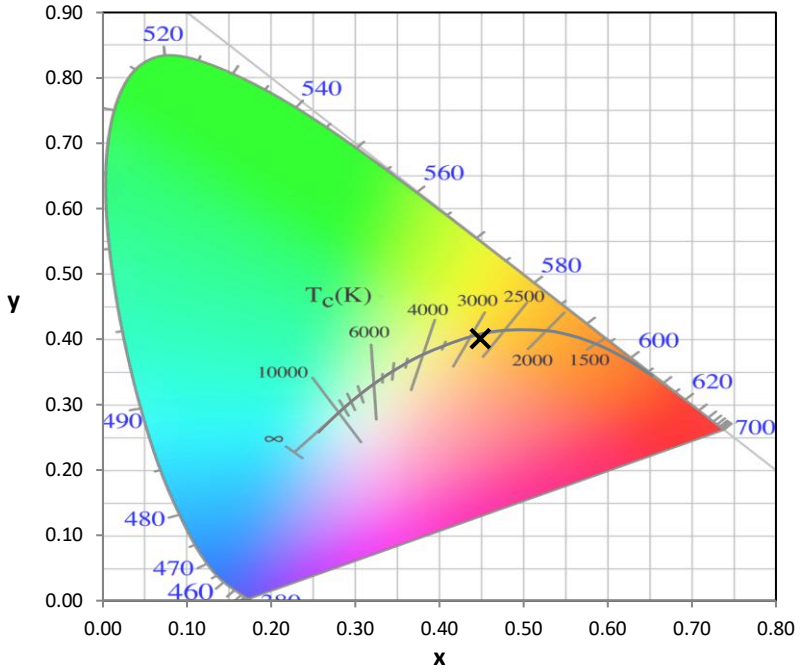
Test Conditions

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

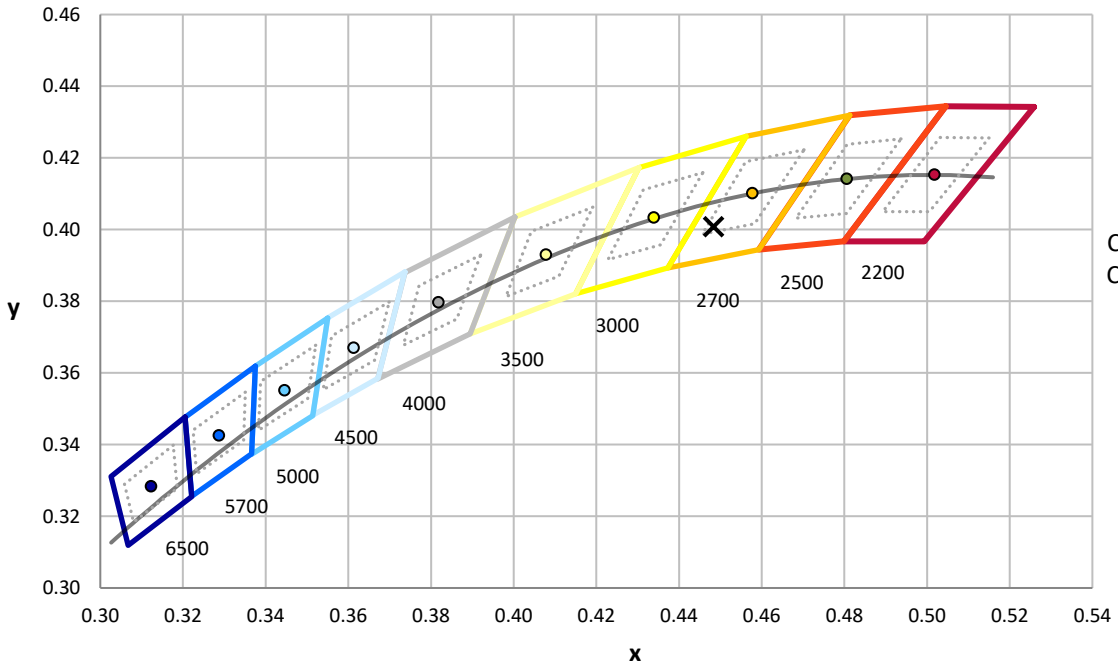
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



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

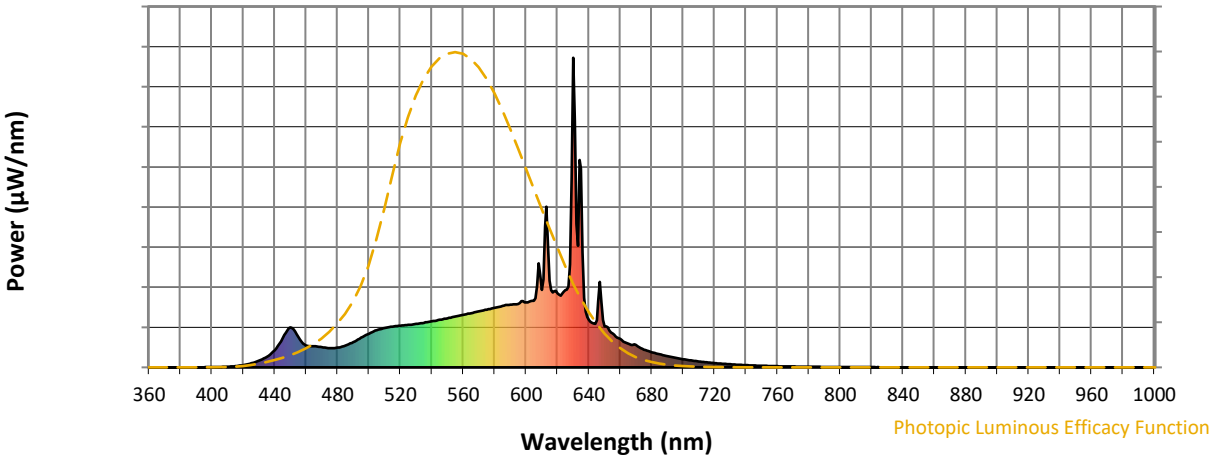


CCT = 2790K
CIE x = 0.4483
CIE y = 0.4008
Duv = -0.0026

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2505-441-19-R2

Photopic Flux vs. Wavelength

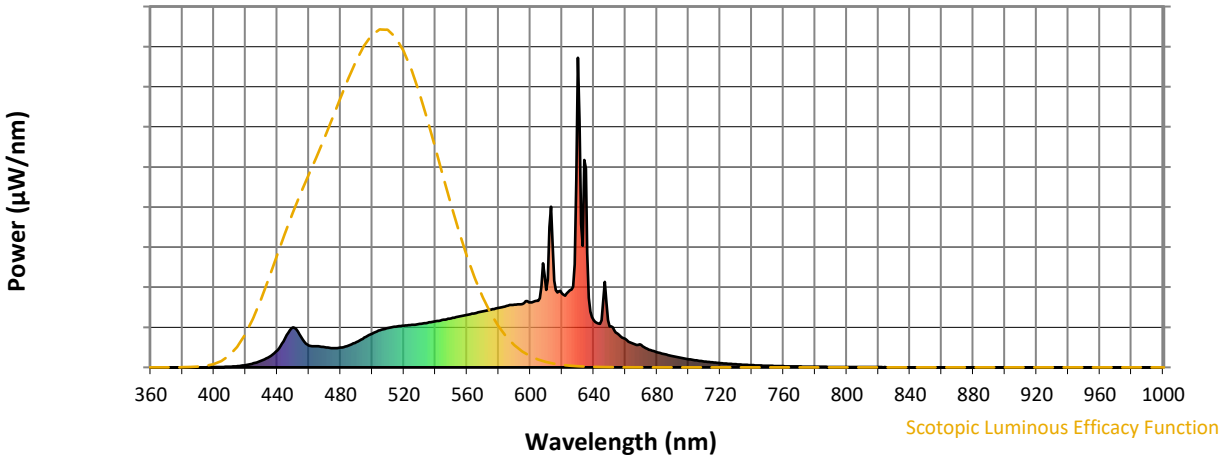


Photopic Lumens: NR

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	81	NR	620	239	NR	750	5	NR	880	0	NR
365	0	NR	495	96	NR	625	249	NR	755	4	NR	885	0	NR
370	0	NR	500	109	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	120	NR	635	641	NR	765	3	NR	895	0	NR
380	0	NR	510	127	NR	640	153	NR	770	3	NR	900	0	NR
385	0	NR	515	131	NR	645	152	NR	775	2	NR	905	0	NR
390	0	NR	520	135	NR	650	132	NR	780	2	NR	910	0	NR
395	0	NR	525	137	NR	655	109	NR	785	2	NR	915	0	NR
400	1	NR	530	140	NR	660	92	NR	790	1	NR	920	0	NR
405	1	NR	535	144	NR	665	76	NR	795	1	NR	925	0	NR
410	2	NR	540	149	NR	670	72	NR	800	1	NR	930	0	NR
415	4	NR	545	154	NR	675	57	NR	805	1	NR	935	0	NR
420	7	NR	550	158	NR	680	49	NR	810	1	NR	940	0	NR
425	13	NR	555	164	NR	685	42	NR	815	1	NR	945	0	NR
430	22	NR	560	170	NR	690	36	NR	820	1	NR	950	0	NR
435	34	NR	565	175	NR	695	31	NR	825	1	NR	955	0	NR
440	55	NR	570	181	NR	700	26	NR	830	0	NR	960	0	NR
445	94	NR	575	186	NR	705	22	NR	835	0	NR	965	0	NR
450	129	NR	580	192	NR	710	19	NR	840	0	NR	970	0	NR
455	99	NR	585	198	NR	715	16	NR	845	0	NR	975	0	NR
460	71	NR	590	203	NR	720	14	NR	850	0	NR	980	0	NR
465	68	NR	595	204	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	210	NR	730	10	NR	860	0	NR	990	0	NR
475	62	NR	605	216	NR	735	8	NR	865	0	NR	995	0	NR
480	64	NR	610	250	NR	740	7	NR	870	0	NR	1000	0	NR
485	71	NR	615	281	NR	745	6	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-19-R2

Scotopic Flux vs. Wavelength

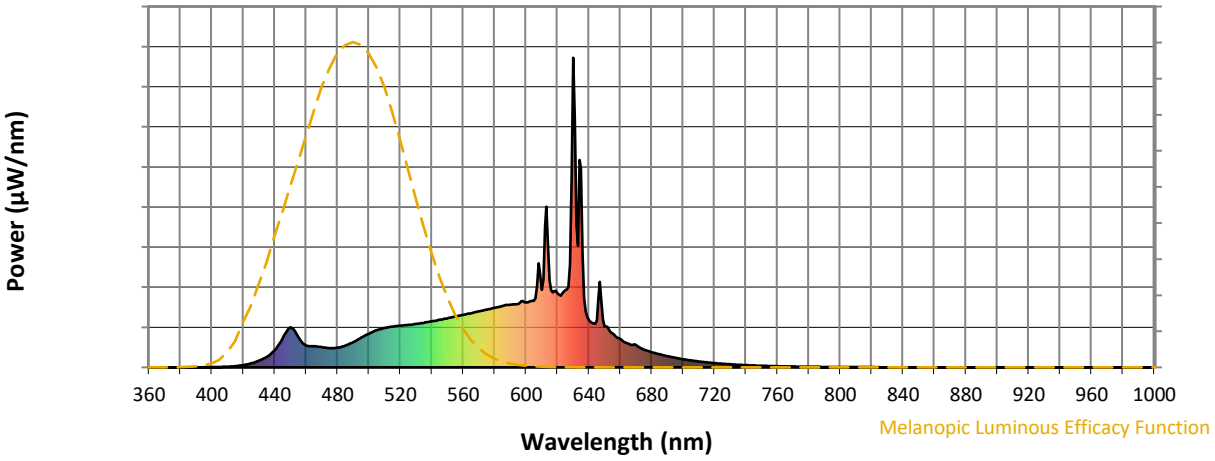


Scotopic Lumens: NR **S/P: 1.41**

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	81	NR	620	239	NR	750	5	NR	880	0	NR
365	0	NR	495	96	NR	625	249	NR	755	4	NR	885	0	NR
370	0	NR	500	109	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	120	NR	635	641	NR	765	3	NR	895	0	NR
380	0	NR	510	127	NR	640	153	NR	770	3	NR	900	0	NR
385	0	NR	515	131	NR	645	152	NR	775	2	NR	905	0	NR
390	0	NR	520	135	NR	650	132	NR	780	2	NR	910	0	NR
395	0	NR	525	137	NR	655	109	NR	785	2	NR	915	0	NR
400	1	NR	530	140	NR	660	92	NR	790	1	NR	920	0	NR
405	1	NR	535	144	NR	665	76	NR	795	1	NR	925	0	NR
410	2	NR	540	149	NR	670	72	NR	800	1	NR	930	0	NR
415	4	NR	545	154	NR	675	57	NR	805	1	NR	935	0	NR
420	7	NR	550	158	NR	680	49	NR	810	1	NR	940	0	NR
425	13	NR	555	164	NR	685	42	NR	815	1	NR	945	0	NR
430	22	NR	560	170	NR	690	36	NR	820	1	NR	950	0	NR
435	34	NR	565	175	NR	695	31	NR	825	1	NR	955	0	NR
440	55	NR	570	181	NR	700	26	NR	830	0	NR	960	0	NR
445	94	NR	575	186	NR	705	22	NR	835	0	NR	965	0	NR
450	129	NR	580	192	NR	710	19	NR	840	0	NR	970	0	NR
455	99	NR	585	198	NR	715	16	NR	845	0	NR	975	0	NR
460	71	NR	590	203	NR	720	14	NR	850	0	NR	980	0	NR
465	68	NR	595	204	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	210	NR	730	10	NR	860	0	NR	990	0	NR
475	62	NR	605	216	NR	735	8	NR	865	0	NR	995	0	NR
480	64	NR	610	250	NR	740	7	NR	870	0	NR	1000	0	NR
485	71	NR	615	281	NR	745	6	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.77**

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	81	NR	620	239	NR	750	5	NR	880	0	NR
365	0	NR	495	96	NR	625	249	NR	755	4	NR	885	0	NR
370	0	NR	500	109	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	120	NR	635	641	NR	765	3	NR	895	0	NR
380	0	NR	510	127	NR	640	153	NR	770	3	NR	900	0	NR
385	0	NR	515	131	NR	645	152	NR	775	2	NR	905	0	NR
390	0	NR	520	135	NR	650	132	NR	780	2	NR	910	0	NR
395	0	NR	525	137	NR	655	109	NR	785	2	NR	915	0	NR
400	1	NR	530	140	NR	660	92	NR	790	1	NR	920	0	NR
405	1	NR	535	144	NR	665	76	NR	795	1	NR	925	0	NR
410	2	NR	540	149	NR	670	72	NR	800	1	NR	930	0	NR
415	4	NR	545	154	NR	675	57	NR	805	1	NR	935	0	NR
420	7	NR	550	158	NR	680	49	NR	810	1	NR	940	0	NR
425	13	NR	555	164	NR	685	42	NR	815	1	NR	945	0	NR
430	22	NR	560	170	NR	690	36	NR	820	1	NR	950	0	NR
435	34	NR	565	175	NR	695	31	NR	825	1	NR	955	0	NR
440	55	NR	570	181	NR	700	26	NR	830	0	NR	960	0	NR
445	94	NR	575	186	NR	705	22	NR	835	0	NR	965	0	NR
450	129	NR	580	192	NR	710	19	NR	840	0	NR	970	0	NR
455	99	NR	585	198	NR	715	16	NR	845	0	NR	975	0	NR
460	71	NR	590	203	NR	720	14	NR	850	0	NR	980	0	NR
465	68	NR	595	204	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	210	NR	730	10	NR	860	0	NR	990	0	NR
475	62	NR	605	216	NR	735	8	NR	865	0	NR	995	0	NR
480	64	NR	610	250	NR	740	7	NR	870	0	NR	1000	0	NR
485	71	NR	615	281	NR	745	6	NR	875	0	NR			

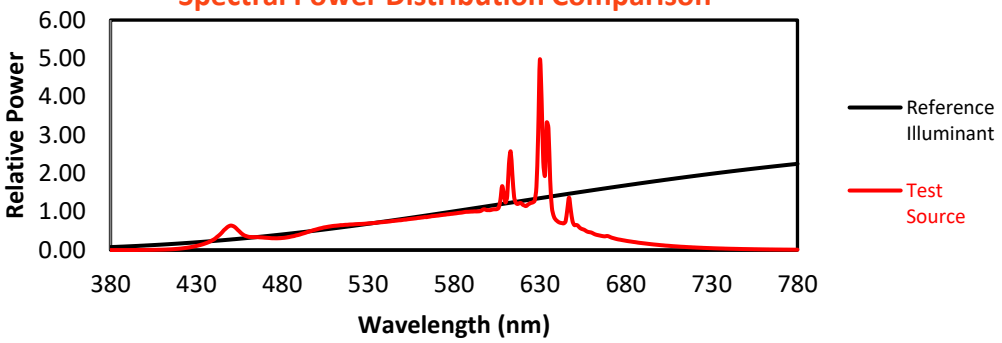
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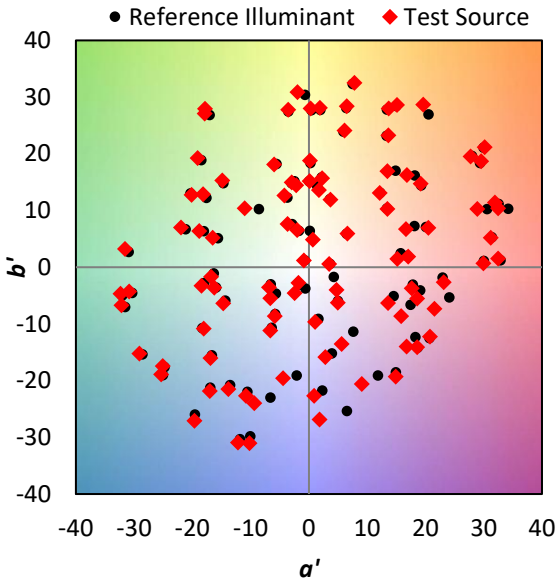
Summary

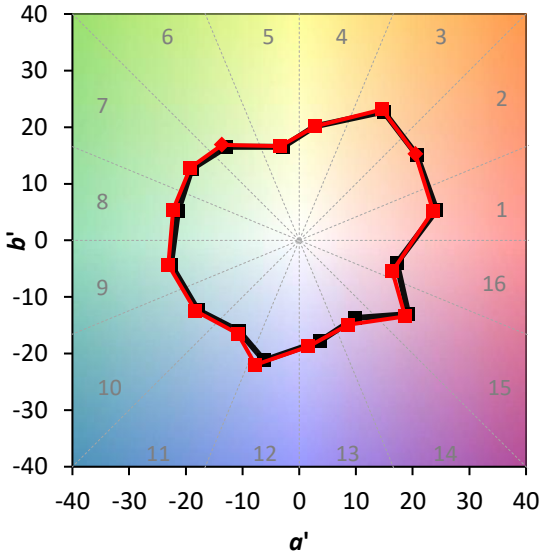
R_f = 93.8
R_g = 102.2
CIE R_a = 95.1
R_9 = 82.2

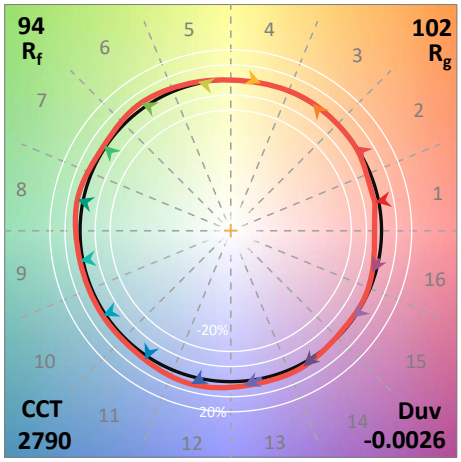
Spectral Power Distribution Comparison

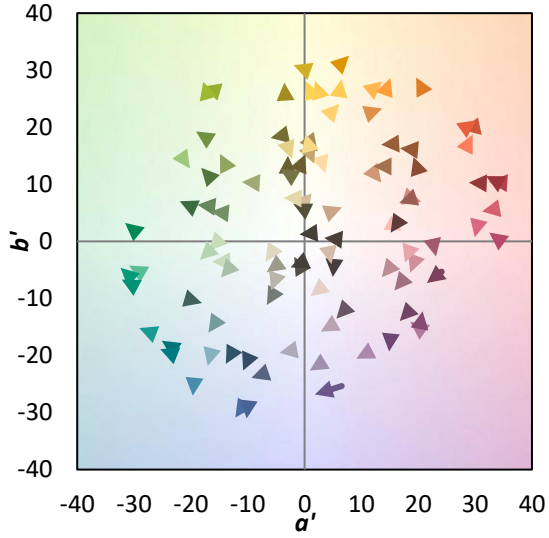


Color Vector Graphics







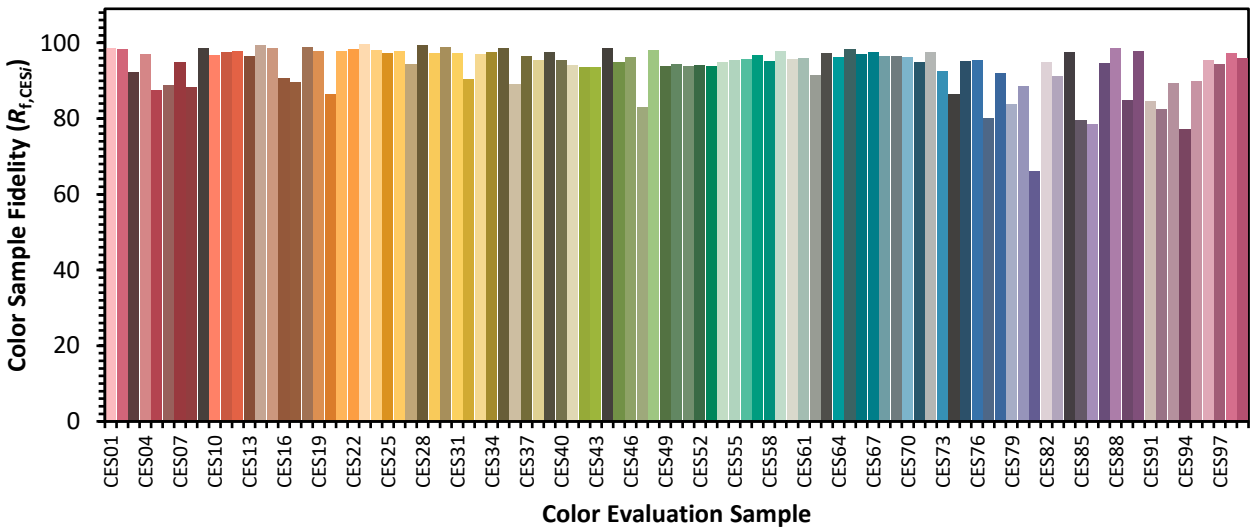


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Individual Sample Fidelity Index ($R_{f,i}$)

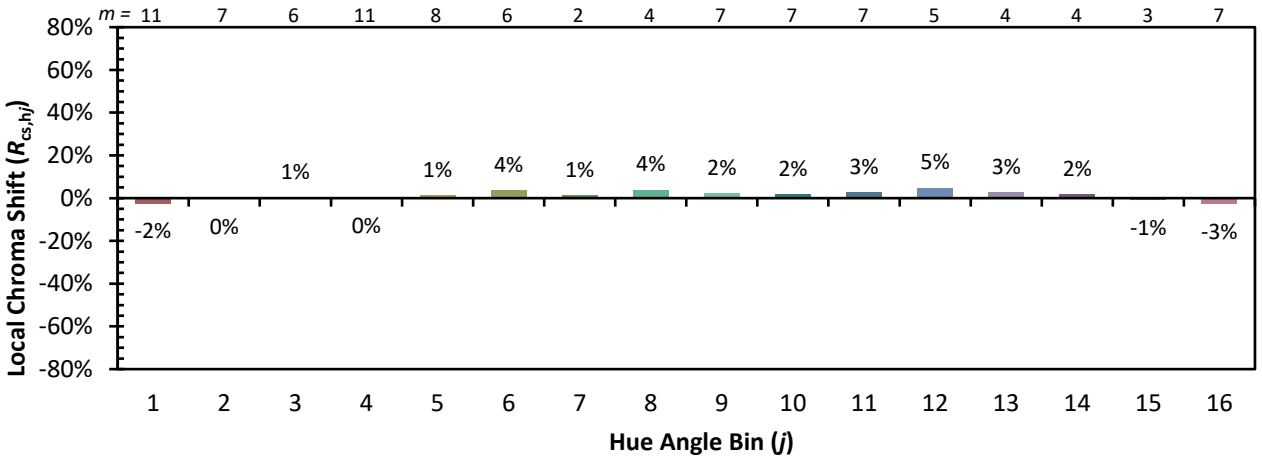
CES01 = 86	CES26 = 98	CES51 = 94	CES76 = 95
CES02 = 64	CES27 = 94	CES52 = 94	CES77 = 80
CES03 = 32	CES28 = 99	CES53 = 94	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 95	CES79 = 84
CES05 = 51	CES30 = 99	CES55 = 95	CES80 = 89
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 66
CES07 = 45	CES32 = 90	CES57 = 97	CES82 = 95
CES08 = 43	CES33 = 97	CES58 = 95	CES83 = 91
CES09 = 29	CES34 = 97	CES59 = 98	CES84 = 98
CES10 = 77	CES35 = 99	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 96	CES86 = 79
CES12 = 66	CES37 = 96	CES62 = 91	CES87 = 95
CES13 = 45	CES38 = 95	CES63 = 97	CES88 = 99
CES14 = 74	CES39 = 98	CES64 = 96	CES89 = 85
CES15 = 72	CES40 = 95	CES65 = 98	CES90 = 98
CES16 = 48	CES41 = 94	CES66 = 97	CES91 = 85
CES17 = 50	CES42 = 94	CES67 = 97	CES92 = 83
CES18 = 57	CES43 = 94	CES68 = 96	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 96	CES94 = 77
CES20 = 68	CES45 = 95	CES70 = 96	CES95 = 90
CES21 = 86	CES46 = 96	CES71 = 95	CES96 = 96
CES22 = 79	CES47 = 83	CES72 = 98	CES97 = 94
CES23 = 92	CES48 = 98	CES73 = 93	CES98 = 97
CES24 = 90	CES49 = 94	CES74 = 86	CES99 = 96
CES25 = 72	CES50 = 94	CES75 = 95	

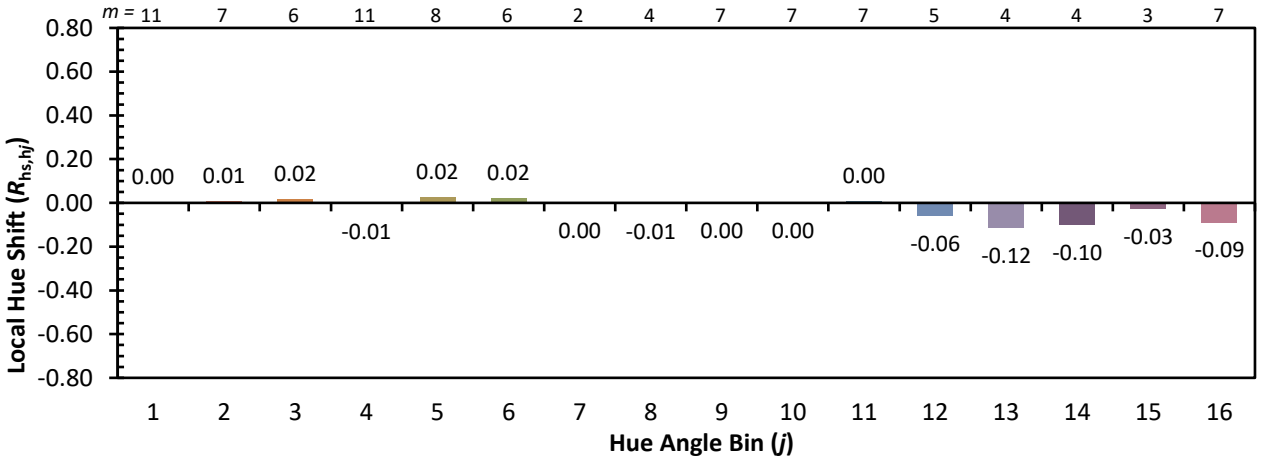


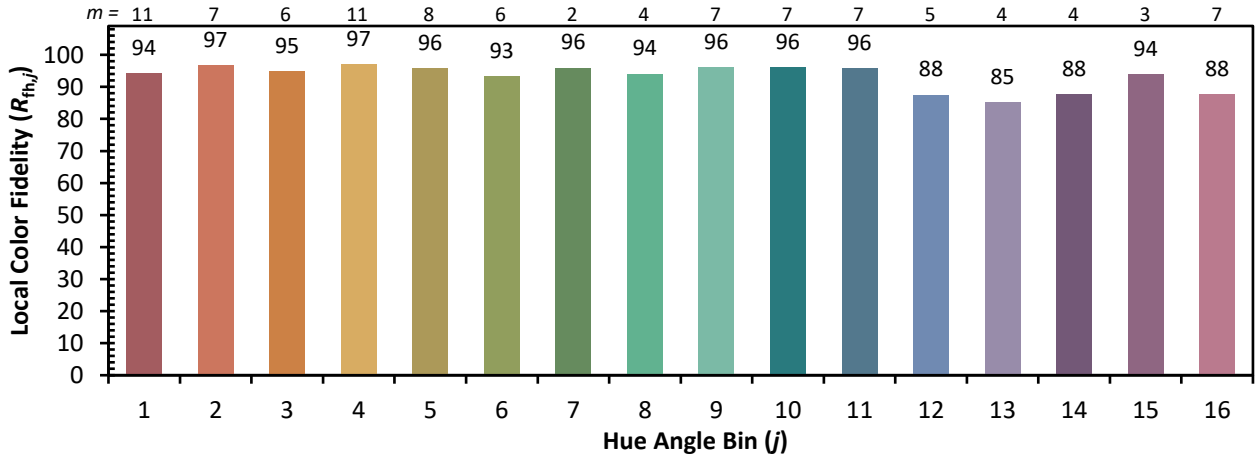
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Color Rendition by Hue-Angle Bin



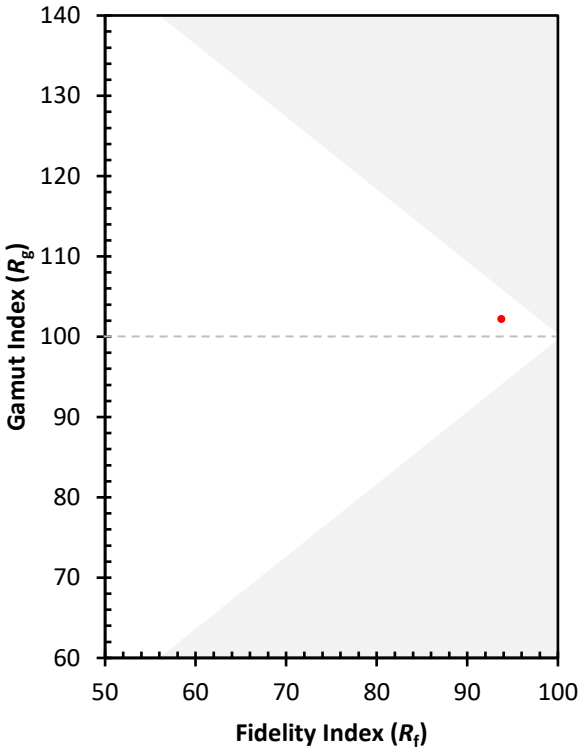


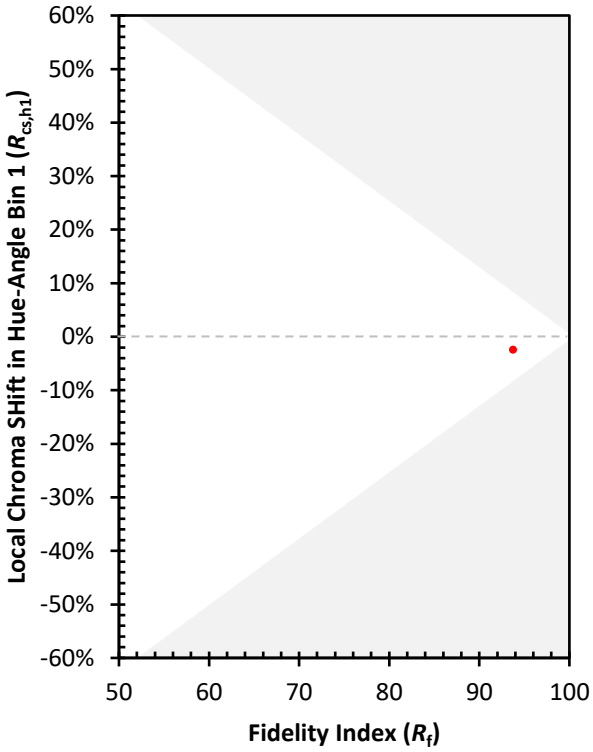


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Measure Comparisons





(END OF REPORT)