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: P1559292

Luminaire Tested: 24CGTX-40-B2750-W2D-2700K

Issue Date: 9/2/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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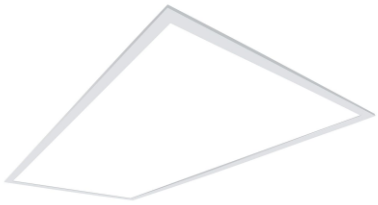
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1559292
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/2/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-40-B2750-W2D-2700K
Description:	2X4 4000 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:	4148.3 lumens
Efficiency:	N/A
Efficacy:	113.7 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):	36.5
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

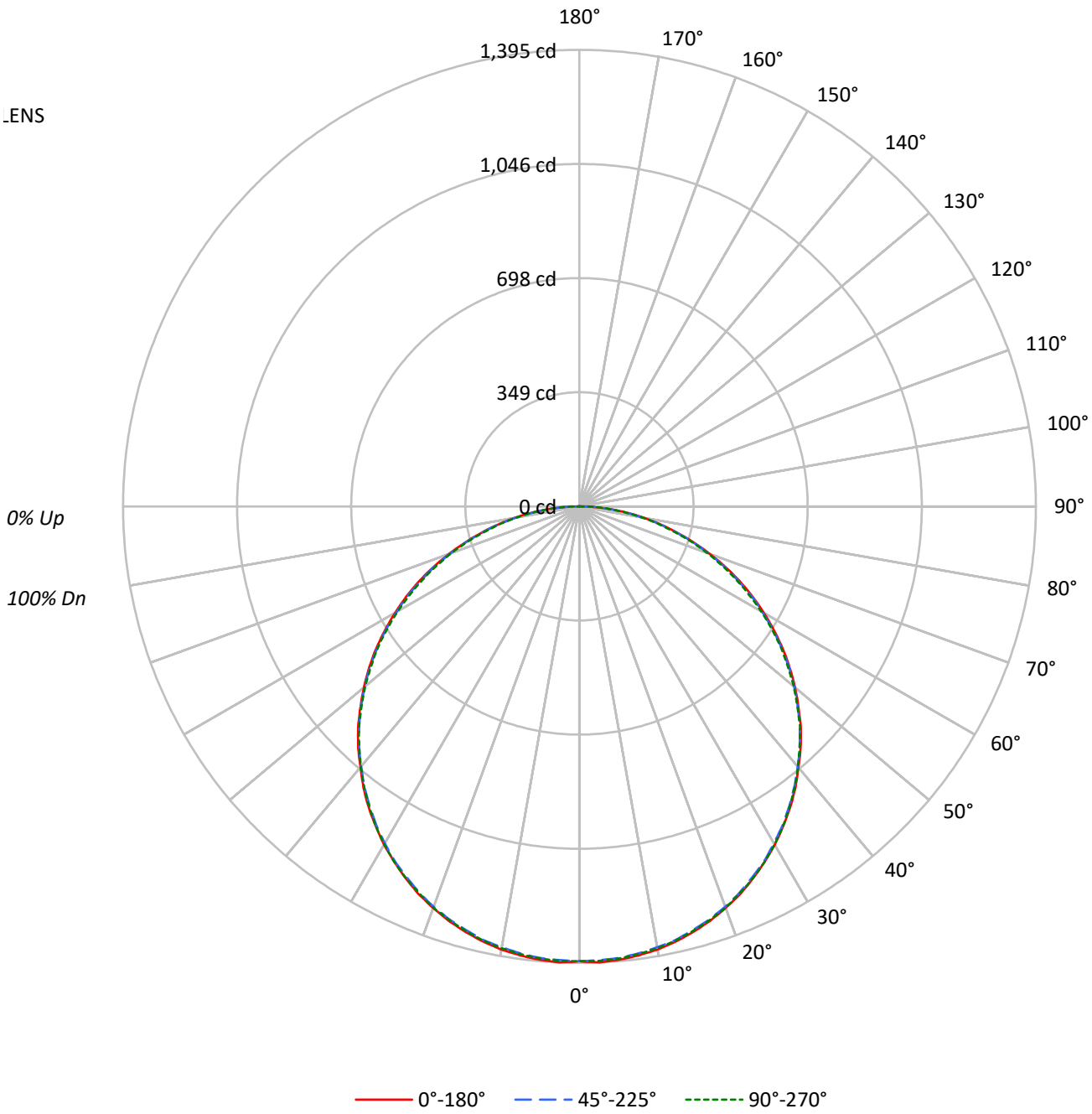


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Scaled Data Report

TEST NUMBER: P1559292
CATALOG NUMBER: 24CGTX-40-B2750-W2D-2700K

Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1559292
CATALOG NUMBER: 24CGTX-40-B2750-W2D-2700K

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	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	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	46	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	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2153	2153	2153
5°	2163	2154	2157
10°	2163	2152	2157
15°	2159	2149	2154
20°	2153	2147	2151
25°	2145	2137	2144
30°	2136	2127	2134
35°	2124	2114	2118
40°	2105	2099	2101
45°	2097	2086	2088
50°	2073	2066	2058
55°	2050	2037	2031
60°	2017	1999	1986
65°	1980	1954	1936
70°	1916	1898	1875
75°	1844	1832	1790
80°	1766	1740	1713
85°	1600	1582	1582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2097 cd/sqm

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Scaled Data Report

TEST NUMBER: P1559292
CATALOG NUMBER: 24CGTX-40-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.2
10°-20°	378.9	9.1
20°-30°	577.1	13.9
30°-40°	700.4	16.9
40°-50°	734.4	17.7
50°-60°	673.8	16.2
60°-70°	527.8	12.7
70°-80°	322.5	7.8
80°-90°	101.6	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°	1087.8	26.2
0°-40°	1788.2	43.1
0°-60°	3196.4	77.1
0°-90°	4148.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4148.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1391	1387	1385	1383	1387	132
15°	1346	1342	1340	1340	1343	380
25°	1255	1252	1250	1251	1254	579
35°	1123	1121	1118	1118	1120	702
45°	957	954	952	950	953	737
55°	759	757	754	752	752	678
65°	540	537	533	529	528	533
75°	308	307	306	300	299	327
85°	90	91	89	89	89	102
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1559292
CATALOG NUMBER: 24CGTX-40-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1390*	1390	1390	1390	1390
2.5°	*1395*	*1391*	*1388*	*1387*	*1390*
5°	*1391*	1387	1385	1383	1387
7.5°	*1384*	1380	1378	1377	1380
10°	*1375*	1370	1368	1368	1371
12.5°	*1362*	1359	1357	1357	1359
15°	*1346*	1342	1340	1340	1343
17.5°	*1328*	1325	1323	1322	1325
20°	*1306*	1303	1302	1301	1305
22.5°	*1283*	1279	1278	1277	1280
25°	*1255*	1252	1250	1251	1254
27.5°	*1225*	1223	1222	1221	1225
30°	*1194*	1191	1189	1190	1193
32.5°	*1159*	1157	1155	1155	1158
35°	*1123*	1121	1118	1118	1120
37.5°	*1084*	1082	1079	1079	1081
40°	*1041*	1041	1038	1039	1039
42.5°	*1001*	999	997	995	996
45°	*957*	954	952	950	953
47.5°	*908*	906	905	903	903
50°	*860*	858	857	854	854
52.5°	*810*	808	807	803	802
55°	*759*	757	754	752	752
57.5°	*705*	703	701	698	696
60°	*651*	650	645	642	641
62.5°	*596*	594	592	587	584
65°	*540*	537	533	529	528
67.5°	*482*	481	477	471	471
70°	*423*	423	419	415	414
72.5°	*366*	366	362	359	357
75°	*308*	307	306	300	299
77.5°	*254*	252	250	246	246
80°	*198*	196	195	193	192
82.5°	*145*	141	142	139	138
85°	*90*	91	89	89	89
87.5°	*42*	42	46	49	49
90°	*0*	0	0	0	0

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TEST NUMBER: P1559292
CATALOG NUMBER: 24CGTX-40-B2750-W2D-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	14.69	16.35	15.05	16.67	16.98	14.63	16.29	14.99	16.61	16.92
	3H	16.63	18.14	17.01	18.47	18.83	16.54	18.05	16.91	18.37	18.73
	4H	17.40	18.82	17.80	19.17	19.55	17.28	18.71	17.68	19.06	19.43
	6H	18.01	19.33	18.42	19.70	20.09	17.88	19.20	18.29	19.57	19.96
	8H	18.23	19.49	18.65	19.88	20.28	18.09	19.35	18.51	19.74	20.14
	12H	18.38	19.59	18.81	19.97	20.40	18.24	19.45	18.67	19.83	20.26
4H	2H	15.35	16.77	15.75	17.12	17.50	15.30	16.73	15.70	17.08	17.45
	3H	17.53	18.73	17.94	19.12	19.52	17.44	18.64	17.85	19.04	19.44
	4H	18.43	19.52	18.86	19.93	20.37	18.33	19.41	18.76	19.83	20.26
	6H	19.18	20.14	19.64	20.58	21.03	19.06	20.02	19.51	20.46	20.91
	8H	19.46	20.35	19.91	20.79	21.26	19.33	20.22	19.78	20.66	21.13
	12H	19.66	20.47	20.14	20.94	21.41	19.53	20.34	20.01	20.81	21.28
8H	4H	18.79	19.68	19.25	20.12	20.59	18.69	19.59	19.15	20.03	20.49
	6H	19.68	20.43	20.17	20.91	21.39	19.57	20.32	20.06	20.81	21.28
	8H	20.04	20.71	20.54	21.21	21.70	19.92	20.59	20.43	21.10	21.58
	12H	20.34	20.93	20.84	21.42	21.98	20.22	20.81	20.72	21.30	21.86
12H	4H	18.83	19.64	19.31	20.11	20.58	18.75	19.55	19.23	20.03	20.49
	6H	19.76	20.43	20.26	20.93	21.42	19.65	20.33	20.16	20.83	21.32
	8H	20.18	20.77	20.69	21.26	21.82	20.07	20.66	20.58	21.15	21.71

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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: SP1-2505-441-28-R2

Test Date: 07/10/2025

Luminaire Tested: 24CGTX-45-B2750-W2D-2700K

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

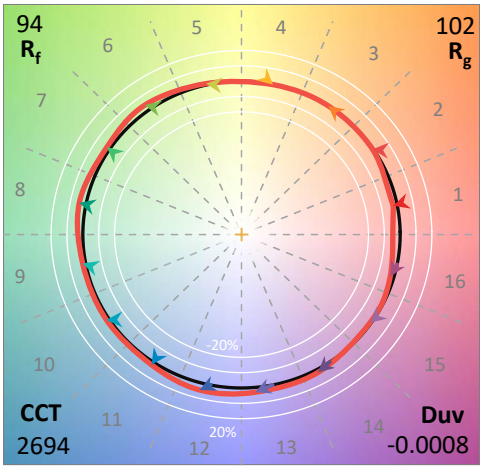
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-28-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-45-B2750-W2D-2700K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-28-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 4500 LUMEN CGTX. Using WaveLinx PRO F1 sensor.

Spectral Parameters

CCT (K):	2694	CRI (Ra):	95.4		
CIE u':	0.2630	R1:	96.8	R9:	80.8
CIE v':	0.5264	R2:	98.3	R10:	98.3
Duv:	-0.0008	R3:	97.9	R11:	89.1
CIE x:	0.4590	R4:	94.6	R12:	93.4
CIE y:	0.4084	R5:	96.4	R13:	96.9
CIE z:	0.1326	R6:	92.3	R14:	97.1
Peak Wavelength (nm):	630	R7:	94.8	R15:	98.2
Dominant Wavelength (nm):	584	R8:	92.1		
Purity:	60.36523				
Rf:	93.8				
Rg:	102				



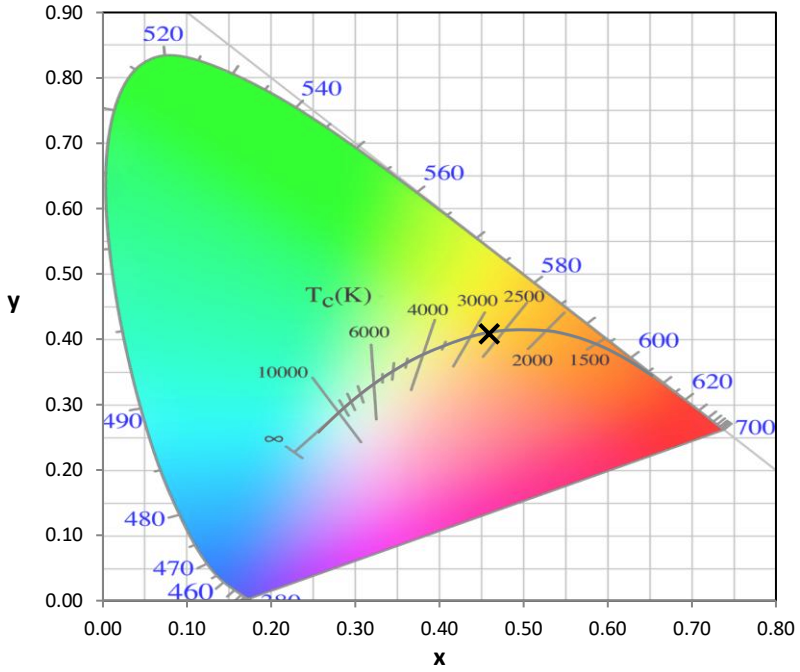
Test Conditions

Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	24.0

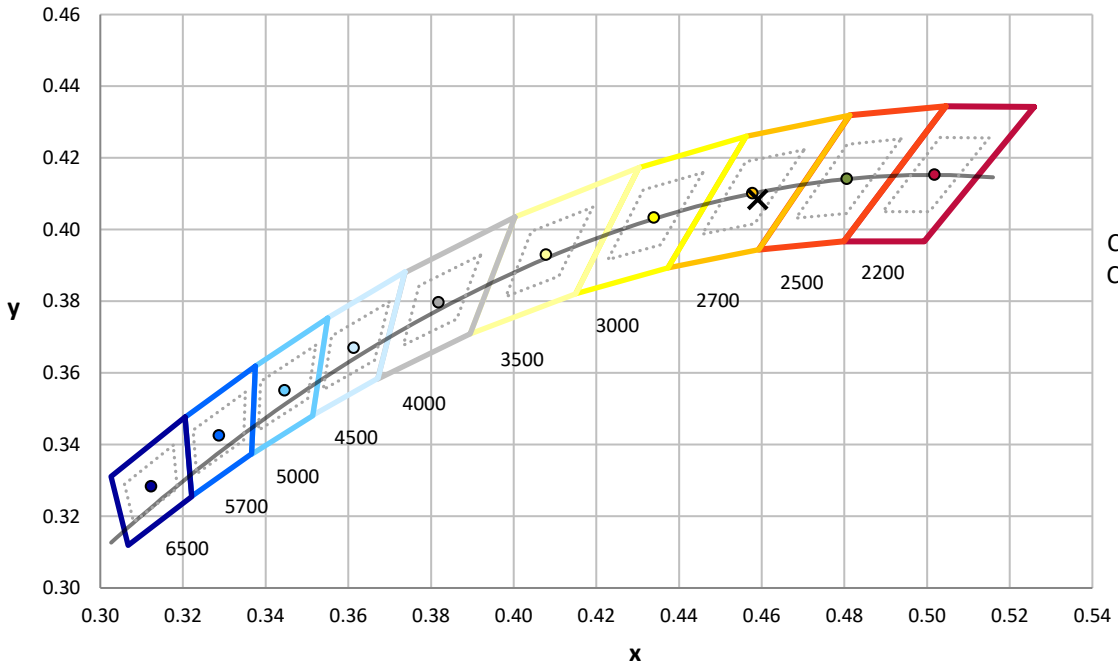
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

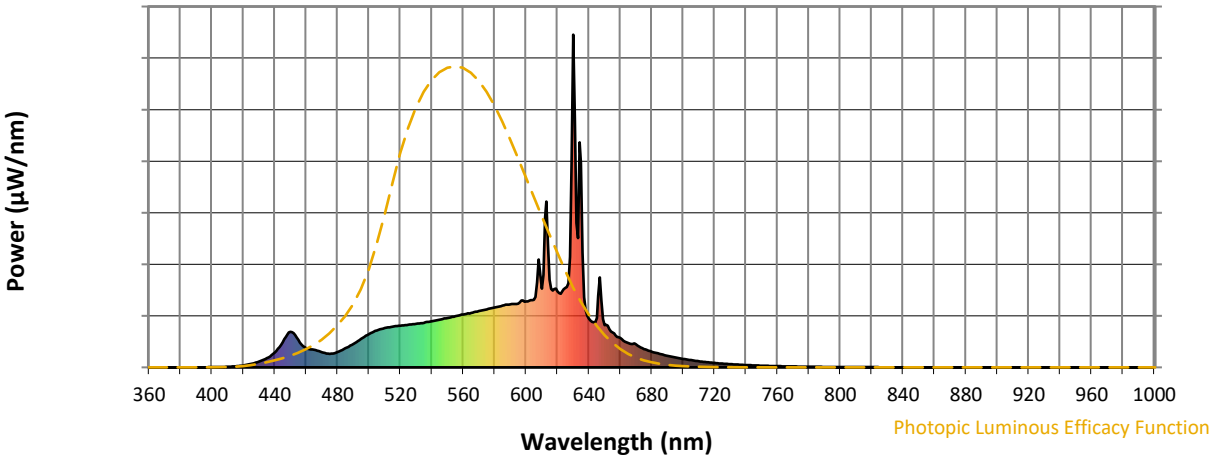


CCT = 2694K
CIE x = 0.4590
CIE y = 0.4084
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

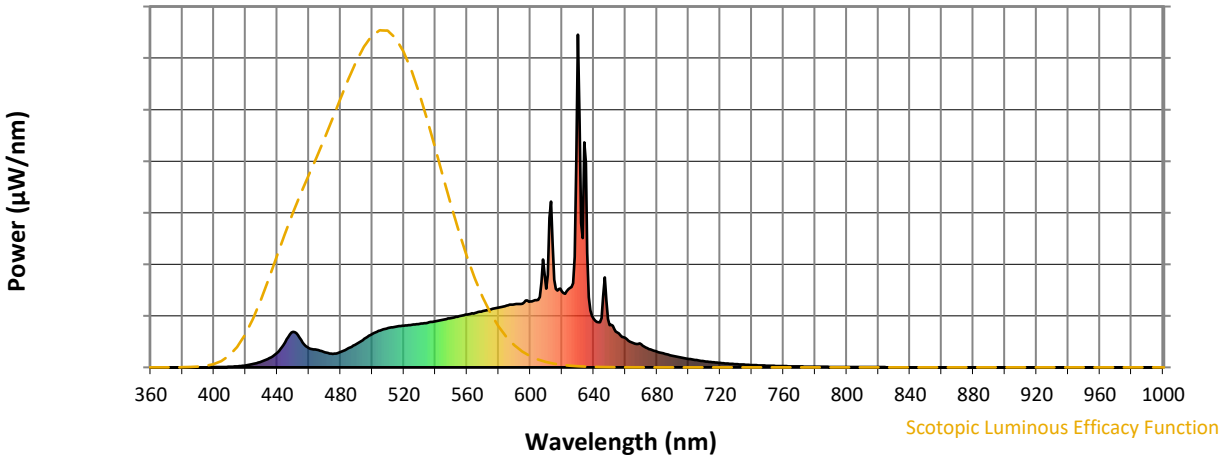


Photopic Lumens: NR

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	70	NR	620	228	NR	750	5	NR	880	0	NR
365	0	NR	495	86	NR	625	239	NR	755	4	NR	885	0	NR
370	0	NR	500	100	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	111	NR	635	614	NR	765	3	NR	895	0	NR
380	0	NR	510	118	NR	640	147	NR	770	3	NR	900	0	NR
385	0	NR	515	122	NR	645	148	NR	775	2	NR	905	0	NR
390	0	NR	520	126	NR	650	127	NR	780	2	NR	910	0	NR
395	0	NR	525	128	NR	655	105	NR	785	2	NR	915	0	NR
400	1	NR	530	130	NR	660	88	NR	790	1	NR	920	0	NR
405	1	NR	535	134	NR	665	73	NR	795	1	NR	925	0	NR
410	2	NR	540	139	NR	670	70	NR	800	1	NR	930	0	NR
415	3	NR	545	143	NR	675	55	NR	805	1	NR	935	0	NR
420	6	NR	550	148	NR	680	47	NR	810	1	NR	940	0	NR
425	10	NR	555	154	NR	685	41	NR	815	1	NR	945	0	NR
430	18	NR	560	159	NR	690	35	NR	820	1	NR	950	0	NR
435	28	NR	565	164	NR	695	30	NR	825	1	NR	955	0	NR
440	44	NR	570	169	NR	700	25	NR	830	0	NR	960	0	NR
445	75	NR	575	175	NR	705	22	NR	835	0	NR	965	0	NR
450	107	NR	580	179	NR	710	18	NR	840	0	NR	970	0	NR
455	82	NR	585	186	NR	715	16	NR	845	0	NR	975	0	NR
460	58	NR	590	190	NR	720	13	NR	850	0	NR	980	0	NR
465	53	NR	595	192	NR	725	11	NR	855	0	NR	985	0	NR
470	45	NR	600	198	NR	730	10	NR	860	0	NR	990	0	NR
475	41	NR	605	203	NR	735	8	NR	865	0	NR	995	0	NR
480	46	NR	610	237	NR	740	7	NR	870	0	NR	1000	0	NR
485	57	NR	615	264	NR	745	6	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-28-R2

Scotopic Flux vs. Wavelength

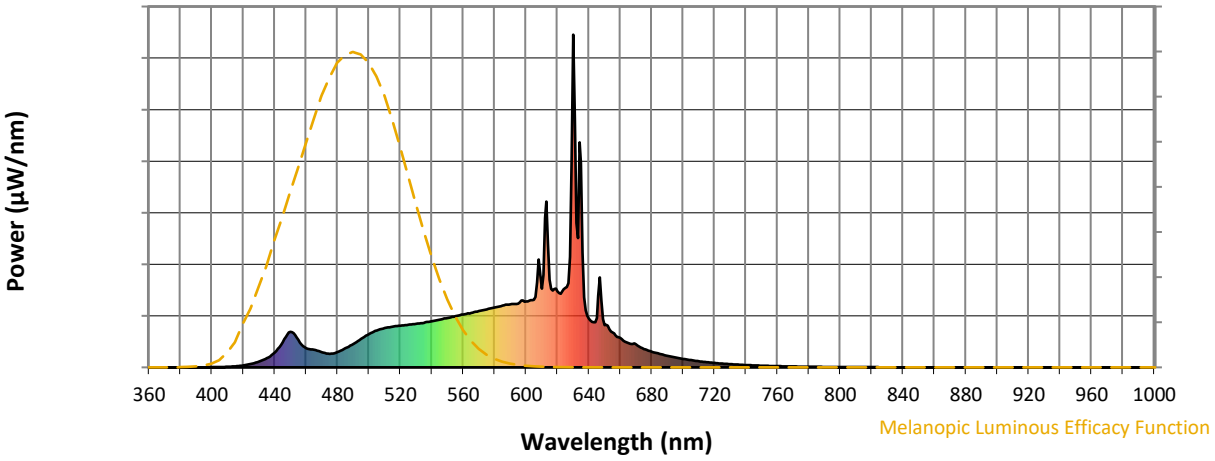


Scotopic Lumens: NR **S/P: 1.34**

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	70	NR	620	228	NR	750	5	NR	880	0	NR
365	0	NR	495	86	NR	625	239	NR	755	4	NR	885	0	NR
370	0	NR	500	100	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	111	NR	635	614	NR	765	3	NR	895	0	NR
380	0	NR	510	118	NR	640	147	NR	770	3	NR	900	0	NR
385	0	NR	515	122	NR	645	148	NR	775	2	NR	905	0	NR
390	0	NR	520	126	NR	650	127	NR	780	2	NR	910	0	NR
395	0	NR	525	128	NR	655	105	NR	785	2	NR	915	0	NR
400	1	NR	530	130	NR	660	88	NR	790	1	NR	920	0	NR
405	1	NR	535	134	NR	665	73	NR	795	1	NR	925	0	NR
410	2	NR	540	139	NR	670	70	NR	800	1	NR	930	0	NR
415	3	NR	545	143	NR	675	55	NR	805	1	NR	935	0	NR
420	6	NR	550	148	NR	680	47	NR	810	1	NR	940	0	NR
425	10	NR	555	154	NR	685	41	NR	815	1	NR	945	0	NR
430	18	NR	560	159	NR	690	35	NR	820	1	NR	950	0	NR
435	28	NR	565	164	NR	695	30	NR	825	1	NR	955	0	NR
440	44	NR	570	169	NR	700	25	NR	830	0	NR	960	0	NR
445	75	NR	575	175	NR	705	22	NR	835	0	NR	965	0	NR
450	107	NR	580	179	NR	710	18	NR	840	0	NR	970	0	NR
455	82	NR	585	186	NR	715	16	NR	845	0	NR	975	0	NR
460	58	NR	590	190	NR	720	13	NR	850	0	NR	980	0	NR
465	53	NR	595	192	NR	725	11	NR	855	0	NR	985	0	NR
470	45	NR	600	198	NR	730	10	NR	860	0	NR	990	0	NR
475	41	NR	605	203	NR	735	8	NR	865	0	NR	995	0	NR
480	46	NR	610	237	NR	740	7	NR	870	0	NR	1000	0	NR
485	57	NR	615	264	NR	745	6	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.58**

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	70	NR	620	228	NR	750	5	NR	880	0	NR
365	0	NR	495	86	NR	625	239	NR	755	4	NR	885	0	NR
370	0	NR	500	100	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	111	NR	635	614	NR	765	3	NR	895	0	NR
380	0	NR	510	118	NR	640	147	NR	770	3	NR	900	0	NR
385	0	NR	515	122	NR	645	148	NR	775	2	NR	905	0	NR
390	0	NR	520	126	NR	650	127	NR	780	2	NR	910	0	NR
395	0	NR	525	128	NR	655	105	NR	785	2	NR	915	0	NR
400	1	NR	530	130	NR	660	88	NR	790	1	NR	920	0	NR
405	1	NR	535	134	NR	665	73	NR	795	1	NR	925	0	NR
410	2	NR	540	139	NR	670	70	NR	800	1	NR	930	0	NR
415	3	NR	545	143	NR	675	55	NR	805	1	NR	935	0	NR
420	6	NR	550	148	NR	680	47	NR	810	1	NR	940	0	NR
425	10	NR	555	154	NR	685	41	NR	815	1	NR	945	0	NR
430	18	NR	560	159	NR	690	35	NR	820	1	NR	950	0	NR
435	28	NR	565	164	NR	695	30	NR	825	1	NR	955	0	NR
440	44	NR	570	169	NR	700	25	NR	830	0	NR	960	0	NR
445	75	NR	575	175	NR	705	22	NR	835	0	NR	965	0	NR
450	107	NR	580	179	NR	710	18	NR	840	0	NR	970	0	NR
455	82	NR	585	186	NR	715	16	NR	845	0	NR	975	0	NR
460	58	NR	590	190	NR	720	13	NR	850	0	NR	980	0	NR
465	53	NR	595	192	NR	725	11	NR	855	0	NR	985	0	NR
470	45	NR	600	198	NR	730	10	NR	860	0	NR	990	0	NR
475	41	NR	605	203	NR	735	8	NR	865	0	NR	995	0	NR
480	46	NR	610	237	NR	740	7	NR	870	0	NR	1000	0	NR
485	57	NR	615	264	NR	745	6	NR	875	0	NR			

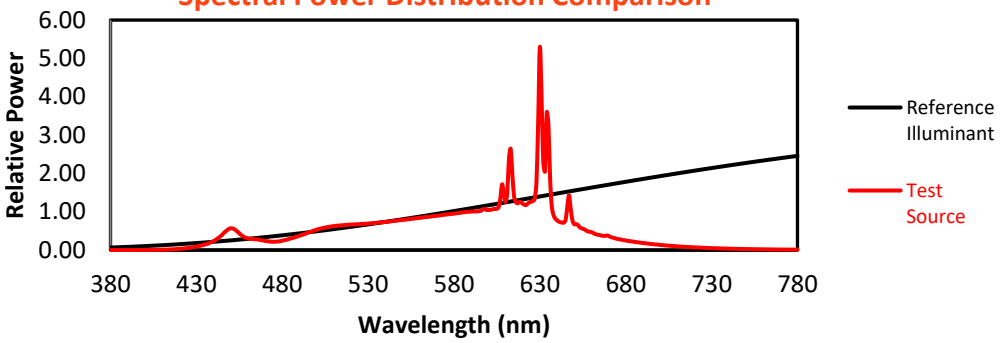
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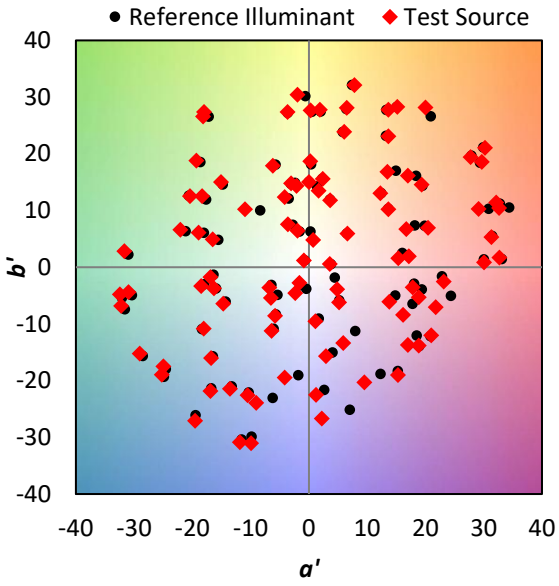
Summary

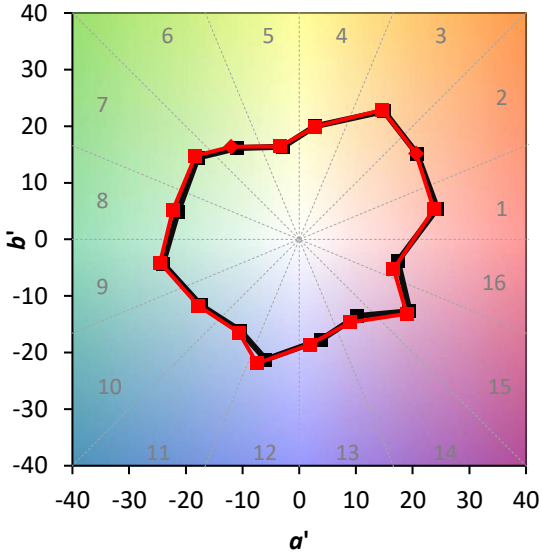
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R_g = 102
CIE R_a = 95.4
R_9 = 80.8

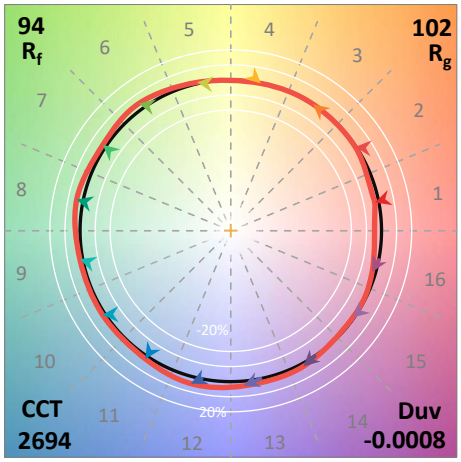
Spectral Power Distribution Comparison

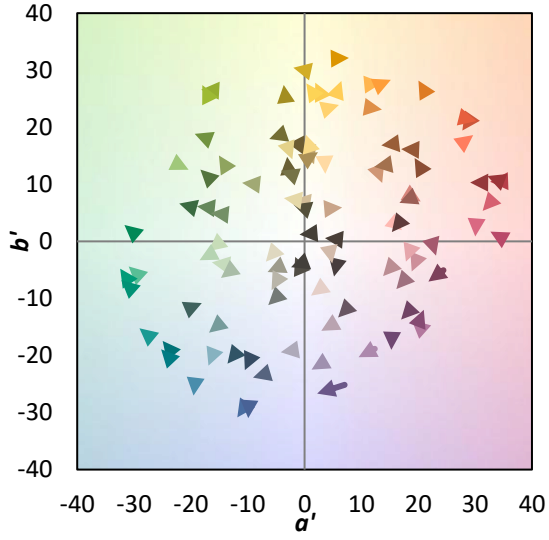


Color Vector Graphics







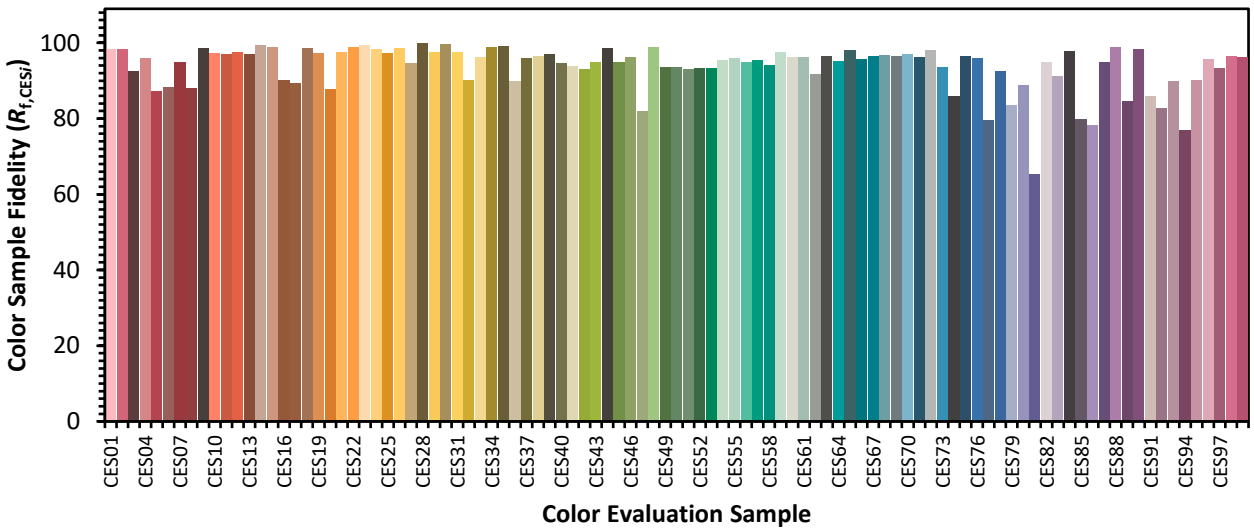


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Individual Sample Fidelity Index ($R_{f,i}$)

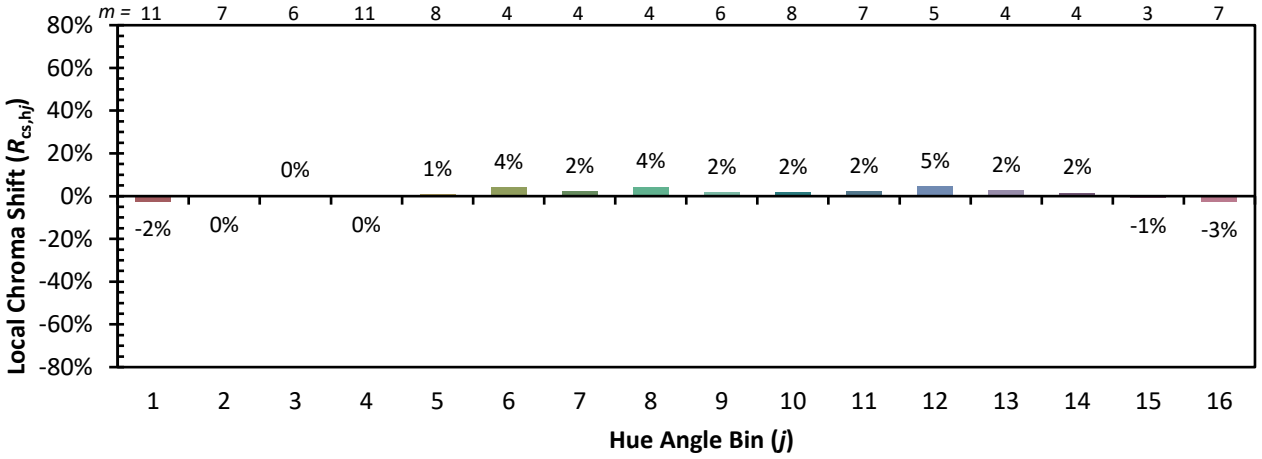
CES01 = 86	CES26 = 99	CES51 = 93	CES76 = 96
CES02 = 64	CES27 = 95	CES52 = 93	CES77 = 79
CES03 = 32	CES28 = 100	CES53 = 93	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 96	CES79 = 84
CES05 = 52	CES30 = 100	CES55 = 96	CES80 = 89
CES06 = 51	CES31 = 98	CES56 = 95	CES81 = 65
CES07 = 45	CES32 = 90	CES57 = 95	CES82 = 95
CES08 = 43	CES33 = 96	CES58 = 94	CES83 = 91
CES09 = 29	CES34 = 99	CES59 = 97	CES84 = 98
CES10 = 77	CES35 = 99	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 90	CES61 = 96	CES86 = 78
CES12 = 66	CES37 = 96	CES62 = 92	CES87 = 95
CES13 = 45	CES38 = 96	CES63 = 97	CES88 = 99
CES14 = 74	CES39 = 97	CES64 = 95	CES89 = 85
CES15 = 72	CES40 = 95	CES65 = 98	CES90 = 98
CES16 = 49	CES41 = 94	CES66 = 96	CES91 = 86
CES17 = 50	CES42 = 93	CES67 = 96	CES92 = 83
CES18 = 57	CES43 = 95	CES68 = 97	CES93 = 90
CES19 = 72	CES44 = 99	CES69 = 97	CES94 = 77
CES20 = 68	CES45 = 95	CES70 = 97	CES95 = 90
CES21 = 87	CES46 = 96	CES71 = 96	CES96 = 96
CES22 = 79	CES47 = 82	CES72 = 98	CES97 = 93
CES23 = 92	CES48 = 99	CES73 = 94	CES98 = 97
CES24 = 91	CES49 = 94	CES74 = 86	CES99 = 96
CES25 = 72	CES50 = 94	CES75 = 96	

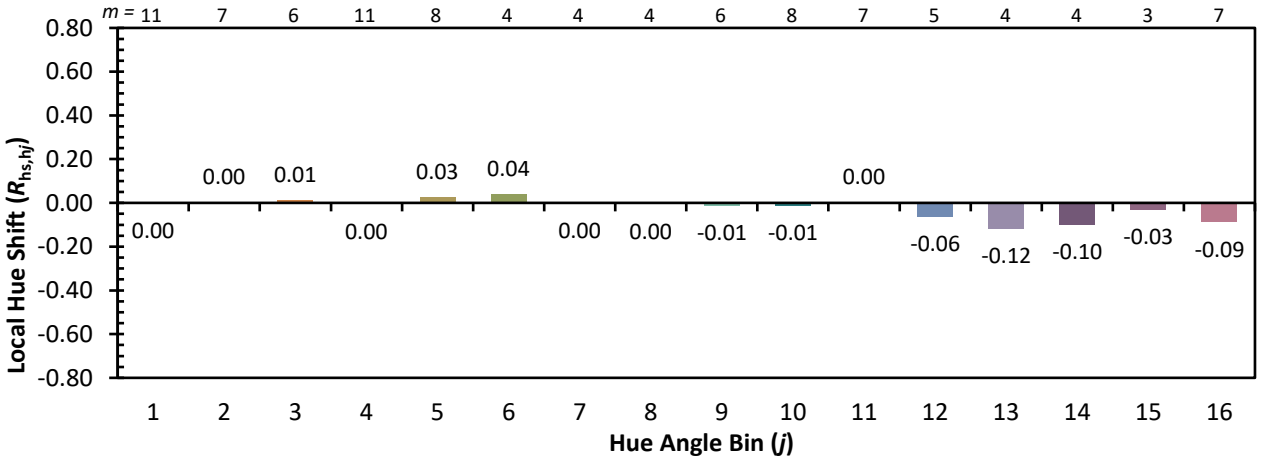


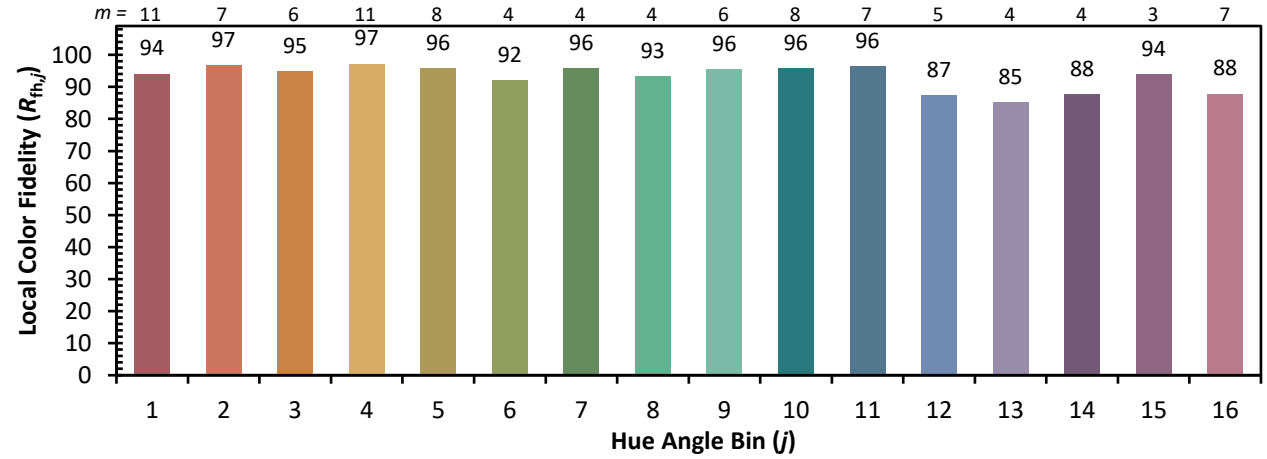
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Color Rendition by Hue-Angle Bin



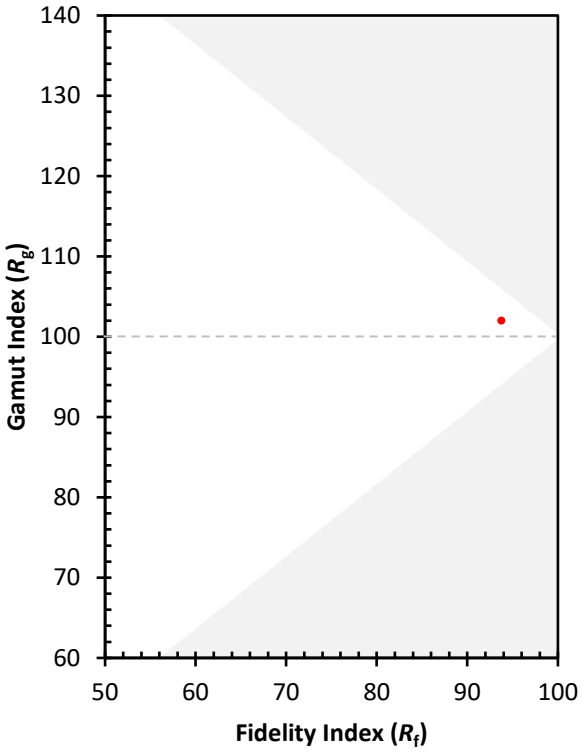


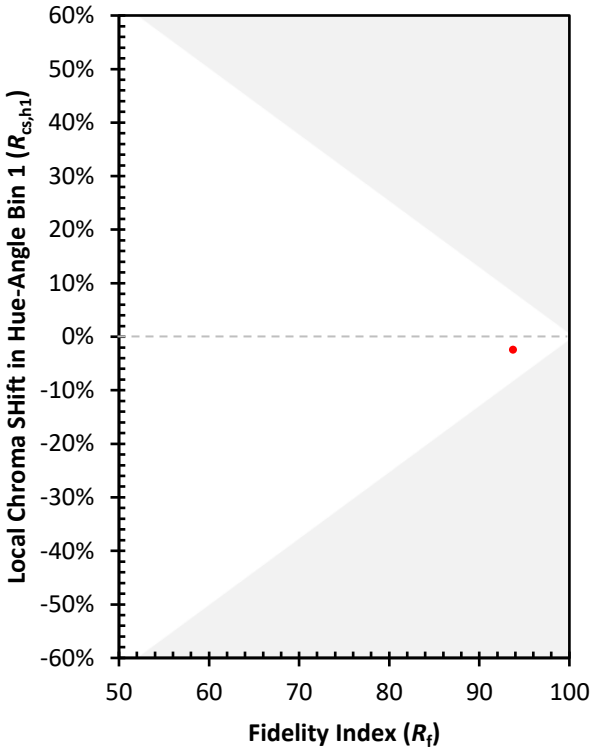


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Measure Comparisons





(END OF REPORT)