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: P1559244

Luminaire Tested: 22CGTX-20-B2750-W2D-2700K

Issue Date: 8/30/2026

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:	P1559244
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/30/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-20-B2750-W2D-2700K
Description:	2X2 2000 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:	2178.6 lumens
Efficiency:	N/A
Efficacy:	113.5 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 1.81' x L: 1.81' x H: 0')
CIE Type:	Direct
Input Watts (W):	19.2
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

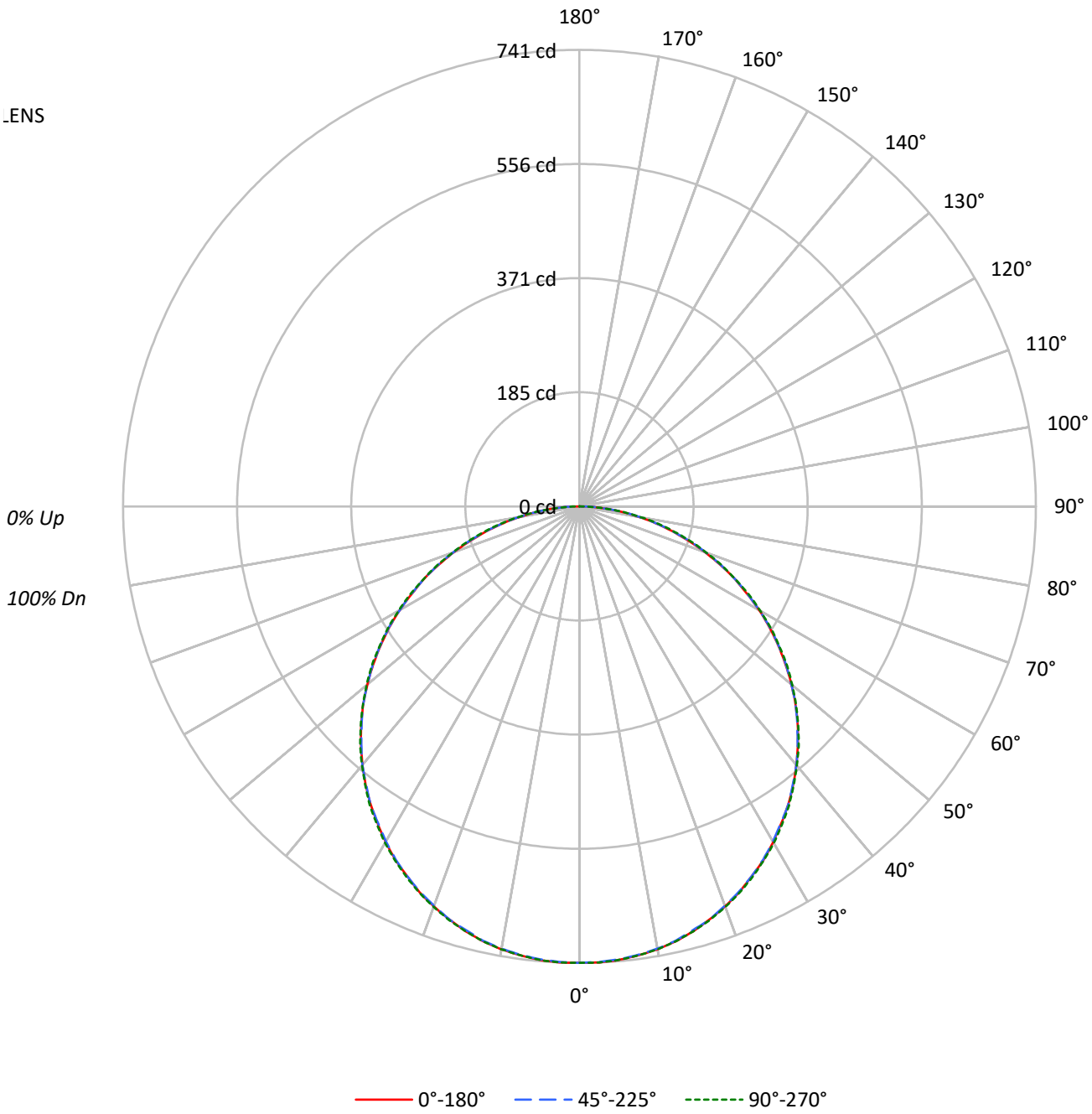


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Scaled Data Report

TEST NUMBER: P1559244
CATALOG NUMBER: 22CGTX-20-B2750-W2D-2700K

Luminous Intensity Polar Plot



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TEST NUMBER: P1559244
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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°	2428	2428	2428
5°	2431	2427	2431
10°	2429	2425	2429
15°	2422	2415	2422
20°	2409	2406	2413
25°	2393	2393	2401
30°	2380	2376	2387
35°	2364	2364	2372
40°	2344	2344	2348
45°	2321	2317	2326
50°	2289	2289	2299
55°	2251	2256	2262
60°	2208	2208	2221
65°	2155	2155	2163
70°	2069	2088	2098
75°	1975	1988	2026
80°	1849	1868	1906
85°	1654	1654	1692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 2326 cd/sqm

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Scaled Data Report

TEST NUMBER: P1559244
CATALOG NUMBER: 22CGTX-20-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.2
10°-20°	201.3	9.2
20°-30°	305.5	14.0
30°-40°	369.6	17.0
40°-50°	386.4	17.7
50°-60°	353.1	16.2
60°-70°	275.1	12.6
70°-80°	166.9	7.7
80°-90°	50.4	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°	577.0	26.5
0°-40°	946.6	43.4
0°-60°	1686.2	77.4
0°-90°	2178.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2178.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	739	738	738	738	739	70
15°	714	713	712	714	714	201
25°	662	662	662	663	664	305
35°	591	590	591	591	593	370
45°	501	501	500	501	502	386
55°	394	395	395	395	396	352
65°	278	277	278	279	279	274
75°	156	156	157	159	160	165
85°	44	44	44	45	45	50
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1559244
CATALOG NUMBER: 22CGTX-20-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*741*	*741*	*741*	*741*	*741*
2.5°	*741*	740	740	741	741
5°	*739*	738	738	738	739
7.5°	*735*	734	734	735	735
10°	*730*	729	729	730	730
12.5°	*723*	722	722	722	723
15°	*714*	713	712	714	714
17.5°	*703*	703	703	703	704
20°	*691*	690	690	691	692
22.5°	*678*	677	677	678	679
25°	*662*	662	662	663	664
27.5°	*647*	647	646	647	648
30°	*629*	629	628	630	631
32.5°	*610*	610	609	611	612
35°	*591*	590	591	591	593
37.5°	*570*	570	569	570	571
40°	*548*	548	548	549	549
42.5°	*525*	525	524	526	527
45°	*501*	501	500	501	502
47.5°	*476*	475	476	477	477
50°	*449*	449	449	450	451
52.5°	*422*	422	423	424	425
55°	*394*	395	395	395	396
57.5°	*366*	366	367	368	369
60°	*337*	336	337	339	339
62.5°	*306*	307	307	309	310
65°	*278*	277	278	279	279
67.5°	*247*	247	248	249	250
70°	*216*	217	218	220	219
72.5°	*185*	187	188	189	190
75°	*156*	156	157	159	160
77.5°	*127*	127	128	130	132
80°	*98*	99	99	101	101
82.5°	*71*	71	71	73	73
85°	*44*	44	44	45	45
87.5°	*19*	19	19	20	20
90°	*0*	0	0	0	0

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TEST NUMBER: P1559244
CATALOG NUMBER: 22CGTX-20-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	14.99	16.65	15.35	16.96	17.28	15.03	16.69	15.40	17.01	17.32
	3H	16.89	18.40	17.27	18.72	19.08	16.95	18.46	17.33	18.78	19.14
	4H	17.63	19.05	18.03	19.40	19.77	17.71	19.13	18.11	19.48	19.85
	6H	18.21	19.52	18.62	19.89	20.28	18.31	19.63	18.72	19.99	20.38
	8H	18.41	19.67	18.83	20.05	20.45	18.52	19.78	18.94	20.16	20.56
	12H	18.54	19.75	18.97	20.13	20.56	18.66	19.87	19.09	20.25	20.68
4H	2H	15.66	17.08	16.05	17.42	17.80	15.69	17.11	16.09	17.46	17.83
	3H	17.79	18.98	18.20	19.38	19.78	17.84	19.04	18.25	19.43	19.83
	4H	18.66	19.75	19.09	20.16	20.59	18.74	19.82	19.17	20.23	20.67
	6H	19.38	20.33	19.83	20.77	21.22	19.48	20.43	19.93	20.86	21.32
	8H	19.63	20.52	20.09	20.96	21.43	19.74	20.63	20.20	21.07	21.53
	12H	19.82	20.62	20.30	21.10	21.56	19.93	20.73	20.41	21.21	21.67
8H	4H	19.02	19.91	19.48	20.35	20.81	19.08	19.97	19.54	20.41	20.88
	6H	19.87	20.61	20.36	21.10	21.57	19.96	20.70	20.45	21.19	21.66
	8H	20.21	20.87	20.72	21.38	21.86	20.31	20.97	20.82	21.48	21.96
	12H	20.48	21.07	20.99	21.56	22.12	20.59	21.18	21.09	21.67	22.23
12H	4H	19.07	19.87	19.55	20.34	20.81	19.13	19.93	19.61	20.40	20.87
	6H	19.95	20.61	20.45	21.12	21.60	20.03	20.70	20.54	21.21	21.69
	8H	20.35	20.94	20.85	21.43	21.99	20.44	21.03	20.95	21.52	22.08

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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

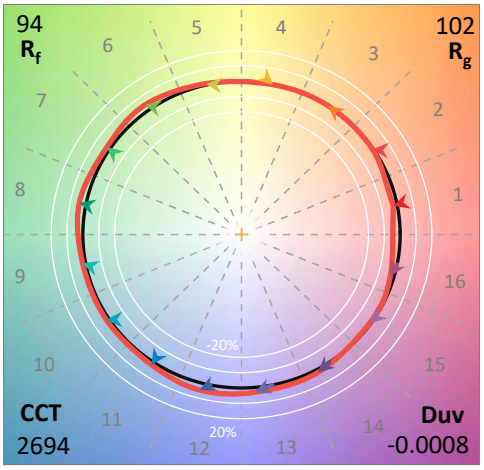
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Version: v7.04

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				



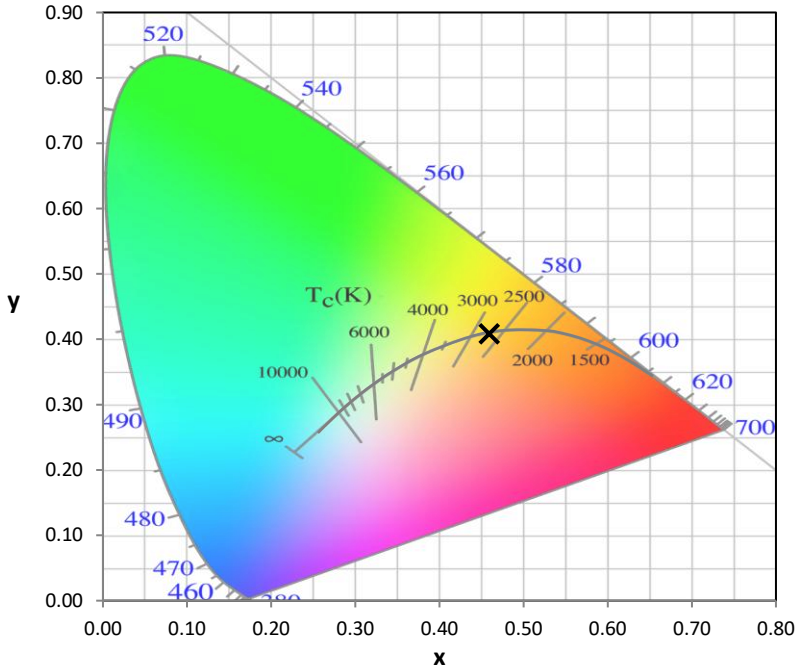
Test Conditions

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

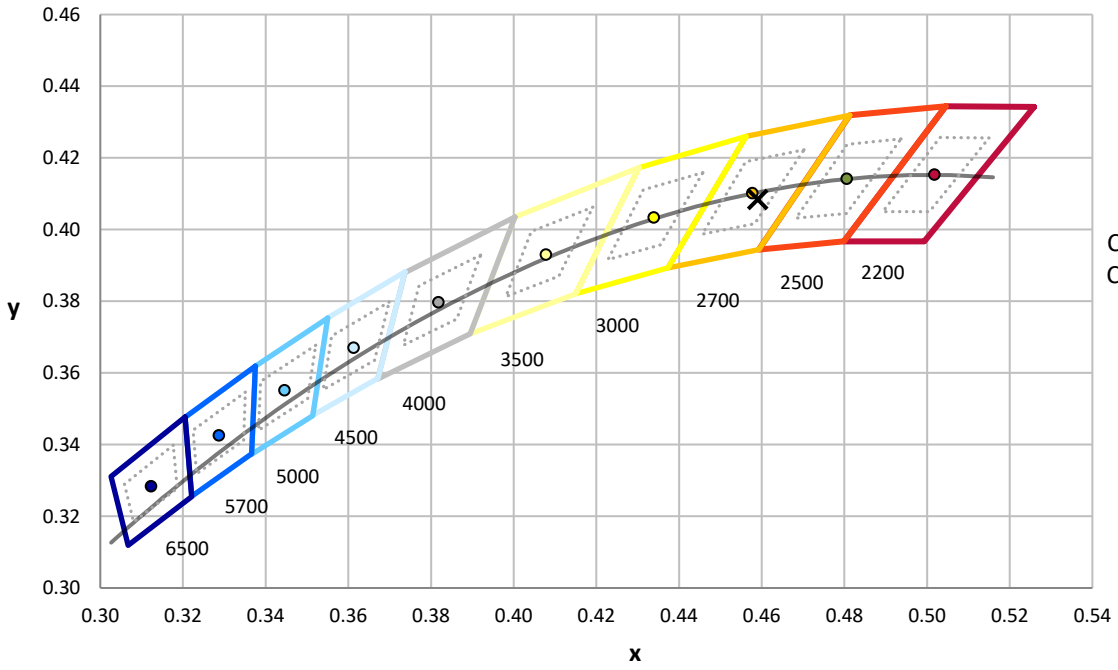
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

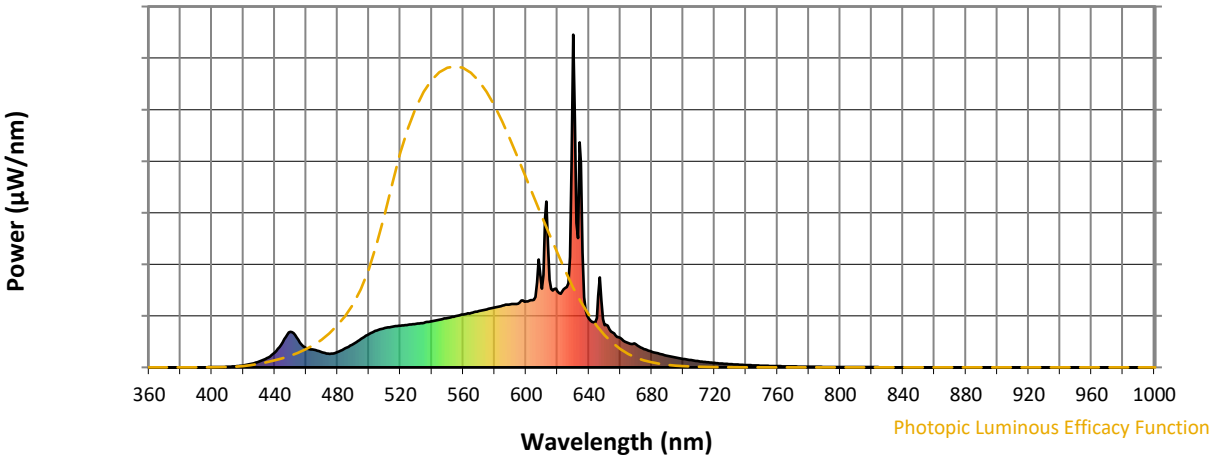


CCT = 2694K
CIE x = 0.4590
CIE y = 0.4084
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

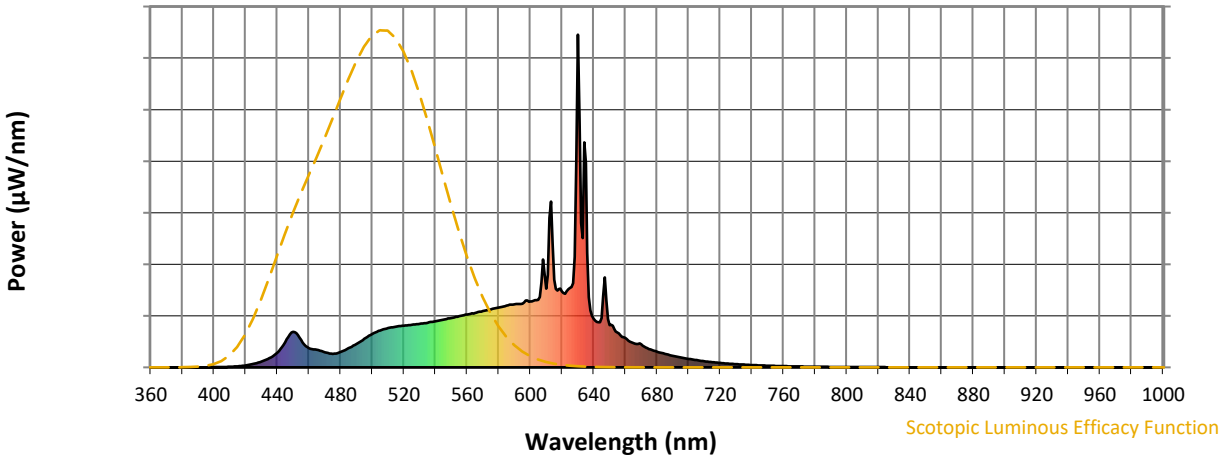


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

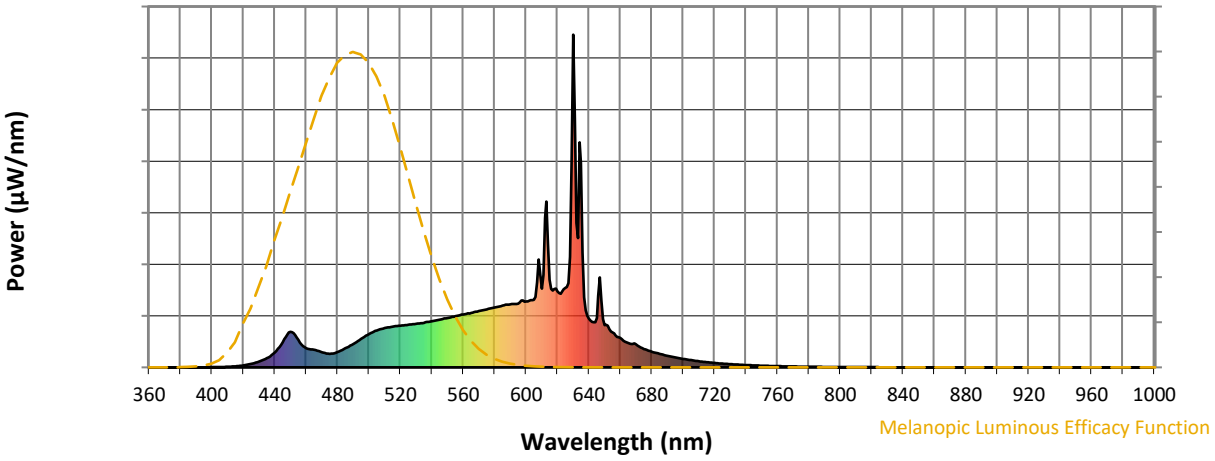


Scotopic Lumens: NR **S/P: 1.34**

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			

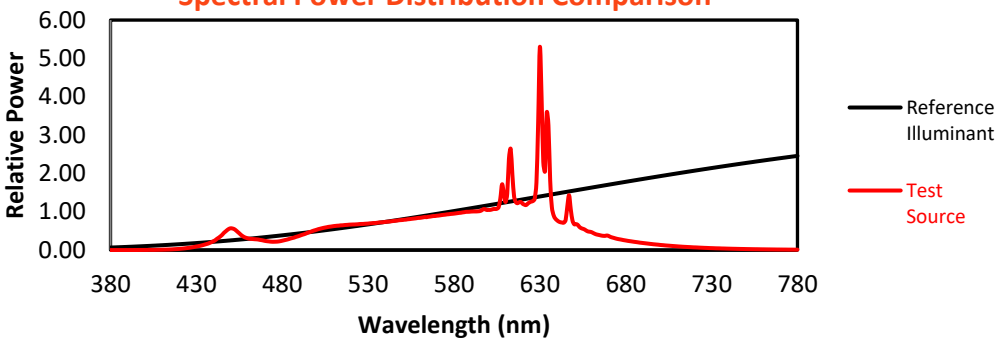
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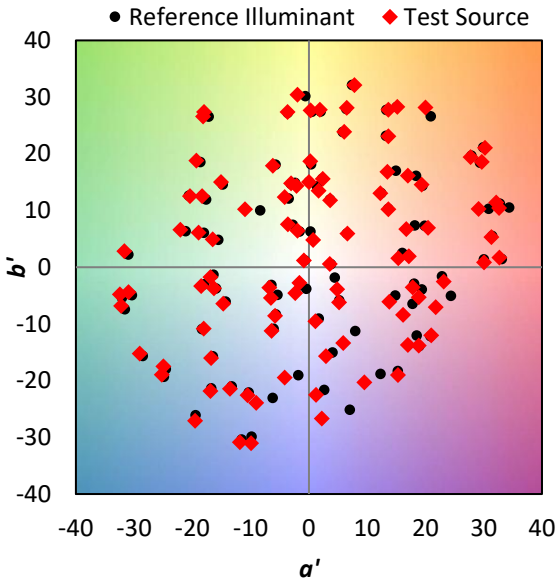
Summary

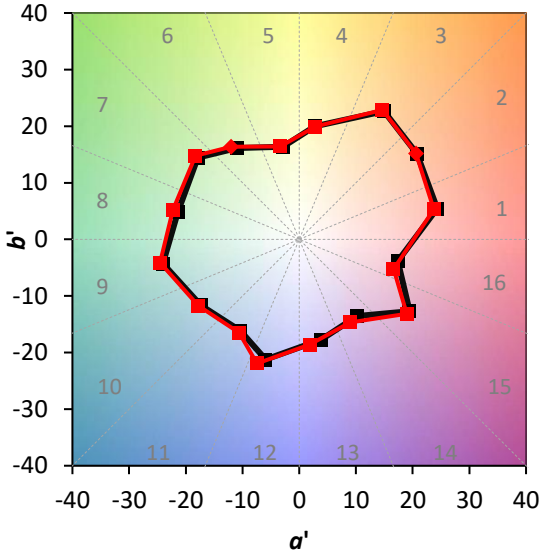
R_f = 93.8
R_g = 102
CIE R_a = 95.4
R_9 = 80.8

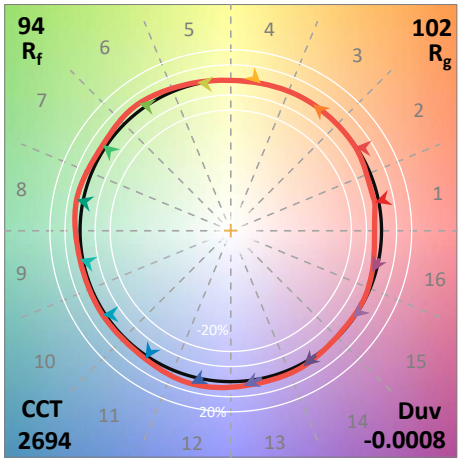
Spectral Power Distribution Comparison

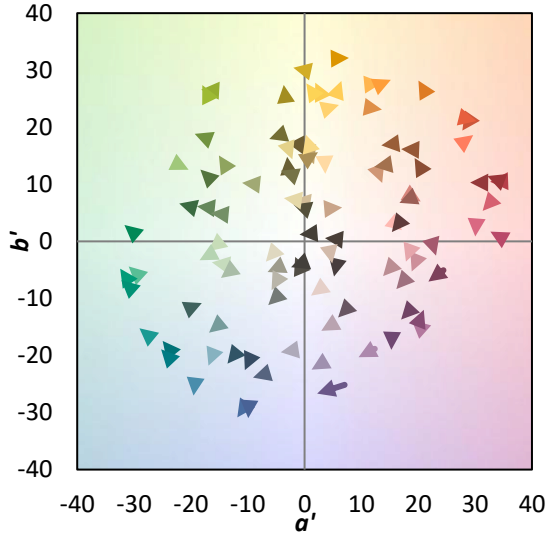


Color Vector Graphics







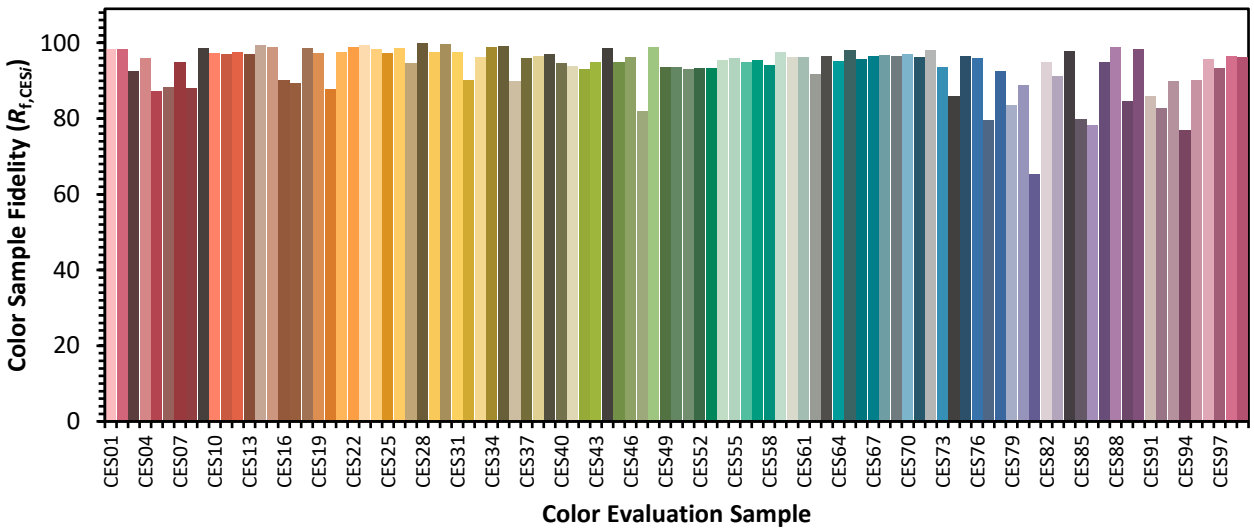


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Individual Sample Fidelity Index ($R_{f,i}$)

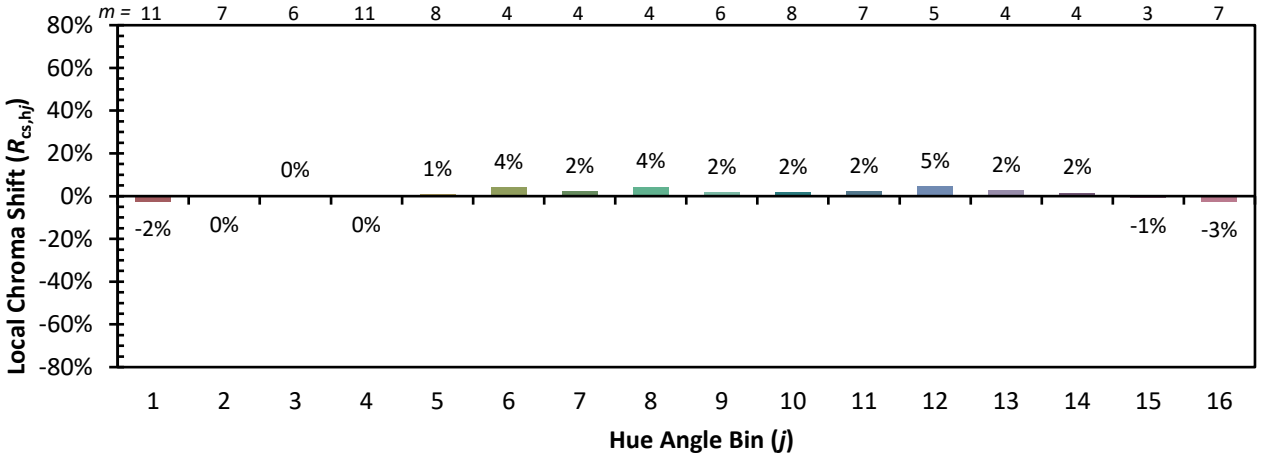
CES01 = 86	CES26 = 99	CES51 = 93	CES76 = 96
CES02 = 64	CES27 = 95	CES52 = 93	CES77 = 79
CES03 = 32	CES28 = 100	CES53 = 93	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 96	CES79 = 84
CES05 = 52	CES30 = 100	CES55 = 96	CES80 = 89
CES06 = 51	CES31 = 98	CES56 = 95	CES81 = 65
CES07 = 45	CES32 = 90	CES57 = 95	CES82 = 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	

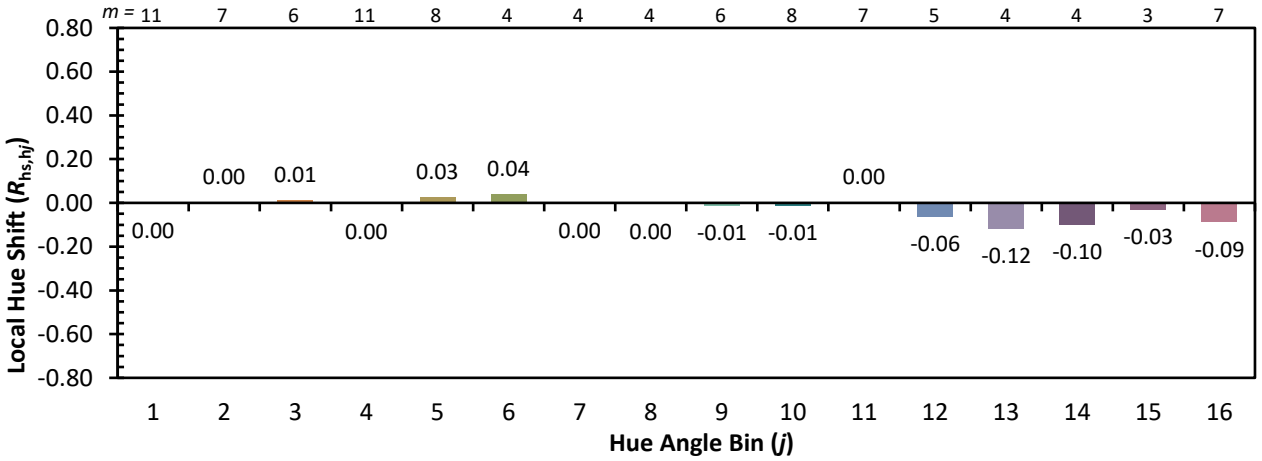


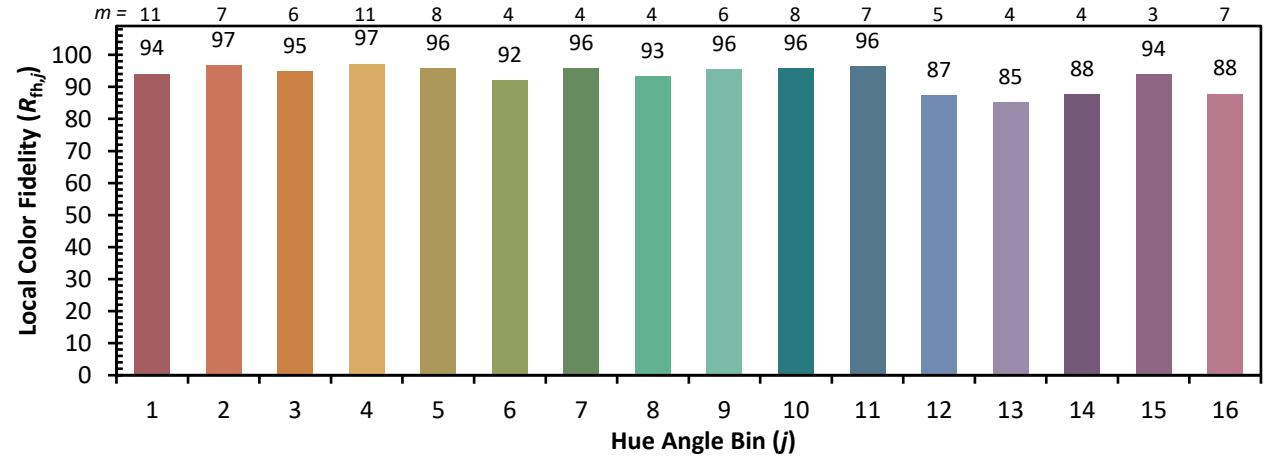
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Color Rendition by Hue-Angle Bin



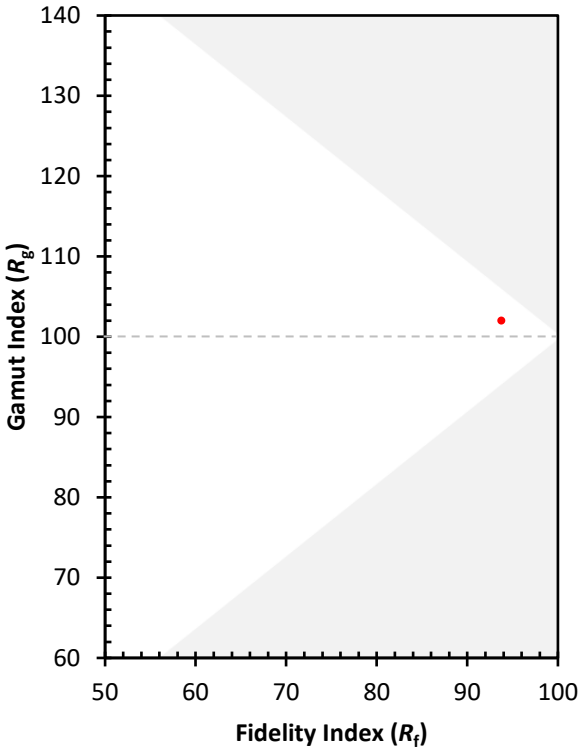


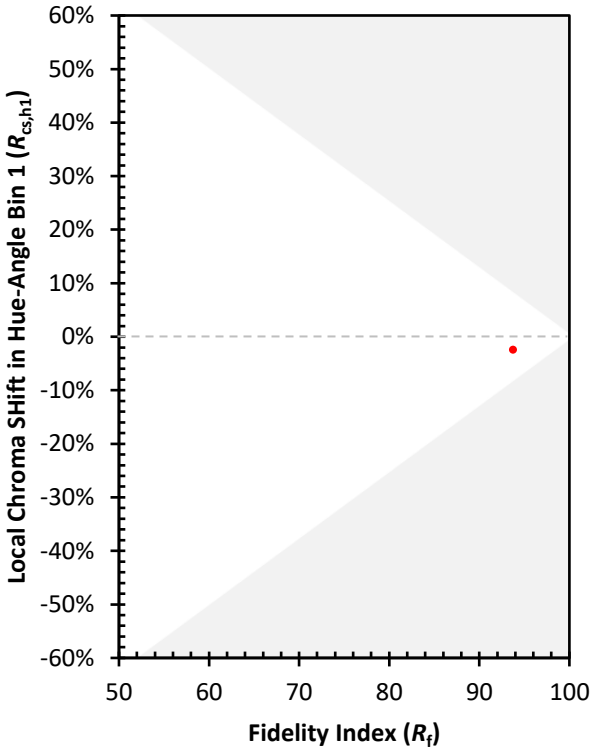


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Measure Comparisons





(END OF REPORT)