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: P1527715

Luminaire Tested: 22CGTX-20-B2750-W2A-2700K

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:	P1527715
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-20-B2750-W2A-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:	2104.6 lumens
Efficiency:	N/A
Efficacy:	113.1 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.27 / 1.38
Luminous Opening:	Rectangular (W 1.81' x L: 1.81' x H: 0')
CIE Type:	Direct

Input Watts (W):	18.6
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

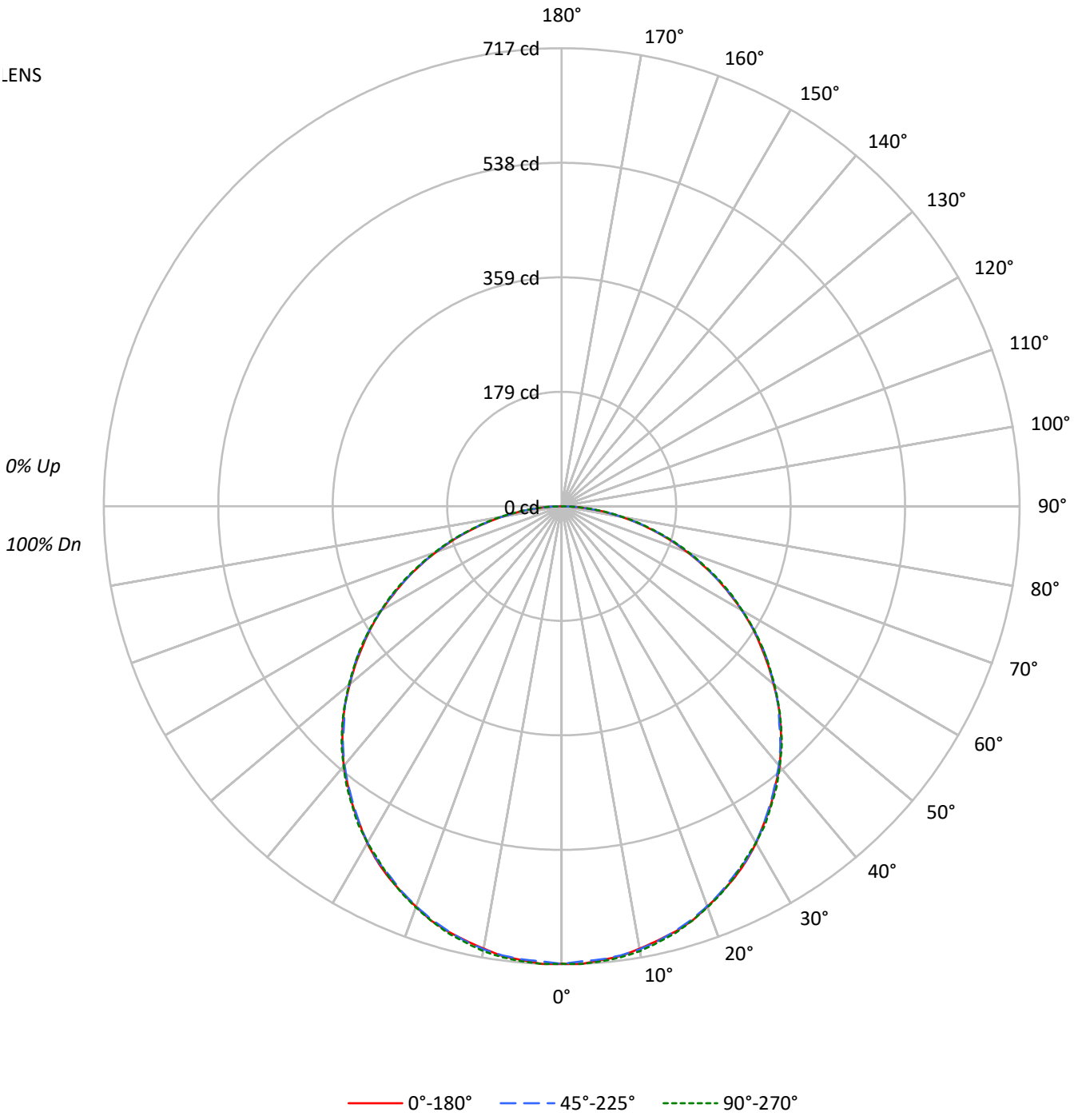


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Scaled Data Report

TEST NUMBER: P1527715
CATALOG NUMBER: 22CGTX-20-B2750-W2A-2700K

Luminous Intensity Polar Plot



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TEST NUMBER: P1527715
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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°	2346	2346	2346
5°	2345	2342	2352
10°	2339	2342	2352
15°	2337	2334	2344
20°	2326	2322	2329
25°	2317	2307	2314
30°	2304	2300	2300
35°	2284	2276	2288
40°	2271	2263	2271
45°	2247	2233	2252
50°	2207	2212	2217
55°	2171	2188	2188
60°	2136	2136	2143
65°	2078	2078	2101
70°	2002	2012	2031
75°	1912	1937	1950
80°	1793	1811	1849
85°	1617	1617	1692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 2252 cd/sqm

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Scaled Data Report

TEST NUMBER: P1527715
CATALOG NUMBER: 22CGTX-20-B2750-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.2
10°-20°	194.5	9.2
20°-30°	295.0	14.0
30°-40°	357.1	17.0
40°-50°	373.1	17.7
50°-60°	341.2	16.2
60°-70°	265.7	12.6
70°-80°	161.4	7.7
80°-90°	48.8	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°	557.2	26.5
0°-40°	914.3	43.4
0°-60°	1628.7	77.4
0°-90°	2104.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	713	712	712	713	715	68
15°	689	690	688	689	691	194
25°	641	640	638	641	640	295
35°	571	571	569	572	572	357
45°	485	484	482	483	486	374
55°	380	381	383	382	383	340
65°	268	267	268	269	271	265
75°	151	151	153	154	154	160
85°	43	42	43	44	45	48
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1527715
CATALOG NUMBER: 22CGTX-20-B2750-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*716*	716	716	716	716
2.5°	*717*	*715*	*713*	*715*	*717*
5°	*713*	712	712	713	715
7.5°	*710*	708	709	709	712
10°	*703*	704	704	705	707
12.5°	*696*	698	697	698	699
15°	*689*	690	688	689	691
17.5°	*680*	680	678	678	680
20°	*667*	667	666	667	668
22.5°	*654*	654	653	655	655
25°	*641*	640	638	641	640
27.5°	*626*	624	625	625	623
30°	*609*	607	608	608	608
32.5°	*589*	590	589	590	592
35°	*571*	571	569	572	572
37.5°	*550*	550	549	552	553
40°	*531*	528	529	530	531
42.5°	*508*	506	507	507	510
45°	*485*	484	482	483	486
47.5°	*460*	459	460	459	461
50°	*433*	434	434	435	435
52.5°	*407*	408	409	410	409
55°	*380*	381	383	382	383
57.5°	*354*	353	355	355	356
60°	*326*	326	326	327	327
62.5°	*296*	296	298	298	300
65°	*268*	267	268	269	271
67.5°	*238*	238	240	240	241
70°	*209*	209	210	212	212
72.5°	*180*	180	182	183	184
75°	*151*	151	153	154	154
77.5°	*123*	122	124	126	127
80°	*95*	95	96	97	98
82.5°	*68*	68	69	71	71
85°	*43*	42	43	44	45
87.5°	*18*	18	18	20	20
90°	*0*	0	0	0	0

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TEST NUMBER: P1527715
CATALOG NUMBER: 22CGTX-20-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	14.86	16.52	15.23	16.84	17.15	14.90	16.56	15.27	16.88	17.19
	3H	16.76	18.27	17.14	18.60	18.96	16.82	18.33	17.20	18.65	19.01
	4H	17.51	18.93	17.90	19.27	19.65	17.58	19.00	17.98	19.35	19.72
	6H	18.08	19.40	18.49	19.77	20.16	18.18	19.50	18.59	19.86	20.25
	8H	18.28	19.54	18.70	19.93	20.33	18.39	19.65	18.81	20.04	20.44
	12H	18.42	19.63	18.85	20.01	20.44	18.54	19.75	18.97	20.13	20.56
4H	2H	15.53	16.95	15.93	17.30	17.67	15.56	16.98	15.96	17.33	17.70
	3H	17.66	18.86	18.07	19.25	19.65	17.71	18.91	18.12	19.30	19.70
	4H	18.54	19.62	18.97	20.03	20.47	18.61	19.69	19.04	20.11	20.54
	6H	19.25	20.20	19.70	20.64	21.09	19.35	20.30	19.80	20.74	21.19
	8H	19.50	20.39	19.96	20.83	21.30	19.62	20.50	20.07	20.95	21.41
	12H	19.69	20.49	20.17	20.97	21.44	19.82	20.62	20.30	21.09	21.56
8H	4H	18.90	19.79	19.36	20.23	20.69	18.96	19.85	19.42	20.29	20.76
	6H	19.75	20.49	20.24	20.97	21.45	19.84	20.58	20.33	21.07	21.54
	8H	20.08	20.75	20.59	21.25	21.74	20.19	20.86	20.70	21.36	21.85
	12H	20.35	20.94	20.86	21.43	21.99	20.48	21.07	20.98	21.56	22.12
12H	4H	18.95	19.75	19.42	20.22	20.69	19.01	19.81	19.49	20.28	20.75
	6H	19.82	20.49	20.33	21.00	21.48	19.91	20.58	20.42	21.08	21.57
	8H	20.22	20.81	20.73	21.30	21.86	20.33	20.92	20.83	21.41	21.96

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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

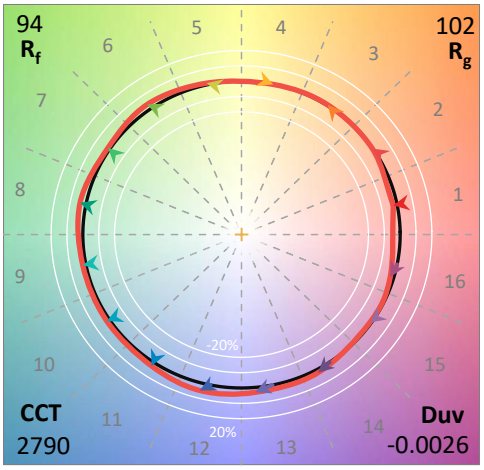
Test Information

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				



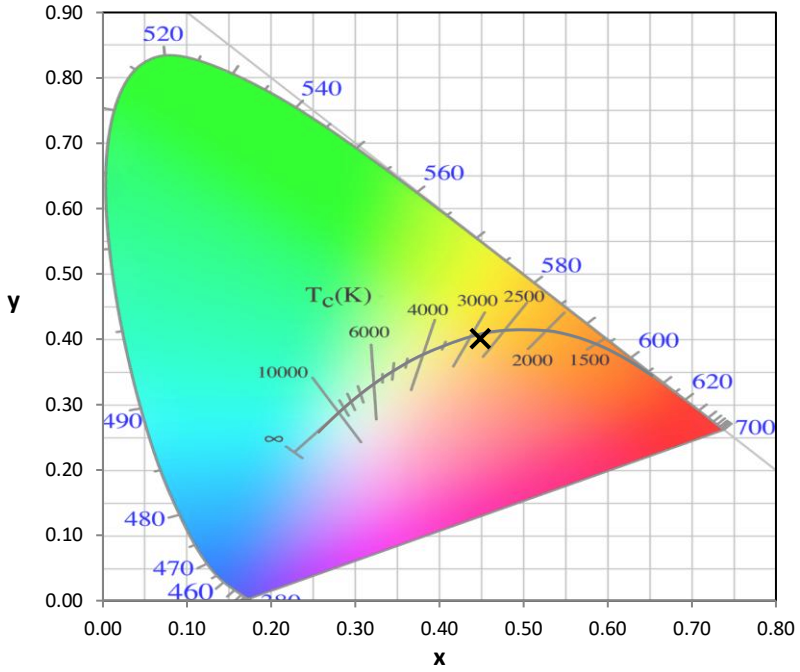
Test Conditions

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

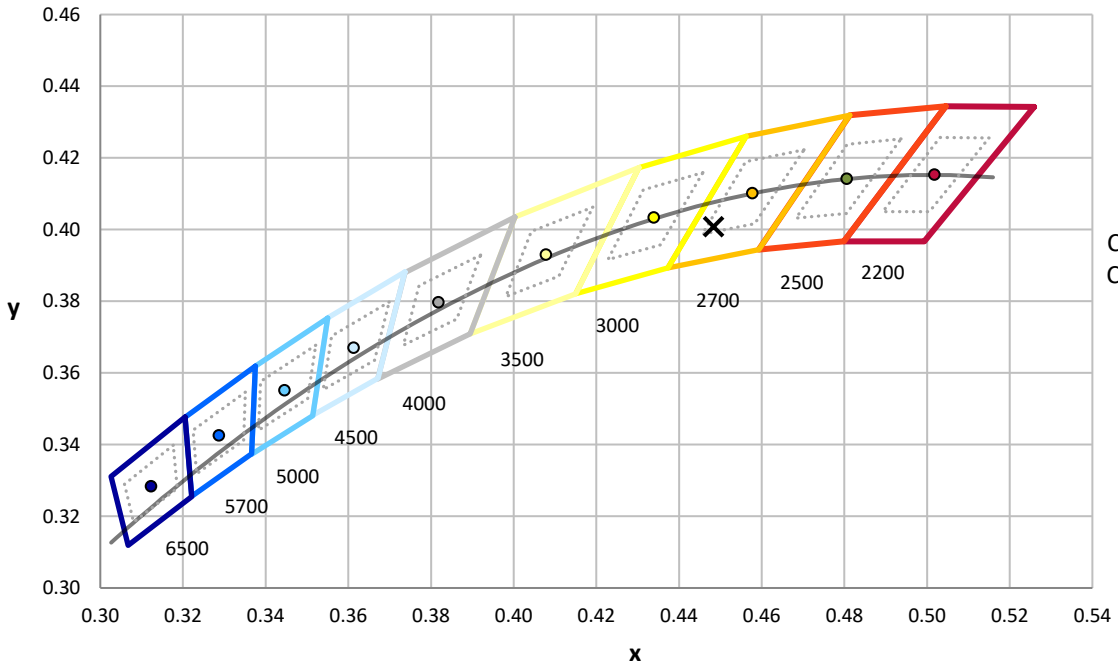
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

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

CIE 1931 Chromaticity Diagram



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

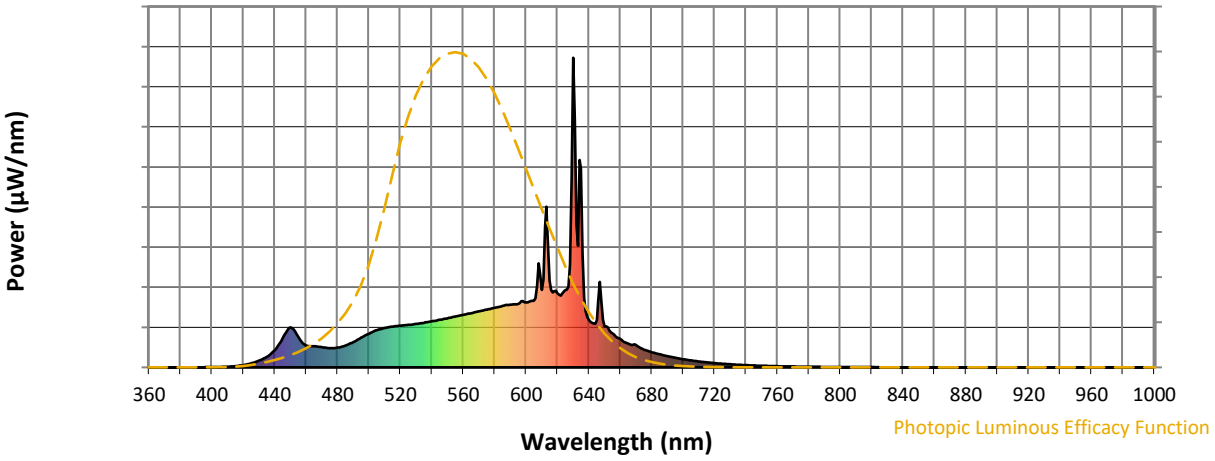


CCT = 2790K
CIE x = 0.4483
CIE y = 0.4008
Duv = -0.0026

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

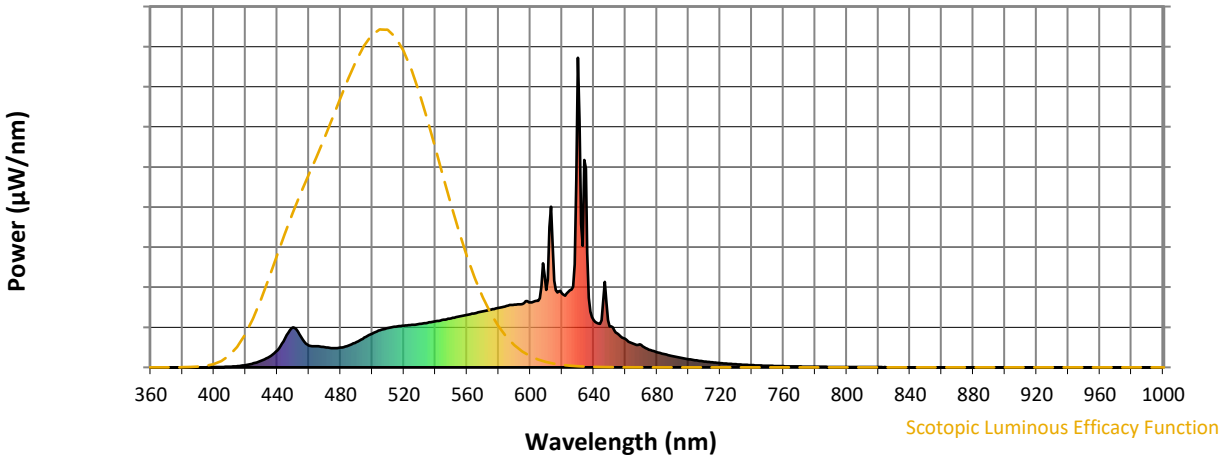


Photopic Lumens: NR

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	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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Scotopic Flux vs. Wavelength

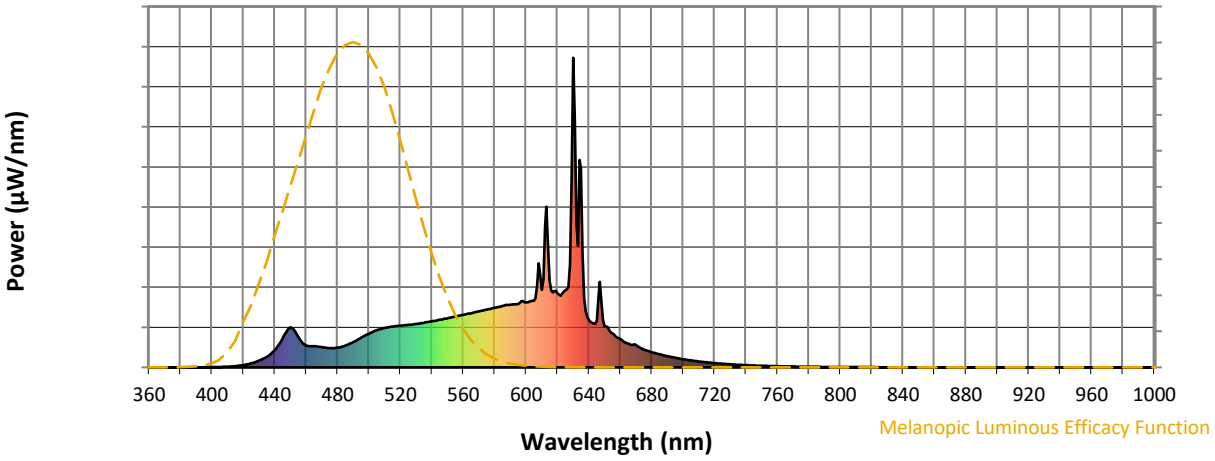


Scotopic Lumens: NR **S/P: 1.41**

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			

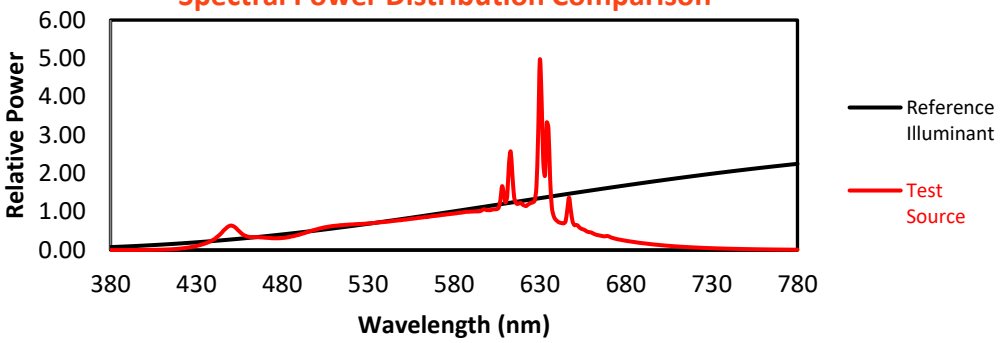
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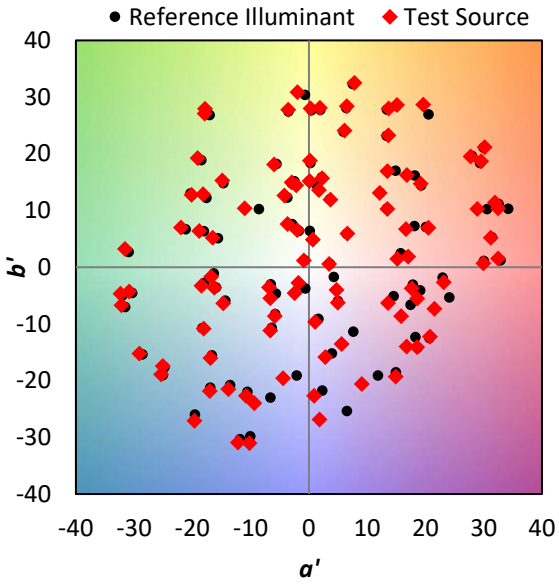
Summary

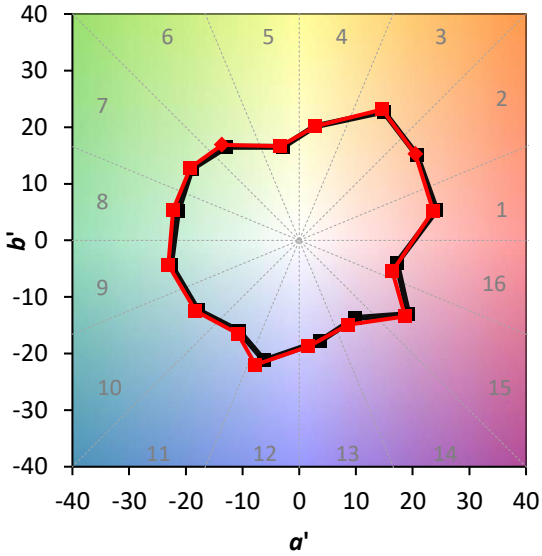
R_f = 93.8
R_g = 102.2
CIE R_a = 95.1
R_9 = 82.2

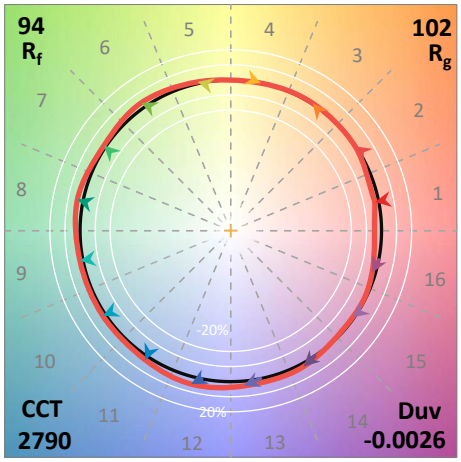
Spectral Power Distribution Comparison

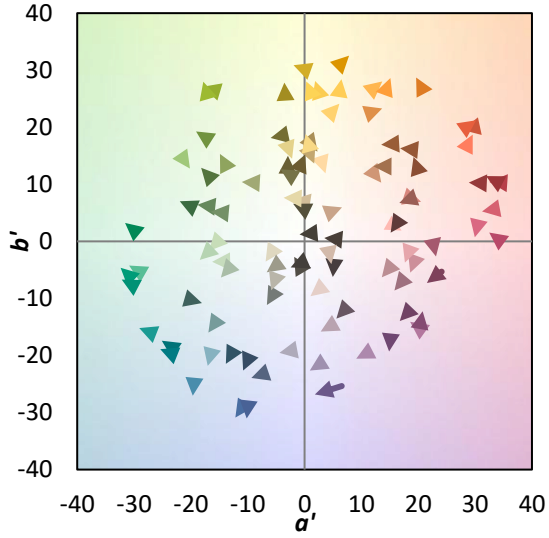


Color Vector Graphics







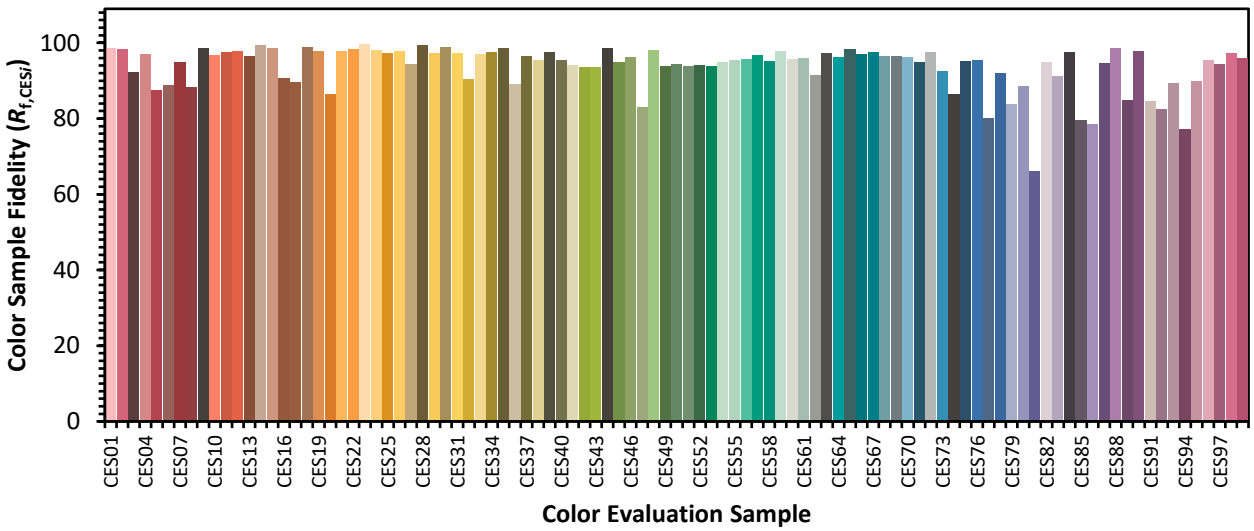


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Individual Sample Fidelity Index ($R_{f,i}$)

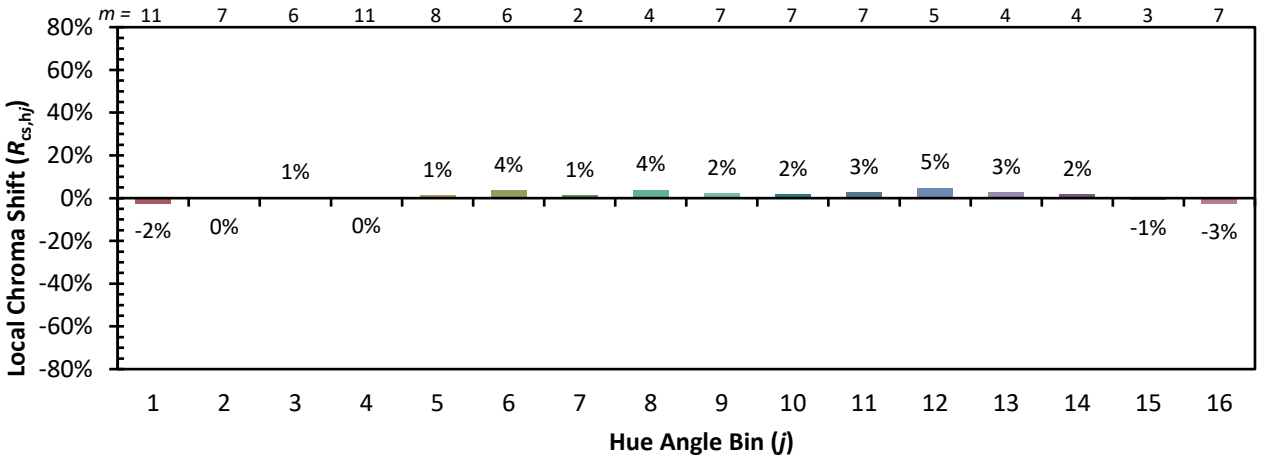
CES01 = 86	CES26 = 98	CES51 = 94	CES76 = 95
CES02 = 64	CES27 = 94	CES52 = 94	CES77 = 80
CES03 = 32	CES28 = 99	CES53 = 94	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 95	CES79 = 84
CES05 = 51	CES30 = 99	CES55 = 95	CES80 = 89
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 66
CES07 = 45	CES32 = 90	CES57 = 97	CES82 = 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	

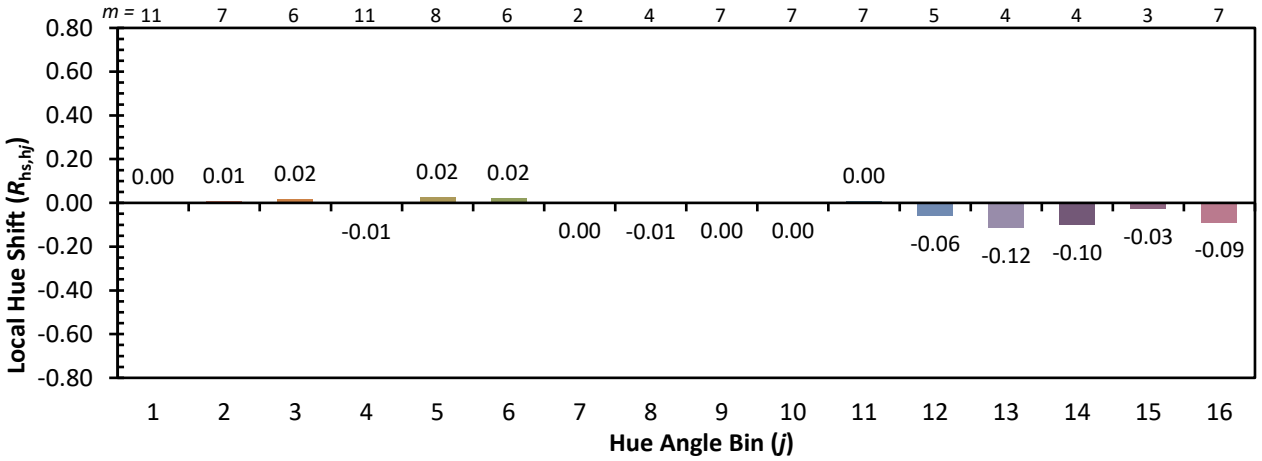


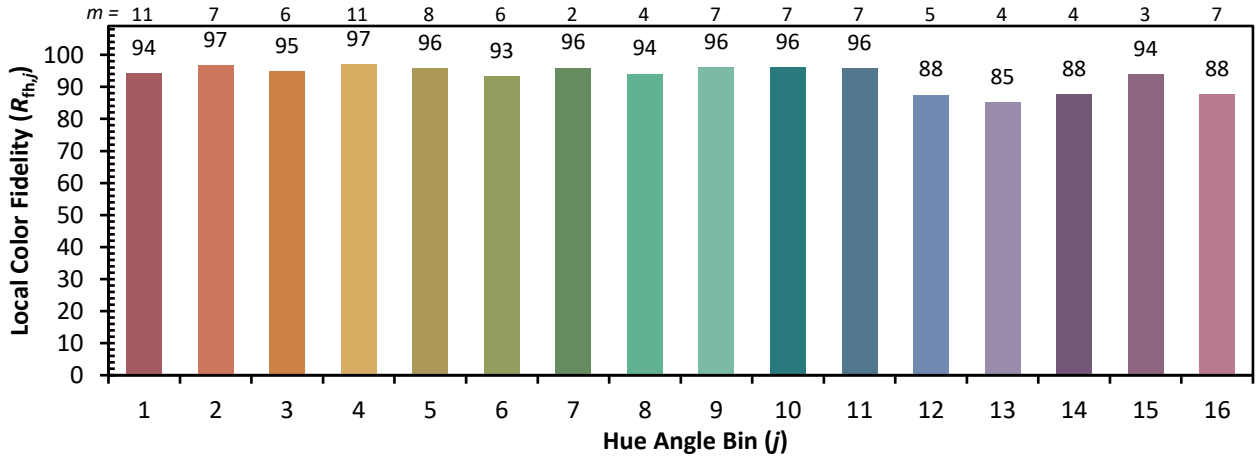
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Color Rendition by Hue-Angle Bin



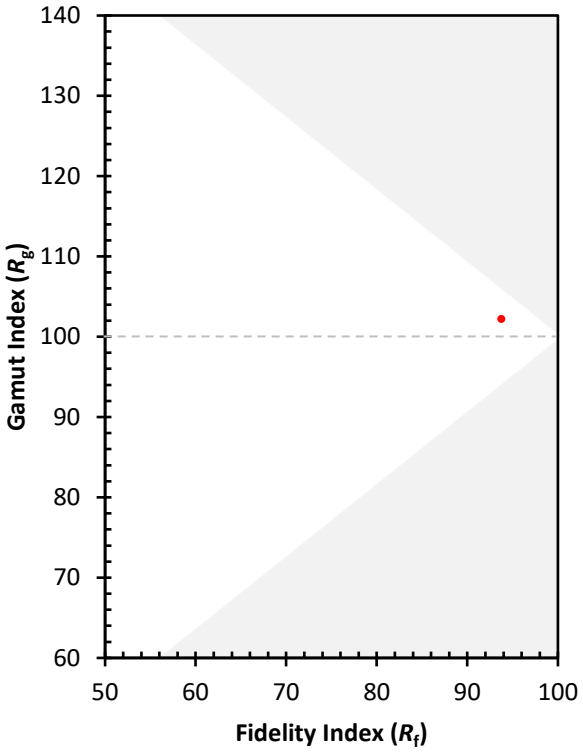


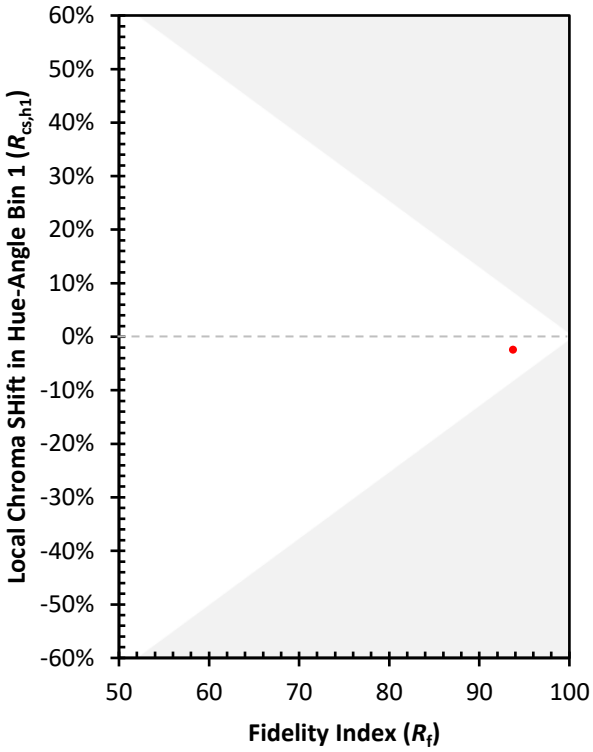


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Measure Comparisons





(END OF REPORT)