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: P1527697

Luminaire Tested: 14CGTX-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:	P1527697
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	14CGTX-20-B2750-W2A-2700K
Description:	1X4 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:	2029.7 lumens
Efficiency:	N/A
Efficacy:	105.2 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 0.82' x L: 3.83' x H: 0')
CIE Type:	Direct

Input Watts (W):	19.3
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

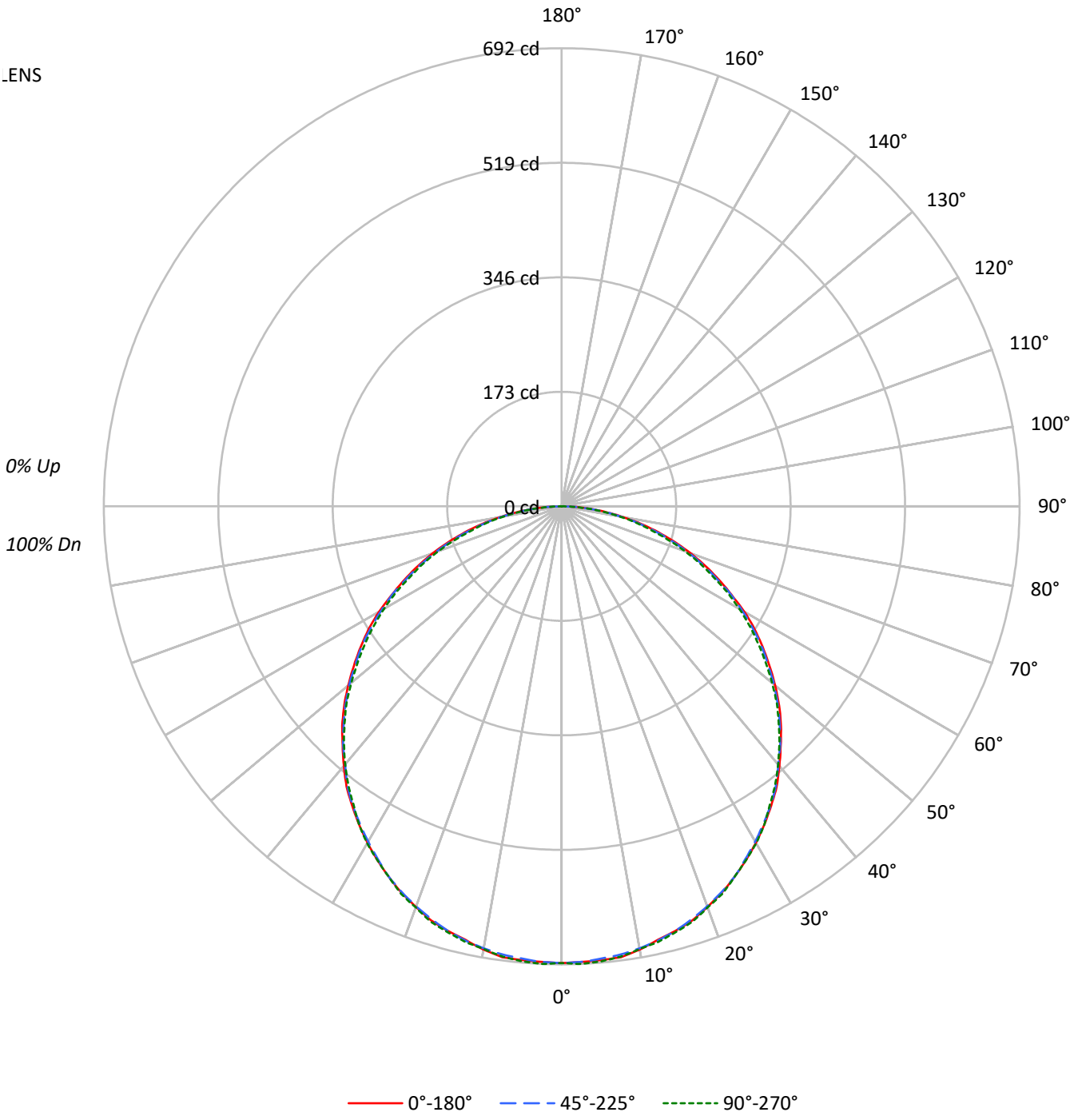


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Scaled Data Report

TEST NUMBER: P1527697
CATALOG NUMBER: 14CGTX-20-B2750-W2A-2700K

Luminous Intensity Polar Plot



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TEST NUMBER: P1527697
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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	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	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	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2354	2354	2354
5°	2357	2350	2363
10°	2356	2349	2353
15°	2346	2346	2353
20°	2339	2335	2342
25°	2327	2327	2327
30°	2313	2305	2317
35°	2299	2295	2287
40°	2281	2267	2267
45°	2263	2249	2239
50°	2235	2224	2203
55°	2207	2195	2159
60°	2177	2150	2116
65°	2115	2083	2043
70°	2065	2025	1975
75°	1991	1938	1859
80°	1867	1827	1749
85°	1683	1644	1566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2263 cd/sqm

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Scaled Data Report

TEST NUMBER: P1527697
CATALOG NUMBER: 14CGTX-20-B2750-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	3.2
10°-20°	187.7	9.2
20°-30°	285.0	14.0
30°-40°	344.8	17.0
40°-50°	359.8	17.7
50°-60°	328.8	16.2
60°-70°	256.2	12.6
70°-80°	155.2	7.6
80°-90°	46.8	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°	538.1	26.5
0°-40°	882.8	43.5
0°-60°	1571.5	77.4
0°-90°	2029.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2029.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	688	688	686	690	690	65
15°	664	666	664	666	666	188
25°	618	617	618	621	618	285
35°	552	551	551	551	549	345
45°	469	469	466	465	464	361
55°	371	371	369	364	363	332
65°	262	262	258	255	253	260
75°	151	150	147	144	141	159
85°	43	44	42	39	40	49
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1527697
CATALOG NUMBER: 14CGTX-20-B2750-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690	690	690	690	*690*
2.5°	*689*	*690*	*689*	*690*	*692*
5°	688	688	686	690	*690*
7.5°	687	686	683	687	*686*
10°	680	679	678	679	*679*
12.5°	671	674	672	673	*674*
15°	664	666	664	666	*666*
17.5°	656	655	654	657	*658*
20°	644	644	643	645	*645*
22.5°	632	633	631	634	*634*
25°	618	617	618	621	*618*
27.5°	603	603	601	604	*603*
30°	587	588	585	587	*588*
32.5°	570	569	568	571	*570*
35°	552	551	551	551	*549*
37.5°	534	533	532	532	*530*
40°	512	512	509	509	*509*
42.5°	490	490	489	487	*487*
45°	469	469	466	465	*464*
47.5°	446	446	443	442	*441*
50°	421	421	419	418	*415*
52.5°	396	397	393	392	*389*
55°	371	371	369	364	*363*
57.5°	346	345	342	338	*337*
60°	319	319	315	312	*310*
62.5°	289	290	288	284	*283*
65°	262	262	258	255	*253*
67.5°	235	234	231	228	*227*
70°	207	207	203	200	*198*
72.5°	179	177	175	172	*169*
75°	151	150	147	144	*141*
77.5°	123	122	119	117	*116*
80°	95	95	93	90	*89*
82.5°	69	68	67	64	*64*
85°	43	44	42	39	*40*
87.5°	19	19	18	17	*16*
90°	0	0	0	0	*0*

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TEST NUMBER: P1527697
CATALOG NUMBER: 14CGTX-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	14.97	16.63	15.34	16.95	17.26	14.82	16.48	15.19	16.80	17.11
	3H	16.90	18.41	17.28	18.73	19.09	16.72	18.22	17.09	18.55	18.91
	4H	17.67	19.09	18.06	19.43	19.81	17.44	18.86	17.84	19.21	19.58
	6H	18.26	19.58	18.67	19.94	20.33	18.01	19.32	18.42	19.69	20.08
	8H	18.47	19.73	18.89	20.12	20.51	18.20	19.46	18.62	19.85	20.24
	12H	18.61	19.82	19.04	20.20	20.63	18.33	19.54	18.76	19.92	20.35
4H	2H	15.62	17.04	16.02	17.38	17.76	15.50	16.92	15.90	17.27	17.64
	3H	17.78	18.98	18.19	19.37	19.77	17.62	18.82	18.03	19.21	19.61
	4H	18.68	19.77	19.12	20.18	20.62	18.48	19.57	18.91	19.98	20.41
	6H	19.42	20.37	19.87	20.81	21.26	19.18	20.13	19.64	20.57	21.03
	8H	19.68	20.57	20.14	21.02	21.48	19.43	20.32	19.89	20.76	21.22
	12H	19.88	20.69	20.36	21.16	21.63	19.61	20.41	20.09	20.89	21.36
8H	4H	19.03	19.92	19.49	20.36	20.82	18.85	19.74	19.31	20.18	20.64
	6H	19.90	20.64	20.40	21.13	21.61	19.69	20.43	20.18	20.92	21.39
	8H	20.25	20.92	20.76	21.42	21.91	20.01	20.68	20.52	21.18	21.67
	12H	20.54	21.13	21.05	21.62	22.18	20.27	20.86	20.78	21.35	21.91
12H	4H	19.07	19.87	19.55	20.34	20.81	18.90	19.70	19.38	20.18	20.64
	6H	19.97	20.64	20.48	21.15	21.63	19.77	20.44	20.28	20.94	21.42
	8H	20.39	20.98	20.89	21.47	22.02	20.16	20.75	20.66	21.24	21.80

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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

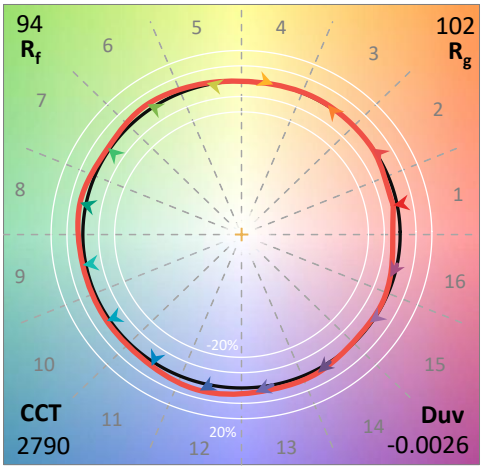
Test Information

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				



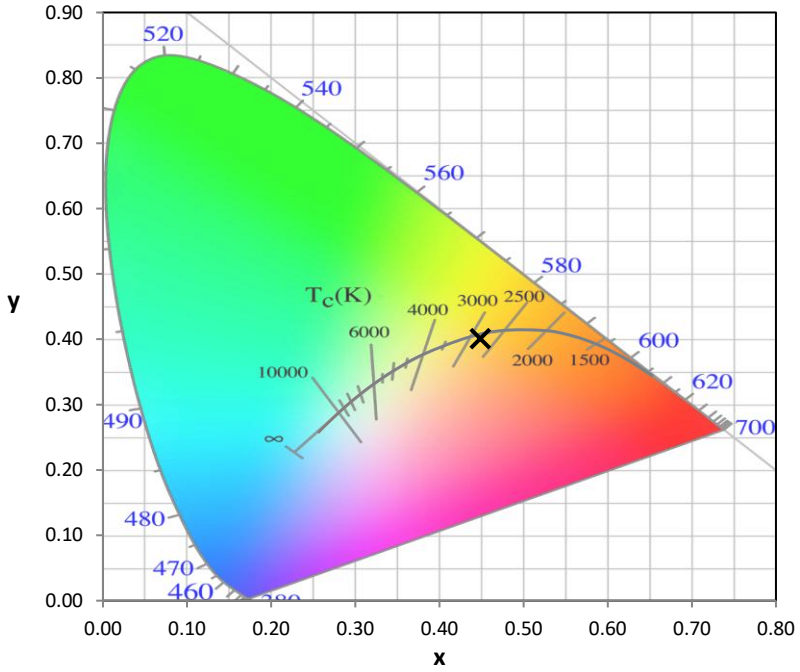
Test Conditions

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

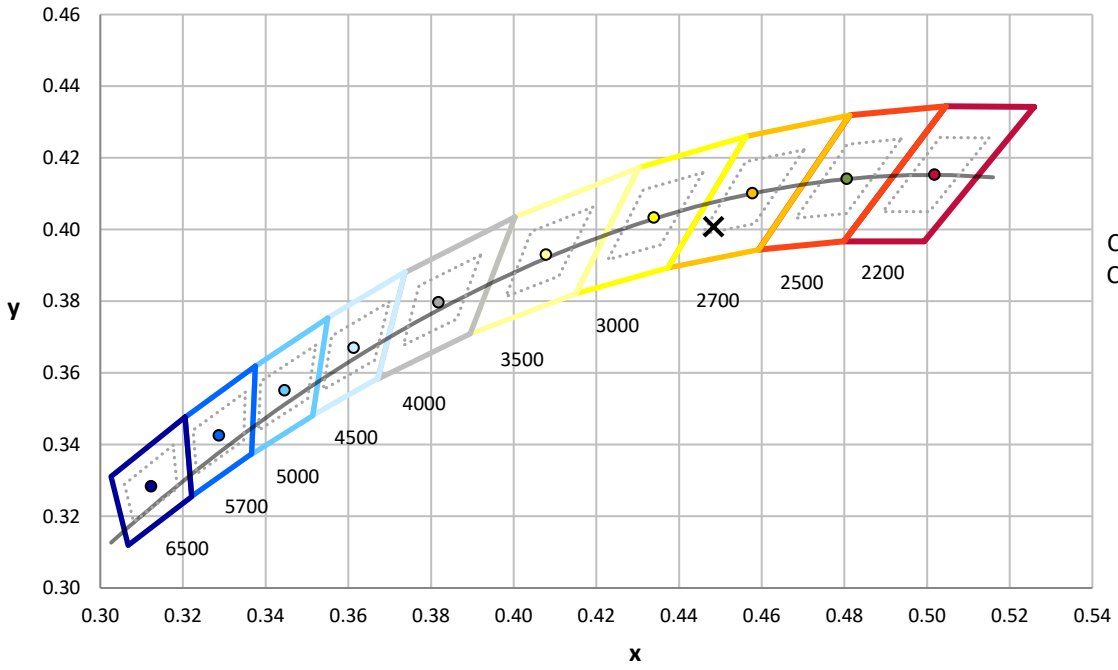
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

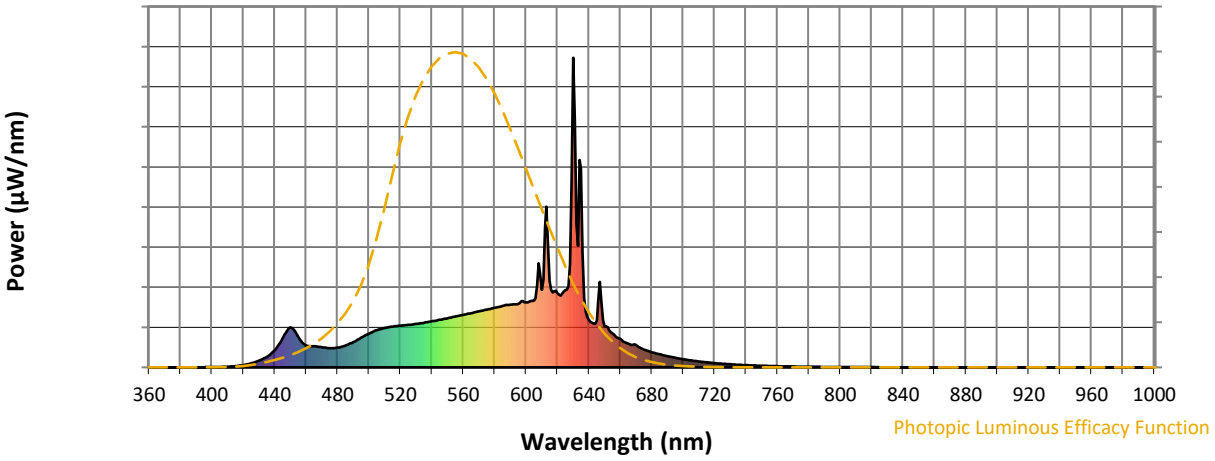


CCT = 2790K
CIE x = 0.4483
CIE y = 0.4008
Duv = -0.0026

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

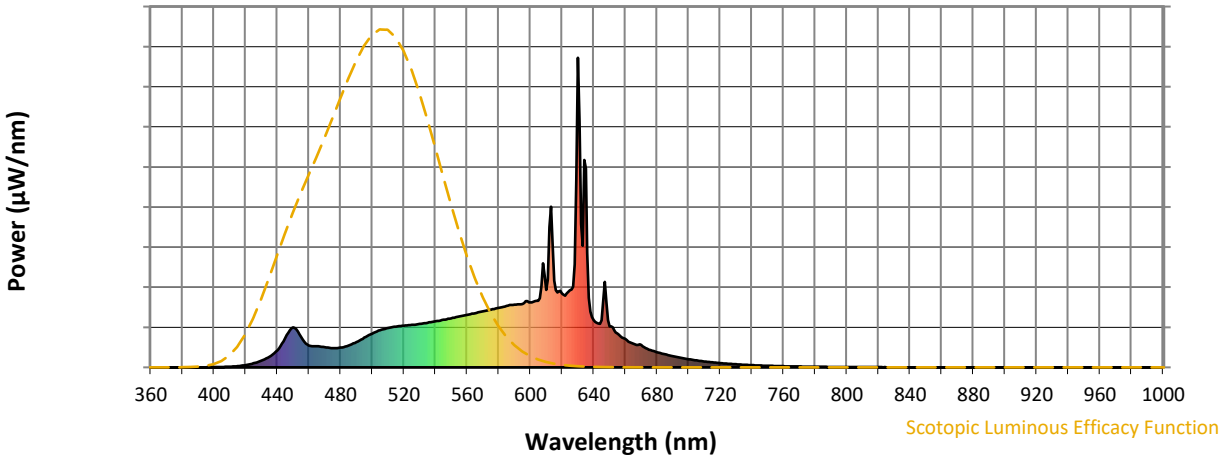


Photopic Lumens: NR

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

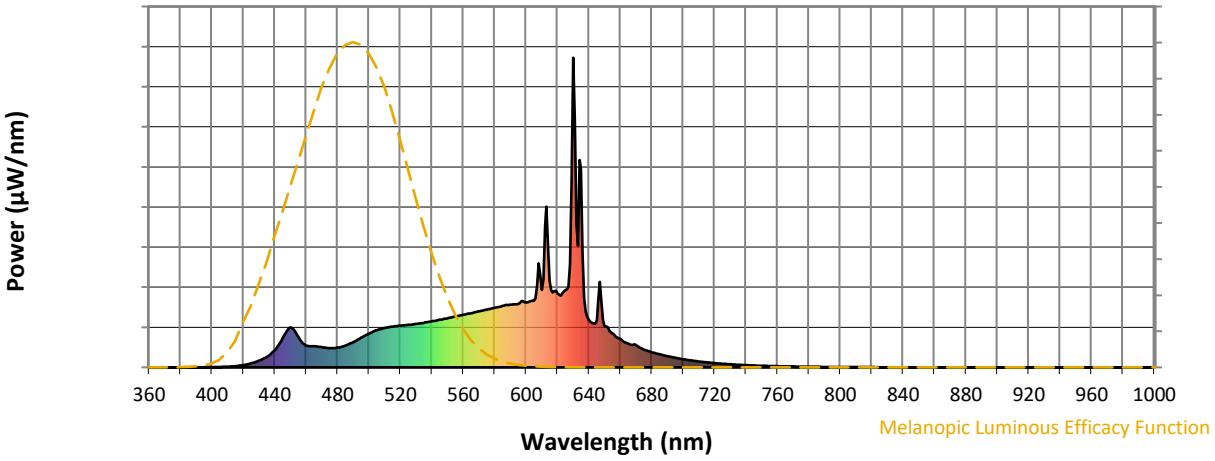


Scotopic Lumens: NR **S/P: 1.41**

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			

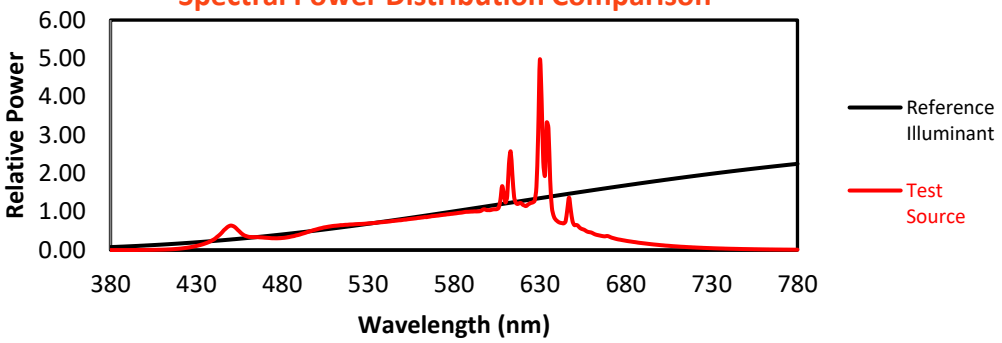
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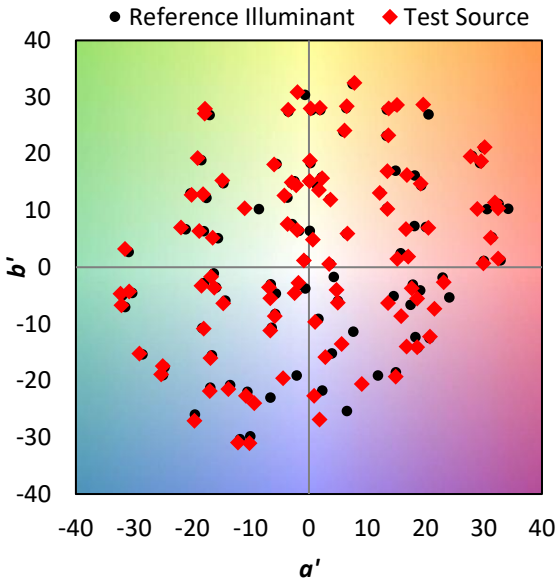
Summary

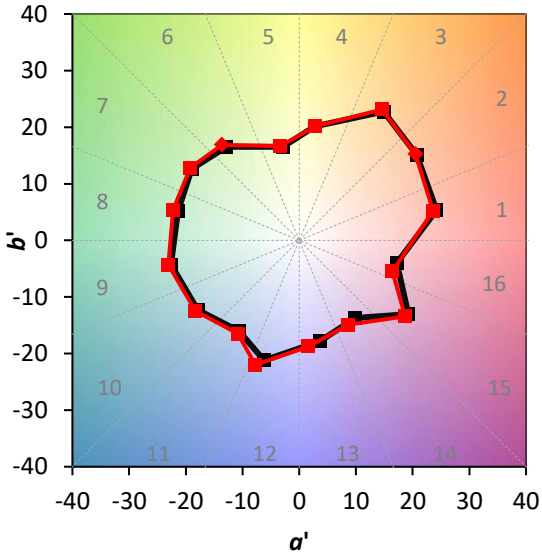
R_f = 93.8
R_g = 102.2
CIE R_a = 95.1
R_9 = 82.2

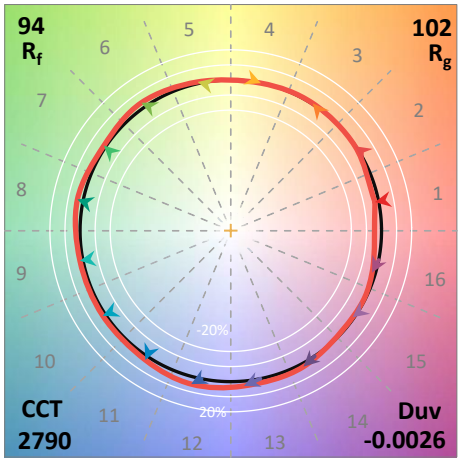
Spectral Power Distribution Comparison

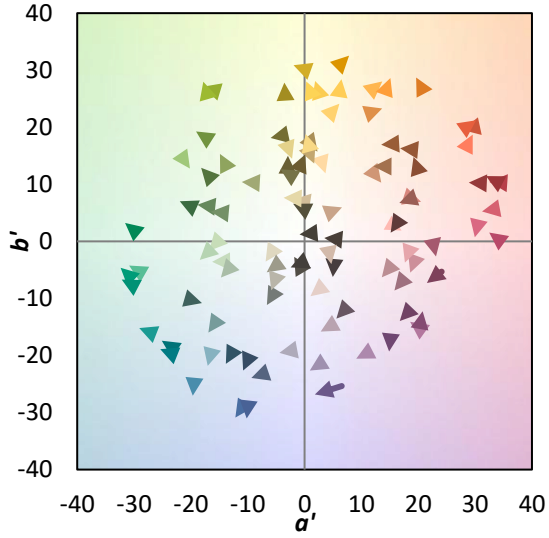


Color Vector Graphics







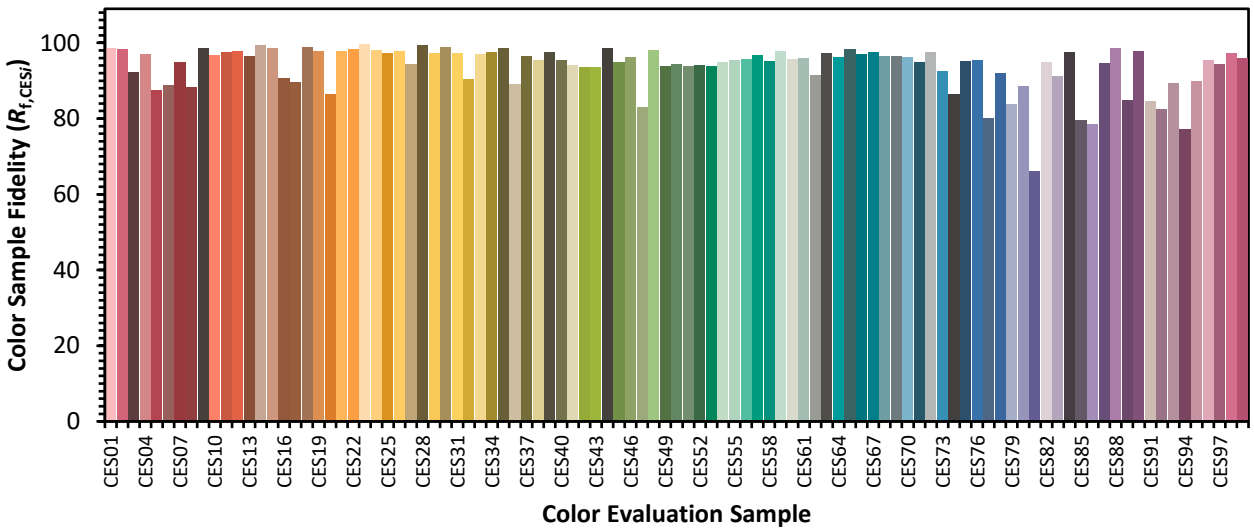


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Individual Sample Fidelity Index ($R_{f,i}$)

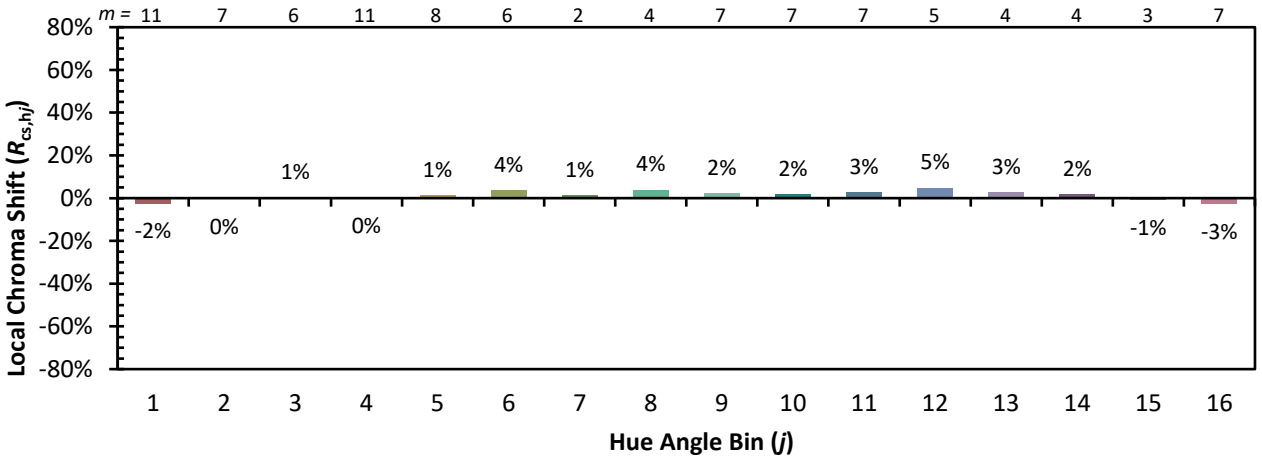
CES01 = 86	CES26 = 98	CES51 = 94	CES76 = 95
CES02 = 64	CES27 = 94	CES52 = 94	CES77 = 80
CES03 = 32	CES28 = 99	CES53 = 94	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 95	CES79 = 84
CES05 = 51	CES30 = 99	CES55 = 95	CES80 = 89
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 66
CES07 = 45	CES32 = 90	CES57 = 97	CES82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

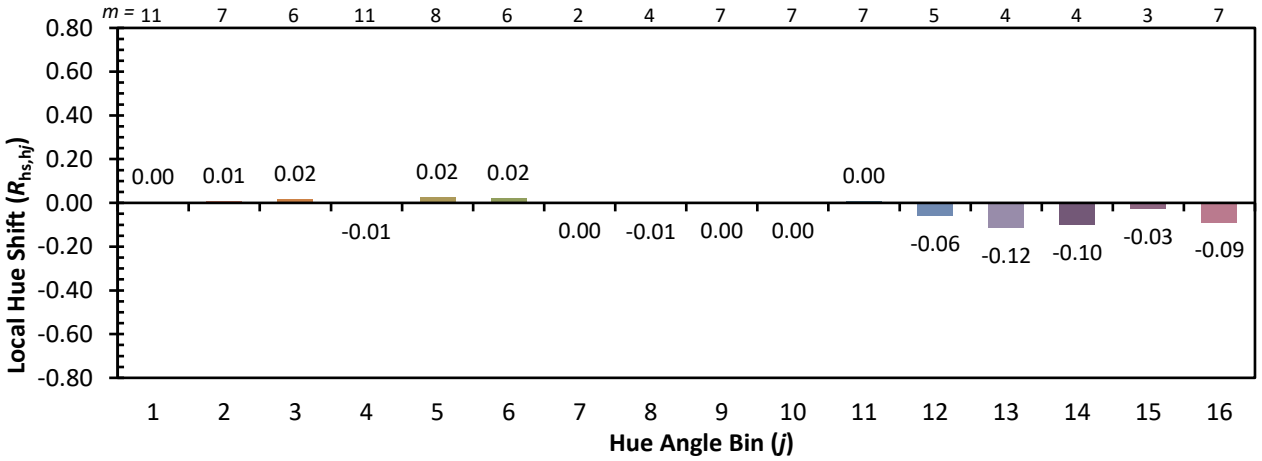


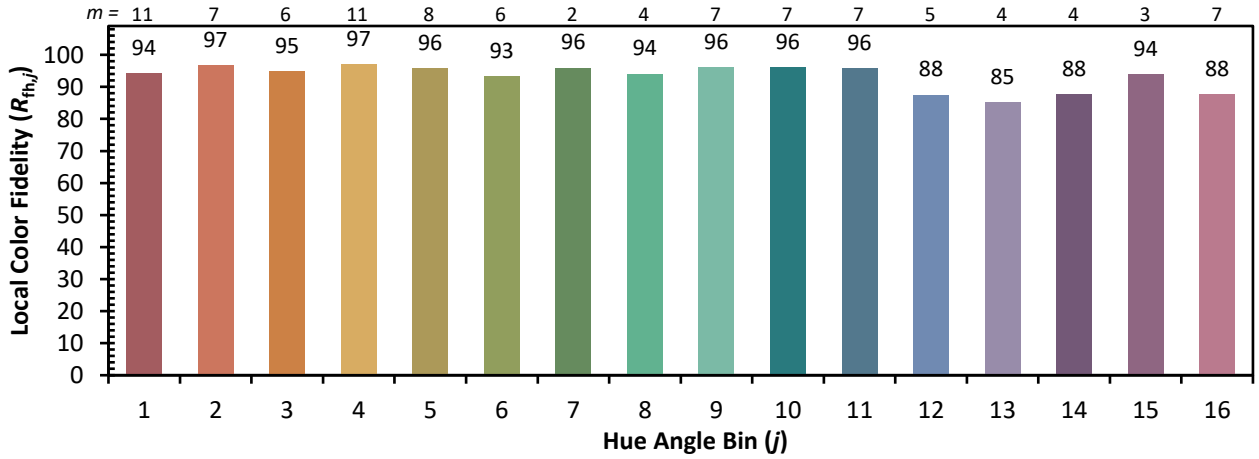
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Color Rendition by Hue-Angle Bin



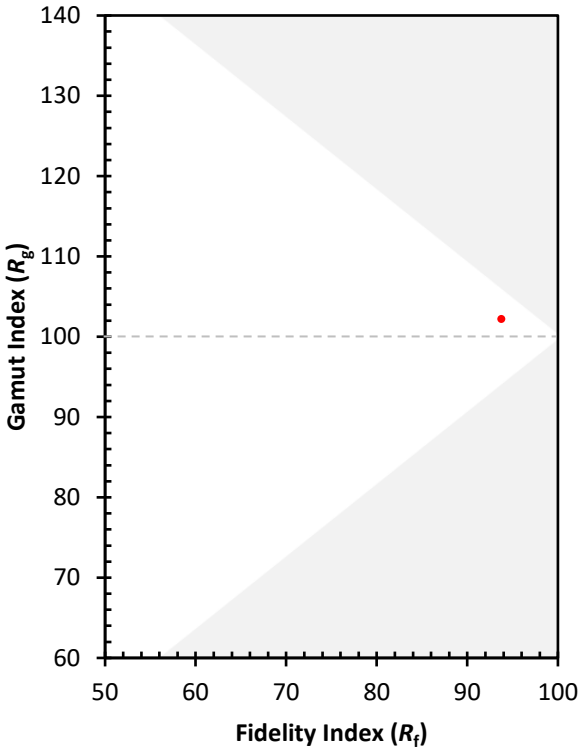


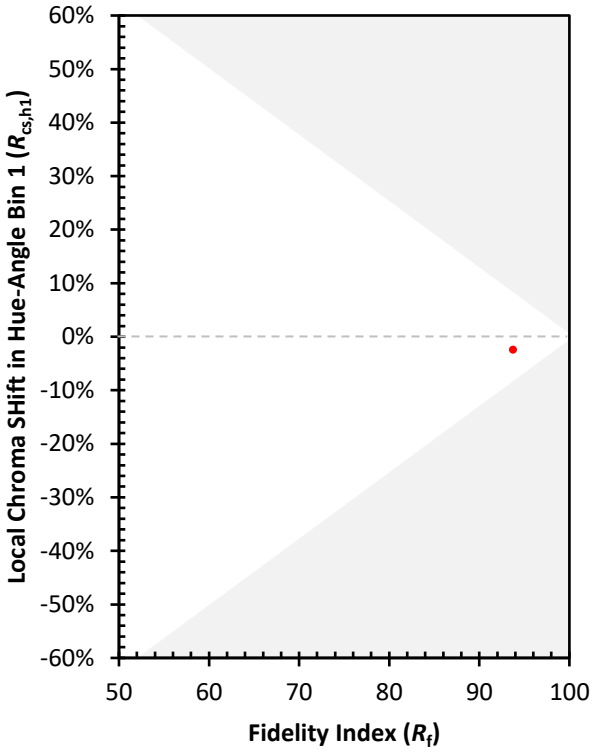


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Measure Comparisons





(END OF REPORT)