Signify Classified - Internal

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: P1559238

Luminaire Tested: 14CGTX-42-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:	P1559238
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/30/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	14CGTX-42-B2750-W2D-2700K
Description:	1X4 4200 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:	4099.4 lumens
Efficiency:	N/A
Efficacy:	94.9 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):	43.2
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

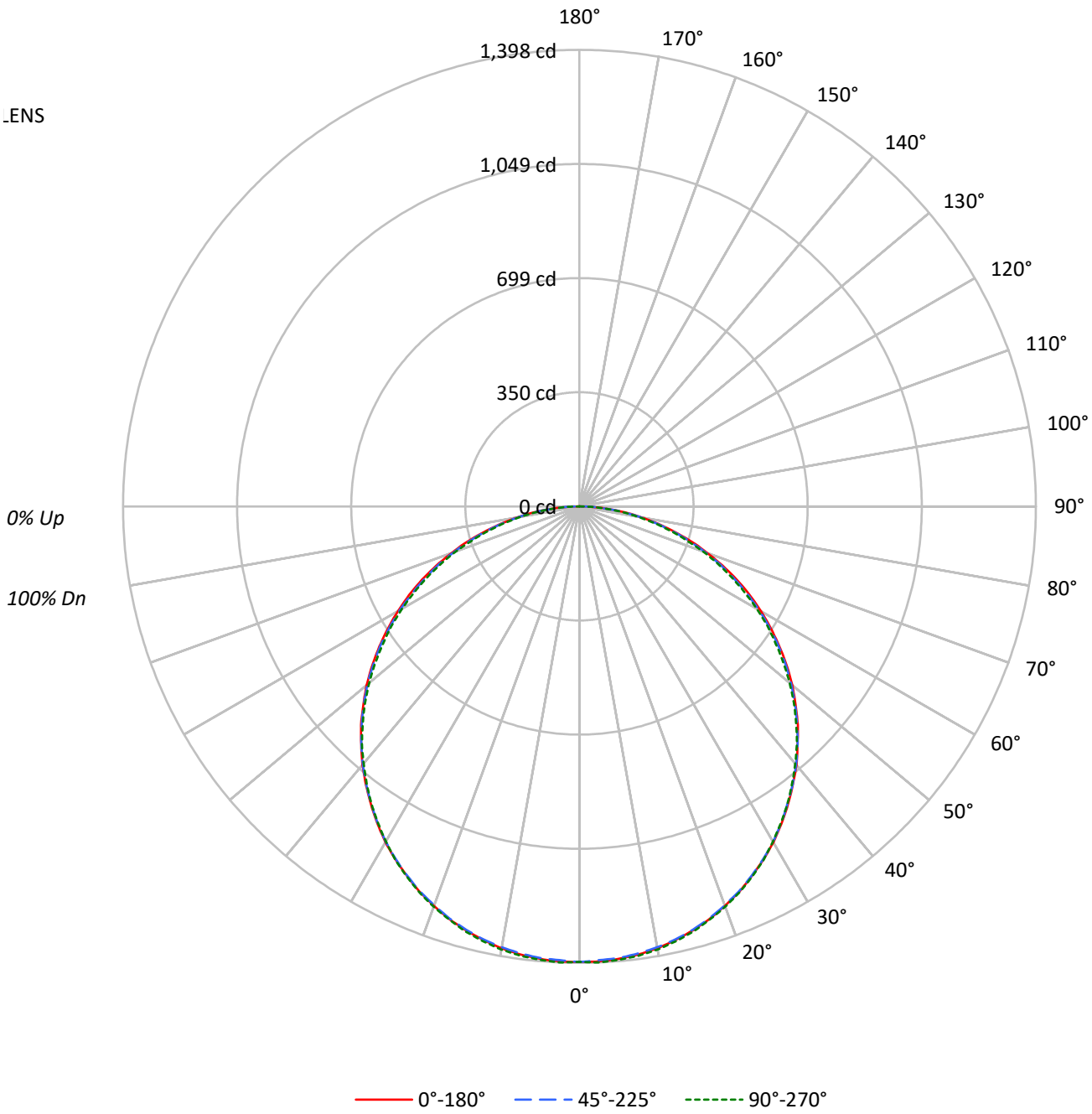


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Scaled Data Report

TEST NUMBER: P1559238
CATALOG NUMBER: 14CGTX-42-B2750-W2D-2700K

Luminous Intensity Polar Plot



LENS

0% Up

100% Dn

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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	77	73	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	33
8	60	46	38	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	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4760	4760	4760
5°	4765	4754	4775
10°	4761	4750	4775
15°	4748	4741	4762
20°	4728	4721	4739
25°	4702	4699	4710
30°	4681	4673	4669
35°	4640	4628	4628
40°	4606	4597	4579
45°	4565	4551	4526
50°	4518	4496	4459
55°	4450	4426	4367
60°	4381	4334	4279
65°	4295	4215	4150
70°	4150	4080	4001
75°	3982	3889	3784
80°	3753	3694	3498
85°	3367	3328	3132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4565 cd/sqm

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Scaled Data Report

TEST NUMBER: P1559238
CATALOG NUMBER: 14CGTX-42-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	3.2
10°-20°	379.5	9.3
20°-30°	576.1	14.1
30°-40°	696.4	17.0
40°-50°	726.9	17.7
50°-60°	664.1	16.2
60°-70°	517.0	12.6
70°-80°	312.9	7.6
80°-90°	94.3	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°	1087.8	26.5
0°-40°	1784.2	43.5
0°-60°	3175.2	77.5
0°-90°	4099.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1391	1391	1388	1393	1394	132
15°	1344	1344	1342	1347	1348	379
25°	1249	1249	1248	1252	1251	576
35°	1114	1115	1111	1112	1111	697
45°	946	945	943	940	938	729
55°	748	750	744	738	734	669
65°	532	530	522	516	514	525
75°	302	301	295	291	287	320
85°	86	85	85	81	80	99
90°	0	0	0	0	0	

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CATALOG NUMBER: 14CGTX-42-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395	1395	1395	1395	*1395*
2.5°	*1395*	*1395*	*1391*	*1397*	*1398*
5°	1391	1391	1388	1393	*1394*
7.5°	1384	1383	1381	1386	*1388*
10°	1374	1374	1371	1376	*1378*
12.5°	1360	1361	1358	1363	*1364*
15°	1344	1344	1342	1347	*1348*
17.5°	1325	1324	1323	1327	*1327*
20°	1302	1303	1300	1305	*1305*
22.5°	1278	1278	1276	1279	*1280*
25°	1249	1249	1248	1252	*1251*
27.5°	1220	1220	1218	1220	*1221*
30°	1188	1186	1186	1186	*1185*
32.5°	1152	1153	1150	1151	*1149*
35°	1114	1115	1111	1112	*1111*
37.5°	1074	1077	1073	1072	*1070*
40°	1034	1035	1032	1029	*1028*
42.5°	989	991	989	986	*986*
45°	946	945	943	940	*938*
47.5°	897	899	895	890	*891*
50°	851	852	847	841	*840*
52.5°	800	801	796	791	*788*
55°	748	750	744	738	*734*
57.5°	695	696	689	685	*683*
60°	642	640	635	630	*627*
62.5°	588	584	578	574	*570*
65°	532	530	522	516	*514*
67.5°	474	471	467	460	*458*
70°	416	415	409	401	*401*
72.5°	361	358	353	348	*342*
75°	302	301	295	291	*287*
77.5°	246	246	241	237	*233*
80°	191	192	188	181	*178*
82.5°	141	139	135	129	*130*
85°	86	85	85	81	*80*
87.5°	40	36	35	34	*34*
90°	0	0	0	0	*0*

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TEST NUMBER: P1559238
CATALOG NUMBER: 14CGTX-42-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	17.40	19.06	17.77	19.37	19.69	17.29	18.95	17.65	19.26	19.58
	3H	19.33	20.83	19.70	21.16	21.52	19.17	20.67	19.54	21.00	21.36
	4H	20.08	21.50	20.48	21.85	22.23	19.89	21.31	20.29	21.66	22.03
	6H	20.68	21.99	21.09	22.36	22.75	20.45	21.77	20.86	22.13	22.52
	8H	20.89	22.15	21.31	22.54	22.93	20.64	21.90	21.07	22.29	22.69
	12H	21.04	22.24	21.46	22.62	23.05	20.78	21.99	21.21	22.37	22.80
4H	2H	18.05	19.47	18.45	19.82	20.19	17.96	19.38	18.36	19.73	20.10
	3H	20.21	21.40	20.62	21.80	22.20	20.07	21.26	20.48	21.66	22.06
	4H	21.10	22.19	21.53	22.60	23.03	20.93	22.01	21.36	22.43	22.86
	6H	21.84	22.79	22.29	23.23	23.68	21.63	22.58	22.08	23.02	23.47
	8H	22.11	23.00	22.57	23.44	23.90	21.87	22.76	22.33	23.20	23.67
	12H	22.31	23.11	22.79	23.58	24.05	22.06	22.86	22.53	23.33	23.80
8H	4H	21.45	22.34	21.91	22.78	23.24	21.30	22.19	21.76	22.63	23.09
	6H	22.32	23.07	22.82	23.55	24.03	22.13	22.87	22.62	23.36	23.83
	8H	22.68	23.35	23.19	23.85	24.34	22.45	23.12	22.96	23.62	24.11
	12H	22.97	23.55	23.47	24.04	24.60	22.72	23.31	23.22	23.80	24.36
12H	4H	21.49	22.29	21.97	22.77	23.23	21.35	22.15	21.83	22.62	23.09
	6H	22.40	23.06	22.90	23.57	24.05	22.21	22.88	22.72	23.38	23.87
	8H	22.82	23.40	23.32	23.89	24.45	22.60	23.19	23.10	23.68	24.24

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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

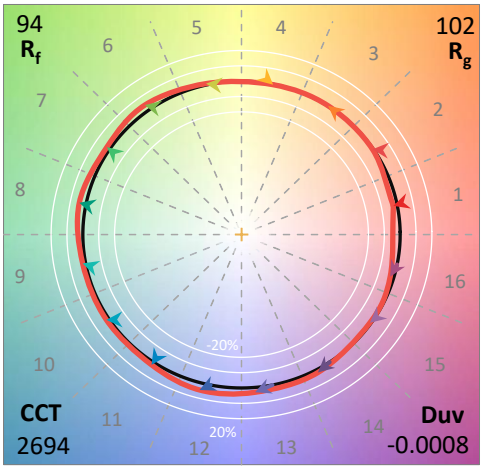
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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				



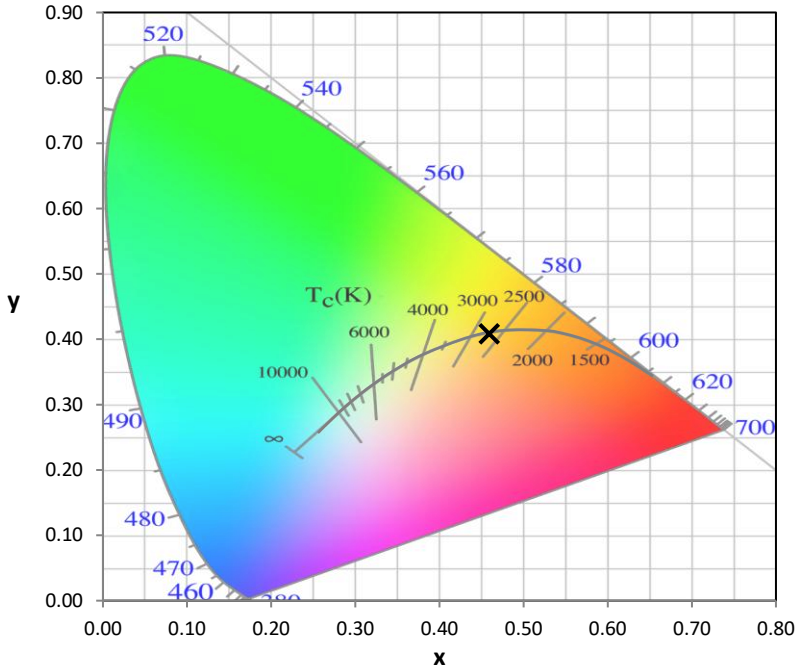
Test Conditions

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

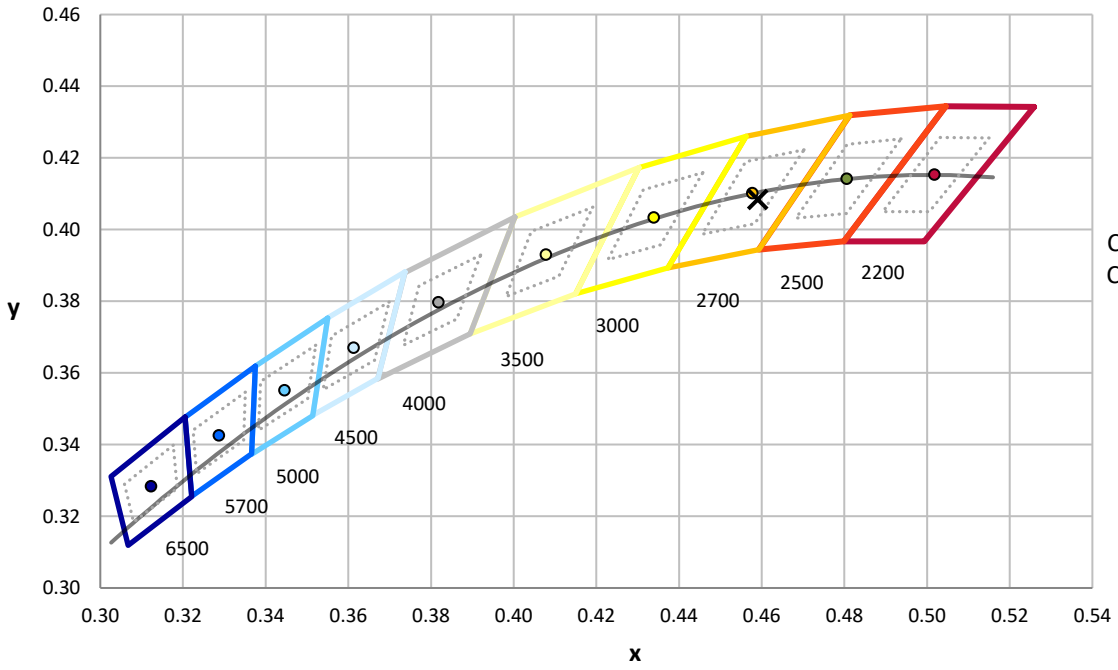
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

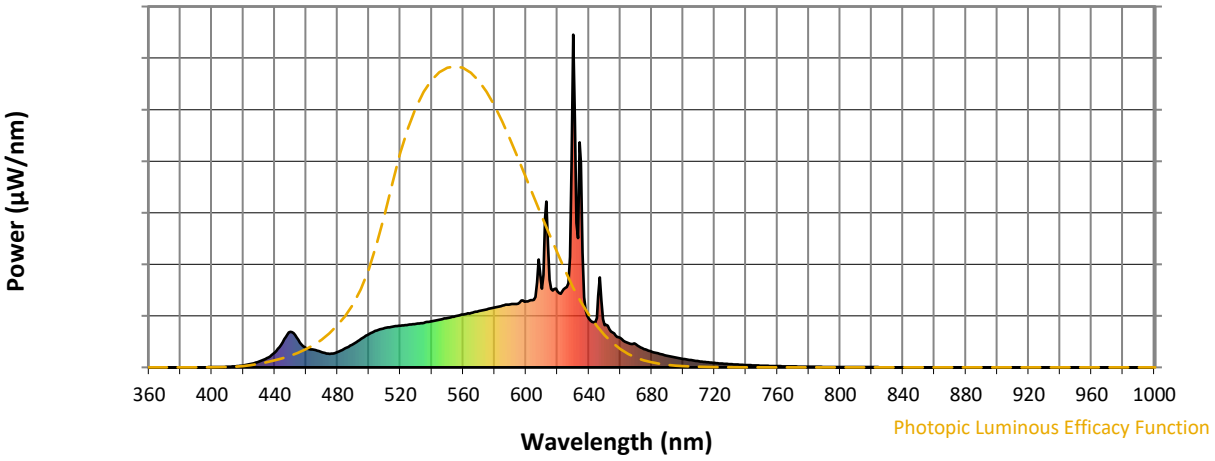


CCT = 2694K
CIE x = 0.4590
CIE y = 0.4084
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

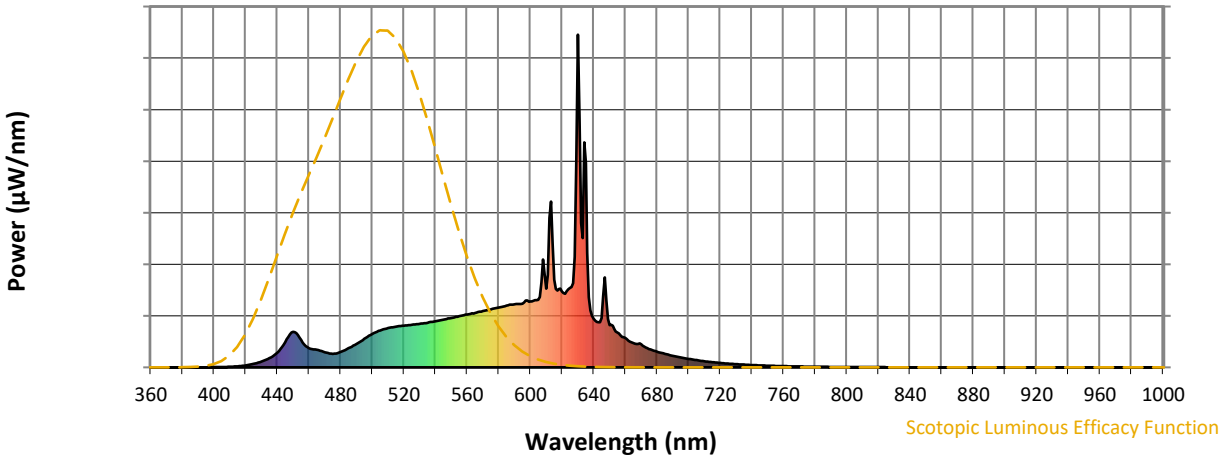


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

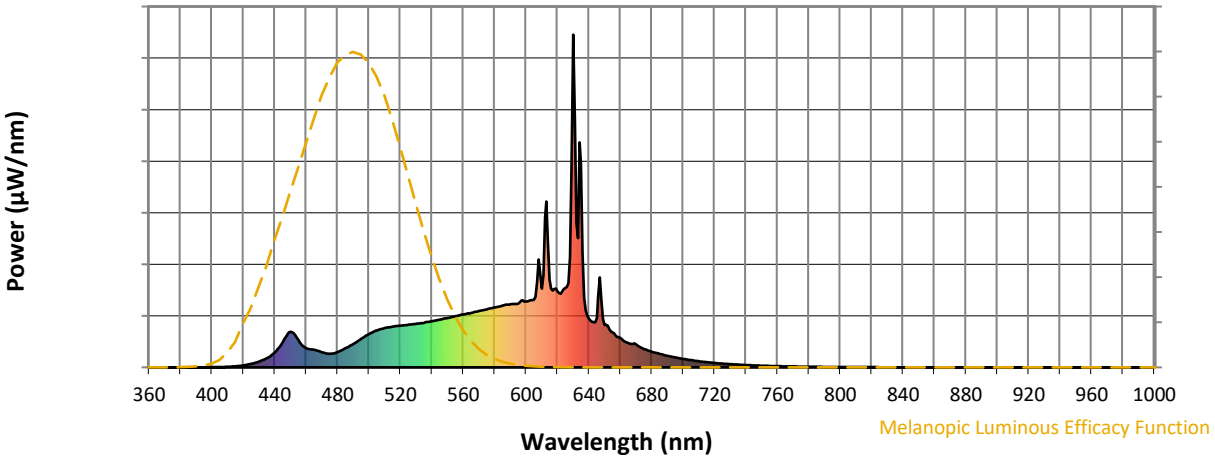


Scotopic Lumens: NR **S/P: 1.34**

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			

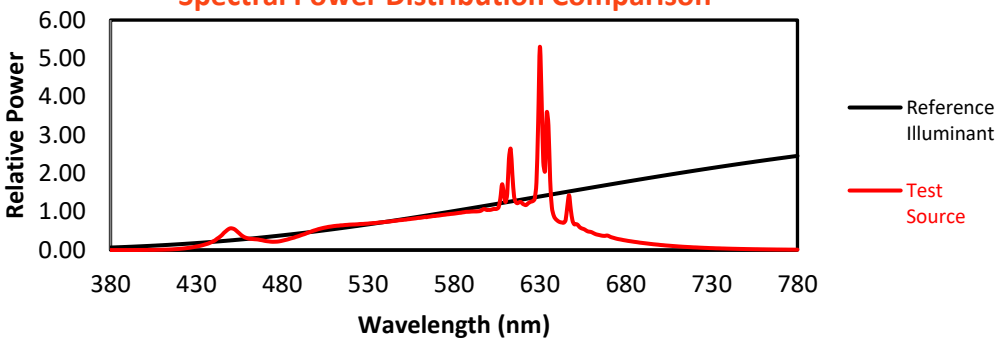
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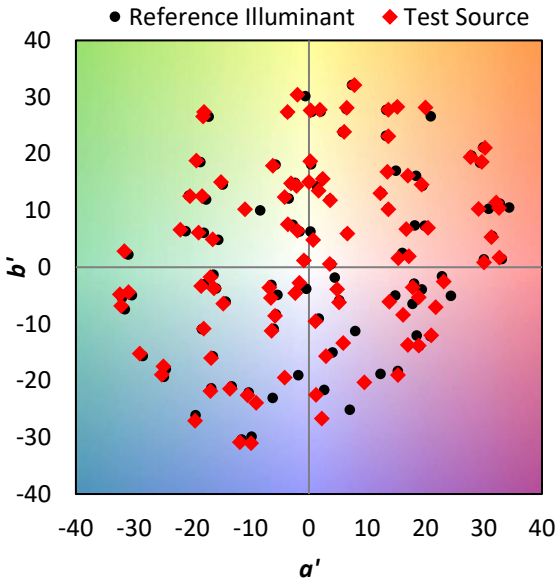
Summary

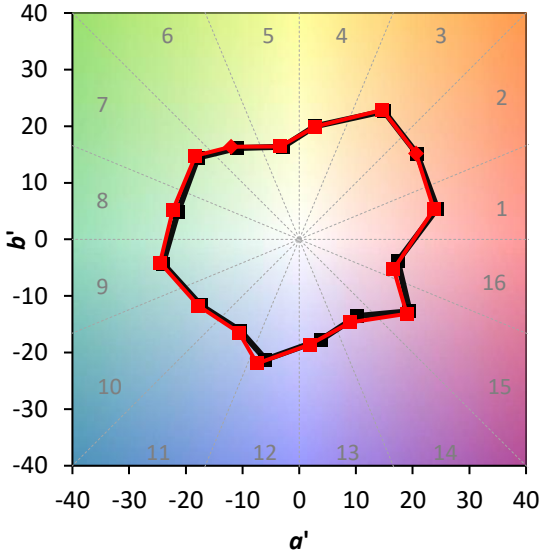
R_f = 93.8
R_g = 102
CIE R_a = 95.4
R_9 = 80.8

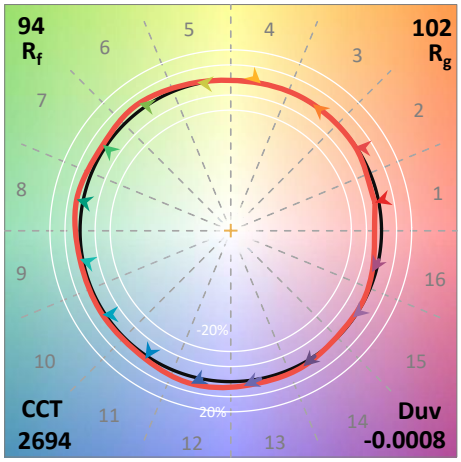
Spectral Power Distribution Comparison

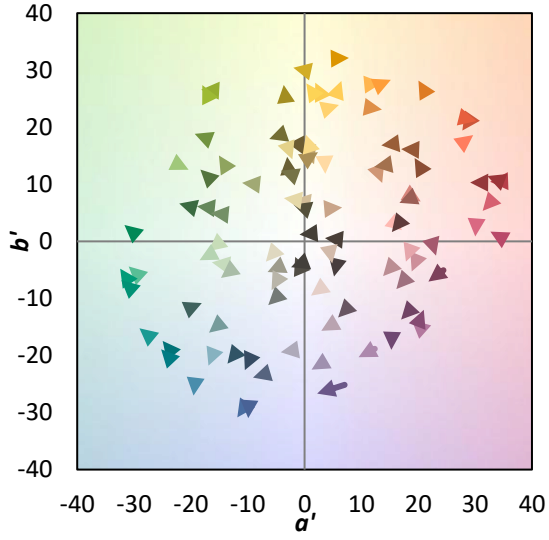


Color Vector Graphics







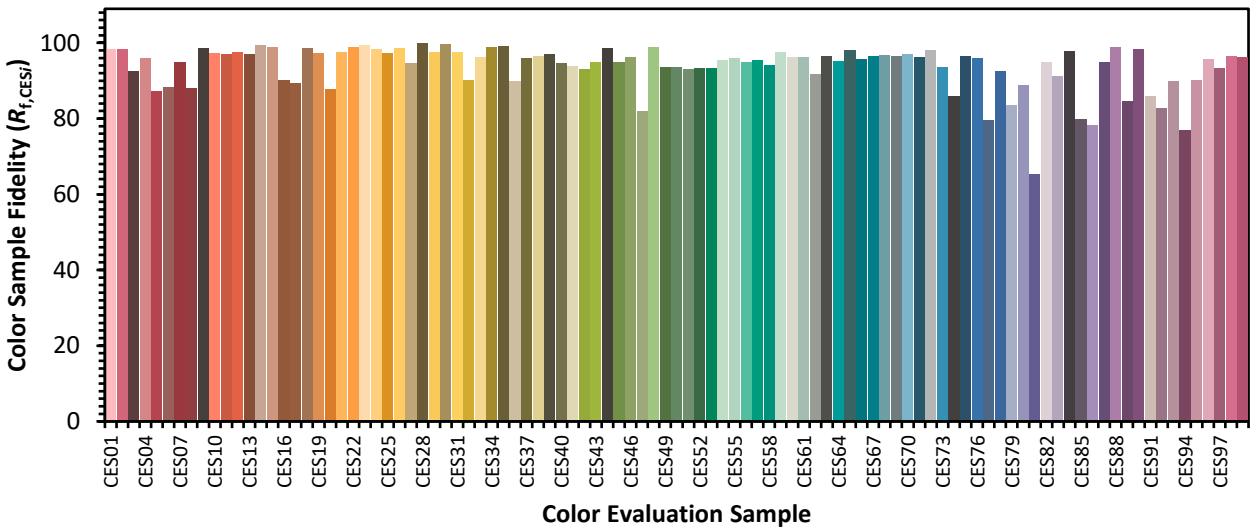


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Individual Sample Fidelity Index ($R_{f,i}$)

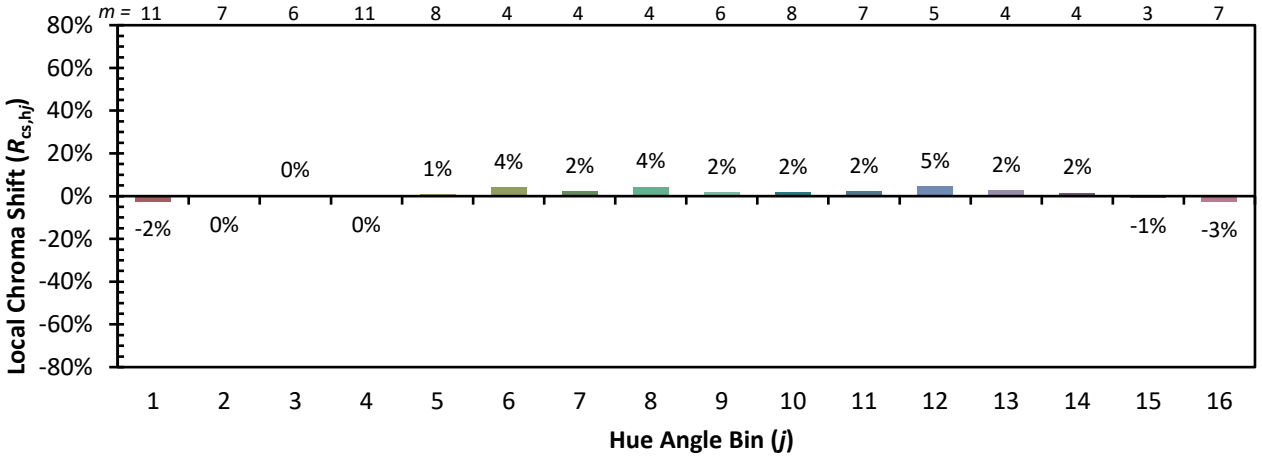
CES01 = 86	CES26 = 99	CES51 = 93	CES76 = 96
CES02 = 64	CES27 = 95	CES52 = 93	CES77 = 79
CES03 = 32	CES28 = 100	CES53 = 93	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 96	CES79 = 84
CES05 = 52	CES30 = 100	CES55 = 96	CES80 = 89
CES06 = 51	CES31 = 98	CES56 = 95	CES81 = 65
CES07 = 45	CES32 = 90	CES57 = 95	CES82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

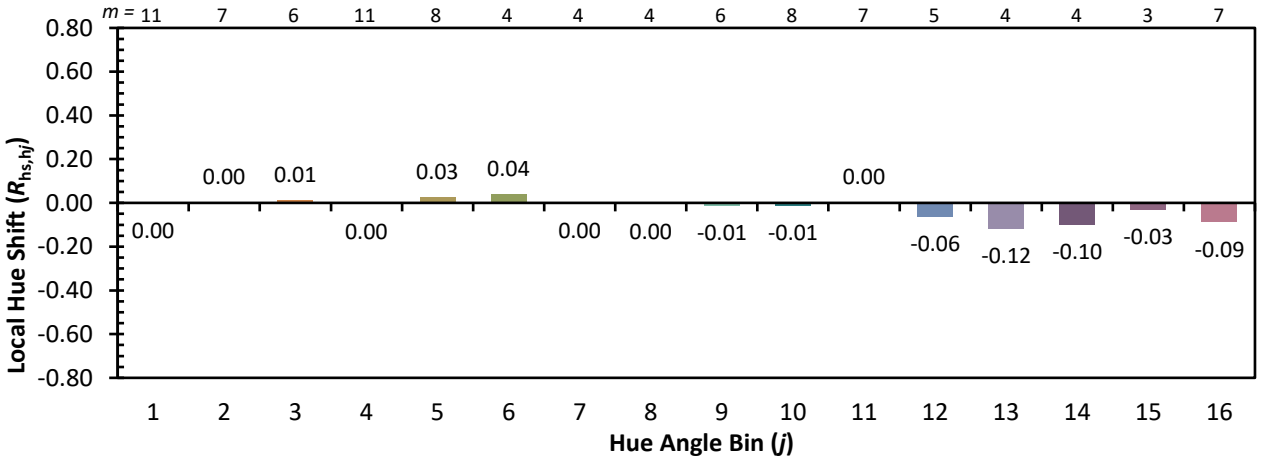


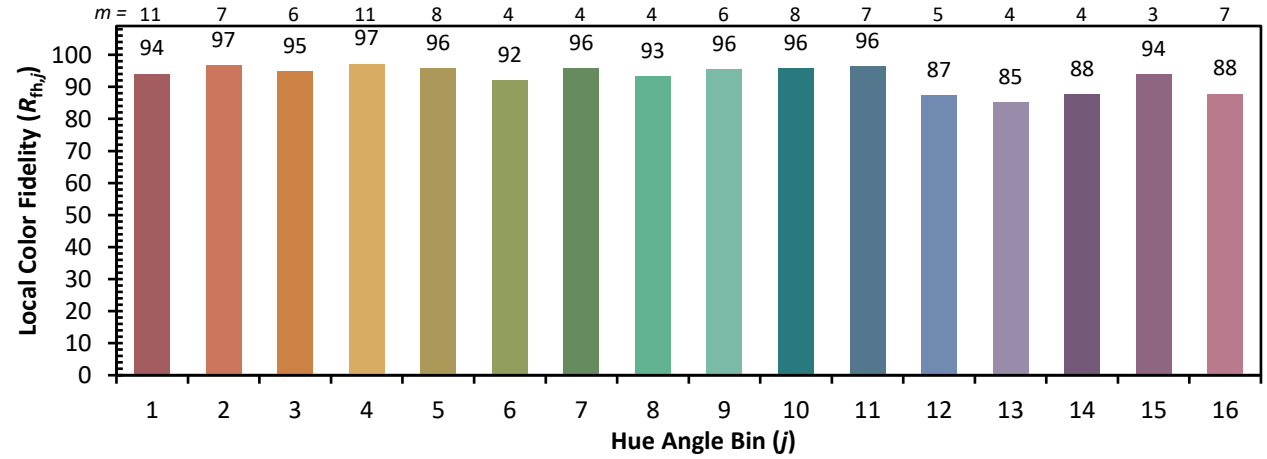
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Color Rendition by Hue-Angle Bin



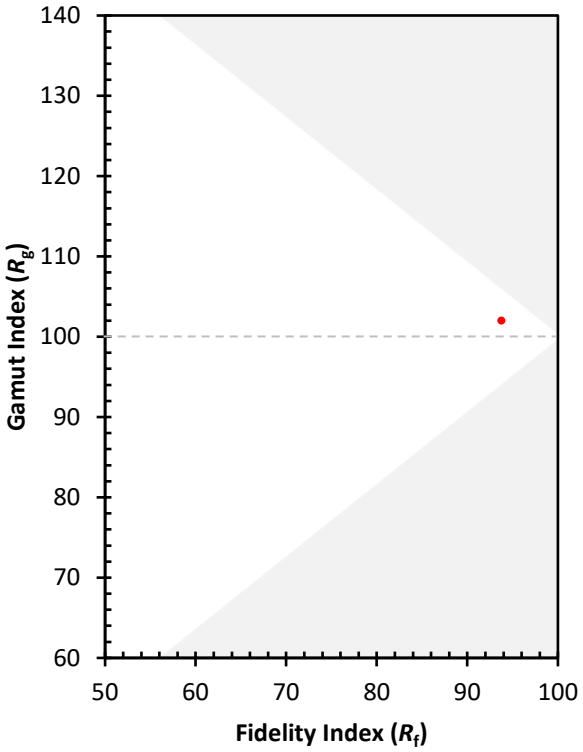


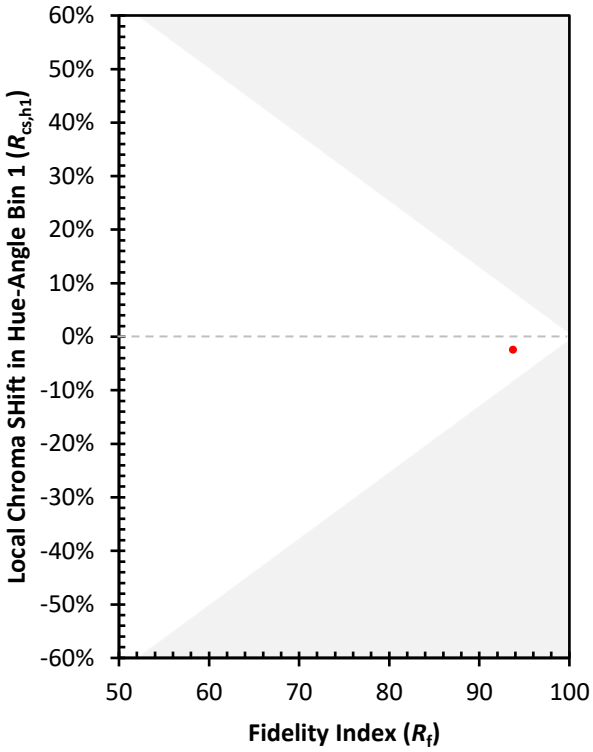


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Measure Comparisons





(END OF REPORT)