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: P1559232

Luminaire Tested: 14CGTX-30-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:	P1559232
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/30/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	14CGTX-30-B2750-W2D-2700K
Description:	1X4 3000 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:	3069.3 lumens
Efficiency:	N/A
Efficacy:	101.3 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):	30.3
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

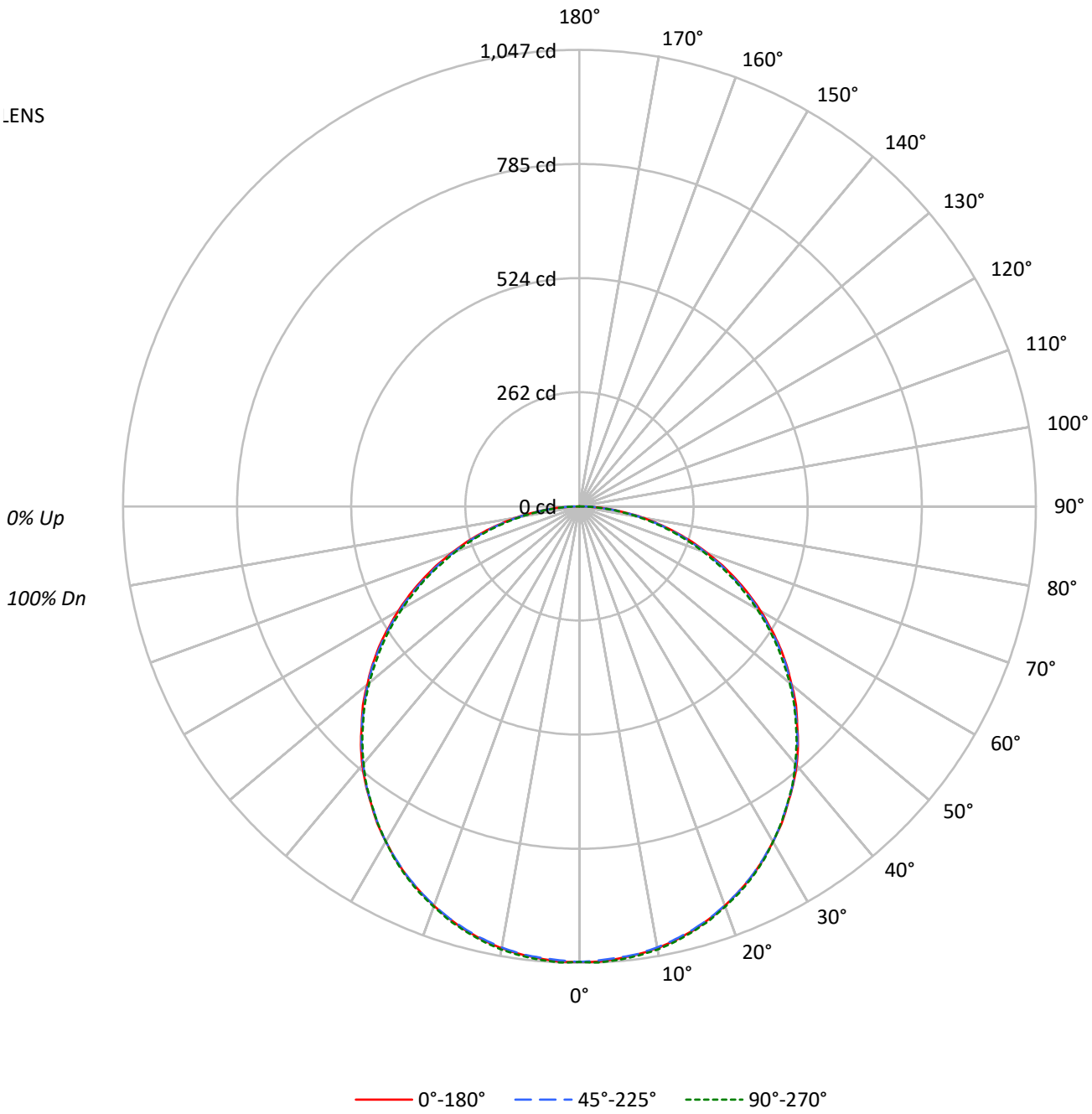


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Scaled Data Report

TEST NUMBER: P1559232
CATALOG NUMBER: 14CGTX-30-B2750-W2D-2700K

Luminous Intensity Polar Plot



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TEST NUMBER: P1559232
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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°	3566	3566	3566
5°	3566	3559	3576
10°	3565	3558	3576
15°	3557	3550	3564
20°	3540	3537	3548
25°	3524	3520	3532
30°	3499	3499	3499
35°	3470	3466	3466
40°	3452	3439	3430
45°	3407	3402	3388
50°	3371	3360	3339
55°	3337	3314	3278
60°	3276	3242	3207
65°	3205	3149	3117
70°	3103	3053	2993
75°	2993	2914	2848
80°	2869	2771	2633
85°	2584	2427	2310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 3412 cd/sqm

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Scaled Data Report

TEST NUMBER: P1559232
CATALOG NUMBER: 14CGTX-30-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.2
10°-20°	284.2	9.3
20°-30°	431.4	14.1
30°-40°	521.5	17.0
40°-50°	544.0	17.7
50°-60°	497.2	16.2
60°-70°	387.0	12.6
70°-80°	234.6	7.6
80°-90°	70.5	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°	814.7	26.5
0°-40°	1336.1	43.5
0°-60°	2377.3	77.5
0°-90°	3069.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3069.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1041	1042	1039	1043	1044	99
15°	1007	1006	1005	1009	1009	284
25°	936	936	935	937	938	431
35°	833	835	832	833	832	522
45°	706	707	705	704	702	546
55°	561	561	557	554	551	501
65°	397	396	390	386	386	393
75°	227	226	221	217	216	240
85°	66	63	62	60	59	74
90°	0	0	0	0	0	

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TEST NUMBER: P1559232
CATALOG NUMBER: 14CGTX-30-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045	1045	1045	1045	*1045*
2.5°	*1045*	*1045*	*1042*	*1046*	*1047*
5°	1041	1042	1039	1043	*1044*
7.5°	1036	1036	1035	1038	*1039*
10°	1029	1029	1027	1031	*1032*
12.5°	1019	1019	1017	1021	*1022*
15°	1007	1006	1005	1009	*1009*
17.5°	992	992	991	994	*995*
20°	975	975	974	977	*977*
22.5°	956	957	956	958	*959*
25°	936	936	935	937	*938*
27.5°	913	913	912	914	*915*
30°	888	888	888	888	*888*
32.5°	863	863	861	861	*861*
35°	833	835	832	833	*832*
37.5°	805	806	804	803	*803*
40°	775	774	772	772	*770*
42.5°	742	741	740	738	*737*
45°	706	707	705	704	*702*
47.5°	674	672	669	667	*667*
50°	635	637	633	631	*629*
52.5°	599	598	597	593	*590*
55°	561	561	557	554	*551*
57.5°	520	521	516	512	*511*
60°	480	479	475	472	*470*
62.5°	439	437	434	429	*427*
65°	397	396	390	386	*386*
67.5°	355	354	349	345	*341*
70°	311	310	306	302	*300*
72.5°	271	269	265	259	*258*
75°	227	226	221	217	*216*
77.5°	185	185	181	177	*175*
80°	146	143	141	135	*134*
82.5°	104	103	101	98	*95*
85°	66	63	62	60	*59*
87.5°	29	29	26	26	*24*
90°	0	0	0	0	*0*

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TEST NUMBER: P1559232
CATALOG NUMBER: 14CGTX-30-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	16.39	18.05	16.76	18.37	18.68	16.27	17.93	16.64	18.25	18.56
	3H	18.32	19.83	18.70	20.15	20.51	18.16	19.66	18.53	19.99	20.35
	4H	19.08	20.50	19.48	20.85	21.23	18.89	20.31	19.28	20.65	21.03
	6H	19.69	21.00	20.10	21.37	21.76	19.45	20.77	19.86	21.13	21.52
	8H	19.89	21.15	20.32	21.54	21.94	19.64	20.90	20.06	21.28	21.68
	12H	20.04	21.25	20.47	21.63	22.06	19.77	20.97	20.19	21.35	21.78
4H	2H	17.04	18.46	17.44	18.81	19.18	16.95	18.36	17.34	18.71	19.09
	3H	19.20	20.39	19.61	20.79	21.19	19.06	20.25	19.47	20.65	21.05
	4H	20.10	21.19	20.53	21.60	22.03	19.92	21.01	20.35	21.42	21.85
	6H	20.85	21.80	21.30	22.24	22.69	20.62	21.57	21.07	22.01	22.46
	8H	21.11	22.00	21.57	22.44	22.91	20.86	21.75	21.32	22.19	22.66
	12H	21.31	22.11	21.79	22.59	23.05	21.04	21.84	21.52	22.31	22.78
8H	4H	20.45	21.34	20.91	21.78	22.24	20.29	21.18	20.75	21.62	22.08
	6H	21.33	22.07	21.82	22.56	23.03	21.12	21.86	21.61	22.35	22.82
	8H	21.68	22.34	22.19	22.85	23.33	21.45	22.11	21.95	22.62	23.10
	12H	21.96	22.55	22.47	23.04	23.60	21.71	22.29	22.21	22.78	23.34
12H	4H	20.49	21.29	20.97	21.77	22.23	20.34	21.14	20.82	21.61	22.08
	6H	21.40	22.07	21.91	22.57	23.06	21.20	21.87	21.71	22.37	22.86
	8H	21.81	22.40	22.32	22.89	23.45	21.59	22.18	22.10	22.67	23.23

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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

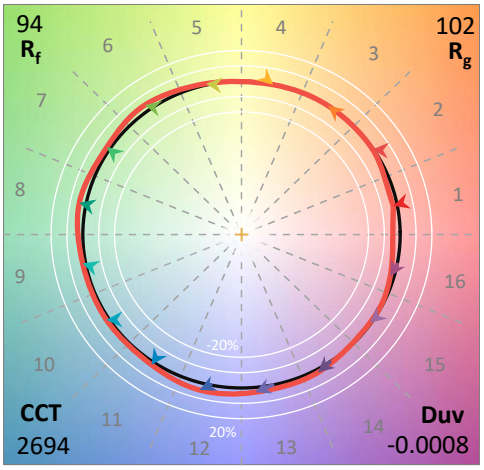
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Version: v7.04

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				



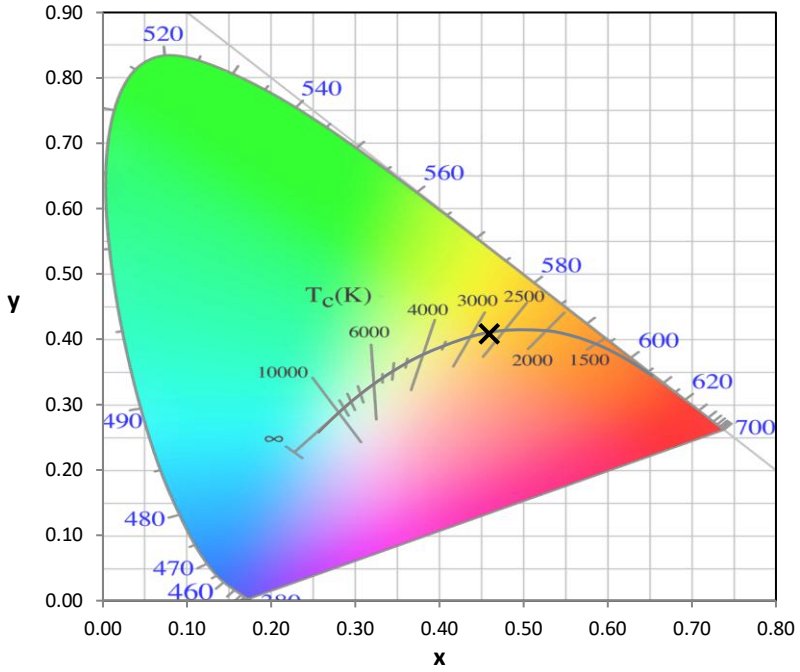
Test Conditions

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

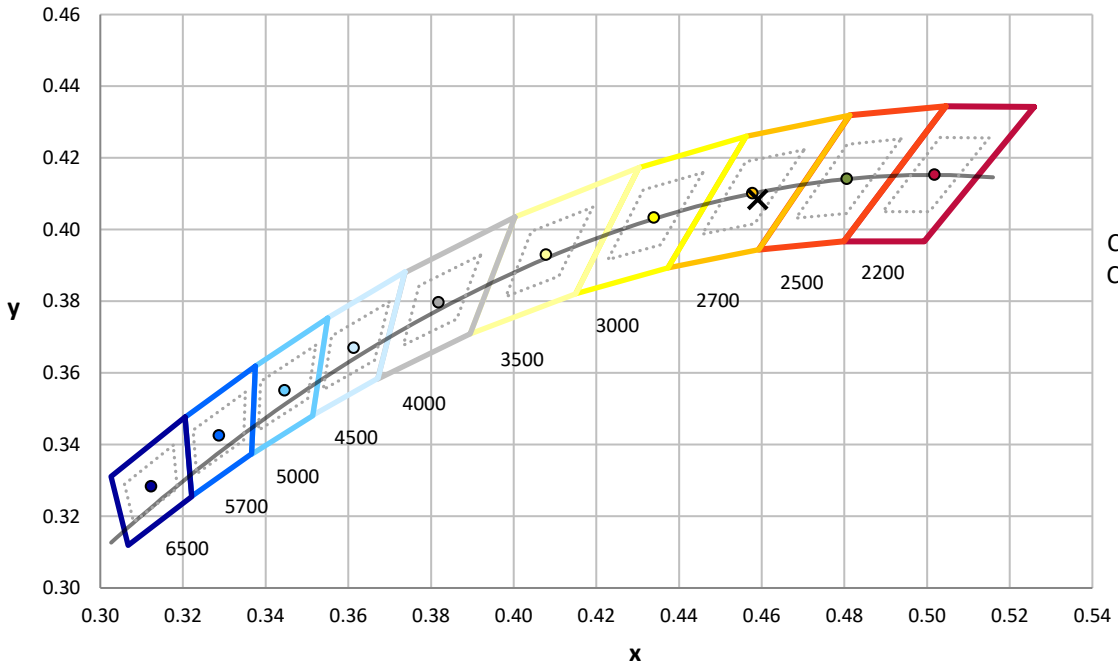
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

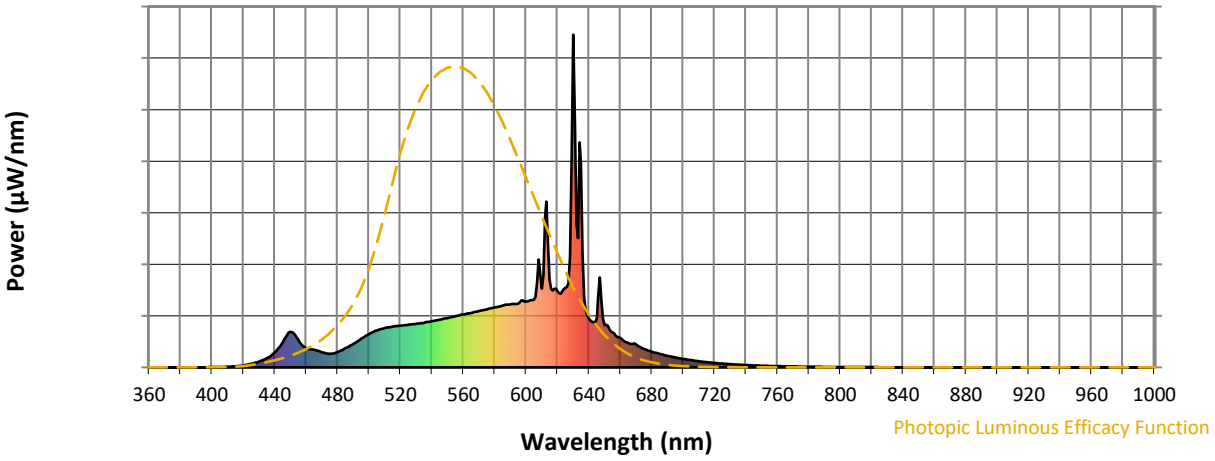


CCT = 2694K
CIE x = 0.4590
CIE y = 0.4084
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

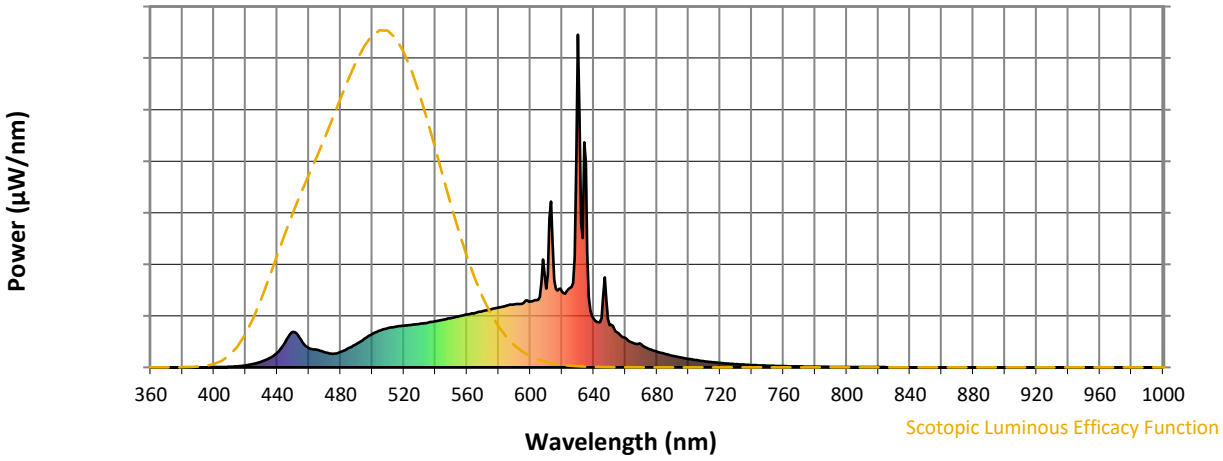


Photopic Lumens: NR

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

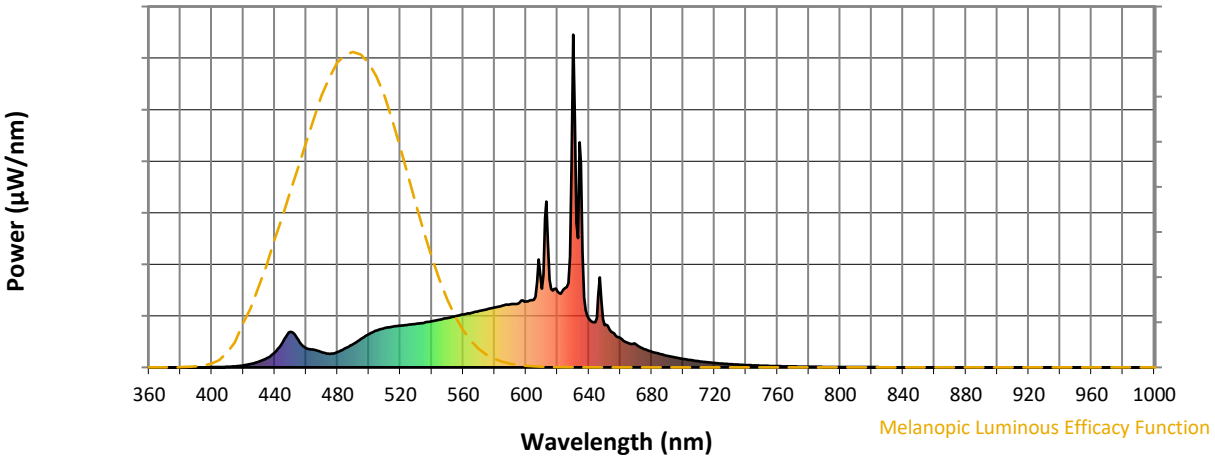


Scotopic Lumens: NR **S/P: 1.34**

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			

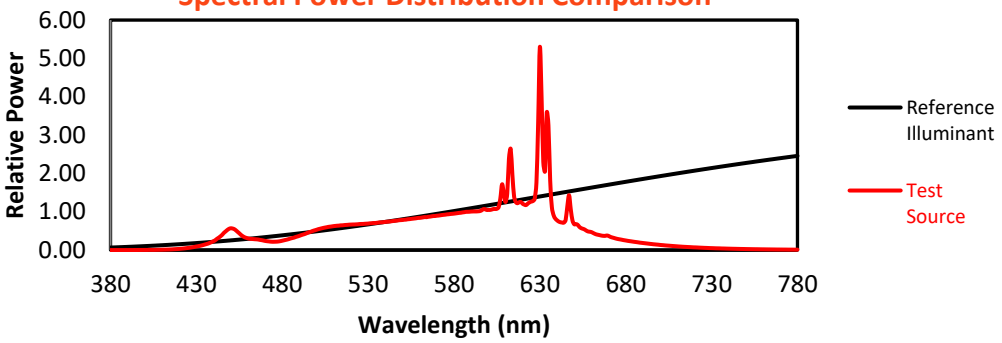
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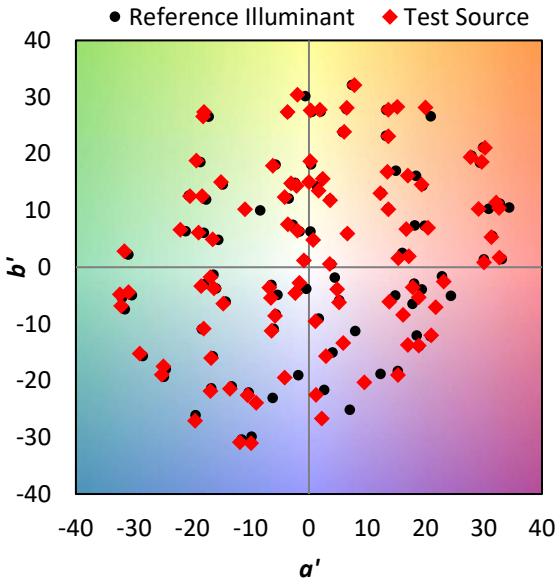
Summary

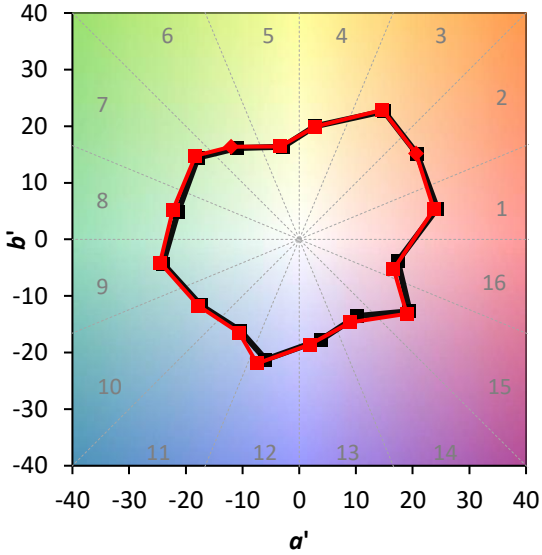
R_f = 93.8
R_g = 102
CIE R_a = 95.4
R_9 = 80.8

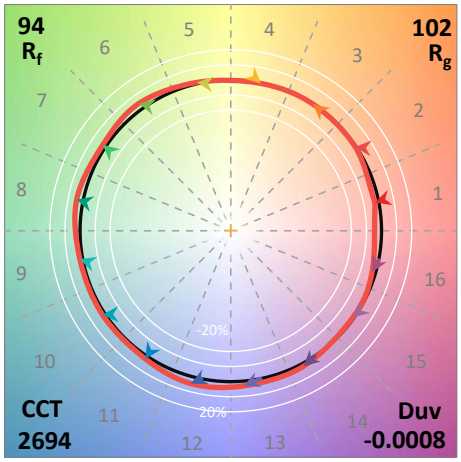
Spectral Power Distribution Comparison

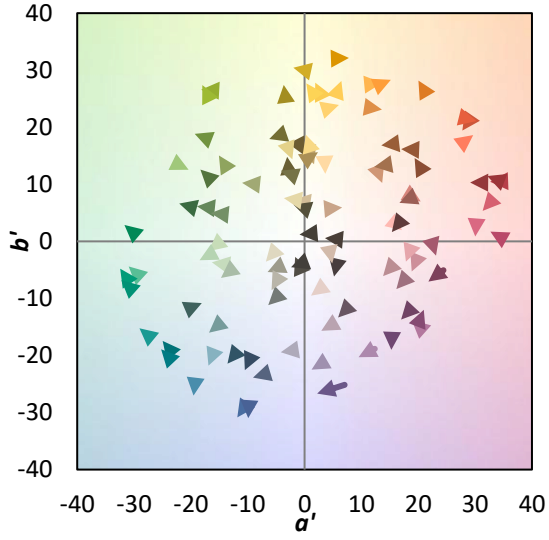


Color Vector Graphics







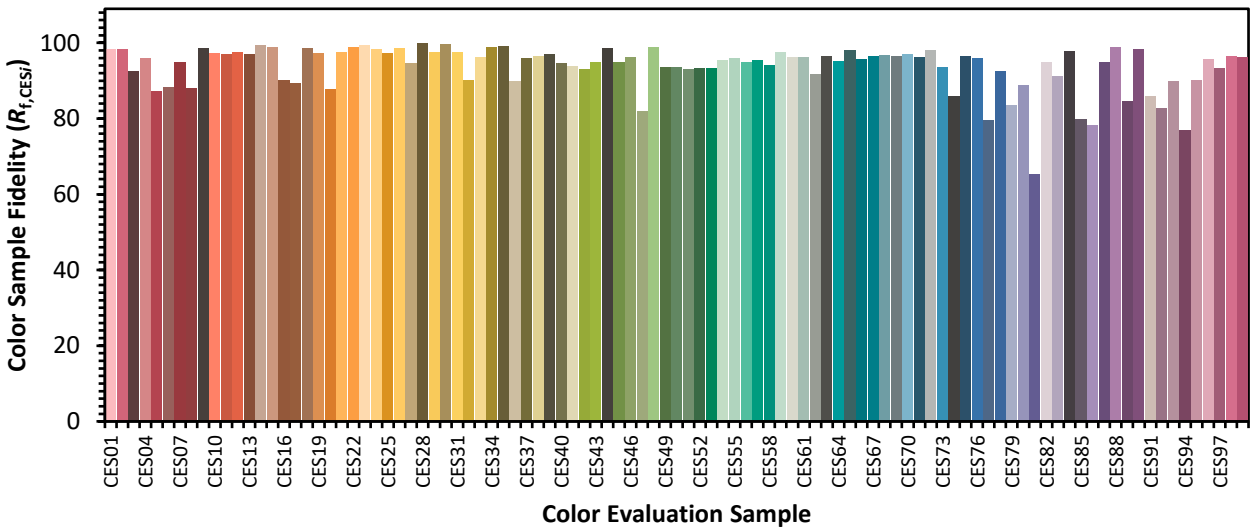


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Individual Sample Fidelity Index ($R_{f,i}$)

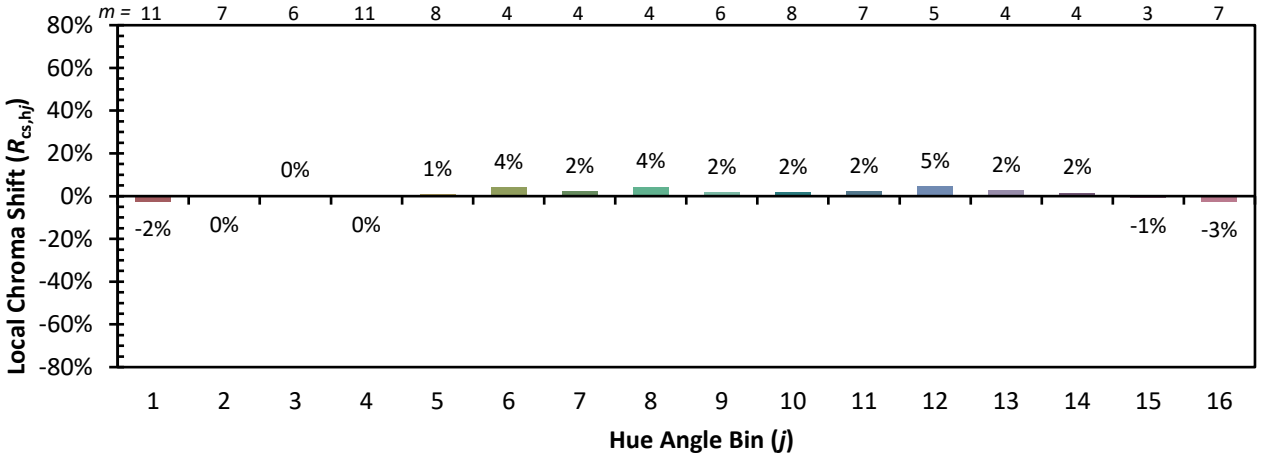
CES01 = 86	CES26 = 99	CES51 = 93	CES76 = 96
CES02 = 64	CES27 = 95	CES52 = 93	CES77 = 79
CES03 = 32	CES28 = 100	CES53 = 93	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 96	CES79 = 84
CES05 = 52	CES30 = 100	CES55 = 96	CES80 = 89
CES06 = 51	CES31 = 98	CES56 = 95	CES81 = 65
CES07 = 45	CES32 = 90	CES57 = 95	CES82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

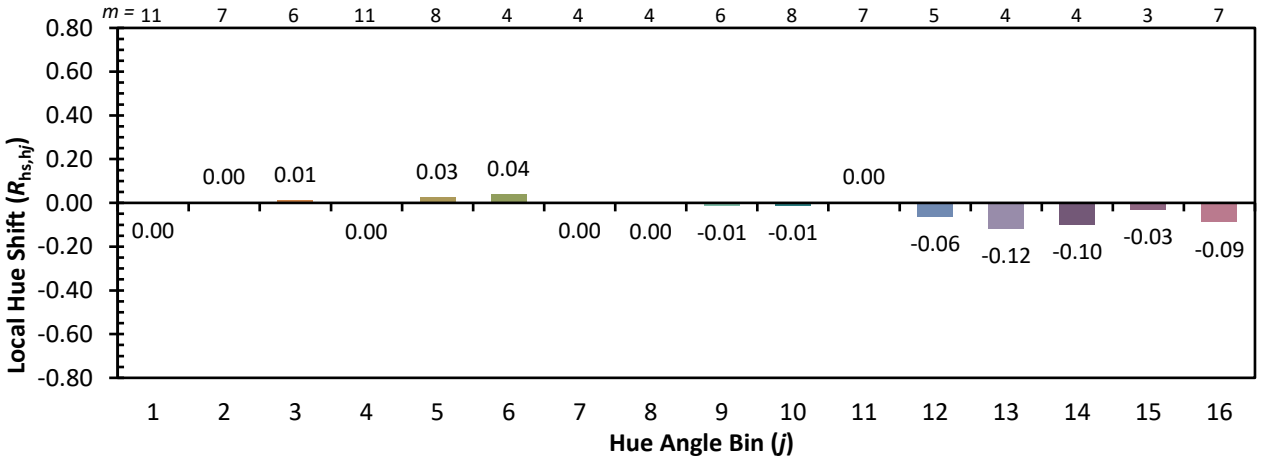


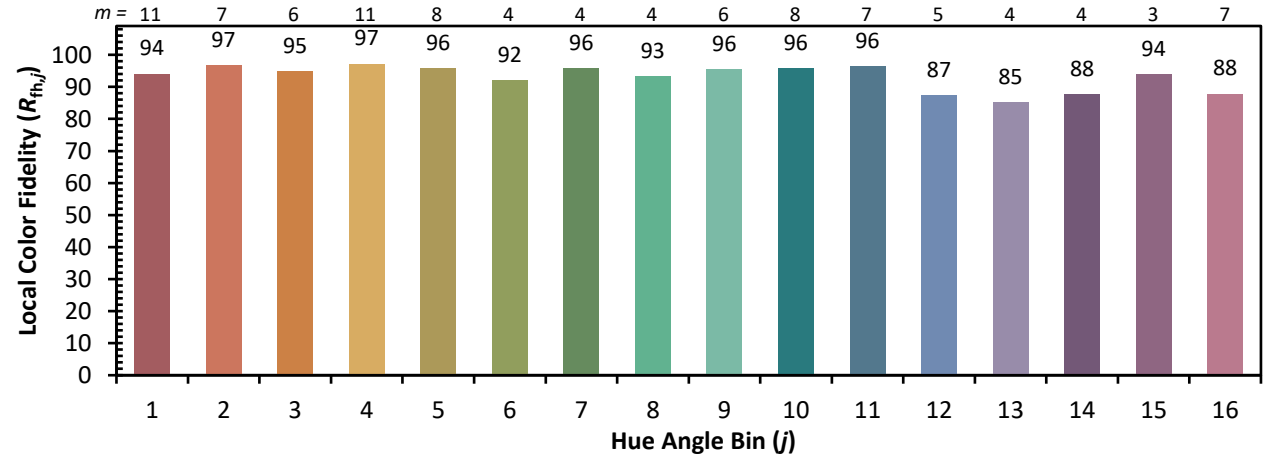
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Color Rendition by Hue-Angle Bin



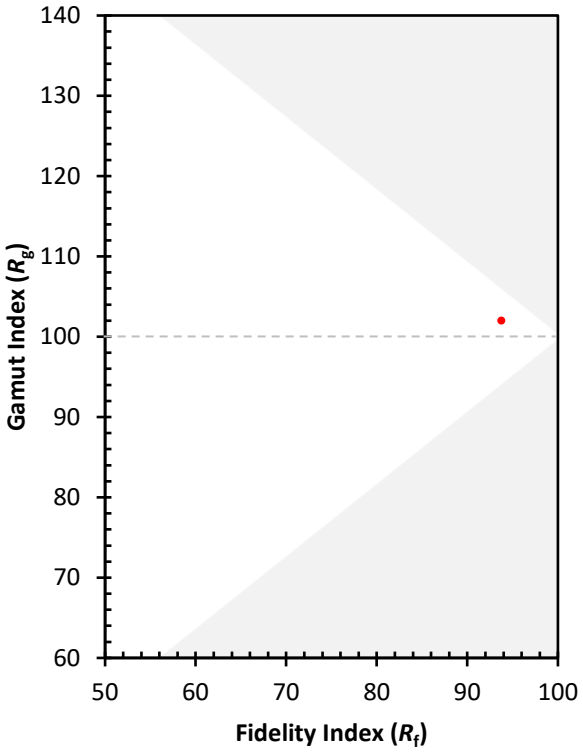


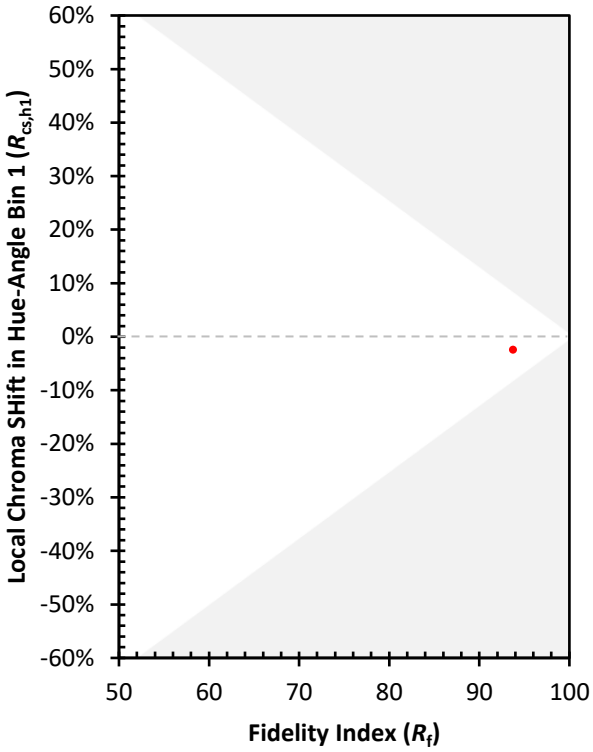


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Measure Comparisons





(END OF REPORT)