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: P1590739

Luminaire Tested: 22CGTX-35-L92765-W2A-4000K

Issue Date: 9/7/2026

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:	P1590739
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-566-15)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-35-L92765-W2A-4000K
Description:	2X2 3500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 4000K CCT WITH FROSTED SMOOTH LENS
Light Source:	4000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3715.4 lumens
Efficiency:	N/A
Efficacy:	102.6 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	36.2
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

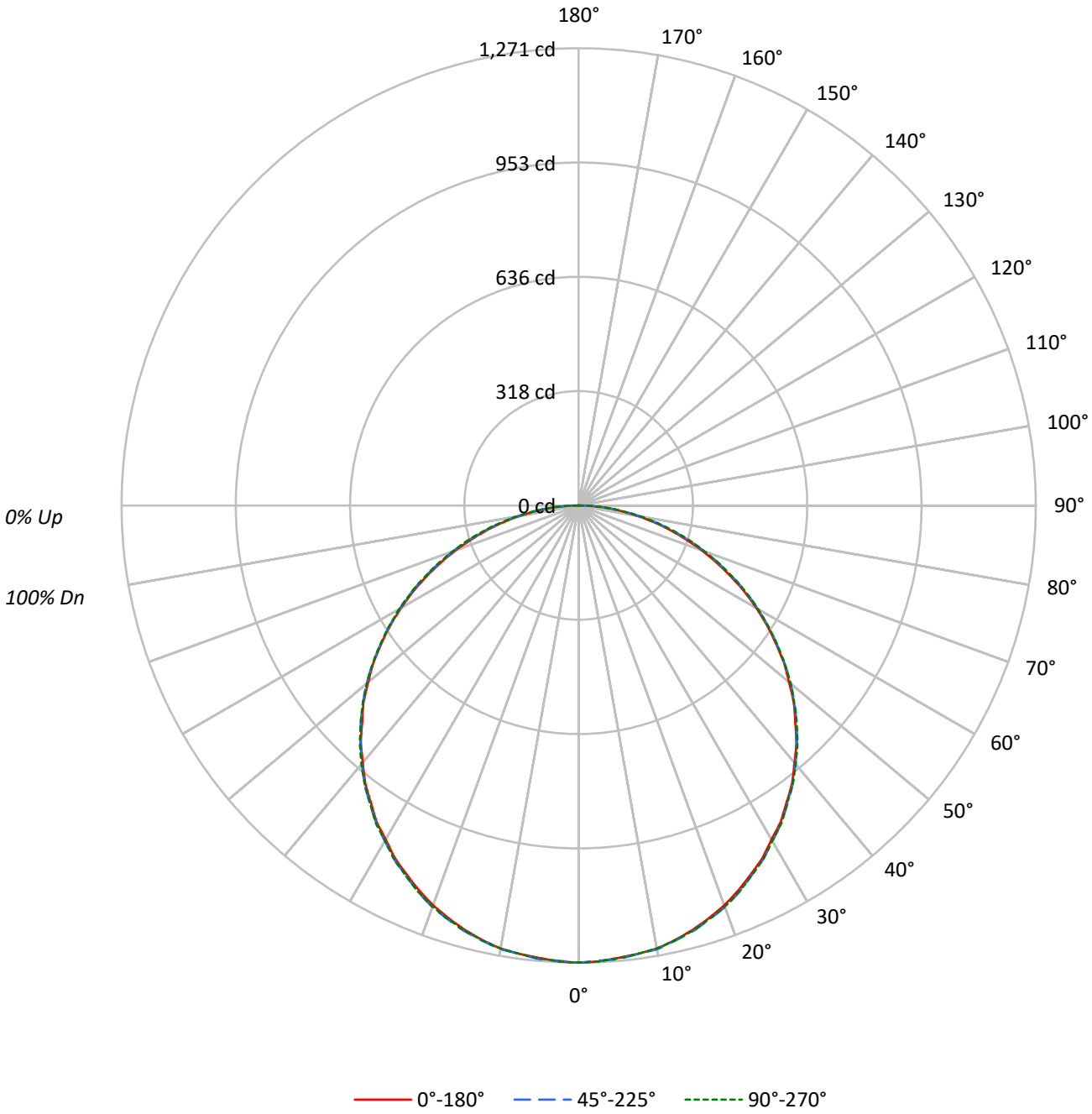


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TEST NUMBER: P1590739
CATALOG NUMBER: 22CGTX-35-L92765-W2A-4000K

Luminous Intensity Polar Plot



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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	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	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°	3420	3420	3420
5°	3410	3421	3413
10°	3418	3424	3418
15°	3404	3415	3409
20°	3388	3403	3400
25°	3361	3373	3373
30°	3332	3348	3345
35°	3310	3324	3321
40°	3279	3294	3297
45°	3239	3263	3263
50°	3195	3222	3217
55°	3140	3155	3160
60°	3068	3096	3096
65°	2965	3012	3012
70°	2859	2924	2917
75°	2725	2811	2833
80°	2540	2670	2686
85°	2288	2482	2482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
Vertical Angle: 45°
Luminance: 3263 cd/sqm

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TEST NUMBER: P1590739
CATALOG NUMBER: 22CGTX-35-L92765-W2A-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	3.2
10°-20°	345.4	9.3
20°-30°	523.5	14.1
30°-40°	632.2	17.0
40°-50°	659.1	17.7
50°-60°	600.4	16.2
60°-70°	466.2	12.5
70°-80°	282.1	7.6
80°-90°	86.3	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°	989.2	26.6
0°-40°	1621.3	43.6
0°-60°	2880.8	77.5
0°-90°	3715.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3715.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1262	1264	1267	1264	1264	120
15°	1222	1223	1226	1224	1224	345
25°	1132	1135	1136	1137	1136	522
35°	1008	1007	1012	1012	1011	631
45°	851	851	857	856	857	658
55°	669	669	672	672	674	599
65°	466	467	473	473	473	462
75°	262	262	270	268	272	277
85°	74	74	80	75	80	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1270.8*	*1270.8*	*1270.8*	*1270.8*	*1270.8*
2.5°	*1268.7*	1269.7	1266.6	1268.7	1268.7
5°	*1262.4*	1264.5	1266.6	1264.5	1263.5
7.5°	*1257.2*	1260.3	1257.2	1259.3	1257.2
10°	*1250.9*	1249.9	1253.0	1249.9	1250.9
12.5°	*1237.4*	1240.5	1239.4	1240.5	1238.4
15°	*1221.7*	1222.7	1225.9	1223.8	1223.8
17.5°	*1202.9*	1205.0	1207.1	1207.1	1206.0
20°	*1183.1*	1185.1	1188.3	1186.2	1187.2
22.5°	*1159.0*	1160.1	1164.3	1163.2	1163.2
25°	*1131.9*	1135.0	1136.1	1137.1	1136.1
27.5°	*1105.8*	1104.7	1110.0	1107.9	1110.0
30°	*1072.4*	1074.5	1077.6	1077.6	1076.6
32.5°	*1044.2*	1043.1	1047.3	1044.2	1048.4
35°	*1007.6*	1006.6	1011.8	1011.8	1010.8
37.5°	*974.2*	973.2	977.4	974.2	977.4
40°	*933.5*	931.4	937.7	937.7	938.7
42.5°	*895.9*	894.9	898.0	894.9	900.1
45°	*851.0*	851.0	857.3	856.2	857.3
47.5°	*811.3*	809.2	813.4	810.3	813.4
50°	*763.3*	764.3	769.6	767.5	768.5
52.5°	*719.4*	716.3	721.5	718.4	721.5
55°	*669.3*	669.3	672.5	672.5	673.5
57.5°	*621.3*	620.2	624.4	625.5	624.4
60°	*570.1*	570.1	575.3	576.4	575.3
62.5°	*520.0*	517.9	525.2	526.3	525.2
65°	*465.7*	466.7	473.0	473.0	473.0
67.5°	*414.5*	414.5	421.8	421.8	422.9
70°	*363.4*	364.4	371.7	371.7	370.7
72.5°	*311.2*	312.2	319.5	318.5	323.7
75°	*262.1*	262.1	270.4	268.4	272.5
77.5°	*212.0*	213.0	220.3	217.2	222.4
80°	*163.9*	165.0	172.3	168.1	173.3
82.5°	*118.0*	119.0	125.3	121.1	126.3
85°	*74.1*	74.1	80.4	75.2	80.4
87.5°	*32.4*	32.4	37.6	32.4	36.5
90°	*0.0*	0.0	0.0	0.0	0.0

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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	16.12	17.78	16.49	18.09	18.41	16.18	17.84	16.54	18.15	18.46
	3H	18.00	19.50	18.37	19.82	20.18	18.09	19.59	18.46	19.91	20.27
	4H	18.73	20.14	19.12	20.49	20.86	18.84	20.26	19.24	20.61	20.98
	6H	19.29	20.61	19.70	20.97	21.36	19.44	20.76	19.85	21.12	21.51
	8H	19.49	20.74	19.91	21.13	21.53	19.65	20.91	20.07	21.30	21.69
	12H	19.62	20.83	20.05	21.21	21.64	19.80	21.01	20.23	21.39	21.82
4H	2H	16.80	18.21	17.19	18.56	18.93	16.84	18.26	17.24	18.60	18.98
	3H	18.90	20.09	19.31	20.49	20.89	18.98	20.17	19.39	20.57	20.97
	4H	19.76	20.84	20.19	21.25	21.69	19.87	20.95	20.30	21.36	21.80
	6H	20.46	21.41	20.91	21.85	22.30	20.60	21.55	21.05	21.99	22.44
	8H	20.71	21.60	21.17	22.04	22.50	20.86	21.75	21.32	22.19	22.66
	12H	20.90	21.70	21.38	22.17	22.64	21.07	21.87	21.55	22.34	22.81
8H	4H	20.13	21.01	20.59	21.46	21.92	20.22	21.11	20.68	21.55	22.01
	6H	20.97	21.71	21.46	22.19	22.67	21.09	21.83	21.58	22.31	22.79
	8H	21.30	21.96	21.81	22.47	22.95	21.43	22.10	21.94	22.60	23.09
	12H	21.57	22.16	22.07	22.65	23.21	21.72	22.31	22.23	22.80	23.36
12H	4H	20.18	20.97	20.65	21.45	21.92	20.27	21.07	20.74	21.54	22.01
	6H	21.05	21.71	21.55	22.22	22.70	21.16	21.83	21.67	22.33	22.82
	8H	21.45	22.03	21.95	22.52	23.08	21.57	22.16	22.08	22.65	23.21

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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: SP1-2510-566-11-R2

Test Date: 10/14/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-4000K

Data in this report applies to families of products including 22CGTX

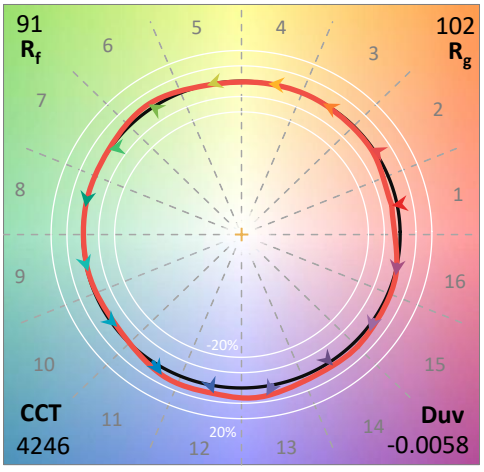
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-11-R2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	07/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**22CGTX-50-L92765-W2A-4000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-11-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K -5 V

Spectral Parameters

CCT (K):	4246	CRI (Ra):	96.1		
CIE u':	0.2245	R1:	98.0	R9:	83.1
CIE v':	0.4902	R2:	98.1	R10:	94.7
Duv:	-0.0058	R3:	95.1	R11:	95.0
CIE x:	0.3671	R4:	97.2	R12:	76.2
CIE y:	0.3563	R5:	97.9	R13:	98.7
CIE z:	0.2766	R6:	93.8	R14:	96.3
Peak Wavelength (nm):	630	R7:	95.3	R15:	98.7
Dominant Wavelength (nm):	582	R8:	93.5		
Purity:	17.05535				
Rf:	91.3				
Rg:	101.8				



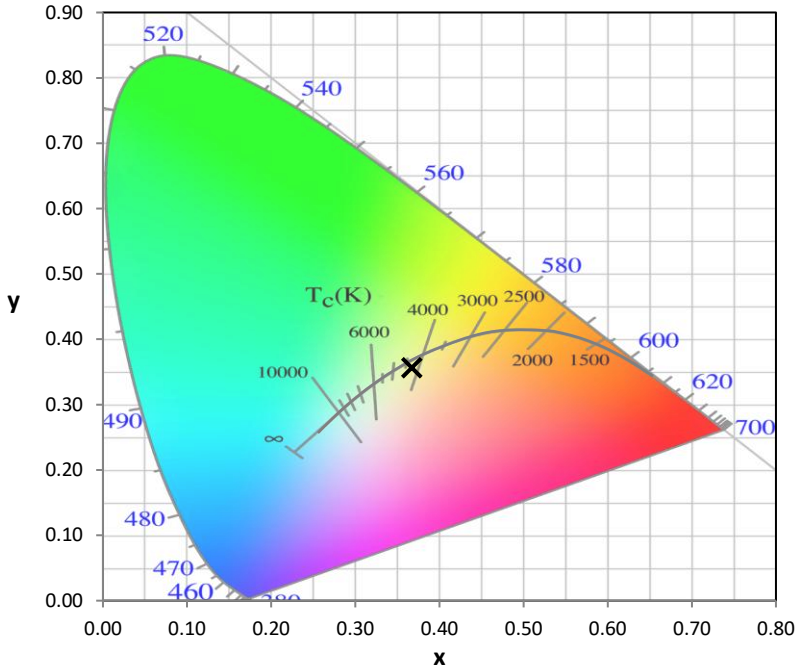
Test Conditions

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

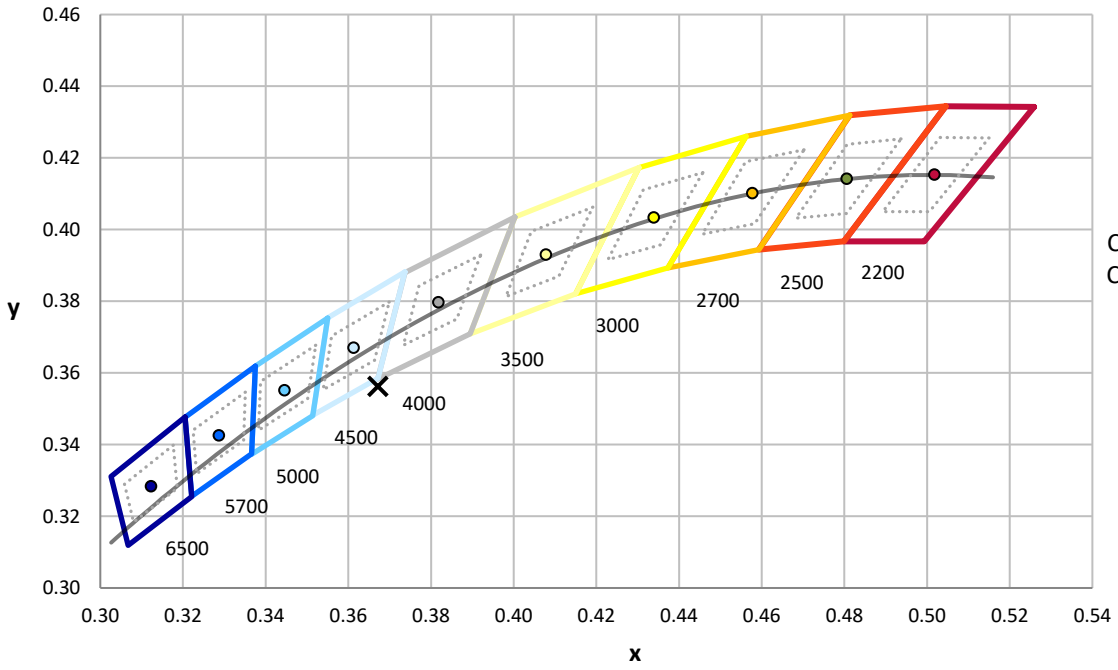
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2510-566-11-R2

CIE 1931 Chromaticity Diagram



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

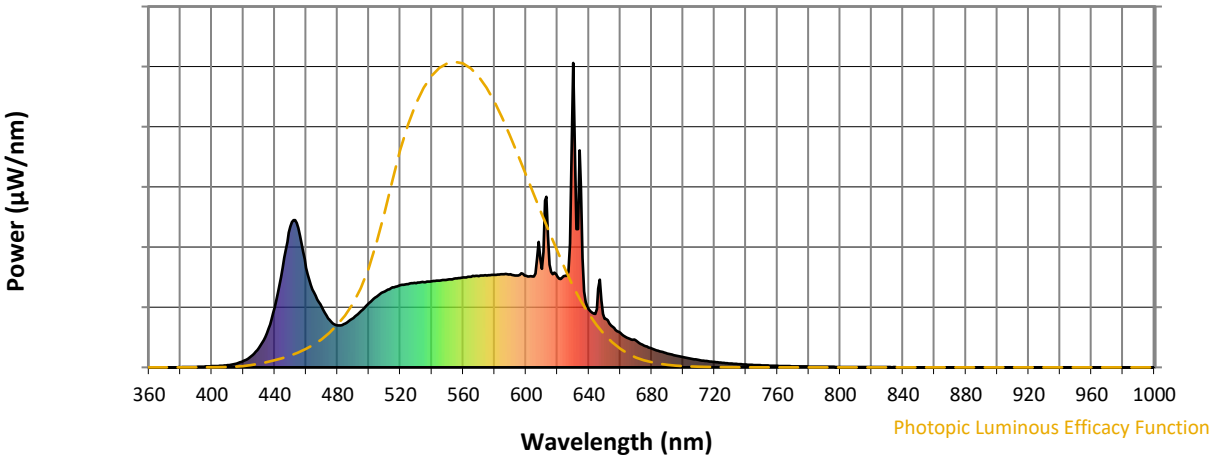


CCT = 4246K
CIE x = 0.3671
CIE y = 0.3563
Duv = -0.0058

Point lies outside the range

REPORT NUMBER: SP1-2510-566-11-R2

Photopic Flux vs. Wavelength

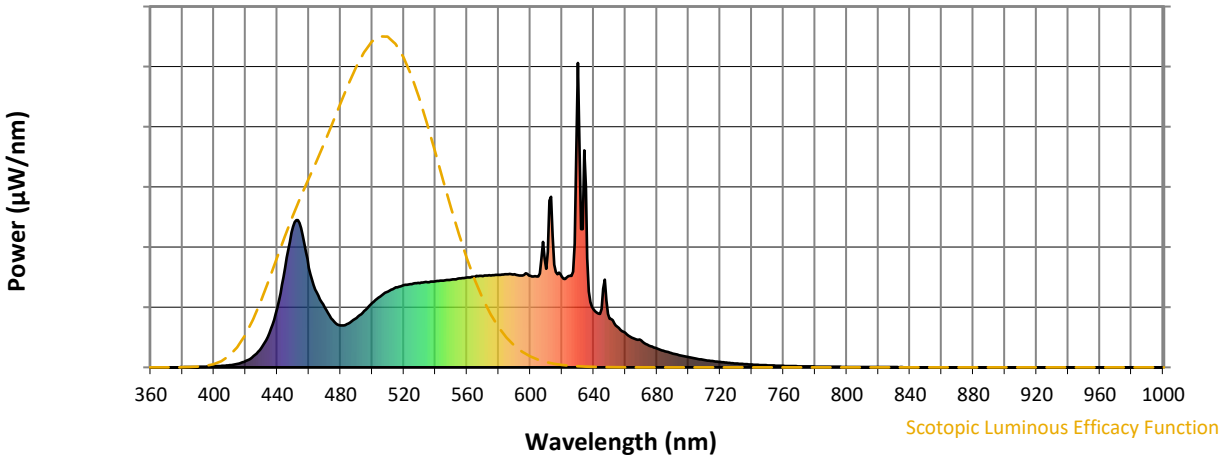


Photopic Lumens: NR

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	162	NR	620	297	NR	750	7	NR	880	0	NR
365	0	NR	495	185	NR	625	301	NR	755	6	NR	885	0	NR
370	0	NR	500	211	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	232	NR	635	592	NR	765	4	NR	895	0	NR
380	0	NR	510	249	NR	640	190	NR	770	4	NR	900	0	NR
385	1	NR	515	262	NR	645	191	NR	775	3	NR	905	0	NR
390	1	NR	520	270	NR	650	160	NR	780	3	NR	910	0	NR
395	3	NR	525	273	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	277	NR	660	114	NR	790	2	NR	920	0	NR
405	5	NR	535	280	NR	665	96	NR	795	2	NR	925	0	NR
410	7	NR	540	283	NR	670	88	NR	800	1	NR	930	0	NR
415	12	NR	545	285	NR	675	72	NR	805	1	NR	935	0	NR
420	21	NR	550	288	NR	680	62	NR	810	1	NR	940	0	NR
425	36	NR	555	292	NR	685	53	NR	815	1	NR	945	0	NR
430	64	NR	560	295	NR	690	46	NR	820	1	NR	950	0	NR
435	113	NR	565	298	NR	695	39	NR	825	1	NR	955	0	NR
440	196	NR	570	300	NR	700	33	NR	830	1	NR	960	0	NR
445	327	NR	575	302	NR	705	28	NR	835	1	NR	965	0	NR
450	462	NR	580	304	NR	710	24	NR	840	0	NR	970	0	NR
455	458	NR	585	306	NR	715	21	NR	845	0	NR	975	0	NR
460	327	NR	590	306	NR	720	17	NR	850	0	NR	980	0	NR
465	246	NR	595	302	NR	725	15	NR	855	0	NR	985	0	NR
470	197	NR	600	300	NR	730	13	NR	860	0	NR	990	0	NR
475	155	NR	605	299	NR	735	11	NR	865	0	NR	995	0	NR
480	138	NR	610	324	NR	740	9	NR	870	0	NR	1000	0	NR
485	144	NR	615	337	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-11-R2

Scotopic Flux vs. Wavelength

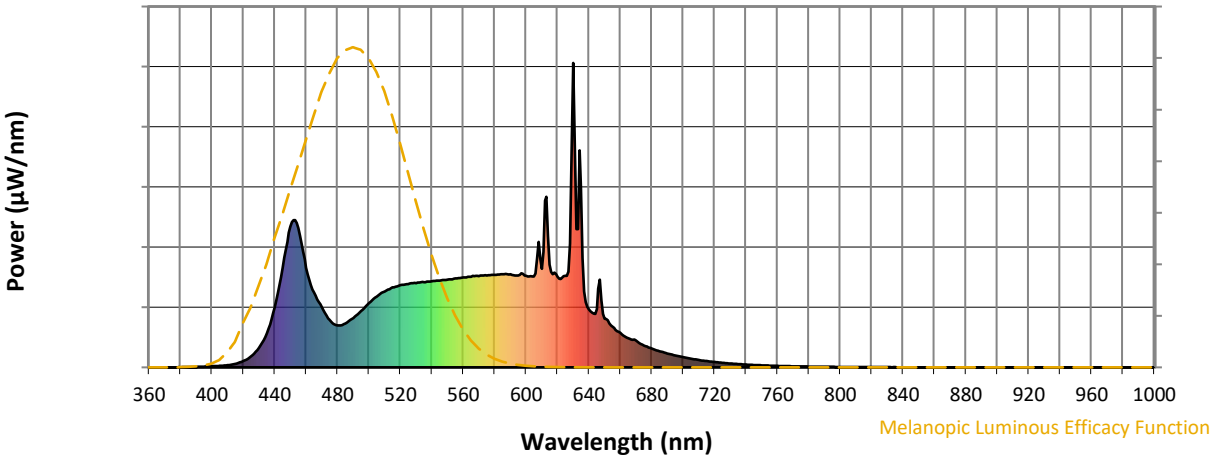


Scotopic Lumens: NR **S/P: 1.9**

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	162	NR	620	297	NR	750	7	NR	880	0	NR
365	0	NR	495	185	NR	625	301	NR	755	6	NR	885	0	NR
370	0	NR	500	211	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	232	NR	635	592	NR	765	4	NR	895	0	NR
380	0	NR	510	249	NR	640	190	NR	770	4	NR	900	0	NR
385	1	NR	515	262	NR	645	191	NR	775	3	NR	905	0	NR
390	1	NR	520	270	NR	650	160	NR	780	3	NR	910	0	NR
395	3	NR	525	273	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	277	NR	660	114	NR	790	2	NR	920	0	NR
405	5	NR	535	280	NR	665	96	NR	795	2	NR	925	0	NR
410	7	NR	540	283	NR	670	88	NR	800	1	NR	930	0	NR
415	12	NR	545	285	NR	675	72	NR	805	1	NR	935	0	NR
420	21	NR	550	288	NR	680	62	NR	810	1	NR	940	0	NR
425	36	NR	555	292	NR	685	53	NR	815	1	NR	945	0	NR
430	64	NR	560	295	NR	690	46	NR	820	1	NR	950	0	NR
435	113	NR	565	298	NR	695	39	NR	825	1	NR	955	0	NR
440	196	NR	570	300	NR	700	33	NR	830	1	NR	960	0	NR
445	327	NR	575	302	NR	705	28	NR	835	1	NR	965	0	NR
450	462	NR	580	304	NR	710	24	NR	840	0	NR	970	0	NR
455	458	NR	585	306	NR	715	21	NR	845	0	NR	975	0	NR
460	327	NR	590	306	NR	720	17	NR	850	0	NR	980	0	NR
465	246	NR	595	302	NR	725	15	NR	855	0	NR	985	0	NR
470	197	NR	600	300	NR	730	13	NR	860	0	NR	990	0	NR
475	155	NR	605	299	NR	735	11	NR	865	0	NR	995	0	NR
480	138	NR	610	324	NR	740	9	NR	870	0	NR	1000	0	NR
485	144	NR	615	337	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.06**

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	162	NR	620	297	NR	750	7	NR	880	0	NR
365	0	NR	495	185	NR	625	301	NR	755	6	NR	885	0	NR
370	0	NR	500	211	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	232	NR	635	592	NR	765	4	NR	895	0	NR
380	0	NR	510	249	NR	640	190	NR	770	4	NR	900	0	NR
385	1	NR	515	262	NR	645	191	NR	775	3	NR	905	0	NR
390	1	NR	520	270	NR	650	160	NR	780	3	NR	910	0	NR
395	3	NR	525	273	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	277	NR	660	114	NR	790	2	NR	920	0	NR
405	5	NR	535	280	NR	665	96	NR	795	2	NR	925	0	NR
410	7	NR	540	283	NR	670	88	NR	800	1	NR	930	0	NR
415	12	NR	545	285	NR	675	72	NR	805	1	NR	935	0	NR
420	21	NR	550	288	NR	680	62	NR	810	1	NR	940	0	NR
425	36	NR	555	292	NR	685	53	NR	815	1	NR	945	0	NR
430	64	NR	560	295	NR	690	46	NR	820	1	NR	950	0	NR
435	113	NR	565	298	NR	695	39	NR	825	1	NR	955	0	NR
440	196	NR	570	300	NR	700	33	NR	830	1	NR	960	0	NR
445	327	NR	575	302	NR	705	28	NR	835	1	NR	965	0	NR
450	462	NR	580	304	NR	710	24	NR	840	0	NR	970	0	NR
455	458	NR	585	306	NR	715	21	NR	845	0	NR	975	0	NR
460	327	NR	590	306	NR	720	17	NR	850	0	NR	980	0	NR
465	246	NR	595	302	NR	725	15	NR	855	0	NR	985	0	NR
470	197	NR	600	300	NR	730	13	NR	860	0	NR	990	0	NR
475	155	NR	605	299	NR	735	11	NR	865	0	NR	995	0	NR
480	138	NR	610	324	NR	740	9	NR	870	0	NR	1000	0	NR
485	144	NR	615	337	NR	745	8	NR	875	0	NR			

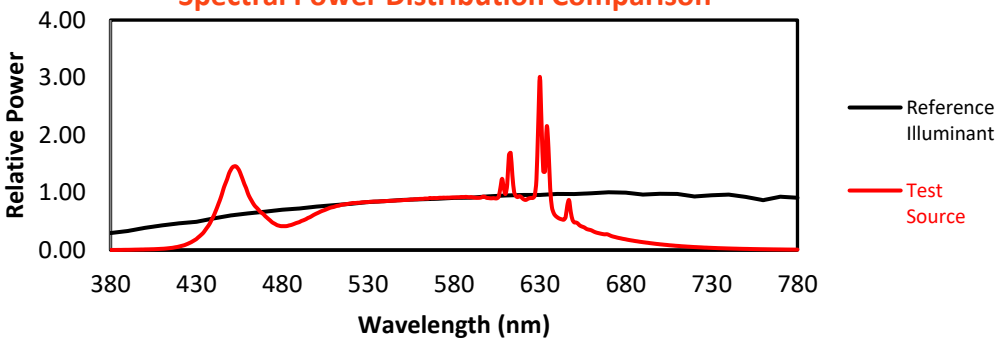
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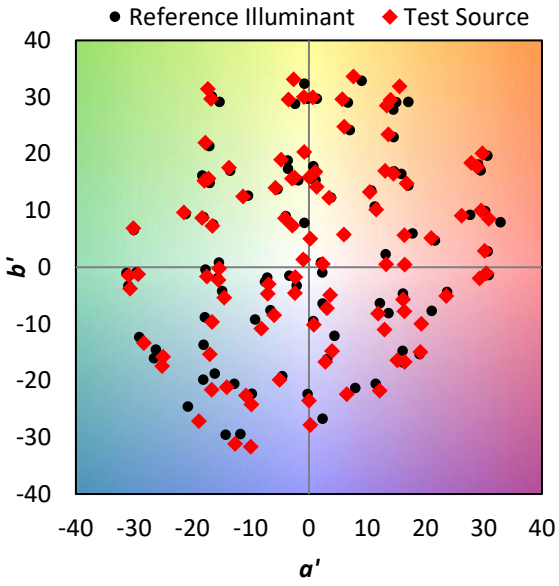
Summary

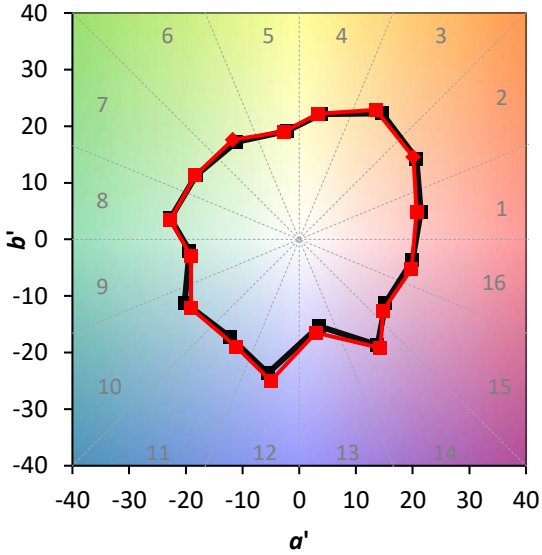
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R_g = 101.8
CIE R_a = 96.1
R_9 = 83.1

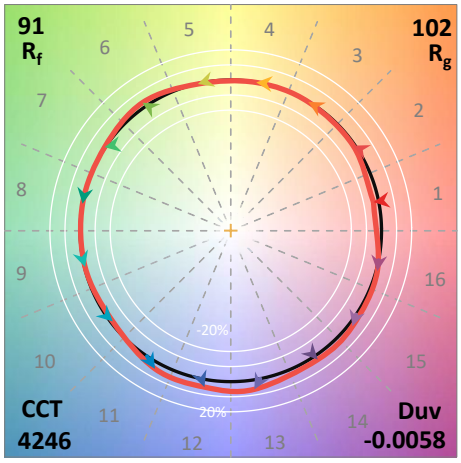
Spectral Power Distribution Comparison

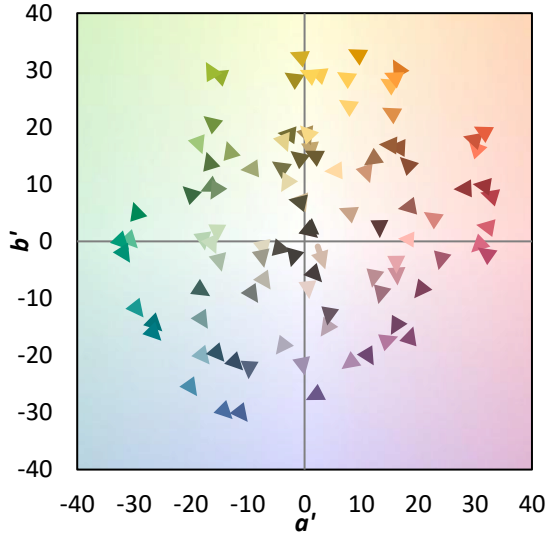


Color Vector Graphics







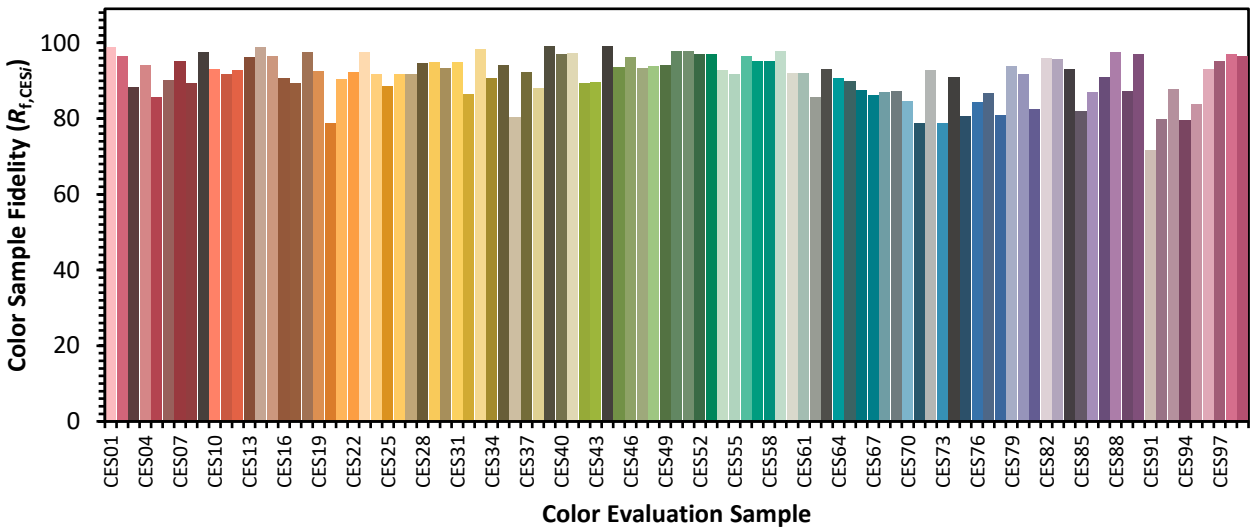


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Individual Sample Fidelity Index ($R_{f,i}$)

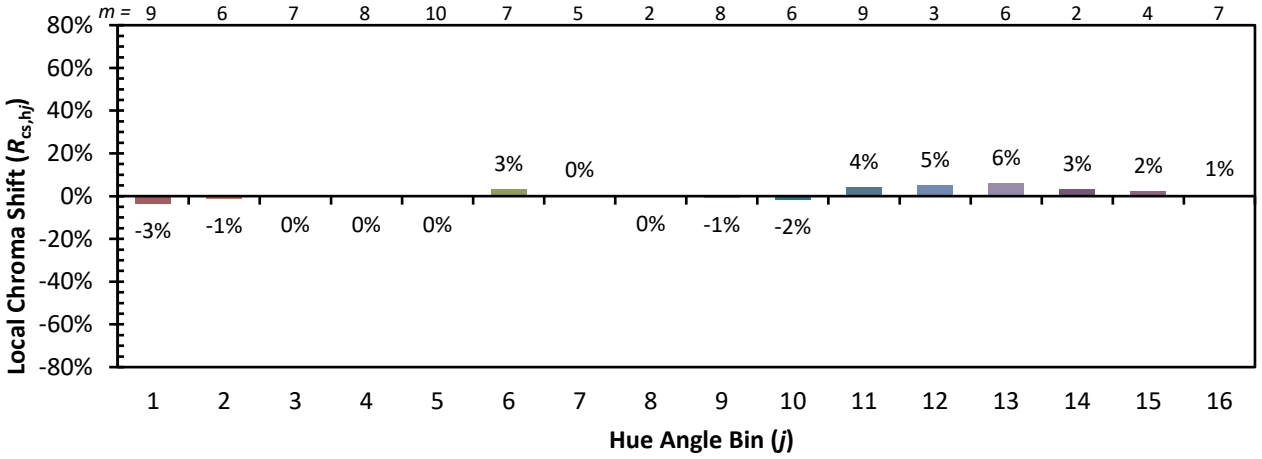
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CES02 = 62	CES27 = 92	CES52 = 97	CES77 = 87
CES03 = 31	CES28 = 95	CES53 = 97	CES78 = 81
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 94
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 92
CES06 = 50	CES31 = 95	CES56 = 96	CES81 = 83
CES07 = 42	CES32 = 86	CES57 = 95	CES82 = 96
CES08 = 41	CES33 = 98	CES58 = 95	CES83 = 96
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 93
CES10 = 74	CES35 = 94	CES60 = 92	CES85 = 82
CES11 = 57	CES36 = 80	CES61 = 92	CES86 = 87
CES12 = 63	CES37 = 92	CES62 = 86	CES87 = 91
CES13 = 43	CES38 = 88	CES63 = 93	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 97	CES65 = 90	CES90 = 97
CES16 = 47	CES41 = 97	CES66 = 88	CES91 = 72
CES17 = 49	CES42 = 89	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 90	CES68 = 87	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 80
CES20 = 66	CES45 = 94	CES70 = 85	CES95 = 84
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 93
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 94	CES73 = 79	CES98 = 97
CES24 = 90	CES49 = 94	CES74 = 91	CES99 = 96
CES25 = 71	CES50 = 98	CES75 = 81	

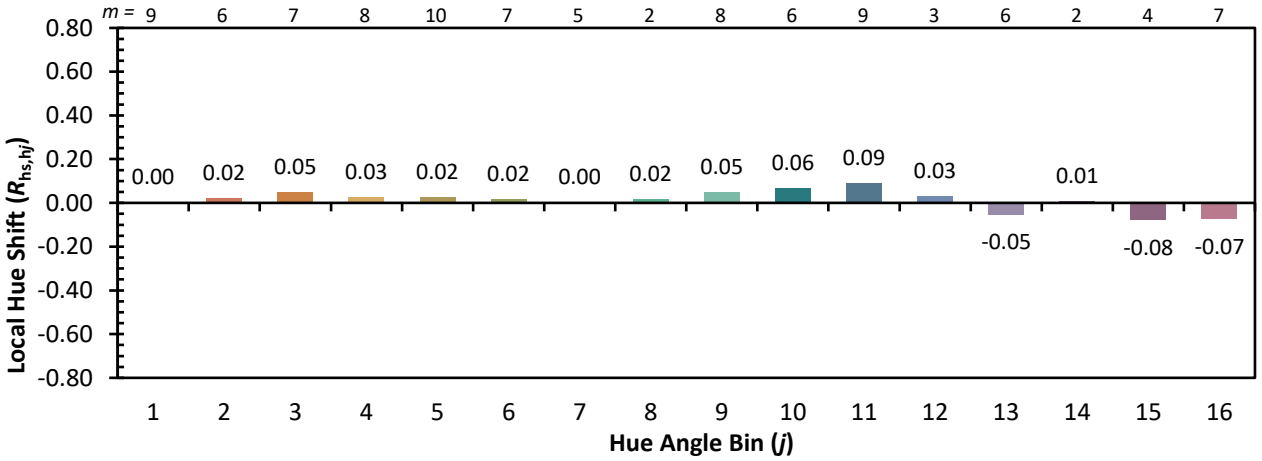


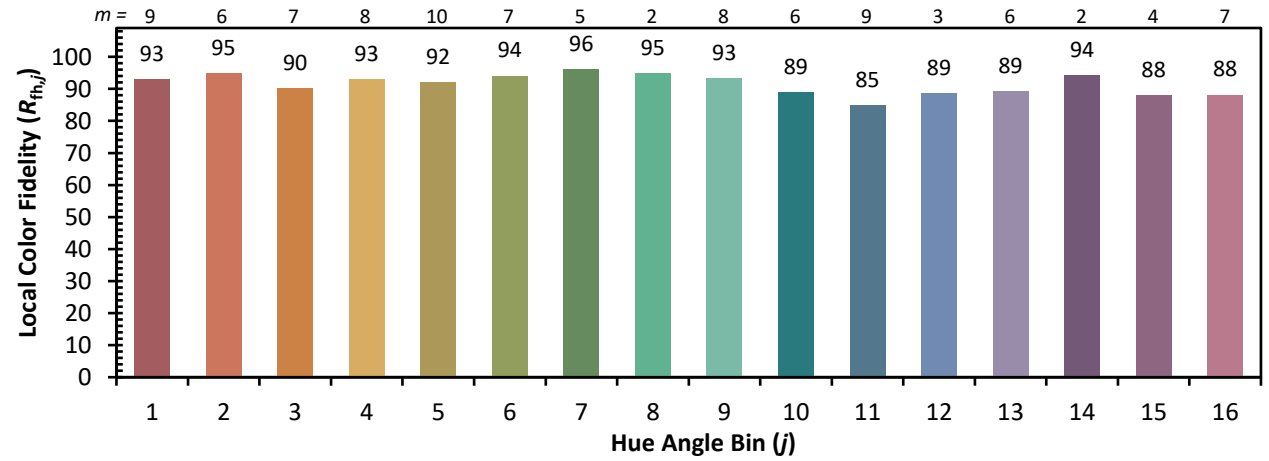
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Color Rendition by Hue-Angle Bin



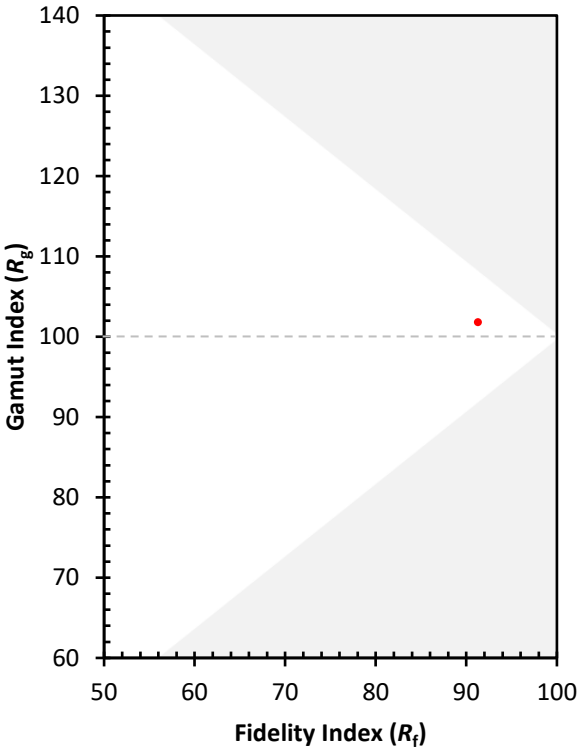


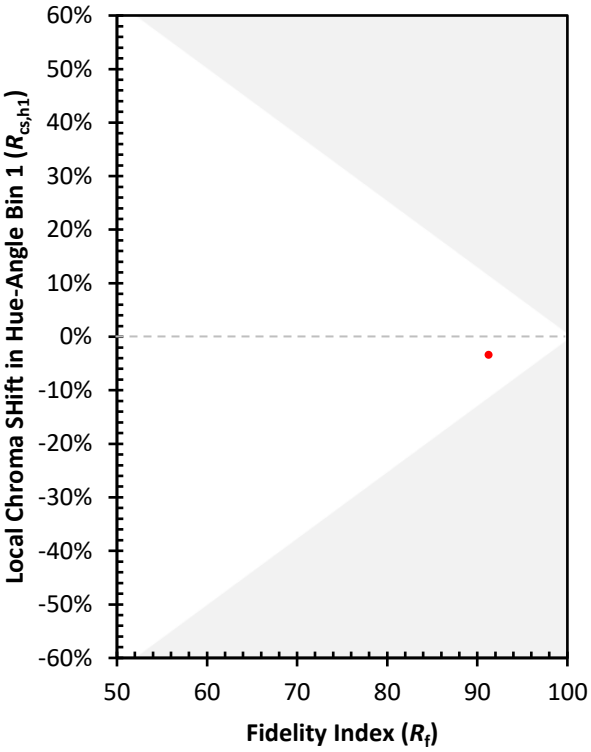


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Measure Comparisons





(END OF REPORT)