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: P1559258

Luminaire Tested: 22CGTX-35-B2750-W2D-3500K

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:	P1559258
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-19)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/30/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-35-B2750-W2D-3500K
Description:	2X2 3500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 3500K CCT WITH FROSTED SMOOTH l
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3663.7 lumens
Efficiency:	N/A
Efficacy:	107.4 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):	34.1
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

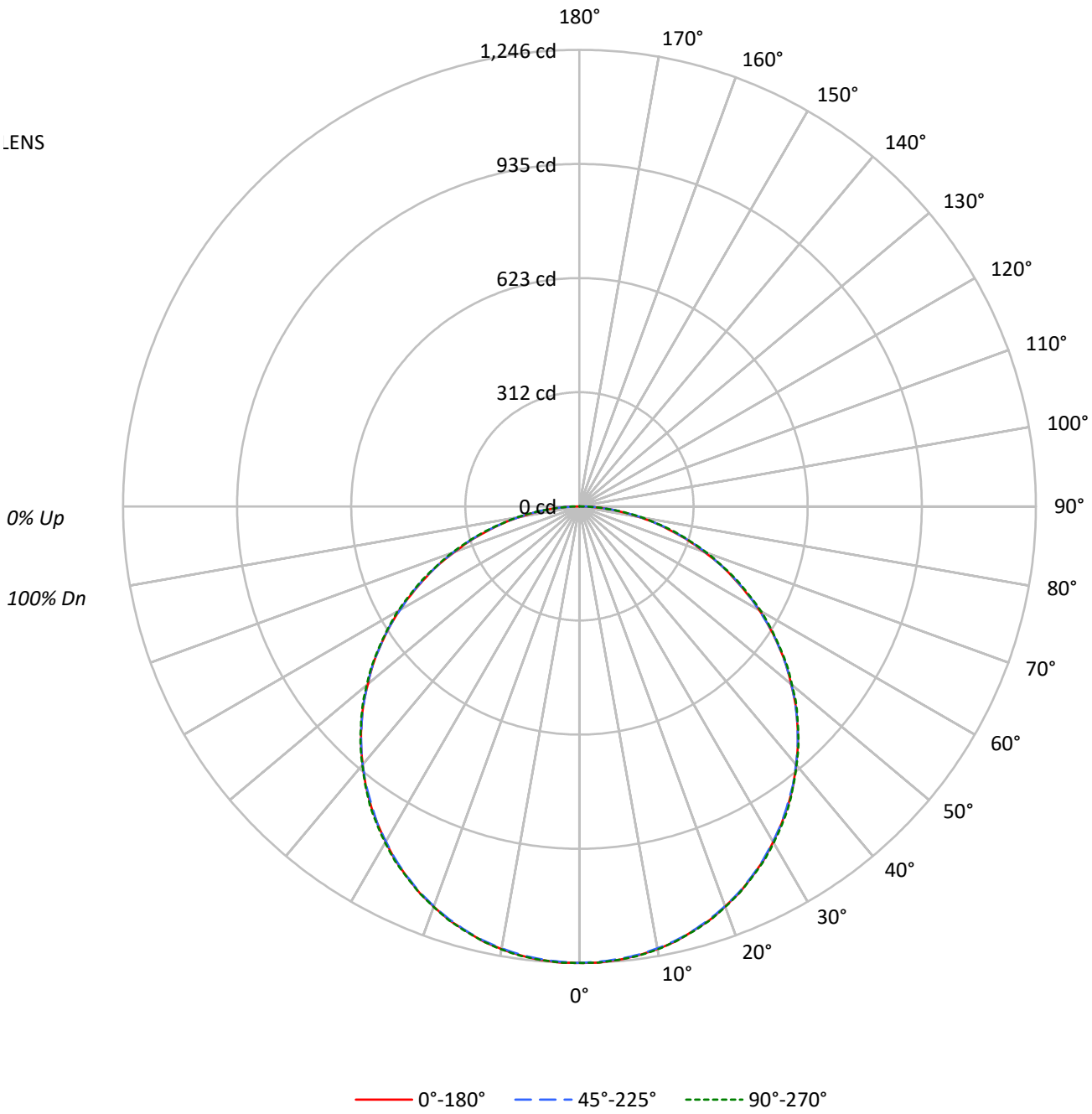


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Scaled Data Report

TEST NUMBER: P1559258
CATALOG NUMBER: 22CGTX-35-B2750-W2D-3500K

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	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°	3353	3353	3353
5°	3355	3350	3355
10°	3353	3347	3355
15°	3342	3339	3345
20°	3329	3326	3332
25°	3311	3308	3314
30°	3286	3283	3295
35°	3265	3255	3275
40°	3232	3232	3240
45°	3202	3202	3210
50°	3155	3160	3172
55°	3115	3115	3125
60°	3057	3041	3084
65°	2962	2981	3007
70°	2842	2882	2913
75°	2717	2759	2791
80°	2549	2596	2673
85°	2242	2306	2337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
Vertical Angle: 45°
Luminance: 3210 cd/sqm

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Scaled Data Report

TEST NUMBER: P1559258
CATALOG NUMBER: 22CGTX-35-B2750-W2D-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.2
10°-20°	338.6	9.2
20°-30°	513.9	14.0
30°-40°	621.6	17.0
40°-50°	649.5	17.7
50°-60°	594.1	16.2
60°-70°	462.9	12.6
70°-80°	280.4	7.7
80°-90°	84.8	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°	970.5	26.5
0°-40°	1592.1	43.5
0°-60°	2835.6	77.4
0°-90°	3663.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1242	1241	1240	1242	1242	118
15°	1200	1199	1199	1200	1201	339
25°	1115	1115	1114	1115	1116	514
35°	994	993	991	993	997	621
45°	842	840	842	844	844	649
55°	664	664	664	666	666	593
65°	465	465	468	470	472	461
75°	261	263	265	266	268	277
85°	73	74	75	77	76	83
90°	0	0	0	0	0	

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TEST NUMBER: P1559258
CATALOG NUMBER: 22CGTX-35-B2750-W2D-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1246.1*	*1246.1*	*1246.1*	*1246.1*	*1246.1*
2.5°	*1246.1*	1245.1	1244.1	1245.1	1246.1
5°	*1242.1*	1241.1	1240.1	1242.1	1242.1
7.5°	*1236.1*	1235.0	1234.0	1236.1	1237.1
10°	*1227.0*	1226.0	1225.0	1227.0	1228.0
12.5°	*1215.9*	1213.9	1213.9	1214.9	1215.9
15°	*1199.7*	1198.7	1198.7	1199.7	1200.7
17.5°	*1183.6*	1182.6	1181.6	1183.6	1184.6
20°	*1162.4*	1161.4	1161.4	1162.4	1163.4
22.5°	*1141.2*	1139.2	1139.2	1140.2	1142.2
25°	*1115.0*	1115.0	1114.0	1115.0	1116.0
27.5°	*1088.7*	1086.7	1086.7	1087.7	1090.8
30°	*1057.5*	1058.5	1056.4	1059.5	1060.5
32.5°	*1026.2*	1027.2	1026.2	1027.2	1029.2
35°	*993.9*	992.9	990.9	992.9	996.9
37.5°	*958.6*	957.6	957.6	959.6	959.6
40°	*920.2*	921.2	920.2	923.3	922.2
42.5°	*882.9*	880.9	881.9	882.9	884.9
45°	*841.5*	840.5	841.5	843.5	843.5
47.5°	*800.2*	799.1	799.1	801.2	803.2
50°	*753.7*	755.8	754.8	757.8	757.8
52.5°	*711.4*	710.4	711.4	712.4	714.4
55°	*663.9*	663.9	663.9	666.0	666.0
57.5°	*615.5*	616.5	616.5	620.5	619.5
60°	*568.1*	566.1	565.1	568.1	573.1
62.5°	*515.6*	517.6	517.6	520.7	520.7
65°	*465.2*	465.2	468.2	470.2	472.2
67.5°	*416.7*	414.7	416.7	419.8	418.7
70°	*361.2*	363.2	366.3	368.3	370.3
72.5°	*312.8*	312.8	315.8	318.9	317.8
75°	*261.3*	263.4	265.4	266.4	268.4
77.5°	*213.9*	213.9	214.9	219.0	216.9
80°	*164.5*	165.5	167.5	168.5	172.5
82.5°	*118.1*	119.1	120.1	122.1	122.1
85°	*72.6*	73.7	74.7	76.7	75.7
87.5°	*31.3*	31.3	33.3	33.3	35.3
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 22CGTX-35-B2750-W2D-3500K

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	18.10	18.41	16.16	17.83	16.53	18.14	18.45
	3H	18.02	19.52	18.39	19.85	20.21	18.08	19.58	18.46	19.91	20.27
	4H	18.75	20.17	19.15	20.52	20.89	18.83	20.25	19.23	20.60	20.97
	6H	19.33	20.65	19.74	21.01	21.40	19.42	20.74	19.83	21.11	21.50
	8H	19.52	20.78	19.95	21.17	21.57	19.63	20.89	20.05	21.28	21.68
	12H	19.66	20.87	20.09	21.25	21.68	19.77	20.98	20.20	21.36	21.79
4H	2H	16.79	18.21	17.19	18.56	18.93	16.82	18.24	17.22	18.59	18.97
	3H	18.91	20.10	19.32	20.50	20.90	18.97	20.16	19.38	20.56	20.96
	4H	19.78	20.87	20.21	21.28	21.72	19.86	20.94	20.29	21.35	21.79
	6H	20.50	21.45	20.95	21.89	22.34	20.59	21.54	21.04	21.98	22.43
	8H	20.75	21.64	21.21	22.08	22.54	20.85	21.74	21.31	22.18	22.65
	12H	20.93	21.73	21.41	22.21	22.68	21.05	21.85	21.52	22.32	22.79
8H	4H	20.14	21.03	20.60	21.47	21.94	20.20	21.09	20.66	21.54	22.00
	6H	20.99	21.73	21.48	22.22	22.69	21.08	21.82	21.57	22.30	22.78
	8H	21.33	21.99	21.83	22.50	22.98	21.42	22.09	21.93	22.59	23.08
	12H	21.59	22.18	22.10	22.67	23.23	21.70	22.29	22.21	22.78	23.34
12H	4H	20.19	20.99	20.67	21.47	21.93	20.25	21.05	20.73	21.53	21.99
	6H	21.07	21.74	21.58	22.24	22.73	21.15	21.82	21.65	22.32	22.80
	8H	21.47	22.06	21.97	22.55	23.11	21.56	22.15	22.06	22.64	23.20

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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: SP1-2510-581-8-R2

Test Date: 02/03/2026

Luminaire Tested: 24CGTX-45-B2750-W2D-3500K

Data in this report applies to families of products including 24CGTX-45-UNV

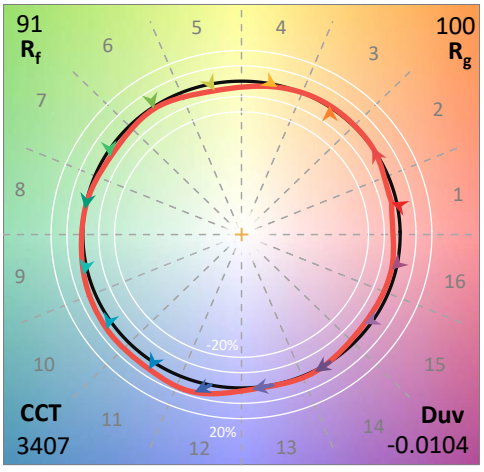
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-581-8-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-3500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2510-581-8-R2 TO UPDATE THE CATALOG INFORMATION*2X4 CGTX 4500 lumen with BioUp Boards - 3500K

Spectral Parameters

CCT (K):	3407	CRI (Ra):	90.6		
CIE u':	0.2428	R1:	93.7	R9:	86.5
CIE v':	0.4992	R2:	90.5	R10:	82.1
Duv:	-0.0104	R3:	90.2	R11:	96.0
CIE x:	0.3996	R4:	96.7	R12:	75.0
CIE y:	0.3651	R5:	92.5	R13:	92.1
CIE z:	0.2353	R6:	83.5	R14:	96.1
Peak Wavelength (nm):	630	R7:	88.1	R15:	95.7
Dominant Wavelength (nm):	587	R8:	89.8		
Purity:	29.46494				
Rf:	90.9				
Rg:	99.5				



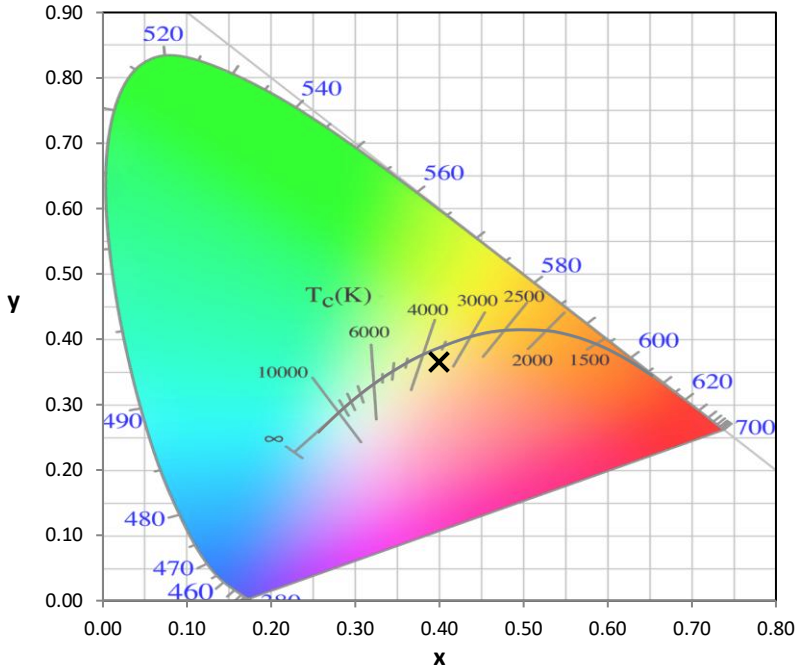
Test Conditions

Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.1

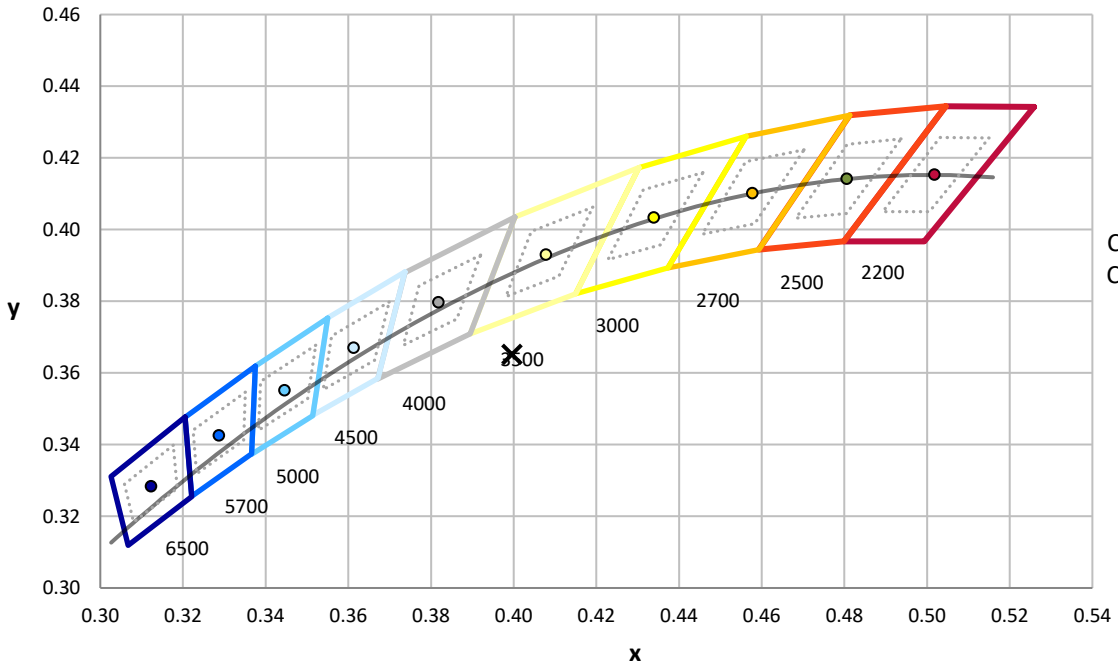
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2510-581-8-R2

CIE 1931 Chromaticity Diagram



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

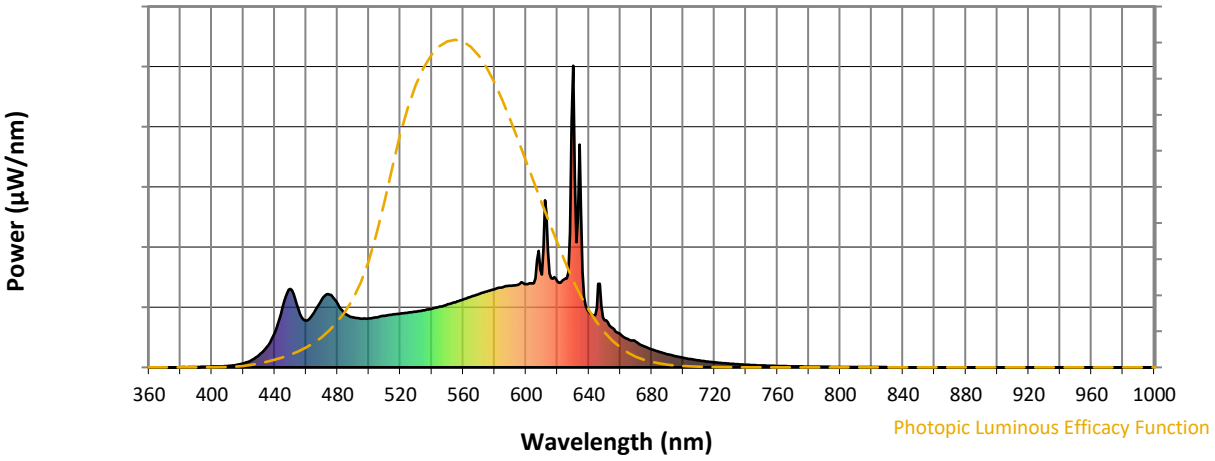


CCT = 3407K
CIE x = 0.3996
CIE y = 0.3651
Duv = -0.0104

Point lies outside the range

REPORT NUMBER: SP1-2510-581-8-R2

Photopic Flux vs. Wavelength

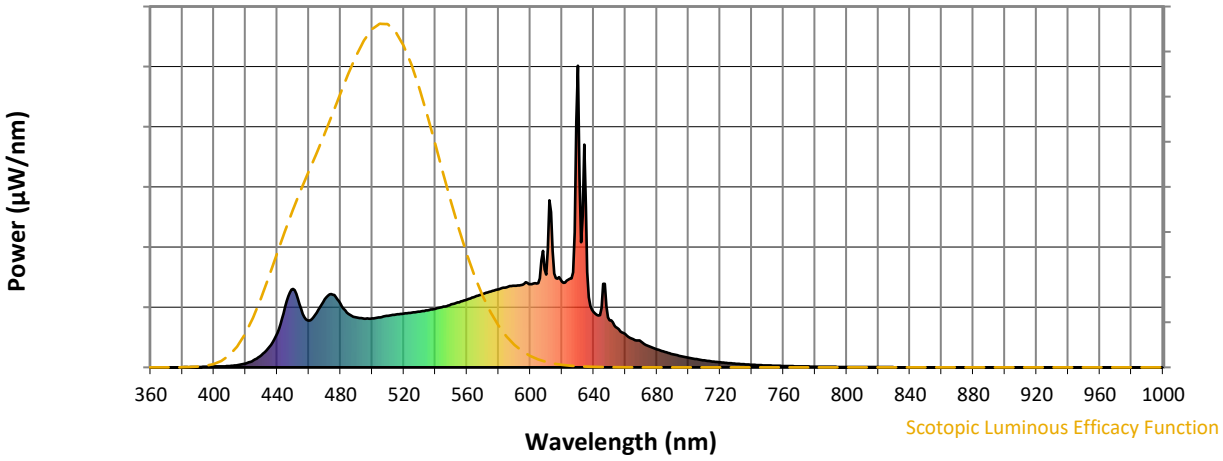


Photopic Lumens: NR

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	165	NR	620	285	NR	750	6	NR	880	0	NR
365	0	NR	495	161	NR	625	293	NR	755	5	NR	885	0	NR
370	0	NR	500	162	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	166	NR	635	530	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	184	NR	770	3	NR	900	0	NR
385	1	NR	515	175	NR	645	198	NR	775	3	NR	905	0	NR
390	1	NR	520	178	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	182	NR	655	131	NR	785	2	NR	915	0	NR
400	3	NR	530	185	NR	660	110	NR	790	2	NR	920	0	NR
405	3	NR	535	189	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	194	NR	670	85	NR	800	1	NR	930	0	NR
415	8	NR	545	201	NR	675	70	NR	805	1	NR	935	0	NR
420	13	NR	550	209	NR	680	60	NR	810	1	NR	940	0	NR
425	23	NR	555	216	NR	685	51	NR	815	1	NR	945	0	NR
430	40	NR	560	225	NR	690	44	NR	820	1	NR	950	0	NR
435	68	NR	565	234	NR	695	37	NR	825	1	NR	955	0	NR
440	114	NR	570	243	NR	700	32	NR	830	1	NR	960	0	NR
445	200	NR	575	251	NR	705	27	NR	835	1	NR	965	0	NR
450	260	NR	580	259	NR	710	23	NR	840	0	NR	970	0	NR
455	194	NR	585	266	NR	715	19	NR	845	0	NR	975	0	NR
460	155	NR	590	271	NR	720	17	NR	850	0	NR	980	0	NR
465	182	NR	595	273	NR	725	14	NR	855	0	NR	985	0	NR
470	226	NR	600	276	NR	730	12	NR	860	0	NR	990	0	NR
475	241	NR	605	279	NR	735	10	NR	865	0	NR	995	0	NR
480	211	NR	610	307	NR	740	9	NR	870	0	NR	1000	0	NR
485	177	NR	615	311	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2510-581-8-R2

Scotopic Flux vs. Wavelength

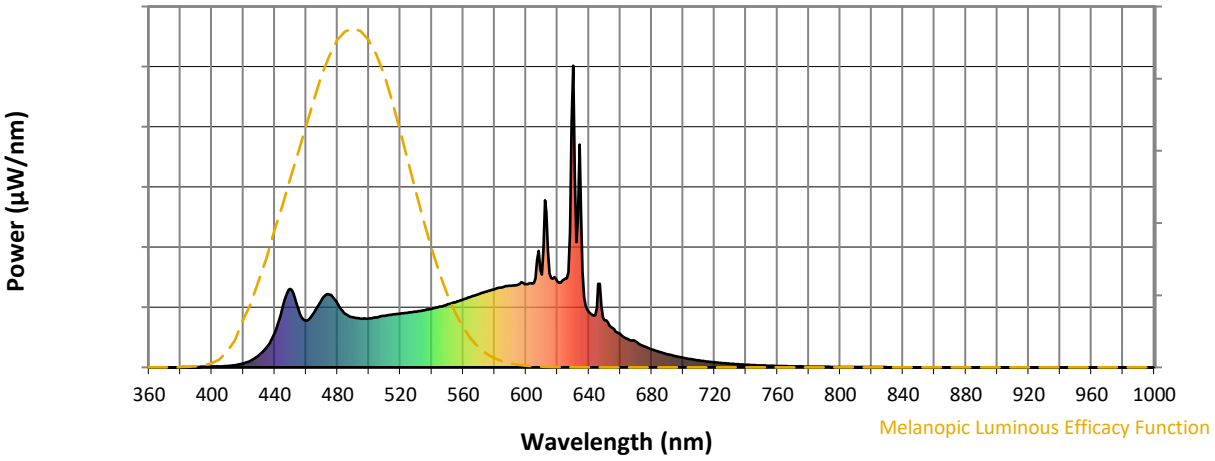


Scotopic Lumens: NR **S/P: 1.78**

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	165	NR	620	285	NR	750	6	NR	880	0	NR
365	0	NR	495	161	NR	625	293	NR	755	5	NR	885	0	NR
370	0	NR	500	162	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	166	NR	635	530	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	184	NR	770	3	NR	900	0	NR
385	1	NR	515	175	NR	645	198	NR	775	3	NR	905	0	NR
390	1	NR	520	178	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	182	NR	655	131	NR	785	2	NR	915	0	NR
400	3	NR	530	185	NR	660	110	NR	790	2	NR	920	0	NR
405	3	NR	535	189	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	194	NR	670	85	NR	800	1	NR	930	0	NR
415	8	NR	545	201	NR	675	70	NR	805	1	NR	935	0	NR
420	13	NR	550	209	NR	680	60	NR	810	1	NR	940	0	NR
425	23	NR	555	216	NR	685	51	NR	815	1	NR	945	0	NR
430	40	NR	560	225	NR	690	44	NR	820	1	NR	950	0	NR
435	68	NR	565	234	NR	695	37	NR	825	1	NR	955	0	NR
440	114	NR	570	243	NR	700	32	NR	830	1	NR	960	0	NR
445	200	NR	575	251	NR	705	27	NR	835	1	NR	965	0	NR
450	260	NR	580	259	NR	710	23	NR	840	0	NR	970	0	NR
455	194	NR	585	266	NR	715	19	NR	845	0	NR	975	0	NR
460	155	NR	590	271	NR	720	17	NR	850	0	NR	980	0	NR
465	182	NR	595	273	NR	725	14	NR	855	0	NR	985	0	NR
470	226	NR	600	276	NR	730	12	NR	860	0	NR	990	0	NR
475	241	NR	605	279	NR	735	10	NR	865	0	NR	995	0	NR
480	211	NR	610	307	NR	740	9	NR	870	0	NR	1000	0	NR
485	177	NR	615	311	NR	745	7	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.85**

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	165	NR	620	285	NR	750	6	NR	880	0	NR
365	0	NR	495	161	NR	625	293	NR	755	5	NR	885	0	NR
370	0	NR	500	162	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	166	NR	635	530	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	184	NR	770	3	NR	900	0	NR
385	1	NR	515	175	NR	645	198	NR	775	3	NR	905	0	NR
390	1	NR	520	178	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	182	NR	655	131	NR	785	2	NR	915	0	NR
400	3	NR	530	185	NR	660	110	NR	790	2	NR	920	0	NR
405	3	NR	535	189	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	194	NR	670	85	NR	800	1	NR	930	0	NR
415	8	NR	545	201	NR	675	70	NR	805	1	NR	935	0	NR
420	13	NR	550	209	NR	680	60	NR	810	1	NR	940	0	NR
425	23	NR	555	216	NR	685	51	NR	815	1	NR	945	0	NR
430	40	NR	560	225	NR	690	44	NR	820	1	NR	950	0	NR
435	68	NR	565	234	NR	695	37	NR	825	1	NR	955	0	NR
440	114	NR	570	243	NR	700	32	NR	830	1	NR	960	0	NR
445	200	NR	575	251	NR	705	27	NR	835	1	NR	965	0	NR
450	260	NR	580	259	NR	710	23	NR	840	0	NR	970	0	NR
455	194	NR	585	266	NR	715	19	NR	845	0	NR	975	0	NR
460	155	NR	590	271	NR	720	17	NR	850	0	NR	980	0	NR
465	182	NR	595	273	NR	725	14	NR	855	0	NR	985	0	NR
470	226	NR	600	276	NR	730	12	NR	860	0	NR	990	0	NR
475	241	NR	605	279	NR	735	10	NR	865	0	NR	995	0	NR
480	211	NR	610	307	NR	740	9	NR	870	0	NR	1000	0	NR
485	177	NR	615	311	NR	745	7	NR	875	0	NR			

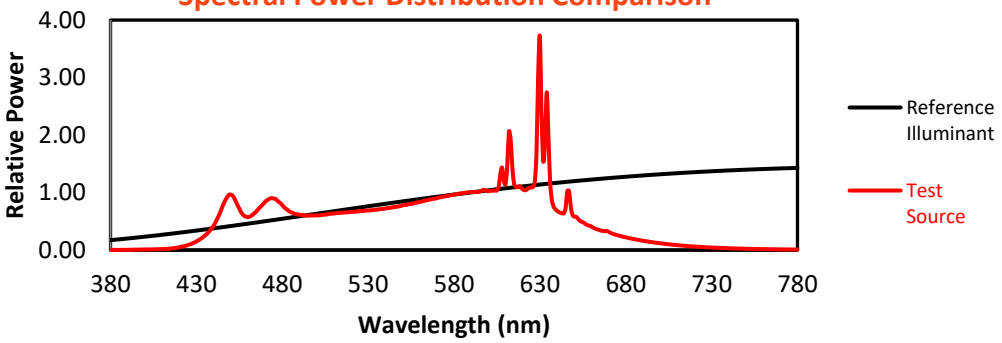
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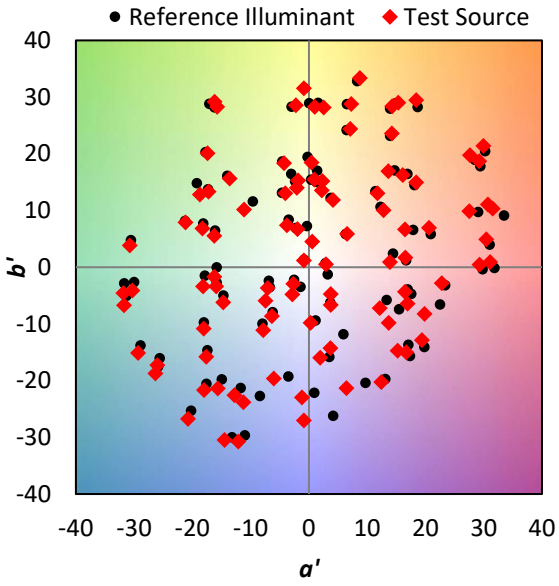
Summary

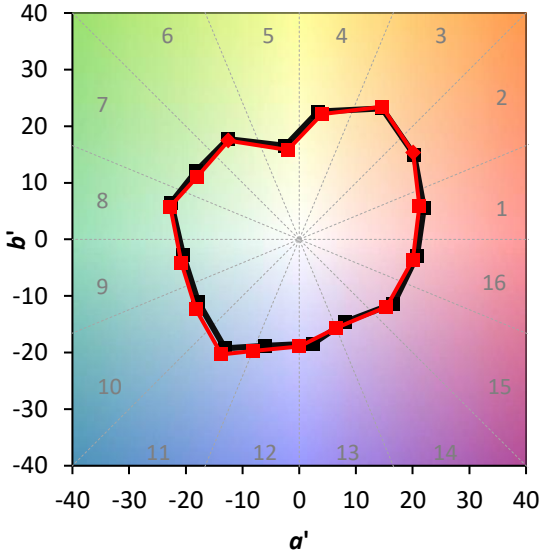
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R_g = 99.5
CIE R_a = 90.6
R_9 = 86.5

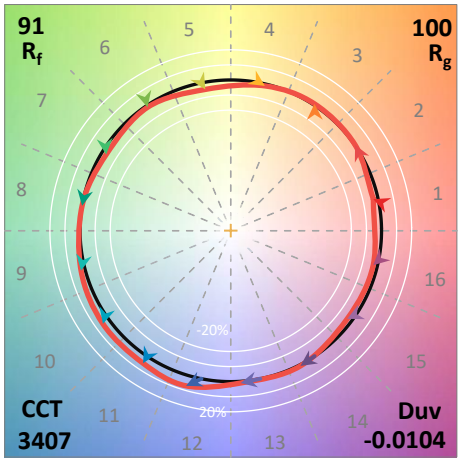
Spectral Power Distribution Comparison

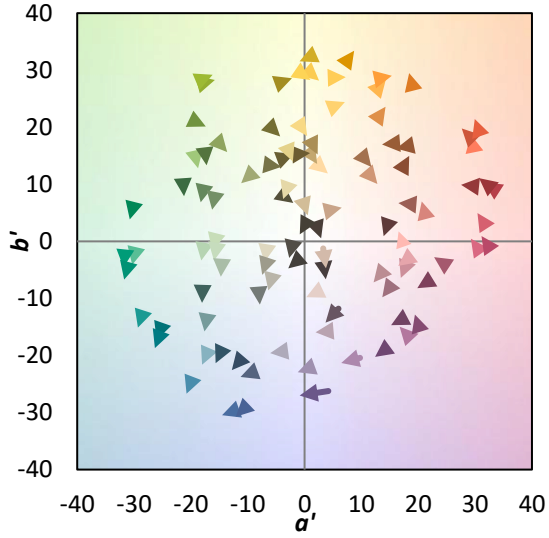


Color Vector Graphics







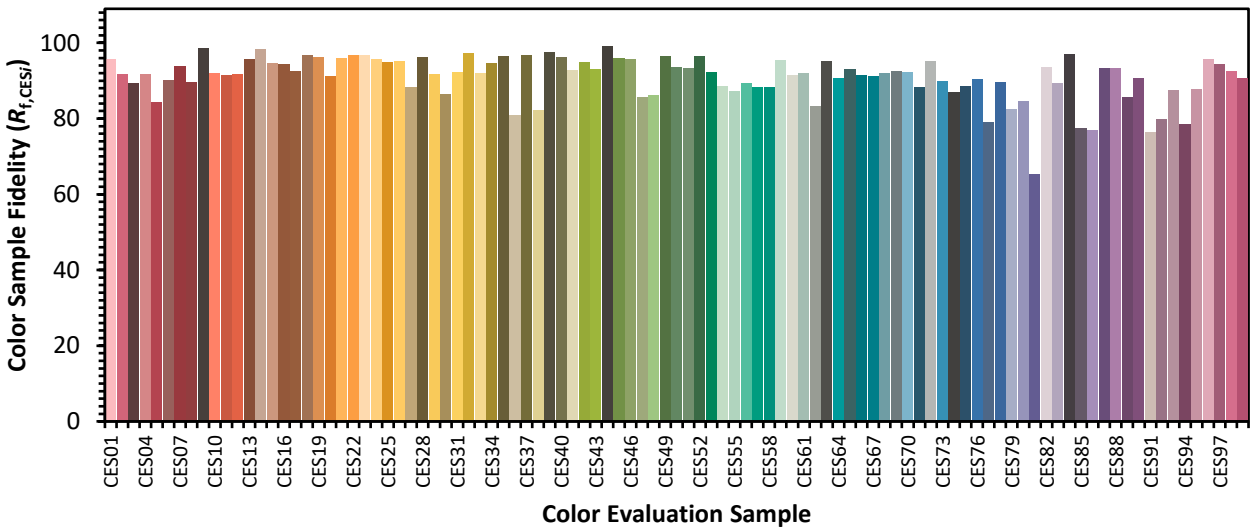


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Individual Sample Fidelity Index ($R_{f,i}$)

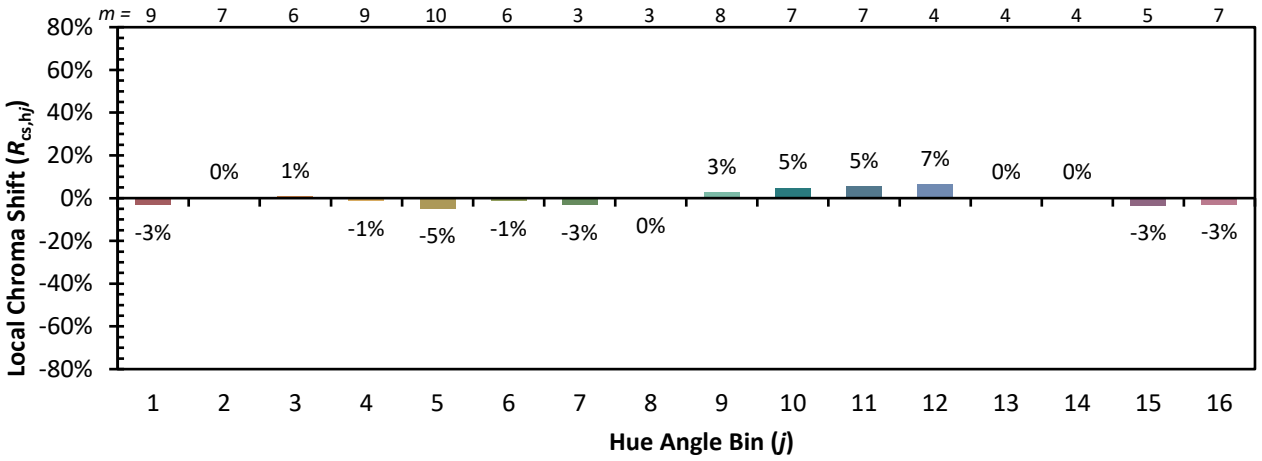
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CES02 = 63	CES27 = 88	CES52 = 97	CES77 = 79
CES03 = 32	CES28 = 96	CES53 = 92	CES78 = 90
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 82
CES05 = 50	CES30 = 87	CES55 = 87	CES80 = 85
CES06 = 51	CES31 = 92	CES56 = 89	CES81 = 65
CES07 = 43	CES32 = 97	CES57 = 88	CES82 = 94
CES08 = 42	CES33 = 92	CES58 = 88	CES83 = 89
CES09 = 29	CES34 = 95	CES59 = 95	CES84 = 97
CES10 = 76	CES35 = 96	CES60 = 91	CES85 = 78
CES11 = 58	CES36 = 81	CES61 = 92	CES86 = 77
CES12 = 65	CES37 = 97	CES62 = 83	CES87 = 93
CES13 = 44	CES38 = 82	CES63 = 95	CES88 = 93
CES14 = 74	CES39 = 98	CES64 = 91	CES89 = 86
CES15 = 72	CES40 = 96	CES65 = 93	CES90 = 91
CES16 = 48	CES41 = 93	CES66 = 91	CES91 = 76
CES17 = 49	CES42 = 95	CES67 = 91	CES92 = 80
CES18 = 57	CES43 = 93	CES68 = 92	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 67	CES45 = 96	CES70 = 92	CES95 = 88
CES21 = 86	CES46 = 96	CES71 = 88	CES96 = 96
CES22 = 78	CES47 = 86	CES72 = 95	CES97 = 94
CES23 = 91	CES48 = 86	CES73 = 90	CES98 = 92
CES24 = 90	CES49 = 97	CES74 = 87	CES99 = 91
CES25 = 71	CES50 = 94	CES75 = 89	

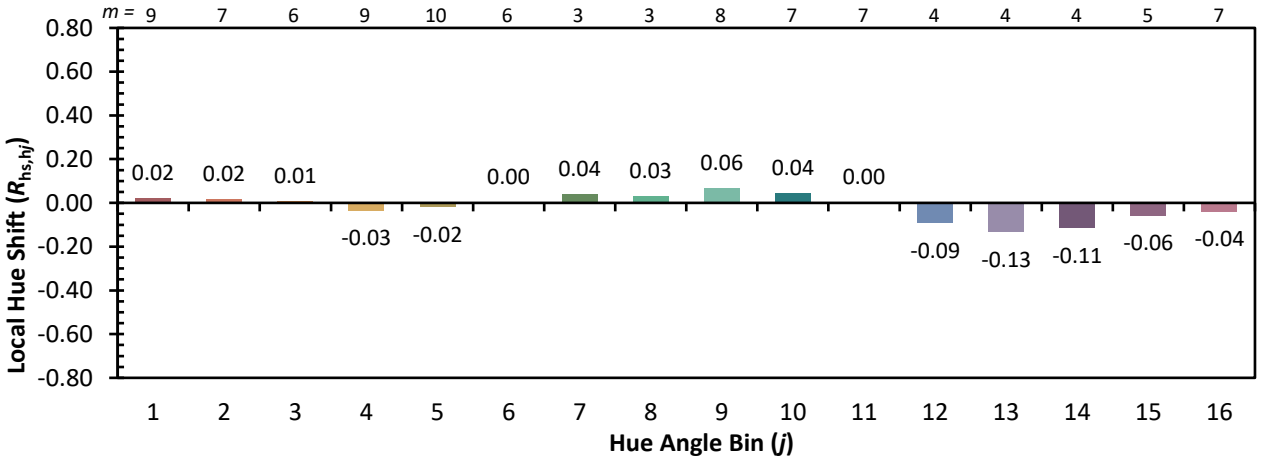


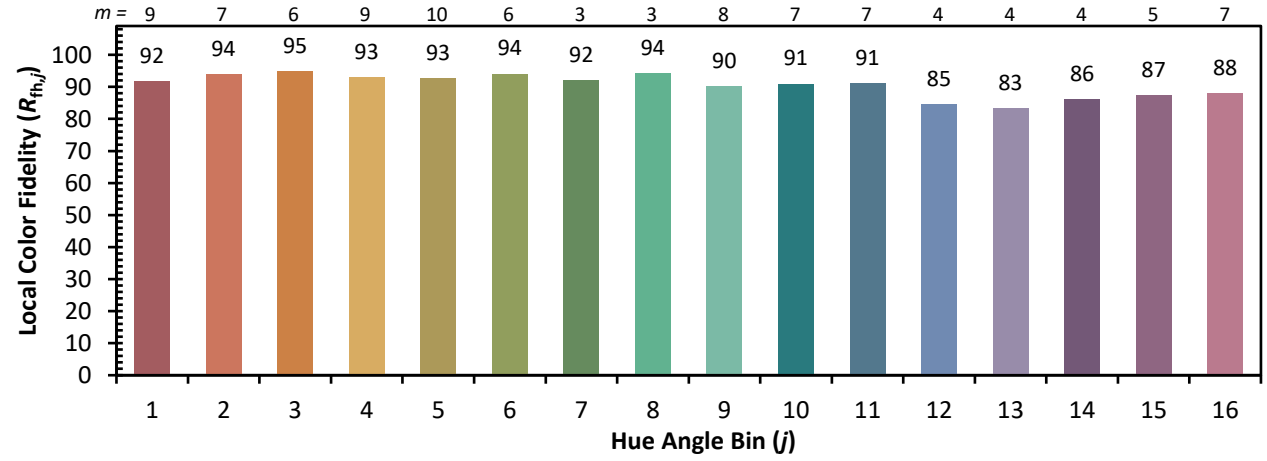
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Color Rendition by Hue-Angle Bin



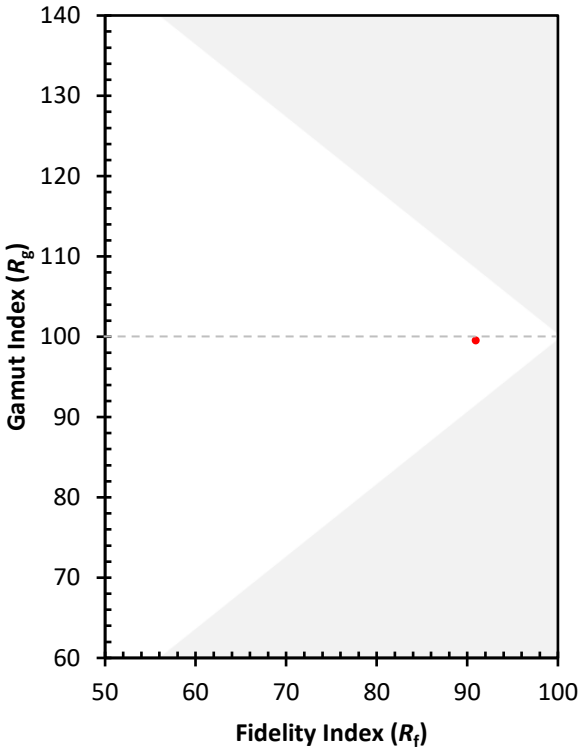


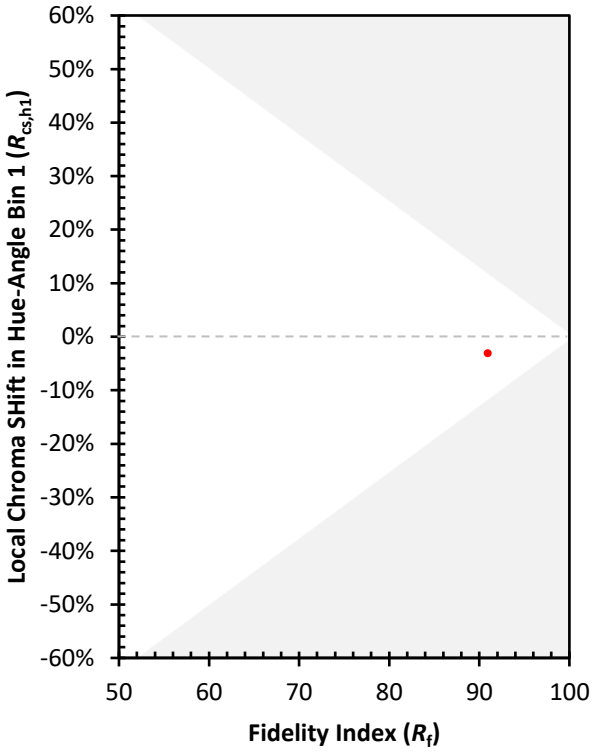


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Measure Comparisons





(END OF REPORT)