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: FAIL-SAFE

Report Number: P1357372

Luminaire Tested: 6ASL4-35VHE-3-A59-UNV

Issue Date: 2/17/2026

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:	P1357372
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)
Test Lab:	INNOVATION CENTER
Issue Date:	2/17/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	FAIL-SAFE
Catalog Number:	6ASL4-35VHE-3-A59-UNV
Description:	6FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 3 ROW
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4239.0 lumens
Efficiency:	N/A
Efficacy:	32.3 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.3 / 1.39
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	131.3
Input Voltage (V):	NR
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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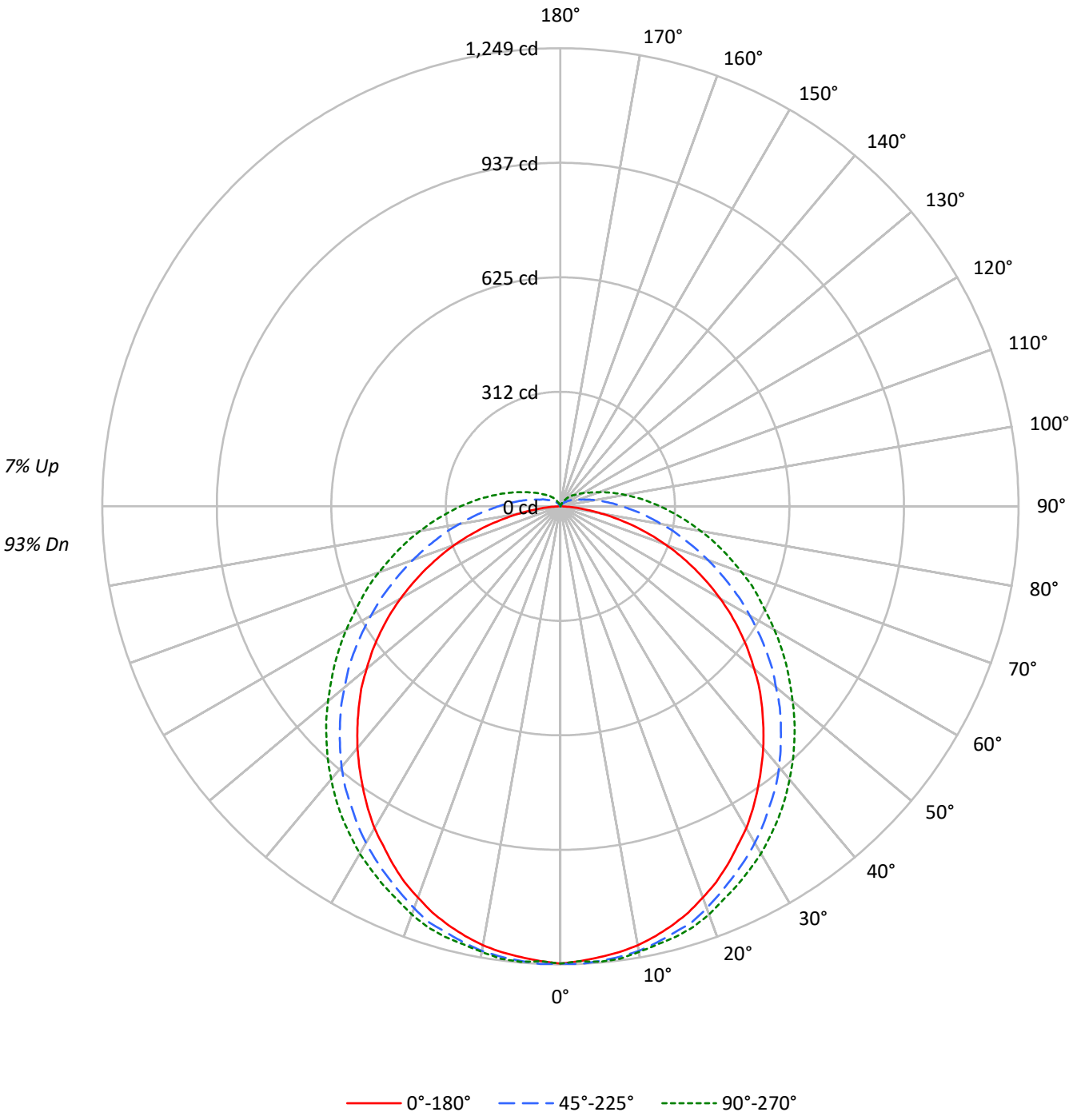
Luminous Intensity Polar Plot



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	32	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6733	6733	6733
5°	6679	6610	6579
10°	6646	6485	6413
15°	6578	6329	6272
20°	6484	6179	6113
25°	6374	5990	5932
30°	6258	5826	5779
35°	6112	5641	5608
40°	5979	5471	5429
45°	5837	5265	5249
50°	5675	5044	5062
55°	5500	4833	4894
60°	5272	4587	4723
65°	4982	4349	4581
70°	4610	4116	4471
75°	4064	3903	4394
80°	3227	3747	4362
85°	2010	3723	4427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5837 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	2.8
10°-20°	339.4	8.0
20°-30°	513.2	12.1
30°-40°	621.4	14.7
40°-50°	652.7	15.4
50°-60°	608.9	14.4
60°-70°	503.2	11.9
70°-80°	362.3	8.5
80°-90°	225.2	5.3
90°-100°	131.9	3.1
100°-110°	75.5	1.8
110°-120°	42.6	1.0
120°-130°	24.5	0.6
130°-140°	13.2	0.3
140°-150°	5.6	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	970.9	22.9
0°-40°	1592.3	37.6
0°-60°	2853.9	67.3
0°-90°	3944.6	93.1
90°-120°	250.0	5.9
90°-150°	293.3	6.9
90°-180°	294.0	6.9
0°-180°	4239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1234	1244	1244	1244	1247	117
15°	1182	1198	1203	1210	1216	333
25°	1078	1096	1115	1130	1140	497
35°	938	964	995	1024	1037	587
45°	778	806	850	886	902	600
55°	599	632	684	734	752	535
65°	404	443	511	575	599	400
75°	207	259	350	425	456	219
85°	39	117	220	298	327	48
90°	0	70	168	241	272	2
95°	0	44	127	194	223	0
105°	0	16	70	122	143	0
115°	0	8	42	75	88	0
125°	0	5	26	49	57	0
135°	0	0	16	31	39	0
145°	0	0	8	18	21	0
155°	0	0	0	5	8	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.7	*1246.7*	1246.7	1246.7	1246.7
2.5°	*1241.6*	*1249.3*	*1249.3*	*1241.6*	*1241.6*
5°	1233.8	*1244.2*	1244.2	1244.2	1246.7
7.5°	1226.0	*1239.0*	1239.0	1239.0	1244.2
10°	1215.6	*1228.6*	1231.2	1231.2	1233.8
12.5°	1200.1	*1215.6*	1218.2	1220.8	1223.4
15°	1181.9	*1197.5*	1202.7	1210.5	1215.6
17.5°	1161.2	*1179.4*	1189.7	1197.5	1202.7
20°	1135.3	*1153.4*	1166.4	1176.8	1184.5
22.5°	1109.4	*1124.9*	1140.5	1153.4	1161.2
25°	1078.3	*1096.4*	1114.6	1130.1	1140.5
27.5°	1044.6	*1065.3*	1088.6	1106.8	1117.1
30°	1013.5	*1034.2*	1060.1	1083.5	1093.8
32.5°	977.2	*1000.5*	1029.0	1052.3	1065.3
35°	938.3	*964.2*	995.3	1023.8	1036.8
37.5°	899.4	*925.3*	964.2	992.7	1005.7
40°	860.5	*886.5*	927.9	959.0	972.0
42.5°	819.1	*845.0*	889.1	922.7	938.3
45°	777.6	*806.1*	850.2	886.5	902.0
47.5°	736.1	*764.6*	811.3	850.2	865.7
50°	689.5	*720.6*	767.2	811.3	826.8
52.5°	645.4	*676.5*	728.3	772.4	788.0
55°	598.7	*632.4*	684.3	733.5	751.7
57.5°	552.1	*585.8*	640.2	692.1	712.8
60°	502.8	*539.1*	596.2	650.6	673.9
62.5°	453.6	*492.5*	554.7	611.7	635.0
65°	404.4	*443.2*	510.6	575.4	598.7
67.5°	355.1	*396.6*	469.2	536.5	565.1
70°	305.9	*349.9*	427.7	497.7	526.2
72.5°	256.6	*303.3*	388.8	461.4	489.9
75°	207.4	*259.2*	349.9	425.1	456.2
77.5°	158.1	*217.7*	316.2	391.4	422.5
80°	114.0	*181.4*	279.9	357.7	388.8
82.5°	72.6	*145.2*	248.8	326.6	357.7
85°	38.9	*116.6*	220.3	298.1	326.6
87.5°	13.0	*90.7*	191.8	269.6	298.1
90°	0.0	*70.0*	168.5	241.1	272.2
92.5°	0.0	*54.4*	147.7	217.7	246.2
95°	0.0	*44.1*	127.0	194.4	222.9
97.5°	0.0	*36.3*	111.5	173.7	199.6
100°	0.0	*28.5*	95.9	155.5	178.8
102.5°	0.0	*23.3*	82.9	137.4	160.7
105°	0.0	*15.6*	70.0	121.8	142.6
107.5°	0.0	*13.0*	59.6	108.9	127.0
110°	0.0	*10.4*	54.4	93.3	111.5

TEST NUMBER: P1357372
CATALOG NUMBER: 6ASL4-35VHE-3-A59-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	*7.8*	49.2	82.9	101.1
115°	0.0	*7.8*	41.5	75.2	88.1
117.5°	0.0	*7.8*	36.3	67.4	80.4
120°	0.0	*5.2*	33.7	59.6	72.6
122.5°	0.0	*5.2*	28.5	54.4	64.8
125°	0.0	*5.2*	25.9	49.2	57.0
127.5°	0.0	*2.6*	23.3	44.1	51.8
130°	0.0	*2.6*	20.7	38.9	46.7
132.5°	0.0	*2.6*	18.1	36.3	44.1
135°	0.0	*0.0*	15.6	31.1	38.9
137.5°	0.0	*0.0*	13.0	28.5	33.7
140°	0.0	*0.0*	10.4	23.3	31.1
142.5°	0.0	*0.0*	7.8	20.7	25.9
145°	0.0	*0.0*	7.8	18.1	20.7
147.5°	0.0	*0.0*	5.2	13.0	18.1
150°	0.0	*0.0*	2.6	10.4	13.0
152.5°	0.0	*0.0*	0.0	7.8	10.4
155°	0.0	*0.0*	0.0	5.2	7.8
157.5°	0.0	*0.0*	0.0	0.0	2.6
160°	0.0	*0.0*	0.0	0.0	0.0
162.5°	0.0	*0.0*	0.0	0.0	0.0
165°	0.0	*0.0*	0.0	0.0	0.0
167.5°	0.0	*0.0*	0.0	0.0	0.0
170°	0.0	*0.0*	0.0	0.0	0.0
172.5°	0.0	*0.0*	0.0	0.0	0.0
175°	0.0	*0.0*	0.0	0.0	0.0
177.5°	0.0	*0.0*	0.0	0.0	0.0
180°	0.0	*0.0*	0.0	0.0	0.0

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TEST NUMBER: P1357372
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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	15.97	17.51	16.44	17.96	18.45	18.02	19.56	18.49	20.02	20.50
	3H	17.47	18.87	17.95	19.33	19.86	20.50	21.90	20.98	22.37	22.89
	4H	17.95	19.28	18.45	19.76	20.30	21.71	23.04	22.21	23.52	24.06
	6H	18.22	19.46	18.74	19.96	20.51	22.98	24.22	23.49	24.71	25.27
	8H	18.27	19.46	18.80	19.98	20.54	23.64	24.83	24.17	25.35	25.91
	12H	18.29	19.43	18.82	19.94	20.53	24.37	25.51	24.91	26.03	26.62
4H	2H	16.85	18.18	17.35	18.66	19.20	18.46	19.79	18.96	20.27	20.81
	3H	18.59	19.72	19.10	20.25	20.81	21.16	22.29	21.67	22.82	23.38
	4H	19.19	20.23	19.72	20.76	21.36	22.54	23.58	23.07	24.11	24.70
	6H	19.59	20.50	20.14	21.07	21.67	24.00	24.92	24.55	25.48	26.08
	8H	19.68	20.54	20.24	21.11	21.73	24.77	25.63	25.33	26.19	26.81
	12H	19.73	20.51	20.31	21.10	21.72	25.63	26.41	26.21	27.00	27.62
8H	4H	19.88	20.74	20.44	21.30	21.92	22.75	23.62	23.31	24.18	24.80
	6H	20.46	21.19	21.05	21.79	22.42	24.38	25.12	24.98	25.72	26.34
	8H	20.64	21.30	21.24	21.91	22.55	25.29	25.95	25.90	26.57	27.20
	12H	20.75	21.34	21.36	21.95	22.65	26.34	26.93	26.94	27.53	28.23
12H	4H	20.07	20.86	20.66	21.45	22.07	22.76	23.54	23.34	24.13	24.76
	6H	20.75	21.42	21.36	22.03	22.67	24.42	25.08	25.02	25.70	26.33
	8H	21.03	21.62	21.64	22.23	22.93	25.40	25.99	26.00	26.59	27.29

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-9

Test Date: 01/22/2026

Luminaire Tested: 4ASL-2-A590-UNV-OPL-1_600mA

Data in this report applies to families of products including 4ASL

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

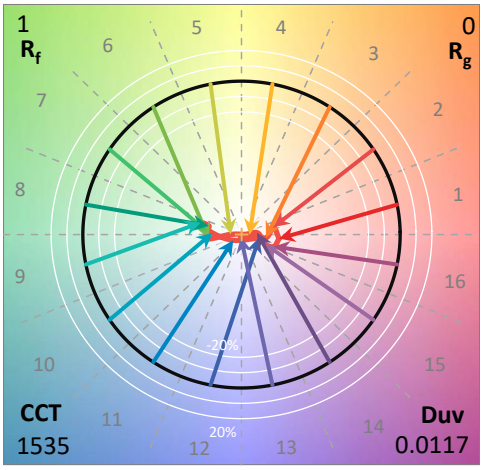
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2511-597-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	01/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Fail-Safe
Catalog Number:	**4ASL-2-A590-UNV-OPL-1_600mA**
Description:	2foot 4ASL LED LUMINAIRE WITH OPL LENS AND AMBER 590 LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K):	1535
CIE u':	0.3534
CIE v':	0.5468
Duv:	0.0117
CIE x:	0.5921
CIE y:	0.4072
CIE z:	0.0007
Peak Wavelength (nm):	598
Dominant Wavelength (nm):	592
Purity:	99.97894
Rf:	1.3
Rg:	0.1

CRI (Ra):	-20.0		
R1:	-32.1	R9:	-380.5
R2:	53.1	R10:	29.9
R3:	18.5	R11:	-92.0
R4:	-65.7	R12:	-8.5
R5:	-38.6	R13:	-13.5
R6:	42.8	R14:	47.1
R7:	-6.2	R15:	-65.4
R8:	-132.3		



Test Conditions

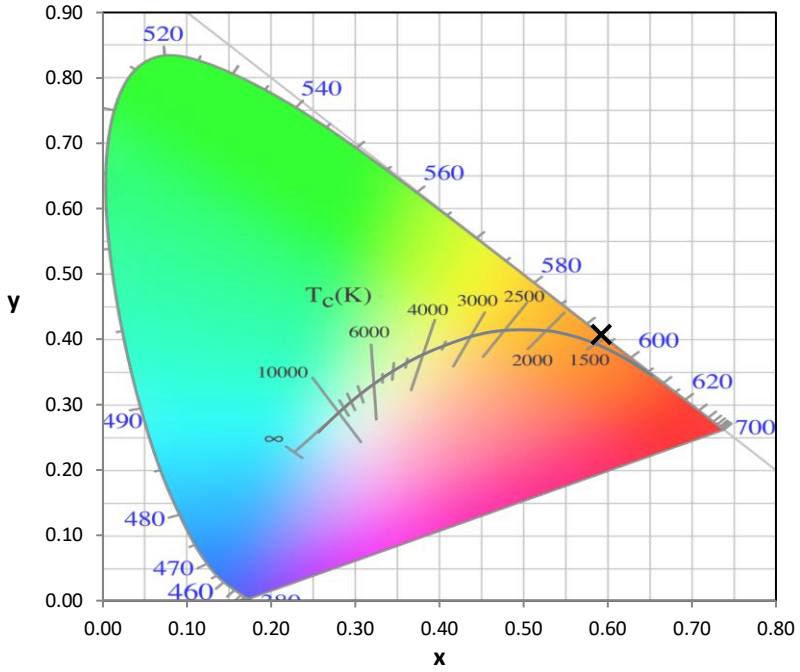
Stabilization Time:	77M
Operation Time:	2H 17M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2511-597-9

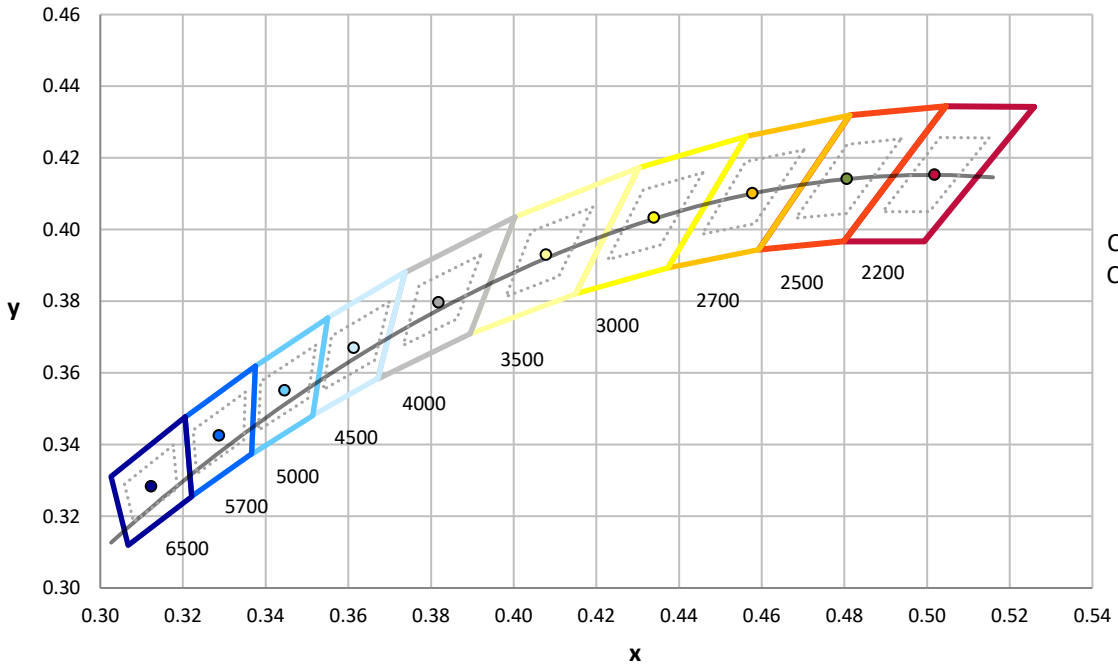
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2511-597-9

CIE 1931 Chromaticity Diagram



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

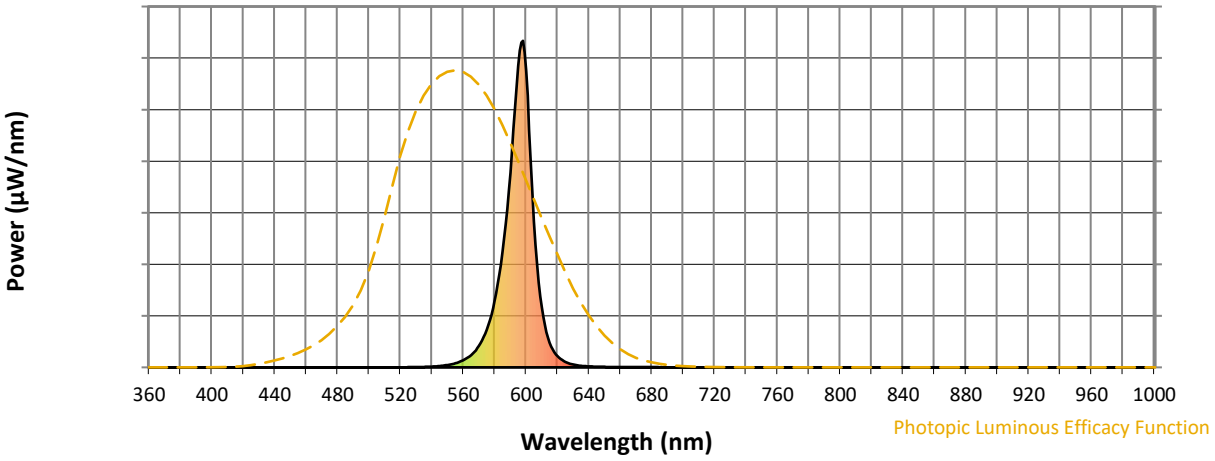


CCT = 1535K
CIE x = 0.5921
CIE y = 0.4072
Duv = 0.0117

Point lies outside the range

REPORT NUMBER: SP1-2511-597-9

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	0	NR	620	35	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	17	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	9	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	66	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	115	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	203	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	354	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	596	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	923	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	909	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	447	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	183	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	75	NR	745	0	NR	875	0	NR			

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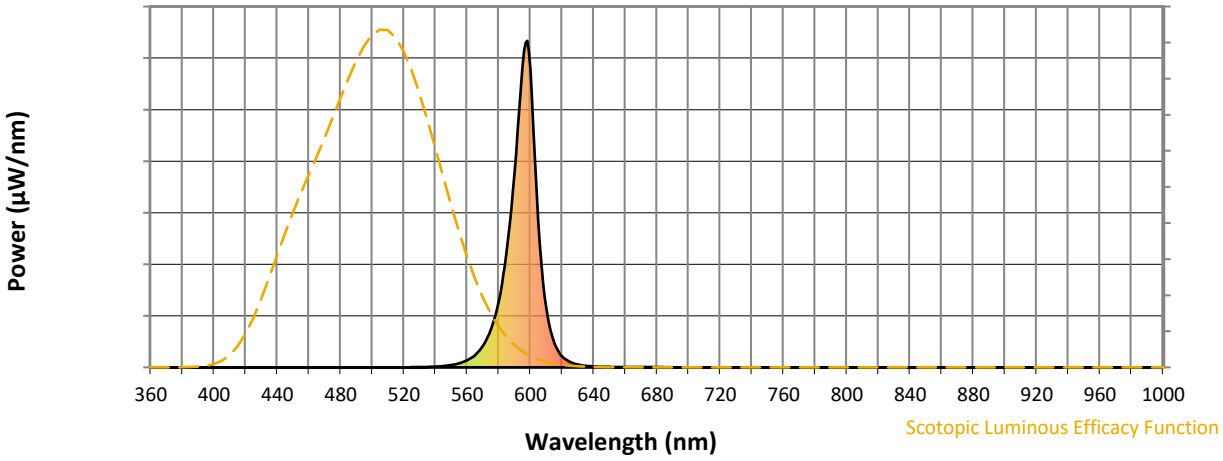
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 0.22**

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	0	NR	620	35	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	17	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	9	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	66	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	115	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	203	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	354	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	596	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	923	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	909	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	447	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	183	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	75	NR	745	0	NR	875	0	NR			

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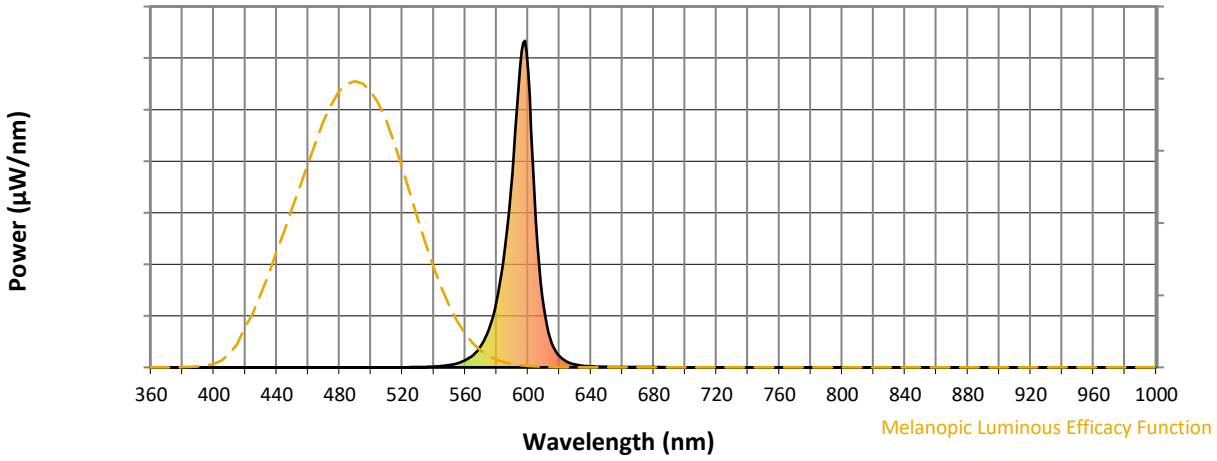
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 0.12**

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	0	NR	620	35	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	17	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	9	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	66	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	115	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	203	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	354	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	596	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	923	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	909	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	447	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	183	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	75	NR	745	0	NR	875	0	NR			

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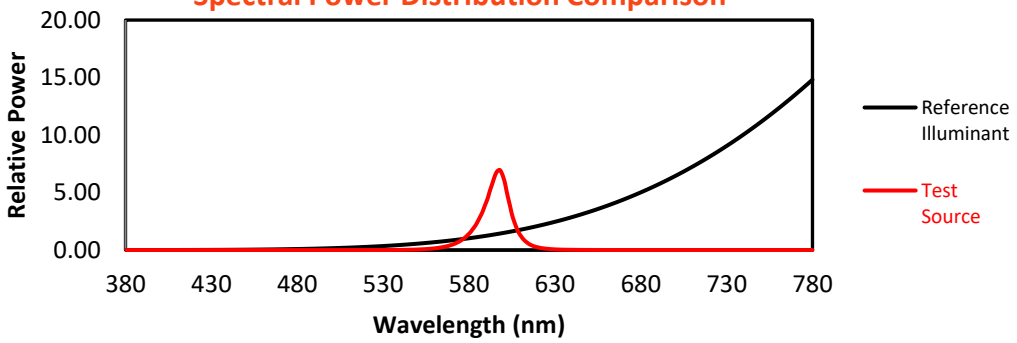
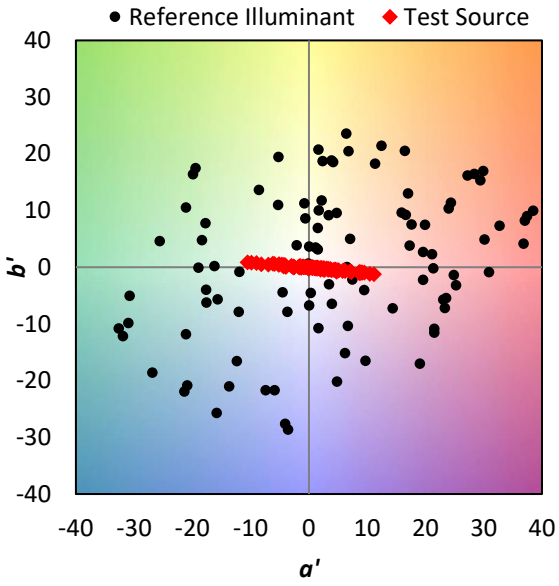
Summary

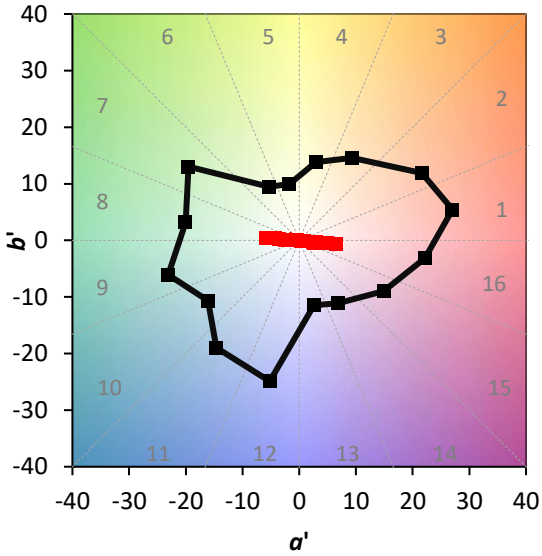
R_f = 1.3
R_g = 0.1
CIE R_a = -20.0
R_9 = -380.5

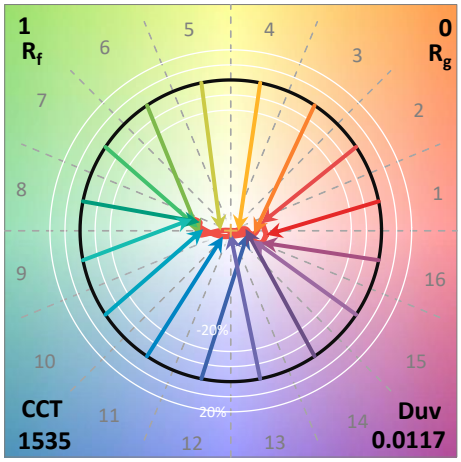
Spectral Power Distribution Comparison

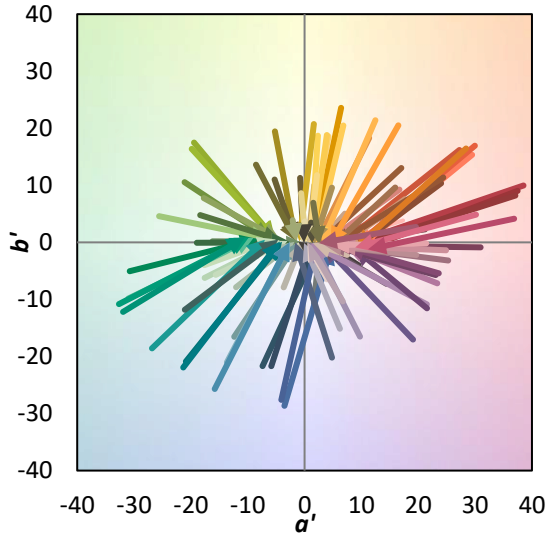


Color Vector Graphics









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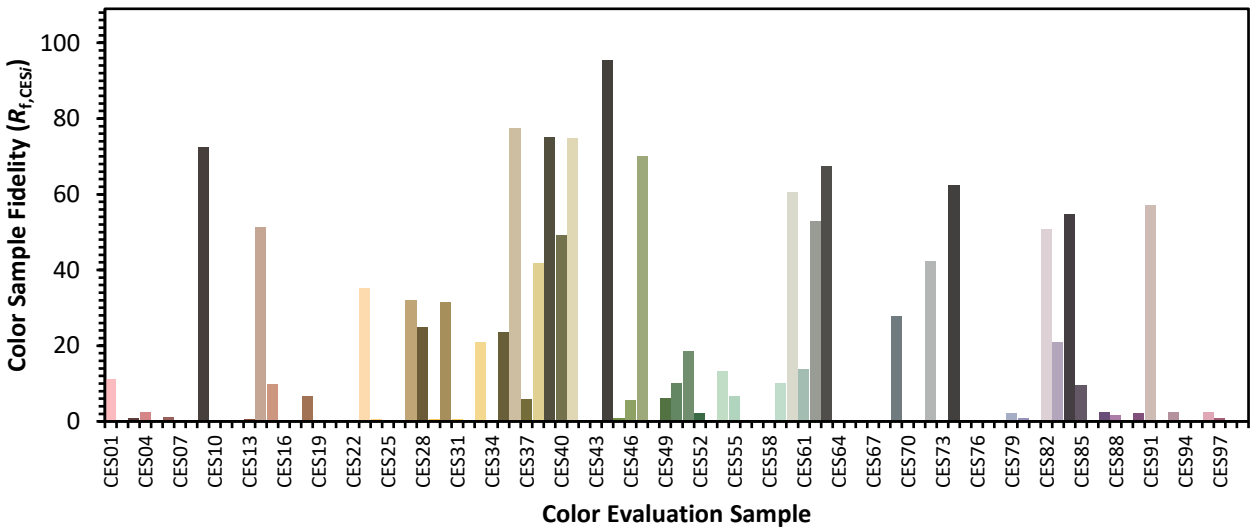
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 90	CES26 = 0	CES51 = 19	CES76 = 0
CES02 = 70	CES27 = 32	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 25	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 13	CES79 = 2
CES05 = 52	CES30 = 31	CES55 = 7	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 51
CES08 = 39	CES33 = 21	CES58 = 0	CES83 = 21
CES09 = 29	CES34 = 0	CES59 = 10	CES84 = 55
CES10 = 87	CES35 = 24	CES60 = 60	CES85 = 10
CES11 = 70	CES36 = 77	CES61 = 14	CES86 = 0
CES12 = 76	CES37 = 6	CES62 = 53	CES87 = 2
CES13 = 47	CES38 = 42	CES63 = 68	CES88 = 2
CES14 = 77	CES39 = 75	CES64 = 0	CES89 = 0
CES15 = 74	CES40 = 49	CES65 = 0	CES90 = 2
CES16 = 49	CES41 = 75	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 60	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 95	CES69 = 28	CES94 = 0
CES20 = 71	CES45 = 1	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 6	CES71 = 0	CES96 = 2
CES22 = 87	CES47 = 70	CES72 = 42	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 6	CES74 = 62	CES99 = 0
CES25 = 79	CES50 = 10	CES75 = 0	



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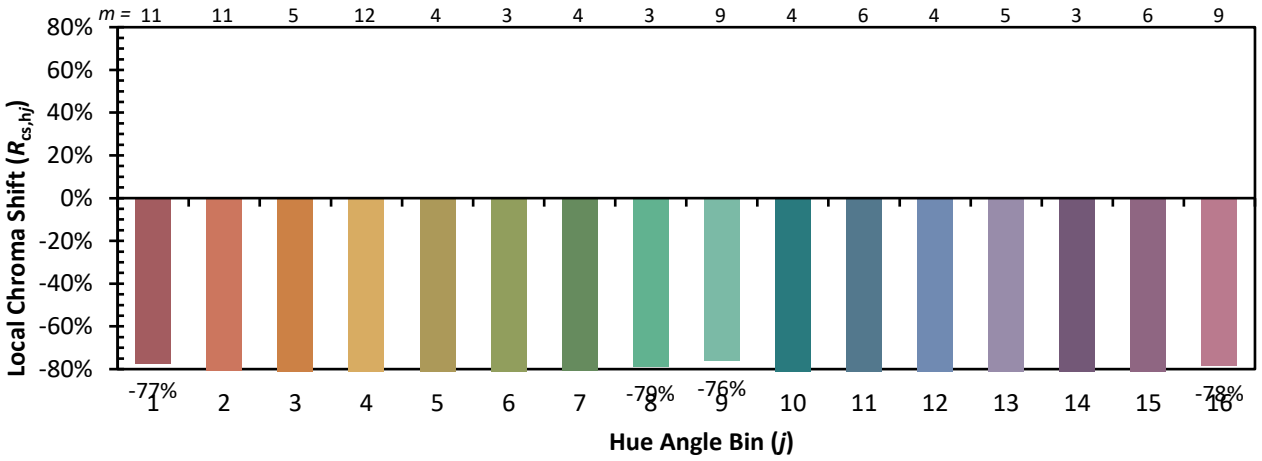
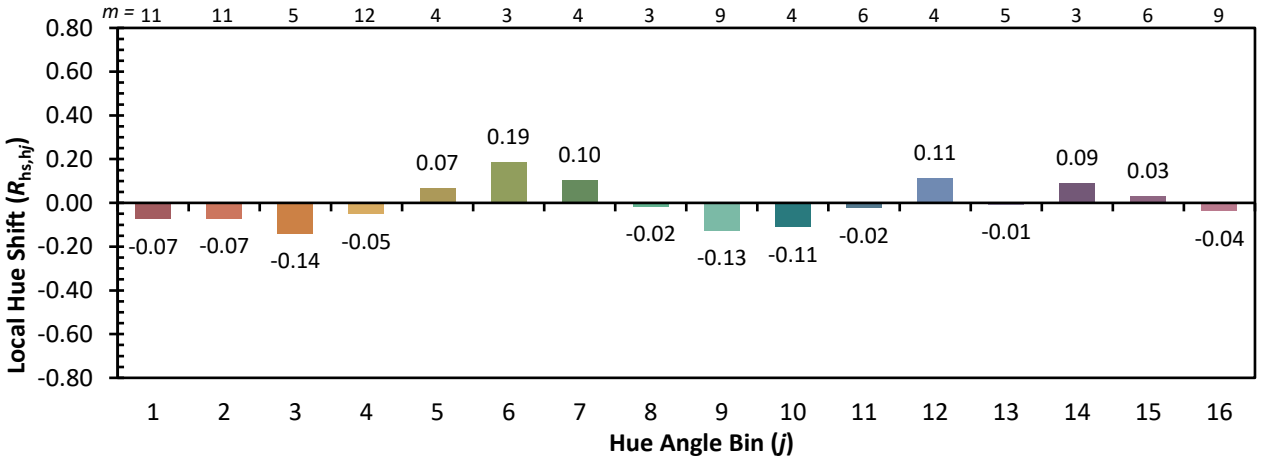
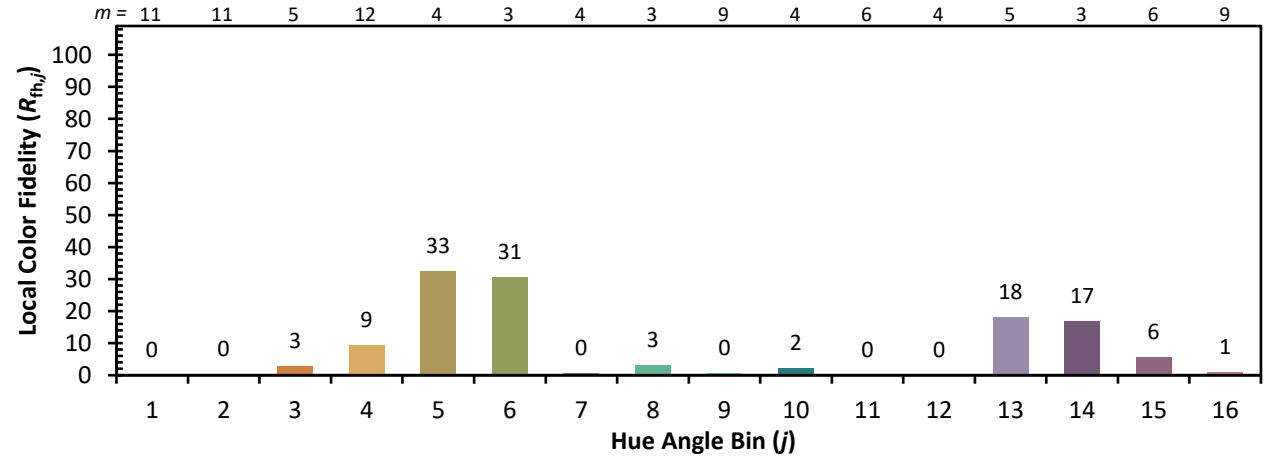
Color Rendition by Hue-Angle Bin







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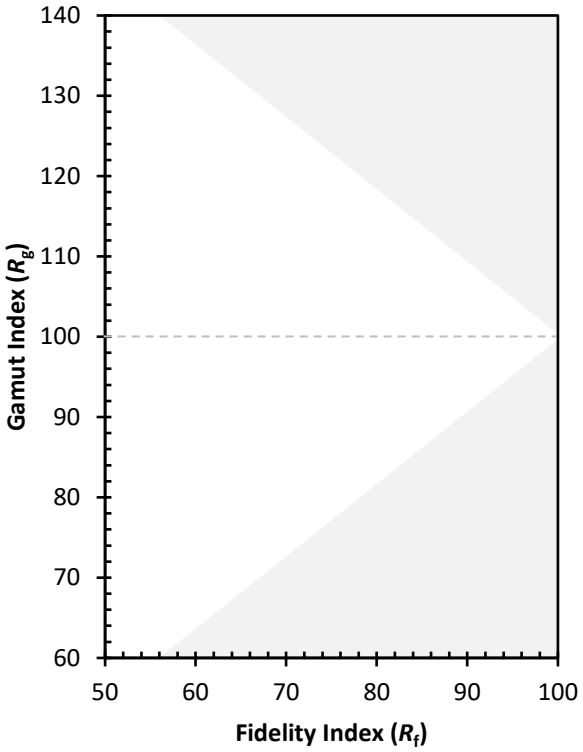
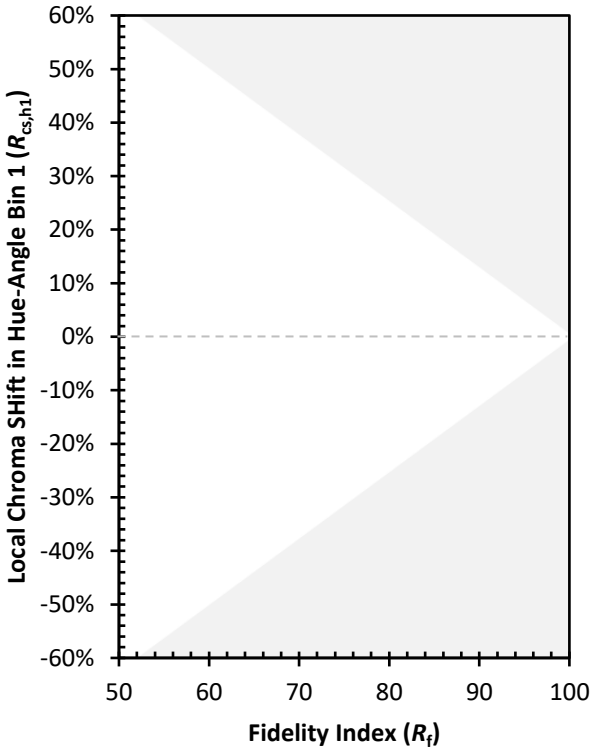
Measure Comparisons





(END OF REPORT)