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: P1357337

Luminaire Tested: 6ASL4-20HE-2-G52-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:	P1357337
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)
Test Lab:	INNOVATION CENTER
Issue Date:	2/17/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	FAIL-SAFE
Catalog Number:	6ASL4-20HE-2-G52-UNV
Description:	6FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 2 ROW
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6085.0 lumens
Efficiency:	N/A
Efficacy:	49.2 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.3 / 1.4
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	123.7
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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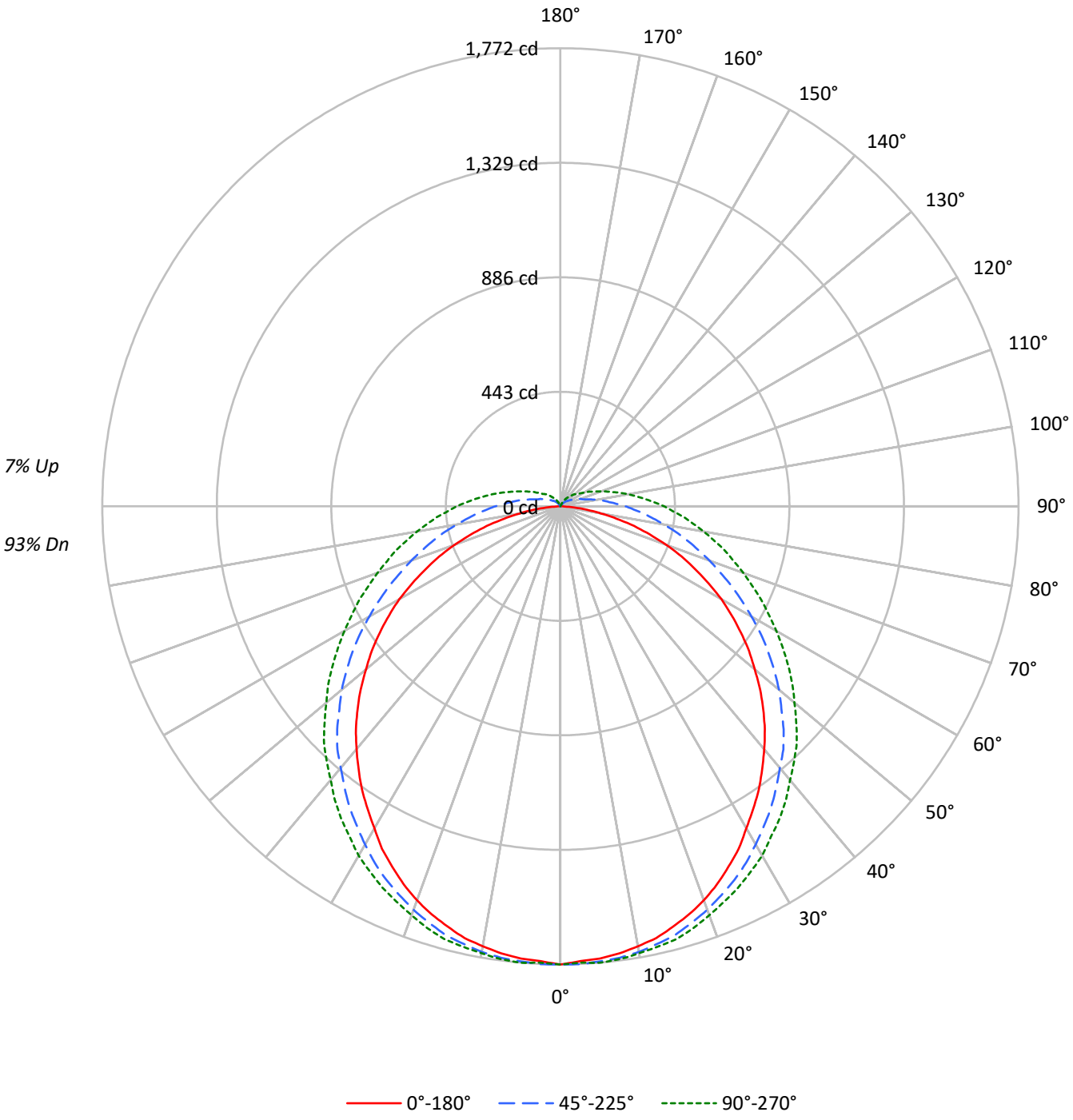
Luminous Intensity Polar Plot



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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	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	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	34	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9573	9573	9573
5°	9504	9387	9354
10°	9447	9219	9126
15°	9368	9034	8944
20°	9263	8799	8687
25°	9094	8567	8465
30°	8879	8302	8245
35°	8713	8055	7990
40°	8521	7789	7721
45°	8327	7560	7525
50°	8075	7255	7234
55°	7835	6929	7004
60°	7539	6561	6758
65°	7072	6220	6568
70°	6552	5900	6393
75°	5788	5658	6335
80°	4574	5448	6316
85°	2878	5464	6498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	2.8
10°-20°	483.2	7.9
20°-30°	732.2	12.0
30°-40°	885.5	14.6
40°-50°	933.5	15.3
50°-60°	871.3	14.3
60°-70°	719.4	11.8
70°-80°	521.9	8.6
80°-90°	329.7	5.4
90°-100°	196.8	3.2
100°-110°	112.8	1.9
110°-120°	64.1	1.1
120°-130°	36.6	0.6
130°-140°	19.8	0.3
140°-150°	8.7	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1383.4	22.7
0°-40°	2269.0	37.3
0°-60°	4073.8	66.9
0°-90°	5644.7	92.8
90°-120°	373.7	6.1
90°-150°	438.7	7.2
90°-180°	440.0	7.2
0°-180°	6085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1756	1772	1767	1767	1772	167
15°	1683	1706	1717	1722	1734	475
25°	1538	1561	1594	1616	1628	709
35°	1338	1371	1421	1460	1477	836
45°	1109	1154	1221	1271	1293	855
55°	853	903	981	1048	1076	762
65°	574	635	730	819	858	570
75°	295	374	507	613	658	311
85°	56	173	323	435	479	68
90°	0	106	251	357	401	2
95°	0	67	190	290	329	0
105°	0	22	106	184	212	0
115°	0	11	61	112	134	0
125°	0	6	39	72	84	0
135°	0	0	22	45	56	0
145°	0	0	11	28	33	0
155°	0	0	0	6	11	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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TEST NUMBER: P1357337
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1772.5	1772.5	1772.5	1772.5	1772.5
2.5°	1761.3	1778.1	1772.5	1766.9	1766.9
5°	1755.8	1772.5	1766.9	1766.9	1772.5
7.5°	1744.6	1761.3	1761.3	1761.3	1766.9
10°	1727.9	1750.2	1750.2	1750.2	1755.8
12.5°	1711.2	1727.9	1733.5	1739.1	1744.6
15°	1683.3	1705.6	1716.8	1722.3	1733.5
17.5°	1655.4	1672.2	1688.9	1705.6	1711.2
20°	1622.0	1644.3	1661.0	1677.7	1683.3
22.5°	1583.0	1605.3	1627.6	1644.3	1655.4
25°	1538.4	1560.7	1594.1	1616.4	1627.6
27.5°	1493.8	1516.1	1555.1	1583.0	1594.1
30°	1438.1	1471.5	1510.5	1544.0	1560.7
32.5°	1387.9	1421.3	1465.9	1505.0	1516.1
35°	1337.7	1371.2	1421.3	1460.4	1477.1
37.5°	1282.0	1321.0	1371.2	1415.8	1432.5
40°	1226.3	1265.3	1321.0	1371.2	1382.3
42.5°	1170.5	1209.5	1276.4	1321.0	1337.7
45°	1109.2	1153.8	1220.7	1270.8	1293.1
47.5°	1047.9	1092.5	1159.4	1215.1	1237.4
50°	981.0	1031.2	1103.6	1159.4	1181.7
52.5°	919.7	969.9	1042.3	1103.6	1131.5
55°	852.8	903.0	981.0	1047.9	1075.8
57.5°	785.9	836.1	919.7	992.2	1020.0
60°	719.0	769.2	852.8	936.4	964.3
62.5°	646.6	702.3	791.5	875.1	908.5
65°	574.1	635.4	730.2	819.4	858.4
67.5°	507.2	568.5	668.9	769.2	802.6
70°	434.8	501.7	613.1	713.5	752.5
72.5°	362.3	434.8	557.4	663.3	702.3
75°	295.4	373.5	507.2	613.1	657.7
77.5°	223.0	317.7	457.1	568.5	607.6
80°	161.6	262.0	406.9	523.9	563.0
82.5°	105.9	211.8	362.3	479.4	518.4
85°	55.7	172.8	323.3	434.8	479.4
87.5°	16.7	133.8	284.3	395.7	434.8
90°	0.0	105.9	250.8	356.7	401.3
92.5°	0.0	83.6	217.4	323.3	362.3
95°	0.0	66.9	189.5	289.8	328.9
97.5°	0.0	55.7	167.2	262.0	295.4
100°	0.0	44.6	144.9	234.1	267.5
102.5°	0.0	33.4	122.6	206.2	239.7
105°	0.0	22.3	105.9	183.9	211.8
107.5°	0.0	16.7	89.2	161.6	189.5
110°	0.0	16.7	83.6	139.3	167.2

TEST NUMBER: P1357337
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	*11.1*	72.5	128.2	150.5
115°	0.0	*11.1*	61.3	111.5	133.8
117.5°	0.0	*11.1*	55.7	100.3	122.6
120°	0.0	*11.1*	50.2	89.2	105.9
122.5°	0.0	*5.6*	44.6	78.0	94.8
125°	0.0	*5.6*	39.0	72.5	83.6
127.5°	0.0	*5.6*	33.4	66.9	78.0
130°	0.0	*5.6*	33.4	61.3	72.5
132.5°	0.0	*0.0*	27.9	55.7	66.9
135°	0.0	*0.0*	22.3	44.6	55.7
137.5°	0.0	*0.0*	22.3	39.0	50.2
140°	0.0	*0.0*	16.7	39.0	44.6
142.5°	0.0	*0.0*	11.1	33.4	39.0
145°	0.0	*0.0*	11.1	27.9	33.4
147.5°	0.0	*0.0*	5.6	22.3	27.9
150°	0.0	*0.0*	5.6	16.7	22.3
152.5°	0.0	*0.0*	0.0	11.1	16.7
155°	0.0	*0.0*	0.0	5.6	11.1
157.5°	0.0	*0.0*	0.0	0.0	5.6
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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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	17.17	18.71	17.64	19.17	19.66	19.26	20.79	19.73	21.25	21.74
	3H	18.67	20.07	19.16	20.54	21.07	21.72	23.12	22.21	23.59	24.12
	4H	19.15	20.48	19.66	20.97	21.51	22.94	24.27	23.45	24.76	25.30
	6H	19.43	20.66	19.95	21.16	21.72	24.23	25.47	24.75	25.97	26.53
	8H	19.48	20.67	20.01	21.19	21.76	24.91	26.09	25.44	26.62	27.18
	12H	19.50	20.63	20.03	21.15	21.75	25.66	26.80	26.20	27.32	27.91
4H	2H	18.06	19.38	18.56	19.87	20.42	19.69	21.02	20.19	21.50	22.05
	3H	19.80	20.93	20.32	21.46	22.03	22.38	23.51	22.90	24.04	24.61
	4H	20.41	21.44	20.95	21.98	22.58	23.78	24.81	24.31	25.35	25.95
	6H	20.81	21.72	21.37	22.29	22.90	25.26	26.18	25.82	26.75	27.36
	8H	20.90	21.77	21.47	22.33	22.96	26.04	26.91	26.61	27.47	28.10
	12H	20.95	21.74	21.54	22.33	22.96	26.92	27.71	27.51	28.30	28.93
8H	4H	21.11	21.97	21.67	22.54	23.16	24.00	24.86	24.56	25.42	26.05
	6H	21.70	22.43	22.29	23.03	23.67	25.66	26.39	26.25	27.00	27.63
	8H	21.88	22.54	22.49	23.16	23.81	26.58	27.24	27.19	27.86	28.51
	12H	22.00	22.59	22.61	23.20	23.91	27.65	28.24	28.26	28.84	29.55
12H	4H	21.31	22.10	21.90	22.69	23.32	24.00	24.79	24.59	25.38	26.01
	6H	22.00	22.66	22.61	23.28	23.93	25.69	26.36	26.30	26.97	27.62
	8H	22.29	22.88	22.90	23.49	24.20	26.69	27.28	27.30	27.89	28.60

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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: SP1-2511-597-8

Test Date: 01/22/2026

Luminaire Tested: 4ASL-2-G520-UNV-OPL-1_600mA

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

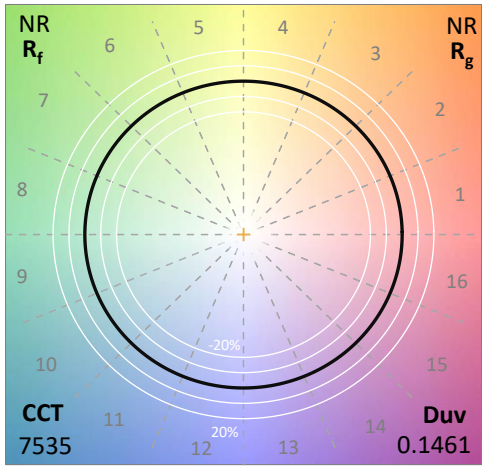
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2511-597-8
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-G520-UNV-OPL-1_600mA**
Description:	2foot 4ASL LED LUMINAIRE WITH OPL LENS AND GREEN 520NM LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K):	7535	CRI (Ra):	-11.7		
CIE u':	0.0718	R1:	-30.6	R9:	-351.9
CIE v':	0.5710	R2:	5.1	R10:	-75.5
Duv:	0.1461	R3:	5.6	R11:	-78.0
CIE x:	0.1962	R4:	-51.7	R12:	-14.7
CIE y:	0.6931	R5:	-6.4	R13:	-32.5
CIE z:	0.1107	R6:	-0.6	R14:	52.7
Peak Wavelength (nm):	524	R7:	10.9	R15:	-37.0
Dominant Wavelength (nm):	529	R8:	-25.8		
Purity:	75.95236				
Rf:	NR				
Rg:	NR				



Test Conditions

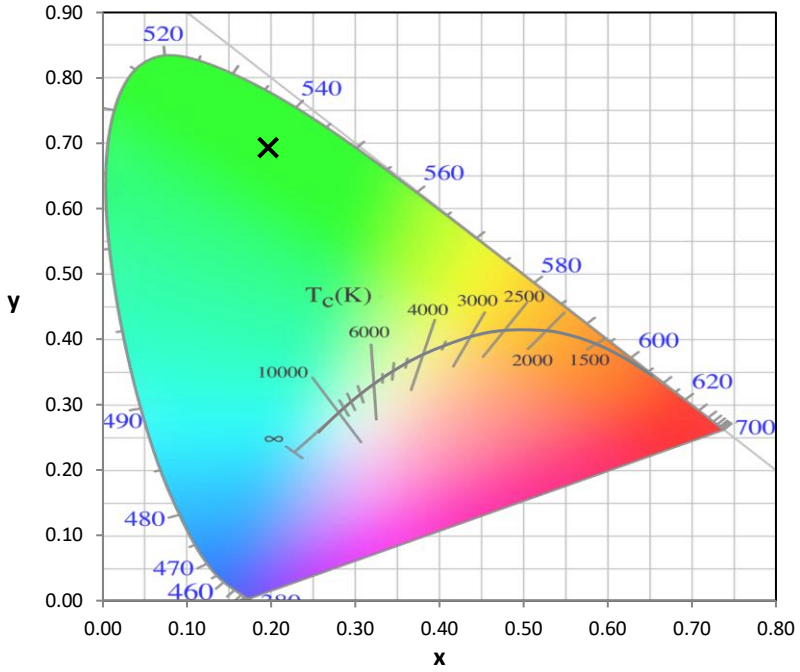
Stabilization Time:	48M
Operation Time:	1H 48M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2511-597-8

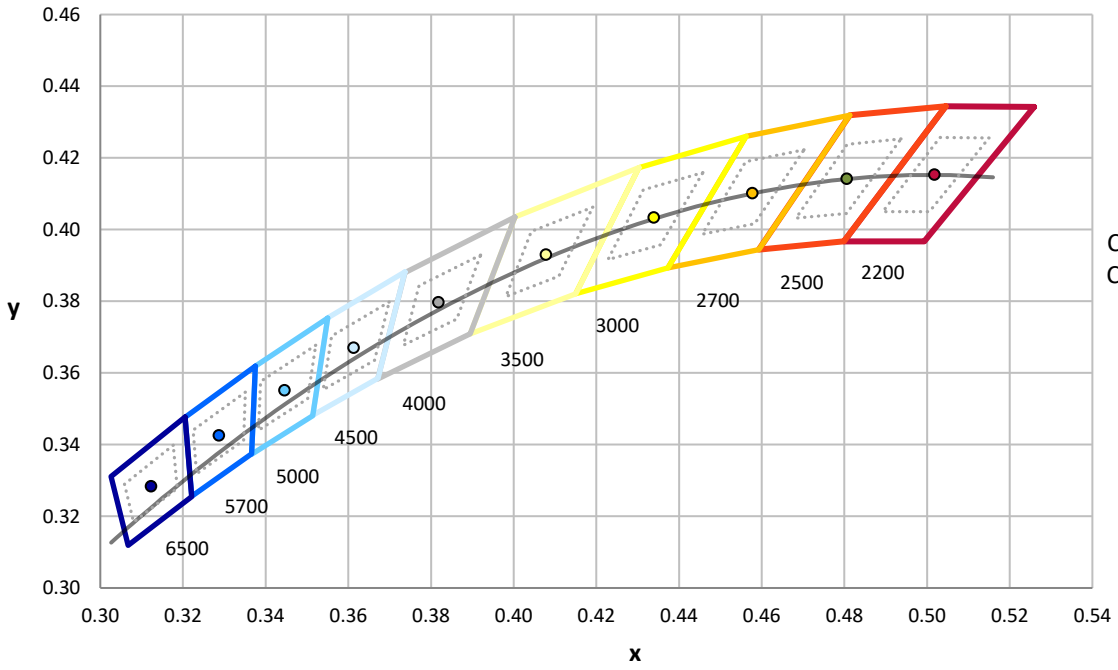
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2511-597-8

CIE 1931 Chromaticity Diagram



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

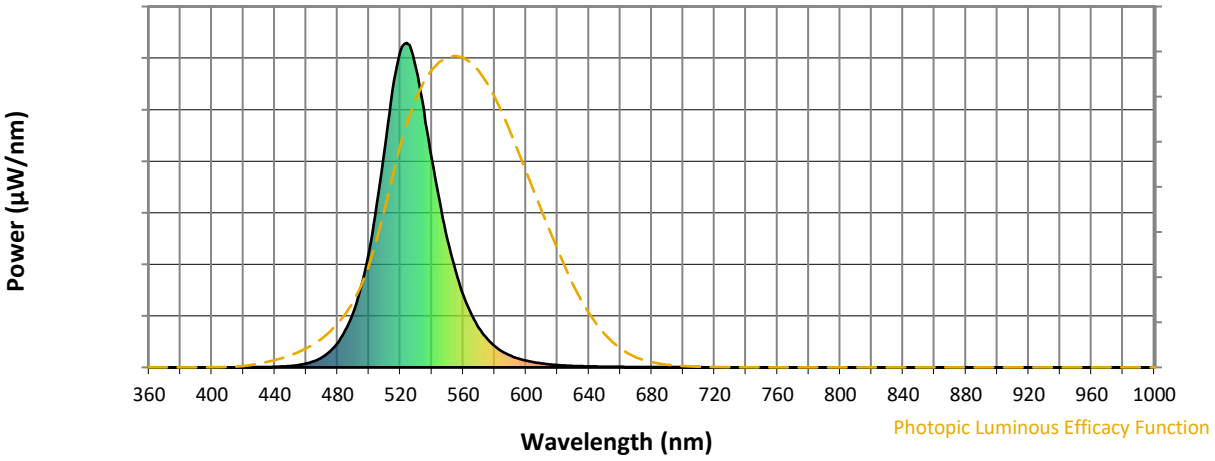


CCT = 7535K
CIE x = 0.1962
CIE y = 0.6931
Duv = 0.1461

Point lies outside the range

REPORT NUMBER: SP1-2511-597-8

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

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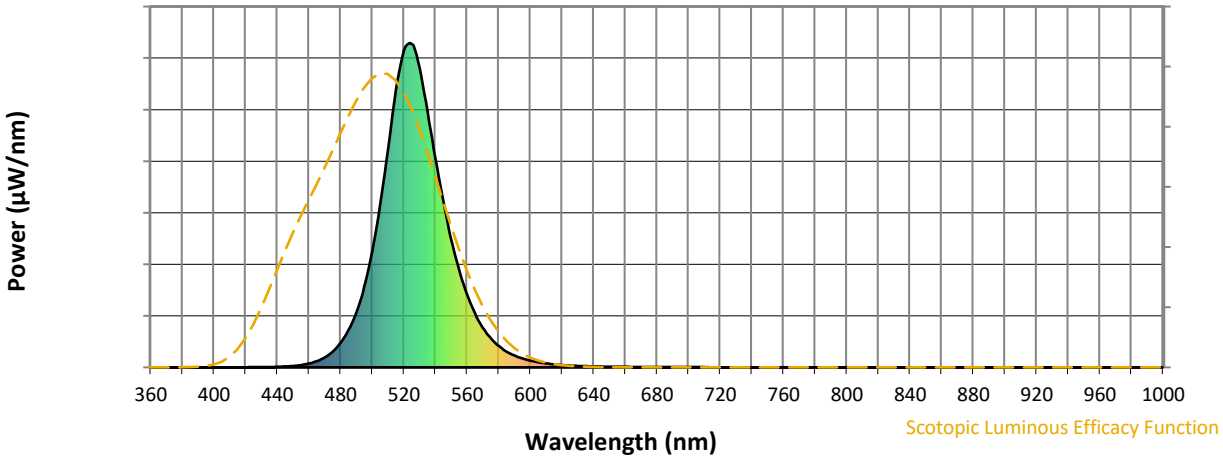
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 2.63**

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

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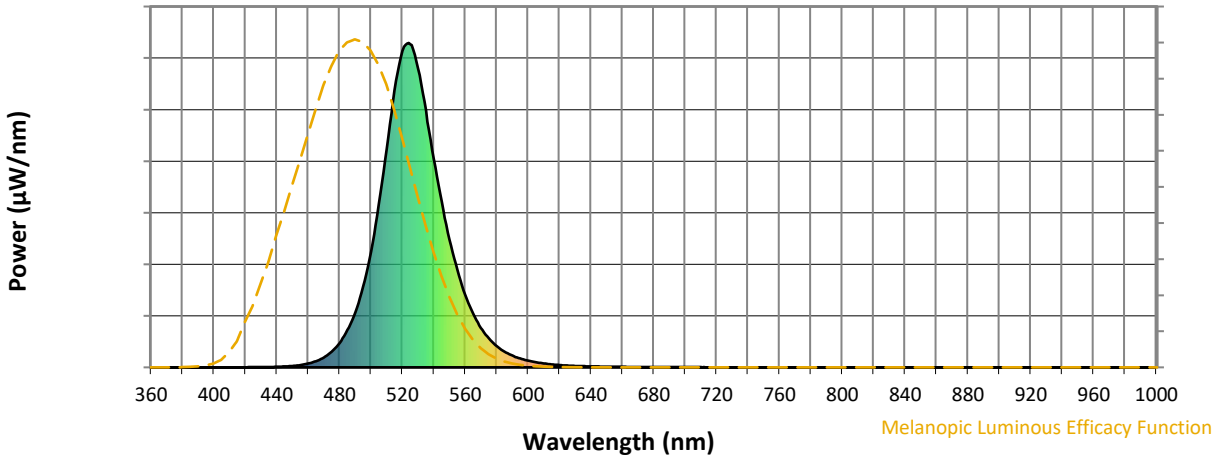
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.87**

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

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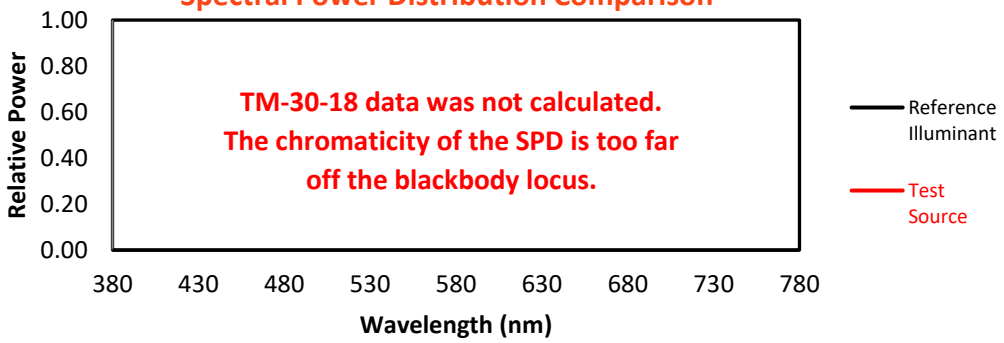
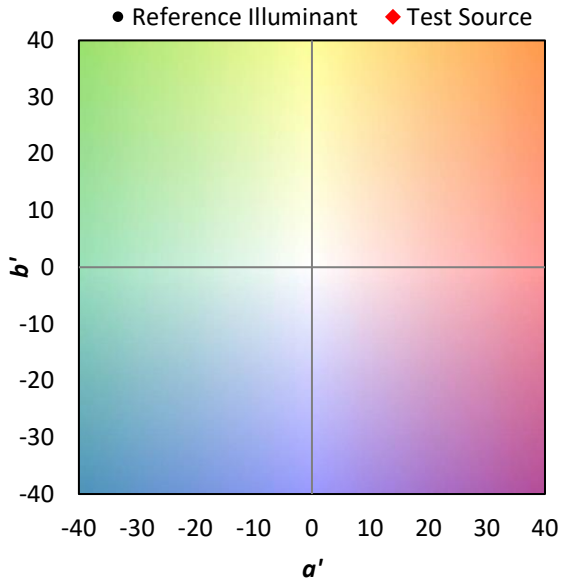
Summary

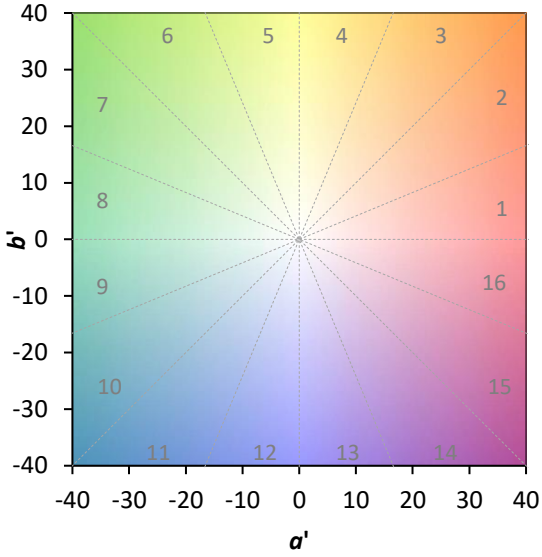
R_f = 0
R_g = 0
CIE R_a = -11.7
R_9 = -351.9

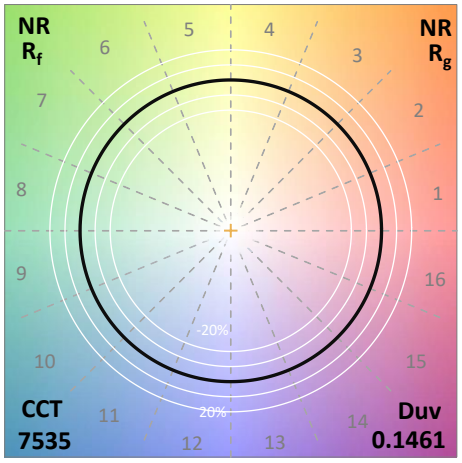
Spectral Power Distribution Comparison

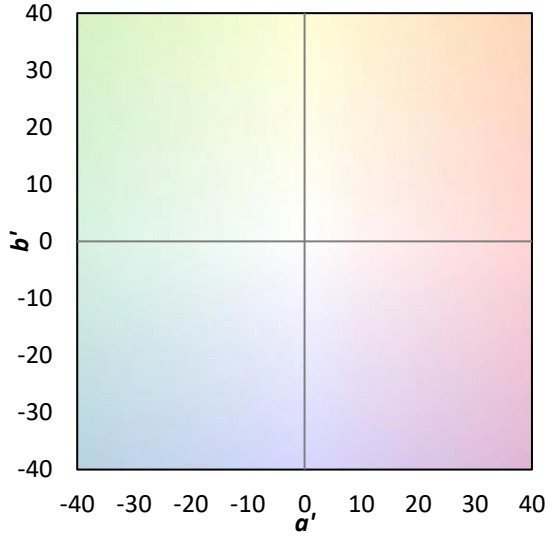


Color Vector Graphics









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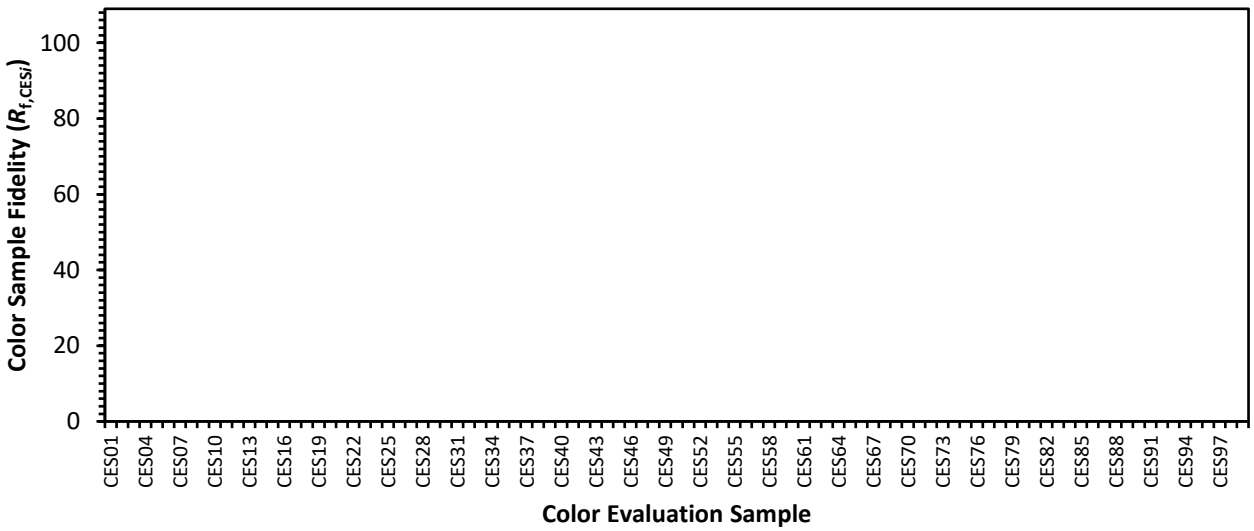
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 0	CES34 = 0	CES59 = 0	CES84 = 0
CES10 = 0	CES35 = 0	CES60 = 0	CES85 = 0
CES11 = 0	CES36 = 0	CES61 = 0	CES86 = 0
CES12 = 0	CES37 = 0	CES62 = 0	CES87 = 0
CES13 = 0	CES38 = 0	CES63 = 0	CES88 = 0
CES14 = 0	CES39 = 0	CES64 = 0	CES89 = 0
CES15 = 0	CES40 = 0	CES65 = 0	CES90 = 0
CES16 = 0	CES41 = 0	CES66 = 0	CES91 = 0
CES17 = 0	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 0	CES43 = 0	CES68 = 0	CES93 = 0
CES19 = 0	CES44 = 0	CES69 = 0	CES94 = 0
CES20 = 0	CES45 = 0	CES70 = 0	CES95 = 0
CES21 = 0	CES46 = 0	CES71 = 0	CES96 = 0
CES22 = 0	CES47 = 0	CES72 = 0	CES97 = 0
CES23 = 0	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 0	CES49 = 0	CES74 = 0	CES99 = 0
CES25 = 0	CES50 = 0	CES75 = 0	



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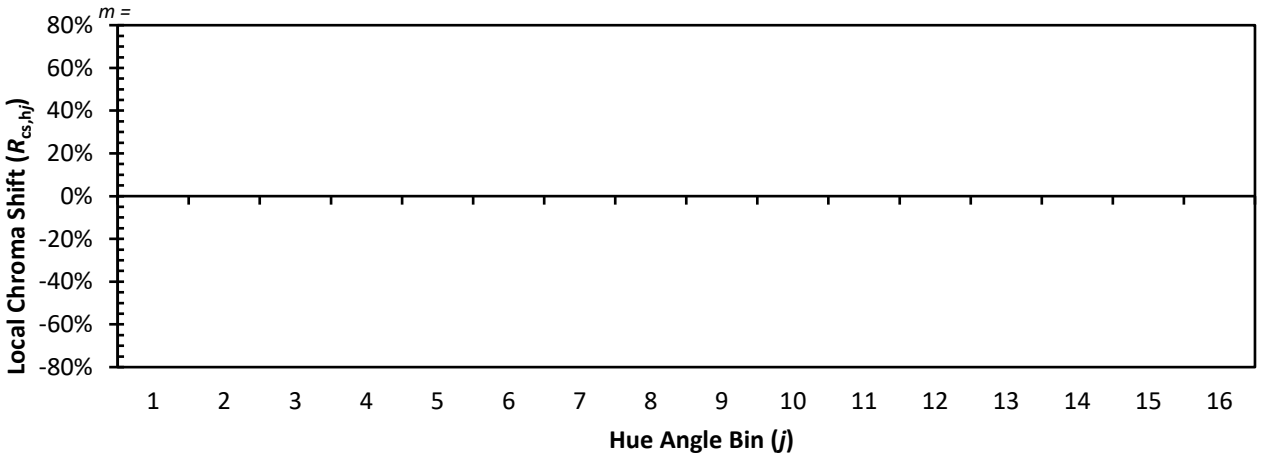
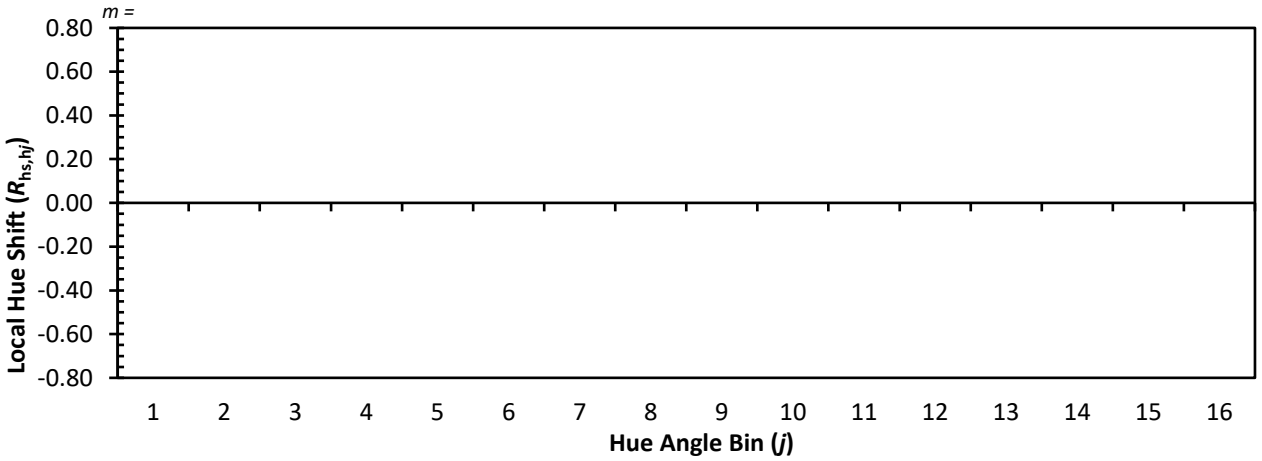
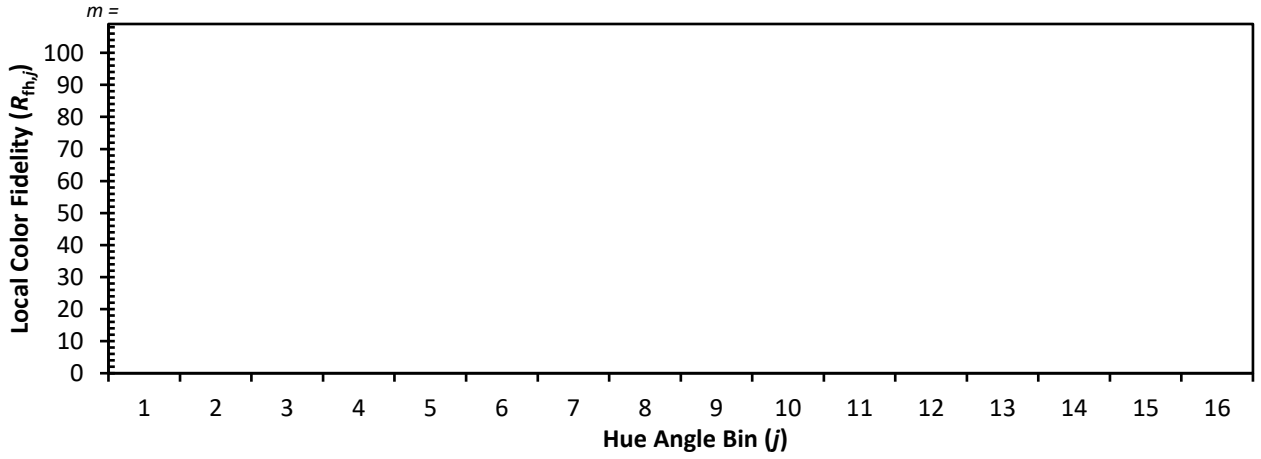
Color Rendition by Hue-Angle Bin







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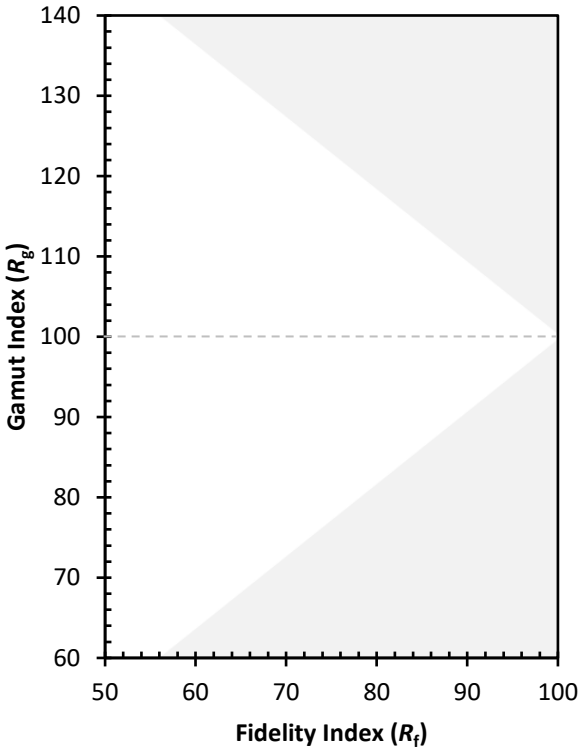
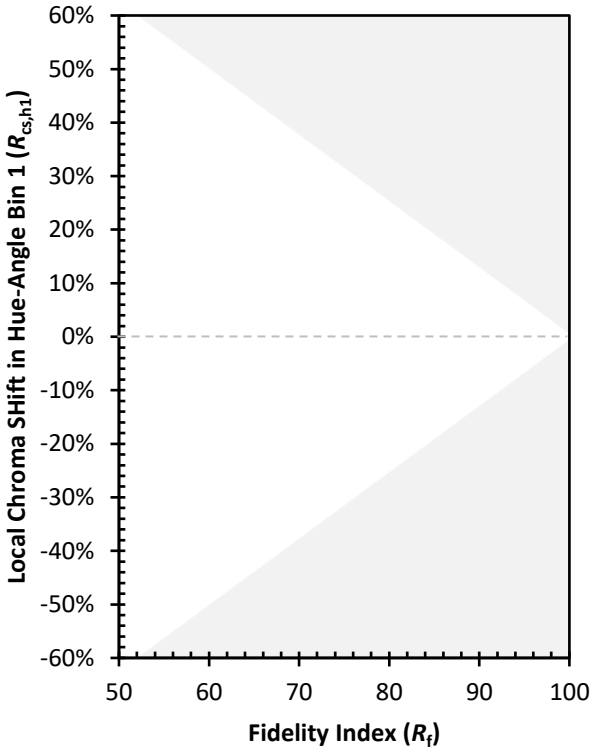
Measure Comparisons





(END OF REPORT)