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: P1357292

Luminaire Tested: 6ASL4-10-1-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:	P1357292
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-6)
Test Lab:	INNOVATION CENTER
Issue Date:	2/17/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	FAIL-SAFE
Catalog Number:	6ASL4-10-1-G52-UNV
Description:	6FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 1 ROW
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3025.0 lumens
Efficiency:	N/A
Efficacy:	49.8 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):	60.8
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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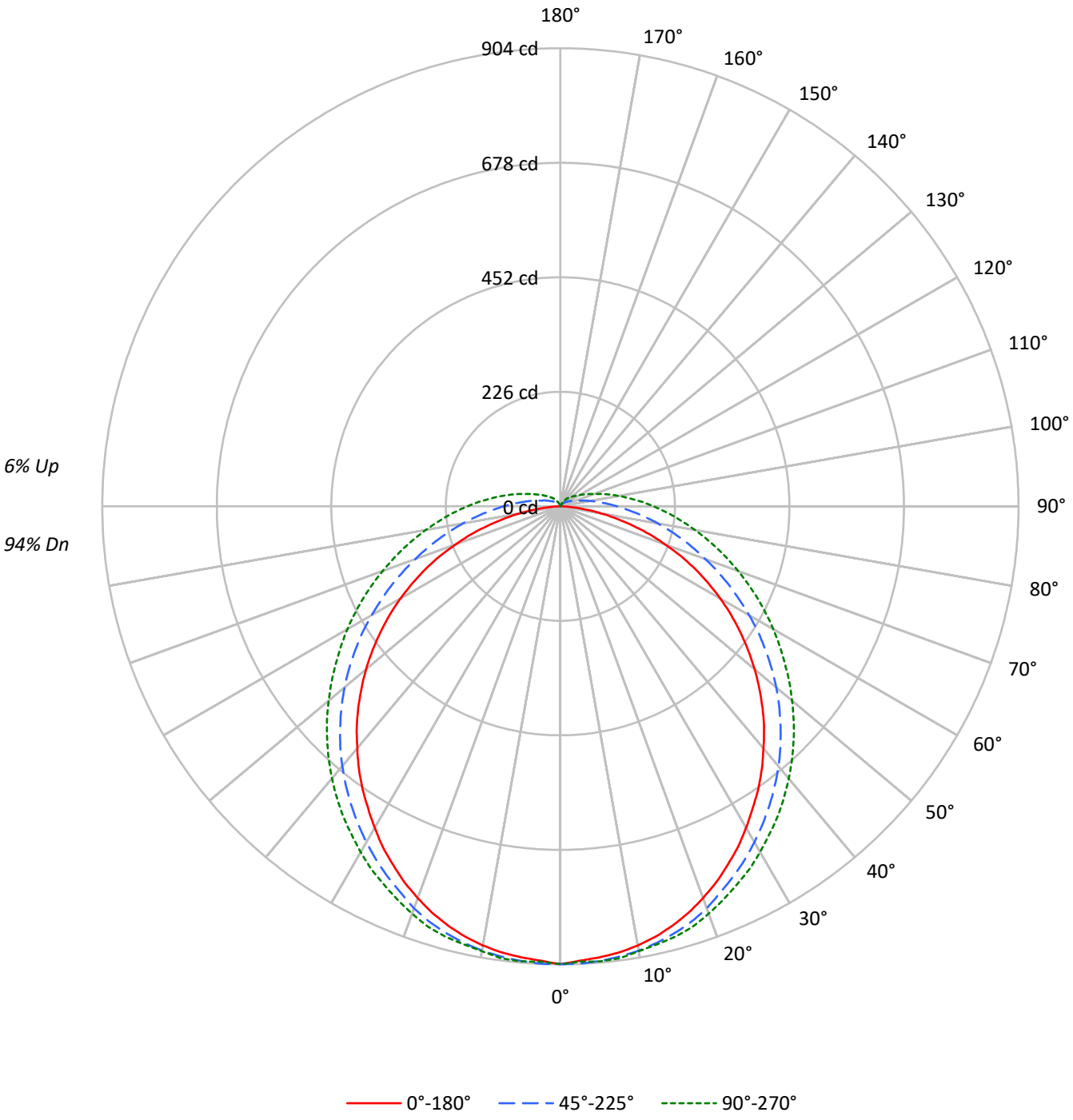
Luminous Intensity Polar Plot



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4880	4880	4880
5°	4836	4784	4757
10°	4811	4690	4633
15°	4767	4588	4535
20°	4699	4473	4415
25°	4616	4334	4285
30°	4525	4208	4163
35°	4434	4078	4042
40°	4332	3947	3917
45°	4235	3804	3789
50°	4122	3655	3654
55°	3982	3487	3520
60°	3826	3310	3402
65°	3627	3125	3285
70°	3312	2931	3170
75°	2904	2759	3081
80°	2344	2613	3027
85°	1426	2522	3048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	2.8
10°-20°	245.6	8.1
20°-30°	371.4	12.3
30°-40°	448.9	14.8
40°-50°	472.0	15.6
50°-60°	439.7	14.5
60°-70°	361.2	11.9
70°-80°	256.4	8.5
80°-90°	154.6	5.1
90°-100°	86.6	2.9
100°-110°	48.0	1.6
110°-120°	26.7	0.9
120°-130°	15.4	0.5
130°-140°	8.4	0.3
140°-150°	3.7	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	702.5	23.2
0°-40°	1151.4	38.1
0°-60°	2063.1	68.2
0°-90°	2835.3	93.7
90°-120°	161.3	5.3
90°-150°	188.9	6.2
90°-180°	190.0	6.3
0°-180°	3025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	893	902	900	900	902	85
15°	856	868	872	876	879	241
25°	781	795	806	818	824	360
35°	681	698	720	738	747	426
45°	564	585	614	640	651	435
55°	433	458	494	526	541	388
65°	294	321	367	410	429	290
75°	148	186	247	298	320	158
85°	28	80	149	204	225	34
90°	0	47	111	164	183	1
95°	0	28	82	129	147	0
105°	0	10	43	78	92	0
115°	0	5	27	47	56	0
125°	0	3	16	31	36	0
135°	0	1	10	19	24	0
145°	1	0	4	11	14	1
155°	1	1	0	3	4	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: P1357292
CATALOG NUMBER: 6ASL4-10-1-G52-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.5	*903.5*	903.5	903.5	903.5
2.5°	*897.4*	*905.6*	*903.5*	*899.5*	*899.5*
5°	893.3	*901.5*	900.5	899.5	901.5
7.5°	888.2	*896.4*	896.4	897.4	899.5
10°	880.0	*890.3*	890.3	890.3	891.3
12.5°	869.8	*880.0*	882.1	883.1	885.1
15°	856.5	*867.8*	871.9	875.9	879.0
17.5°	841.2	*852.4*	859.6	864.7	869.8
20°	822.8	*835.1*	844.3	850.4	855.5
22.5°	803.4	*815.6*	824.8	834.0	840.2
25°	780.9	*795.2*	806.4	817.7	823.8
27.5°	758.4	*772.7*	787.0	800.3	807.5
30°	732.9	*749.2*	765.6	780.9	788.0
32.5°	706.3	*723.7*	743.1	759.4	767.6
35°	680.7	*698.1*	719.6	738.0	747.2
37.5°	653.1	*670.5*	695.0	715.5	724.7
40°	623.5	*642.9*	669.5	690.9	701.2
42.5°	594.9	*614.3*	642.9	666.4	676.6
45°	564.2	*584.6*	614.3	639.8	651.1
47.5°	532.5	*554.0*	585.7	612.2	624.5
50°	500.8	*523.3*	556.0	584.6	596.9
52.5°	467.1	*490.6*	525.4	556.0	569.3
55°	433.4	*457.9*	493.7	526.4	540.7
57.5°	399.6	*424.2*	463.0	497.8	513.1
60°	364.9	*390.4*	430.3	468.1	485.5
62.5°	329.1	*355.7*	397.6	438.5	456.9
65°	294.4	*320.9*	366.9	409.9	429.3
67.5°	257.6	*286.2*	335.3	380.2	400.7
70°	219.8	*252.5*	304.6	352.6	373.1
72.5°	186.0	*219.8*	276.0	325.0	346.5
75°	148.2	*186.0*	247.3	298.5	319.9
77.5°	115.5	*156.4*	220.8	272.9	294.4
80°	82.8	*127.8*	195.2	248.4	269.8
82.5°	53.1	*102.2*	171.7	225.9	246.3
85°	27.6	*79.7*	149.2	204.4	224.9
87.5°	8.2	*61.3*	128.8	183.0	203.4
90°	0.0	*47.0*	111.4	163.5	183.0
92.5°	0.0	*35.8*	96.1	146.2	165.6
95°	0.0	*27.6*	81.8	128.8	147.2
97.5°	0.0	*21.5*	70.5	113.5	131.9
100°	0.0	*17.4*	60.3	100.2	117.5
102.5°	0.0	*14.3*	52.1	88.9	104.3
105°	0.0	*10.2*	42.9	77.7	92.0
107.5°	0.0	*7.2*	37.8	68.5	80.7
110°	0.0	*6.1*	33.7	59.3	71.5

TEST NUMBER: P1357292
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	*5.1*	29.6	53.1	63.4
115°	0.0	*5.1*	26.6	47.0	56.2
117.5°	0.0	*4.1*	22.5	41.9	50.1
120°	0.0	*4.1*	20.4	37.8	45.0
122.5°	0.0	*3.1*	18.4	33.7	40.9
125°	0.0	*3.1*	16.4	30.7	35.8
127.5°	0.0	*2.0*	14.3	27.6	32.7
130°	0.0	*2.0*	13.3	24.5	29.6
132.5°	0.0	*1.0*	12.3	22.5	26.6
135°	0.0	*1.0*	10.2	19.4	24.5
137.5°	0.0	*0.0*	9.2	17.4	21.5
140°	0.0	*0.0*	7.2	15.3	19.4
142.5°	1.0	*0.0*	6.1	13.3	16.4
145°	1.0	*0.0*	4.1	11.2	14.3
147.5°	1.0	*1.0*	3.1	9.2	11.2
150°	1.0	*1.0*	2.0	6.1	9.2
152.5°	1.0	*1.0*	1.0	4.1	6.1
155°	1.0	*1.0*	0.0	3.1	4.1
157.5°	1.0	*1.0*	0.0	1.0	2.0
160°	1.0	*1.0*	0.0	0.0	1.0
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	14.92	16.47	15.38	16.92	17.38	16.93	18.48	17.39	18.93	19.39
	3H	16.41	17.83	16.89	18.28	18.79	19.36	20.77	19.83	21.22	21.73
	4H	16.89	18.23	17.38	18.70	19.22	20.53	21.87	21.02	22.34	22.87
	6H	17.17	18.41	17.67	18.90	19.44	21.76	23.01	22.26	23.49	24.03
	8H	17.22	18.41	17.74	18.92	19.47	22.39	23.59	22.91	24.10	24.64
	12H	17.23	18.38	17.75	18.88	19.45	23.10	24.25	23.62	24.75	25.32
4H	2H	15.79	17.13	16.29	17.60	18.13	17.37	18.71	17.86	19.18	19.70
	3H	17.52	18.66	18.03	19.18	19.72	20.01	21.15	20.52	21.67	22.21
	4H	18.12	19.16	18.64	19.69	20.27	21.36	22.40	21.88	22.92	23.50
	6H	18.52	19.44	19.06	19.99	20.58	22.77	23.69	23.32	24.24	24.84
	8H	18.61	19.47	19.16	20.03	20.63	23.51	24.38	24.06	24.93	25.53
	12H	18.65	19.44	19.22	20.02	20.63	24.34	25.13	24.91	25.71	26.32
8H	4H	18.78	19.64	19.33	20.19	20.80	21.57	22.43	22.12	22.99	23.59
	6H	19.35	20.08	19.93	20.67	21.28	23.15	23.88	23.73	24.47	25.09
	8H	19.52	20.18	20.12	20.79	21.41	24.02	24.69	24.62	25.29	25.92
	12H	19.63	20.22	20.23	20.81	21.51	25.04	25.63	25.63	26.22	26.91
12H	4H	18.96	19.75	19.53	20.33	20.94	21.58	22.36	22.15	22.94	23.55
	6H	19.62	20.29	20.22	20.89	21.51	23.18	23.85	23.78	24.45	25.07
	8H	19.89	20.48	20.49	21.08	21.77	24.13	24.72	24.72	25.31	26.00

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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

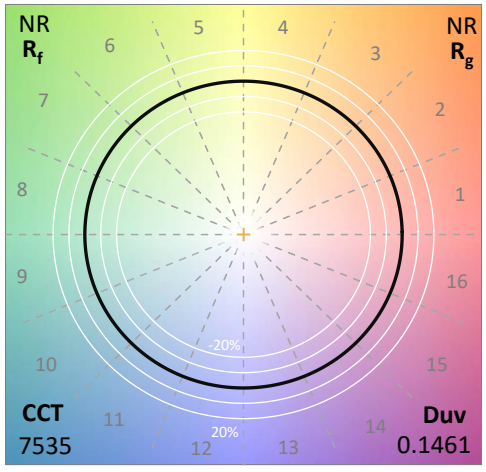
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

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

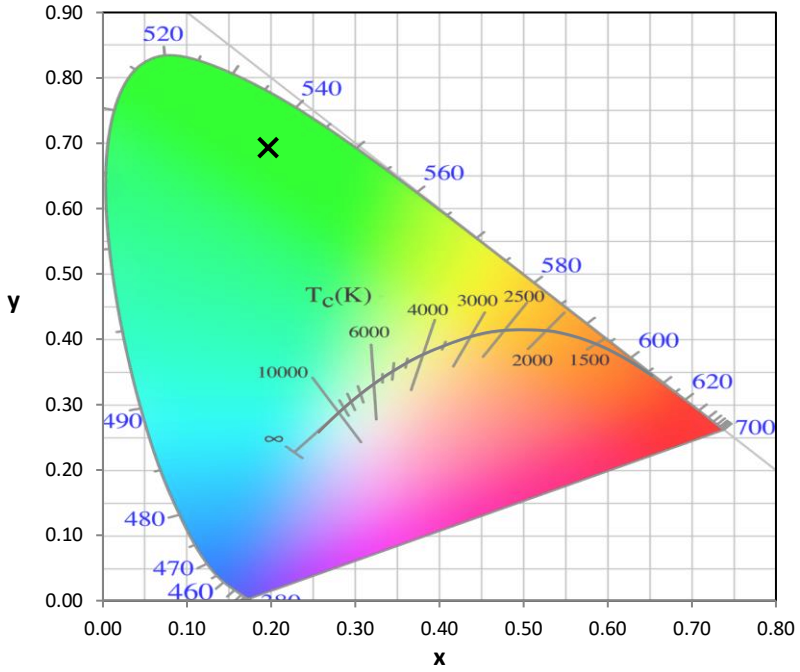
Stabilization Time:	48M
Operation Time:	1H 48M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2511-597-8

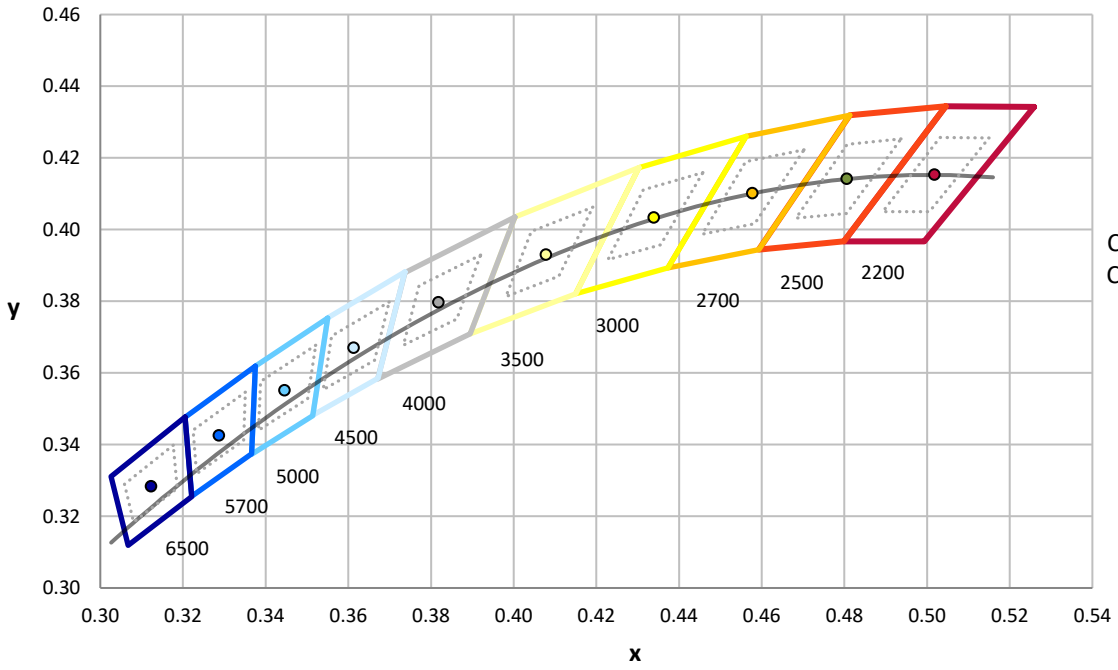
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

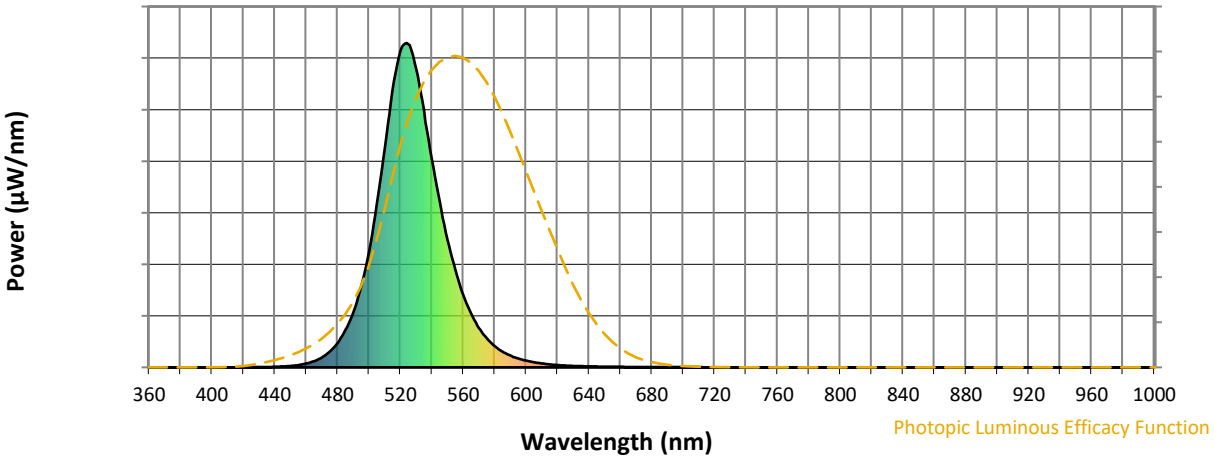


CCT = 7535K
CIE x = 0.1962
CIE y = 0.6931
Duv = 0.1461

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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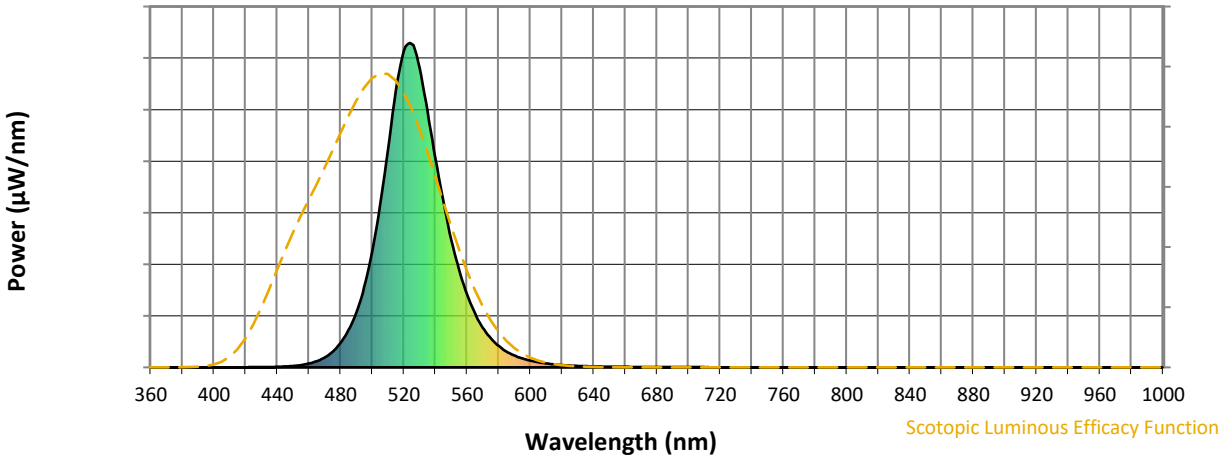
Scotopic Flux vs. Wavelength



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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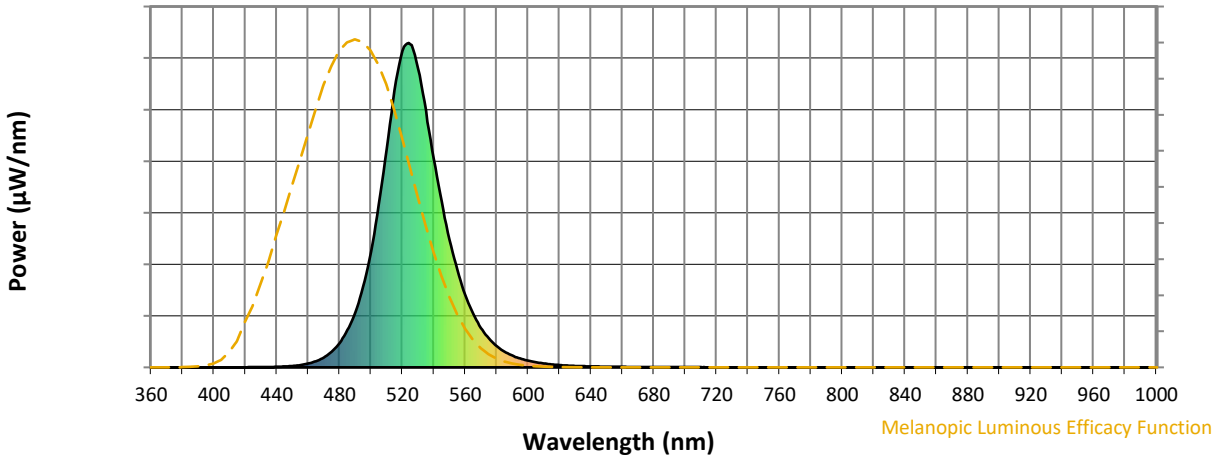
Melanopic Flux vs. Wavelength



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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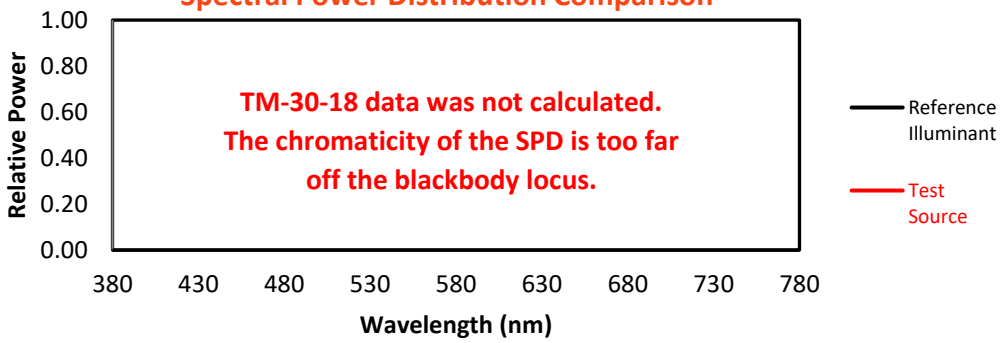
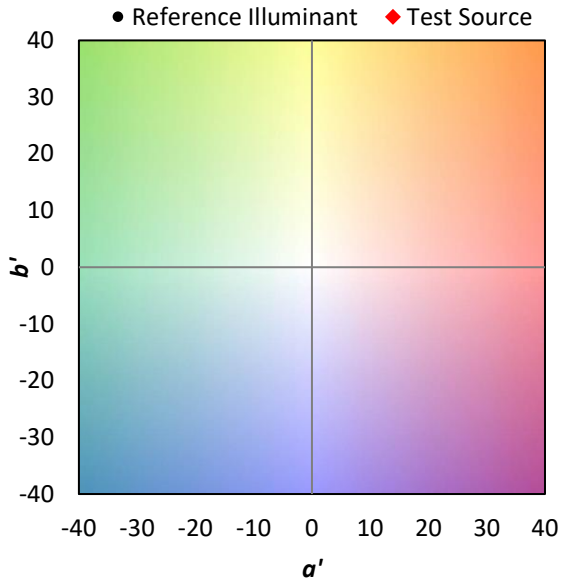
Summary

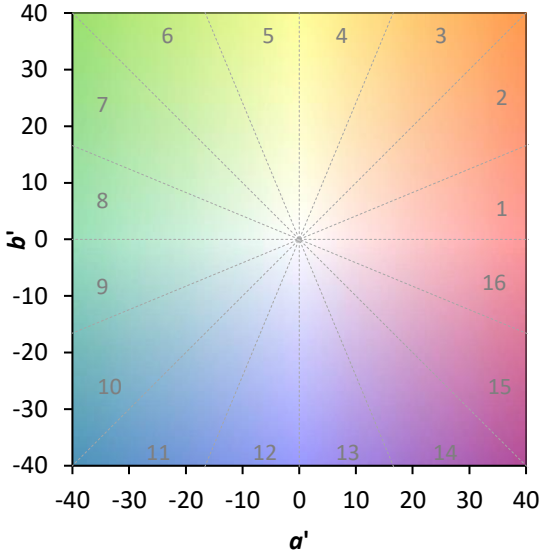
R_f = 0
R_g = 0
CIE R_a = -11.7
R_9 = -351.9

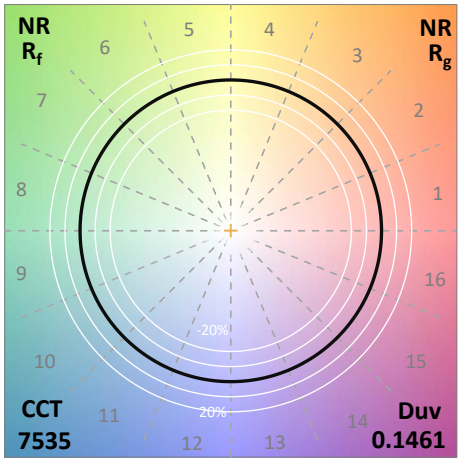
Spectral Power Distribution Comparison

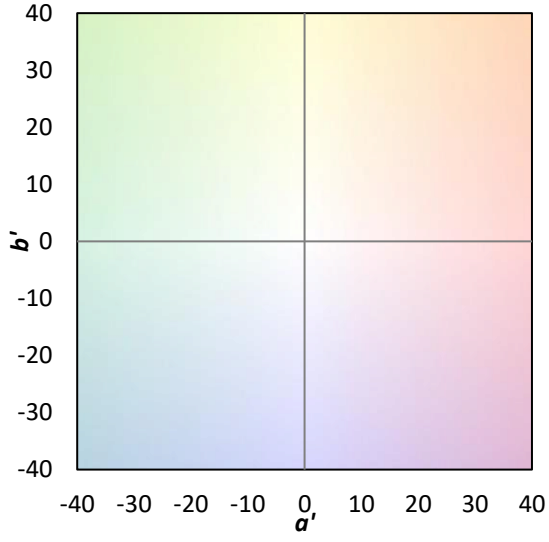


Color Vector Graphics









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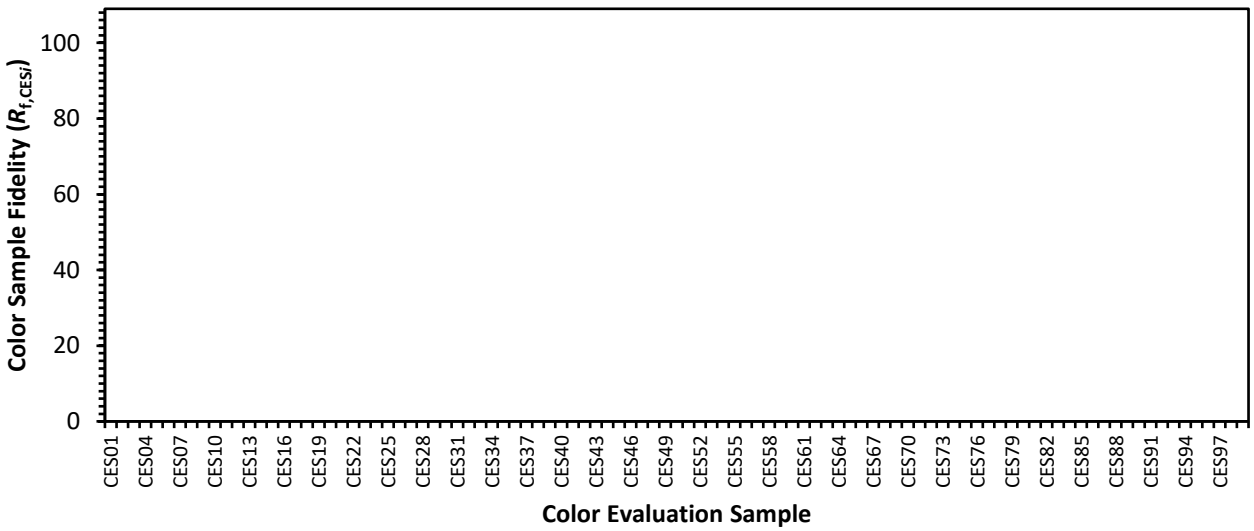
Individual Sample Fidelity Index ($R_{f,i}$)

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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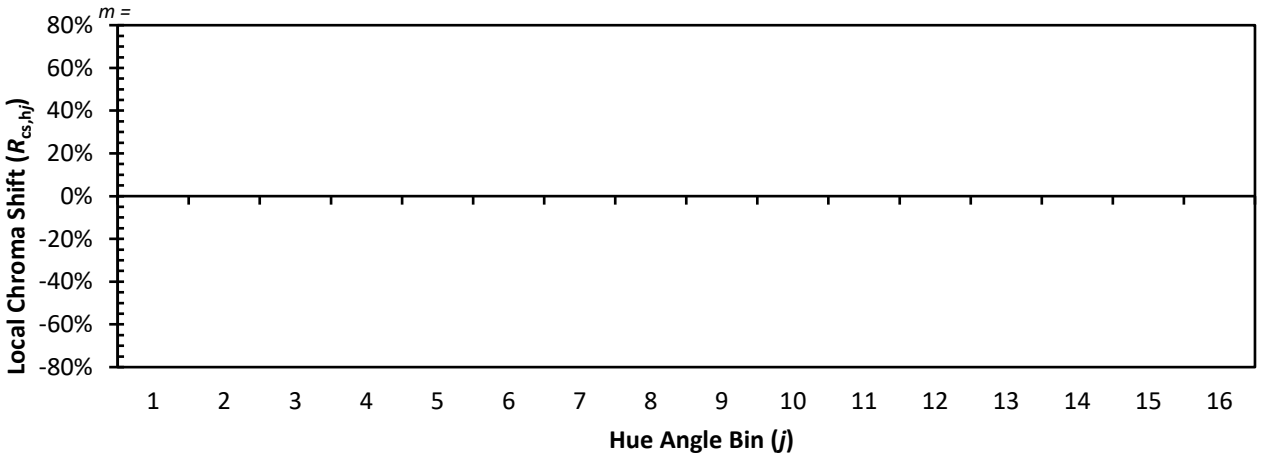
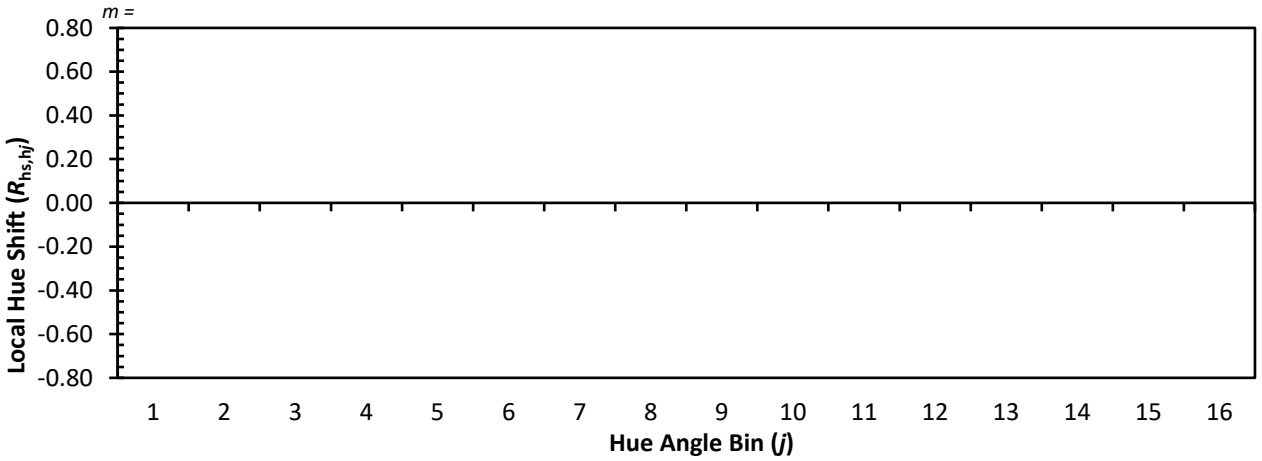
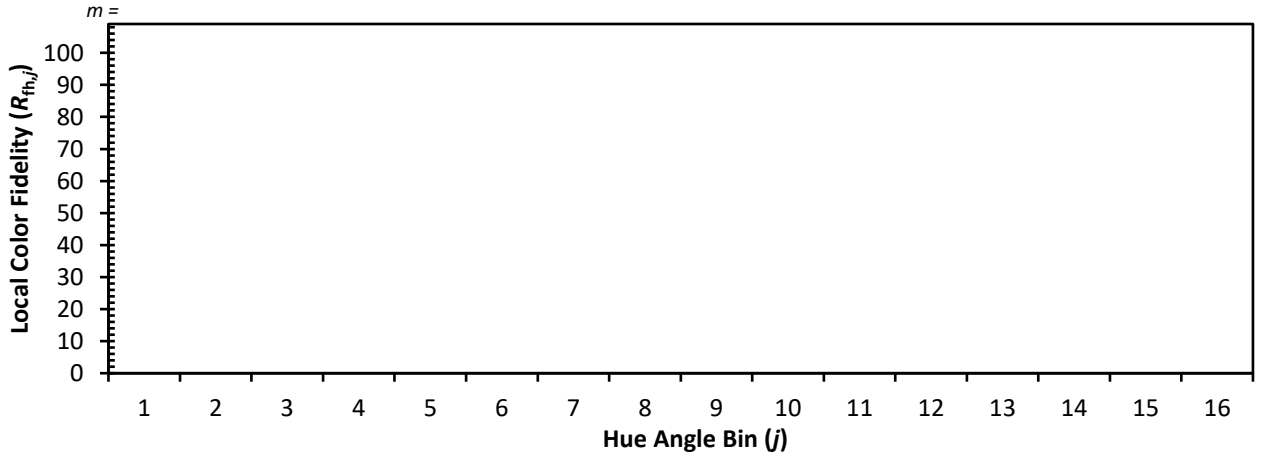
Color Rendition by Hue-Angle Bin







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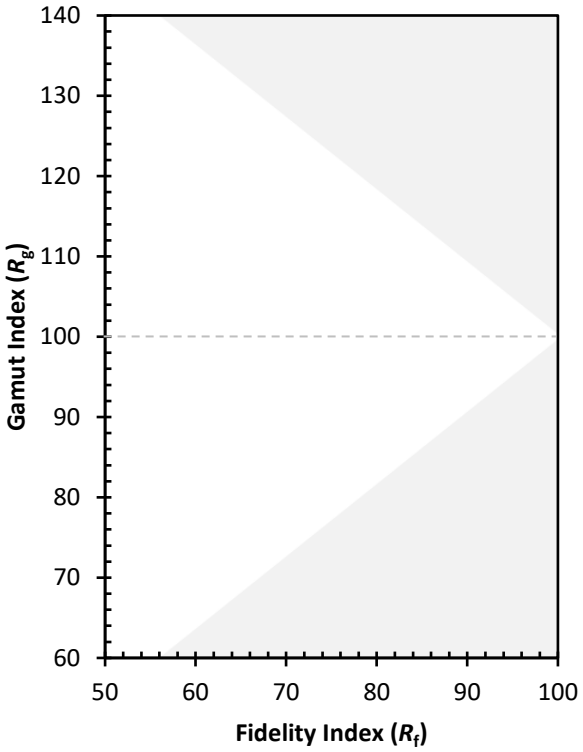
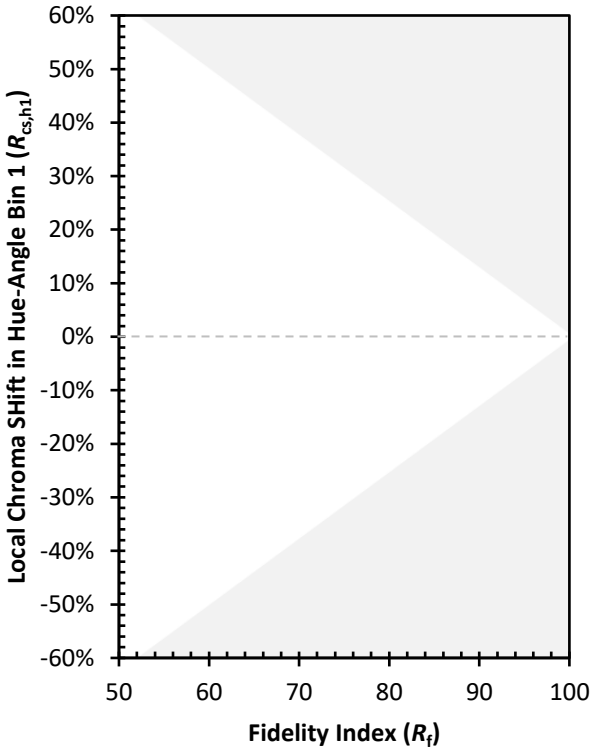
Measure Comparisons





(END OF REPORT)