

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: P1356848

Luminaire Tested: 2ASL4-15HE-2-G52-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356848
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: 2ASL4-15HE-2-G52-UNV
Description: 2FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

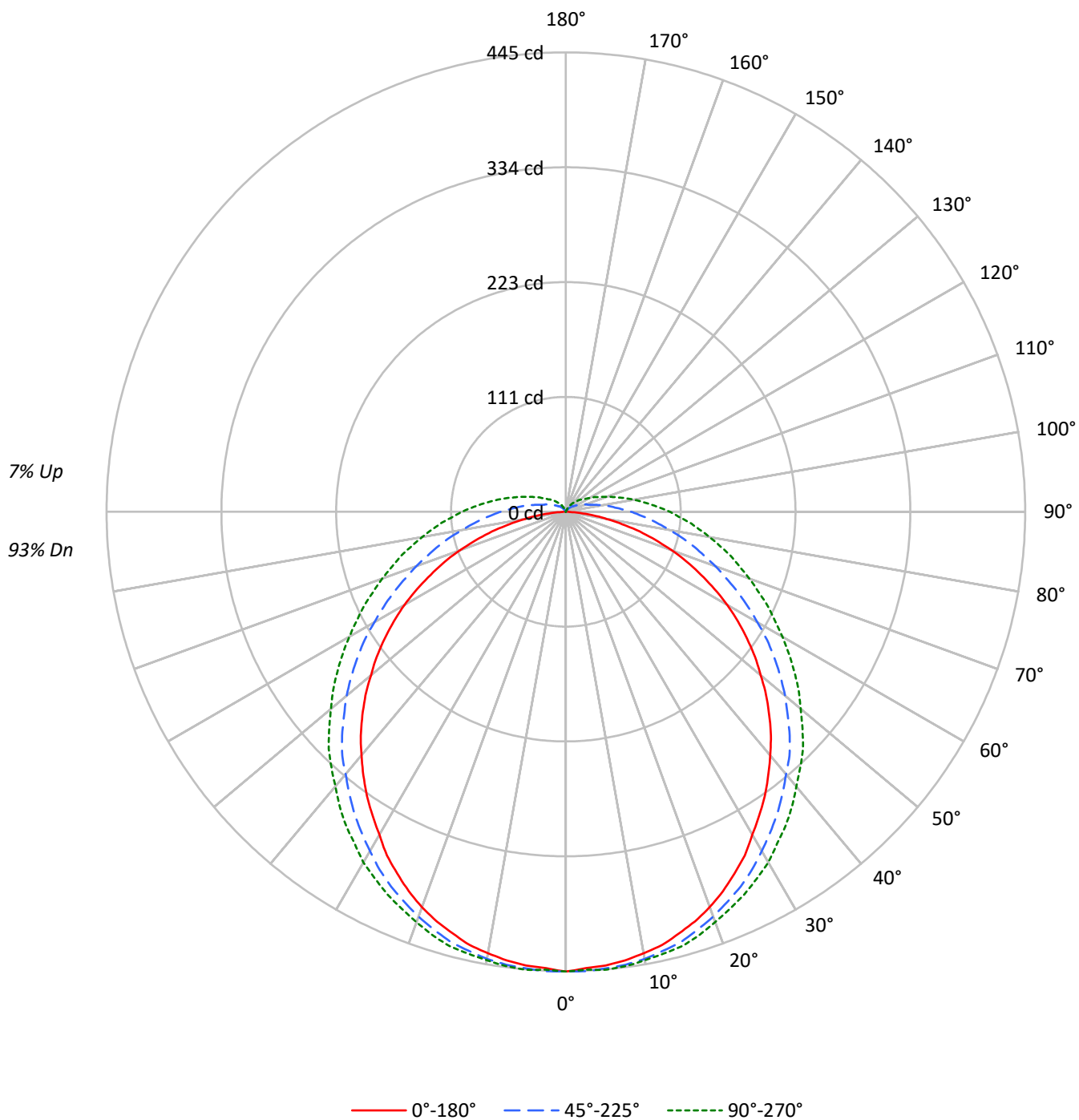
Lumens per Lamp: N/A
Luminaire Lumens: 1529.0 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.9
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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CATALOG NUMBER: 2ASL4-15HE-2-G52-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10
RCR																				
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7267	7267	7267
5°	7193	7111	7101
10°	7128	6969	6928
15°	7046	6815	6789
20°	6944	6625	6595
25°	6793	6437	6427
30°	6606	6224	6260
35°	6457	6024	6066
40°	6285	5810	5860
45°	6109	5625	5712
50°	5888	5383	5491
55°	5670	5123	5316
60°	5404	4832	5130
65°	5006	4560	4986
70°	4551	4301	4854
75°	3910	4093	4810
80°	2938	3897	4796
85°	1636	3847	4930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6109 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	2.8
10°-20°	121.4	7.9
20°-30°	184.0	12.0
30°-40°	222.5	14.6
40°-50°	234.6	15.3
50°-60°	218.9	14.3
60°-70°	180.8	11.8
70°-80°	131.1	8.6
80°-90°	82.8	5.4
90°-100°	49.4	3.2
100°-110°	28.3	1.9
110°-120°	16.1	1.1
120°-130°	9.2	0.6
130°-140°	5.0	0.3
140°-150°	2.2	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	347.6	22.7
0°-40°	570.1	37.3
0°-60°	1023.6	67.0
0°-90°	1418.4	92.8
90°-120°	93.9	6.1
90°-150°	110.2	7.2
90°-180°	111.0	7.3
0°-180°	1529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	445	445	445	445	445	
5°	441	445	444	444	445	42
15°	423	429	431	433	436	119
25°	387	392	401	406	409	178
35°	336	344	357	367	371	210
45°	279	290	307	319	325	215
55°	214	227	246	263	270	192
65°	144	160	184	206	216	143
75°	74	94	128	154	165	78
85°	14	43	81	109	120	17
90°	0	27	63	90	101	1
95°	0	17	48	73	83	0
105°	0	6	27	46	53	0
115°	0	3	15	28	34	0
125°	0	1	10	18	21	0
135°	0	0	6	11	14	0
145°	0	0	3	7	8	0
155°	0	0	0	1	3	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	445.4	445.4	445.4	445.4	445.4
2.5°	442.6	446.8	445.4	444.0	444.0
5°	441.2	445.4	444.0	444.0	445.4
7.5°	438.4	442.6	442.6	442.6	444.0
10°	434.2	439.8	439.8	439.8	441.2
12.5°	430.0	434.2	435.6	437.0	438.4
15°	423.0	428.6	431.4	432.8	435.6
17.5°	416.0	420.2	424.4	428.6	430.0
20°	407.6	413.2	417.4	421.6	423.0
22.5°	397.8	403.4	409.0	413.2	416.0
25°	386.6	392.2	400.6	406.2	409.0
27.5°	375.4	381.0	390.8	397.8	400.6
30°	361.3	369.8	379.6	388.0	392.2
32.5°	348.7	357.1	368.4	378.2	381.0
35°	336.1	344.5	357.1	366.9	371.2
37.5°	322.1	331.9	344.5	355.7	359.9
40°	308.1	317.9	331.9	344.5	347.3
42.5°	294.1	303.9	320.7	331.9	336.1
45°	278.7	289.9	306.7	319.3	324.9
47.5°	263.3	274.5	291.3	305.3	310.9
50°	246.5	259.1	277.3	291.3	296.9
52.5°	231.1	243.7	261.9	277.3	284.3
55°	214.3	226.9	246.5	263.3	270.3
57.5°	197.5	210.1	231.1	249.3	256.3
60°	180.7	193.3	214.3	235.3	242.3
62.5°	162.5	176.5	198.9	219.9	228.3
65°	144.3	159.7	183.5	205.9	215.7
67.5°	127.5	142.9	168.1	193.3	201.7
70°	109.2	126.1	154.1	179.3	189.1
72.5°	91.0	109.2	140.1	166.7	176.5
75°	74.2	93.8	127.5	154.1	165.3
77.5°	56.0	79.8	114.8	142.9	152.7
80°	40.6	65.8	102.2	131.7	141.5
82.5°	26.6	53.2	91.0	120.4	130.3
85°	14.0	43.4	81.2	109.2	120.4
87.5°	4.2	33.6	71.4	99.4	109.2
90°	0.0	26.6	63.0	89.6	100.8
92.5°	0.0	21.0	54.6	81.2	91.0
95°	0.0	16.8	47.6	72.8	82.6
97.5°	0.0	14.0	42.0	65.8	74.2
100°	0.0	11.2	36.4	58.8	67.2
102.5°	0.0	8.4	30.8	51.8	60.2
105°	0.0	5.6	26.6	46.2	53.2
107.5°	0.0	4.2	22.4	40.6	47.6
110°	0.0	4.2	21.0	35.0	42.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	2.8	18.2	32.2	37.8
115°	0.0	2.8	15.4	28.0	33.6
117.5°	0.0	2.8	14.0	25.2	30.8
120°	0.0	2.8	12.6	22.4	26.6
122.5°	0.0	1.4	11.2	19.6	23.8
125°	0.0	1.4	9.8	18.2	21.0
127.5°	0.0	1.4	8.4	16.8	19.6
130°	0.0	1.4	8.4	15.4	18.2
132.5°	0.0	0.0	7.0	14.0	16.8
135°	0.0	0.0	5.6	11.2	14.0
137.5°	0.0	0.0	5.6	9.8	12.6
140°	0.0	0.0	4.2	9.8	11.2
142.5°	0.0	0.0	2.8	8.4	9.8
145°	0.0	0.0	2.8	7.0	8.4
147.5°	0.0	0.0	1.4	5.6	7.0
150°	0.0	0.0	1.4	4.2	5.6
152.5°	0.0	0.0	0.0	2.8	4.2
155°	0.0	0.0	0.0	1.4	2.8
157.5°	0.0	0.0	0.0	0.0	1.4
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	16.17	17.71	16.65	18.17	18.66	18.15	19.68	18.62	20.14	20.63
	3H	17.68	19.08	18.16	19.55	20.08	20.56	21.96	21.05	22.43	22.97
	4H	18.16	19.49	18.66	19.97	20.52	21.74	23.07	22.25	23.56	24.10
	6H	18.43	19.67	18.95	20.17	20.73	22.97	24.20	23.48	24.70	25.26
	8H	18.49	19.67	19.02	20.20	20.76	23.59	24.77	24.12	25.30	25.86
	12H	18.50	19.64	19.04	20.16	20.75	24.25	25.39	24.79	25.91	26.51
4H	2H	17.04	18.36	17.54	18.85	19.40	18.58	19.91	19.09	20.40	20.94
	3H	18.78	19.91	19.30	20.44	21.01	21.23	22.36	21.75	22.89	23.46
	4H	19.39	20.43	19.93	20.97	21.57	22.58	23.62	23.12	24.16	24.76
	6H	19.79	20.71	20.35	21.27	21.89	24.01	24.92	24.56	25.49	26.10
	8H	19.89	20.75	20.45	21.32	21.94	24.73	25.60	25.30	26.16	26.79
	12H	19.94	20.72	20.52	21.31	21.95	25.53	26.31	26.11	26.90	27.53
8H	4H	20.07	20.93	20.63	21.49	22.12	22.81	23.67	23.37	24.24	24.86
	6H	20.65	21.38	21.25	21.99	22.62	24.41	25.14	25.00	25.74	26.38
	8H	20.84	21.50	21.45	22.12	22.76	25.28	25.94	25.89	26.56	27.20
	12H	20.96	21.55	21.57	22.16	22.87	26.26	26.85	26.87	27.45	28.16
12H	4H	20.26	21.04	20.84	21.63	22.26	22.82	23.60	23.40	24.20	24.83
	6H	20.94	21.60	21.55	22.22	22.87	24.44	25.11	25.05	25.73	26.37
	8H	21.23	21.82	21.84	22.43	23.14	25.39	25.98	26.00	26.59	27.30

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

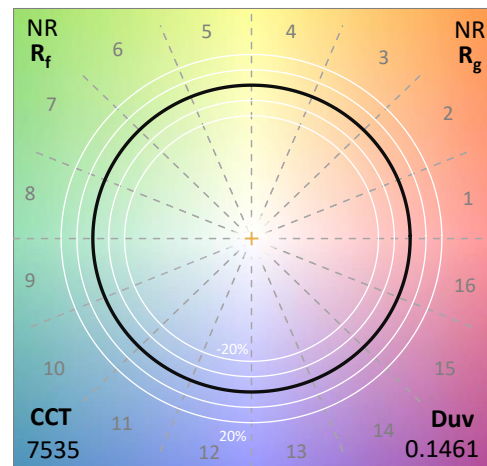
Data in this report applies to families of products including 4ASL

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

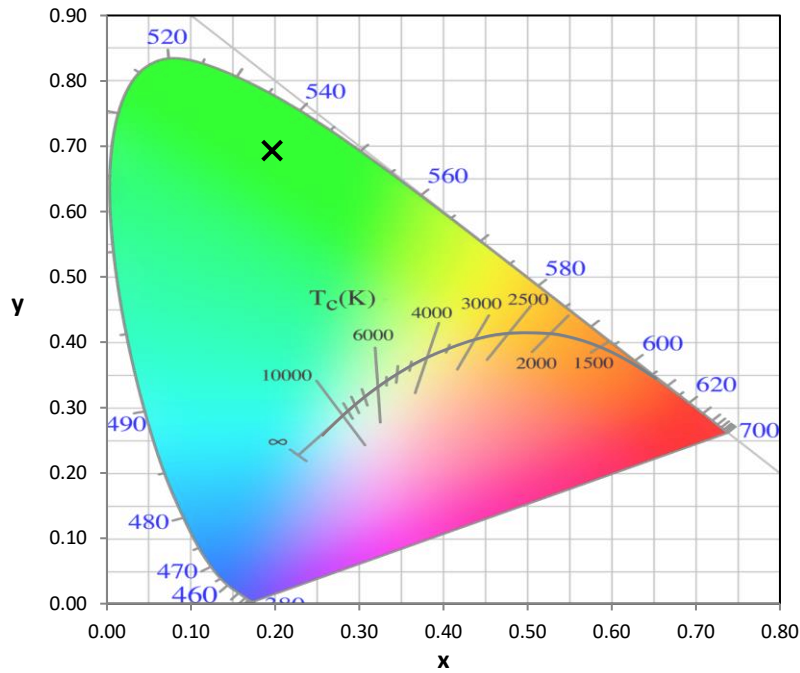
Stabilization Time: 48M
 Operation Time: 1H 48M
 Sphere Temperature (°C): 25.1

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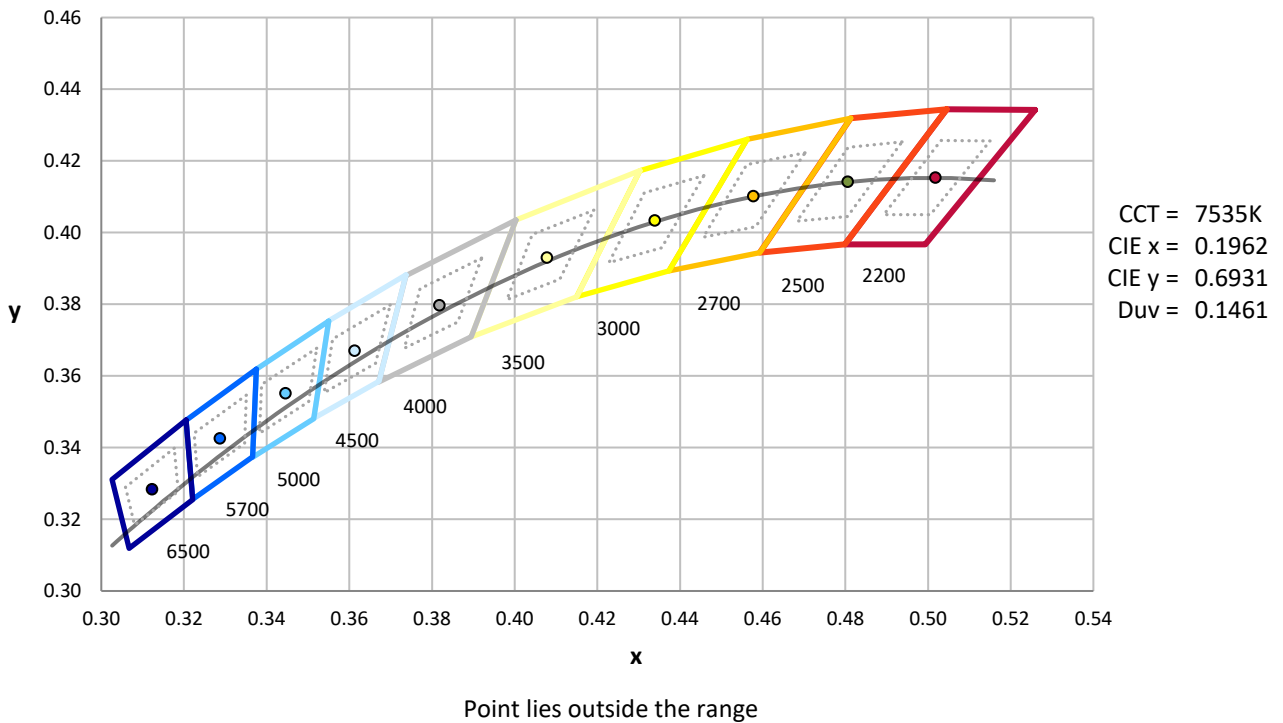
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram

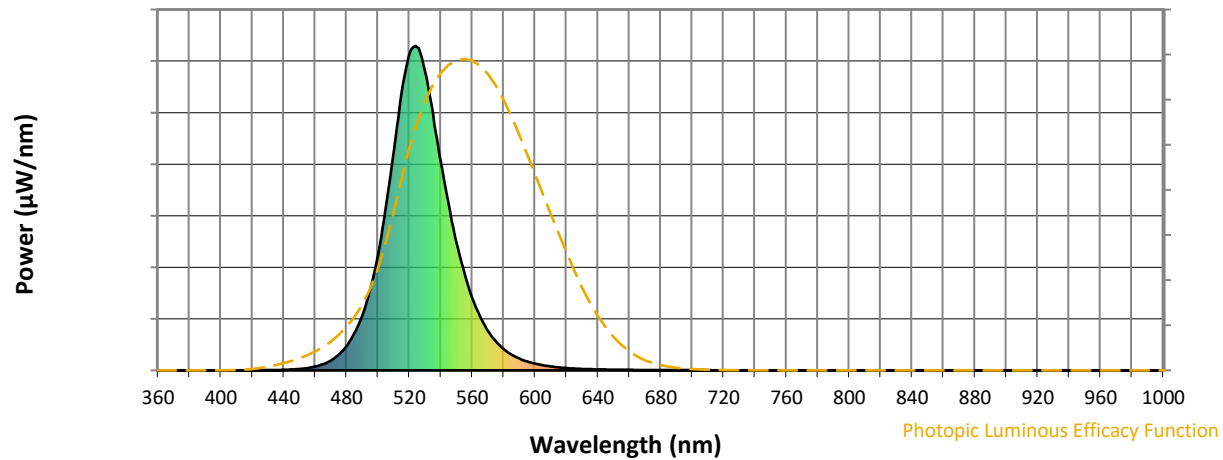


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

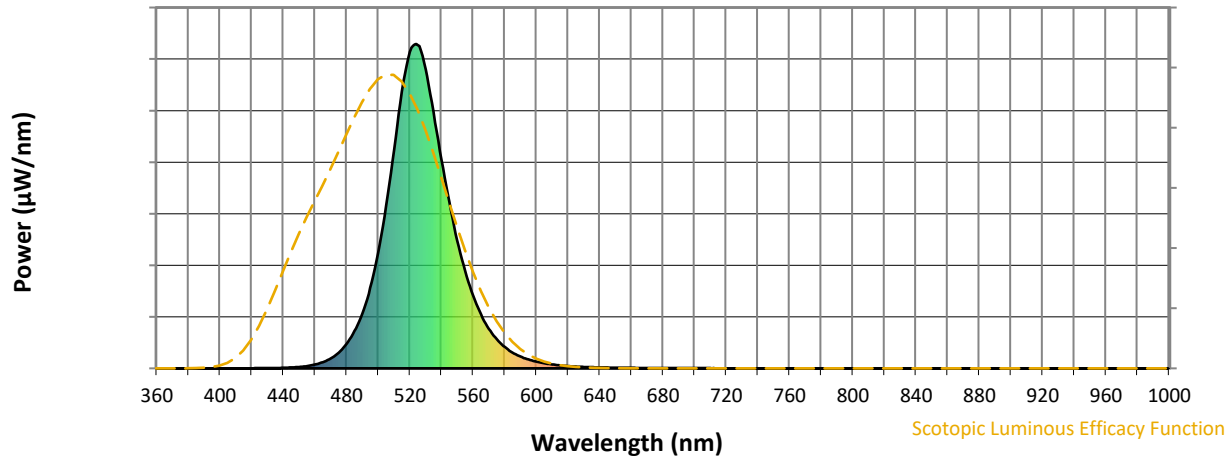


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



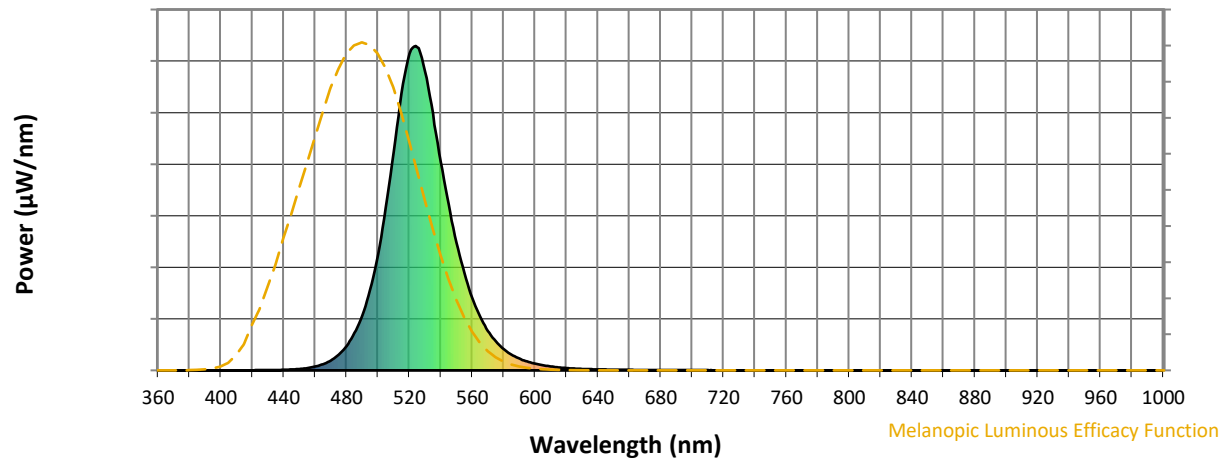
Scotopic Lumens: NR

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 $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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			

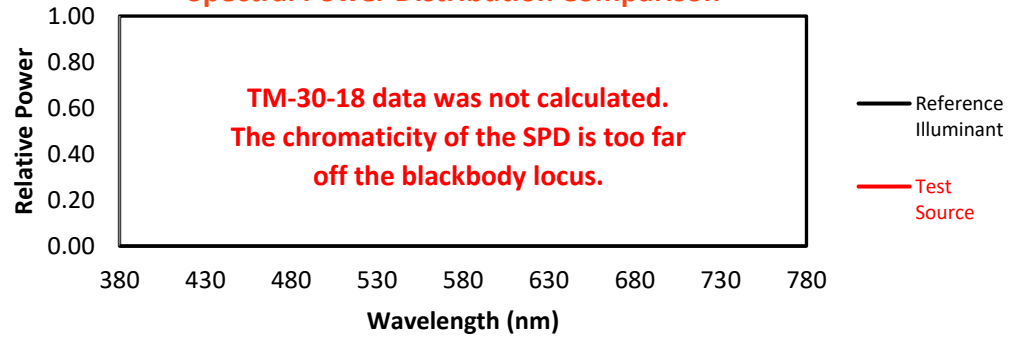
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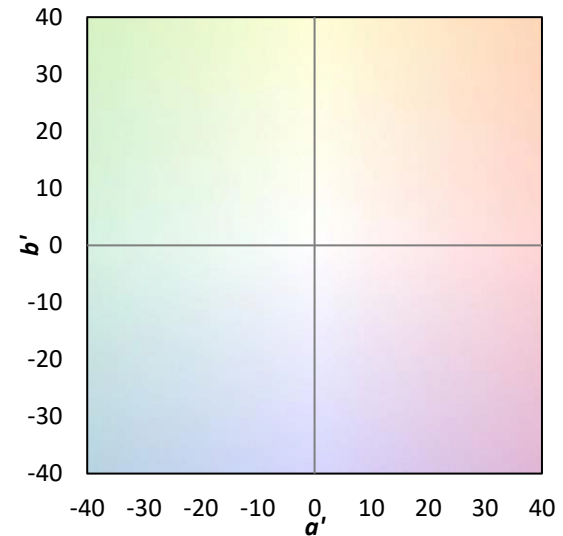
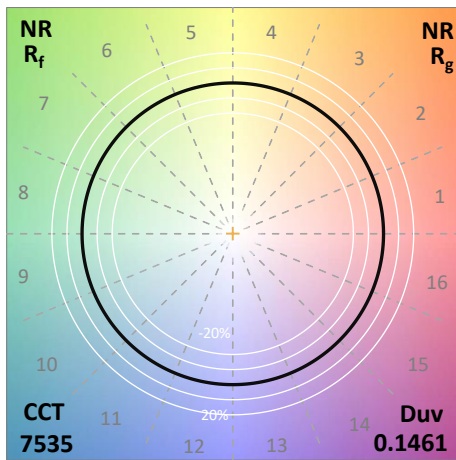
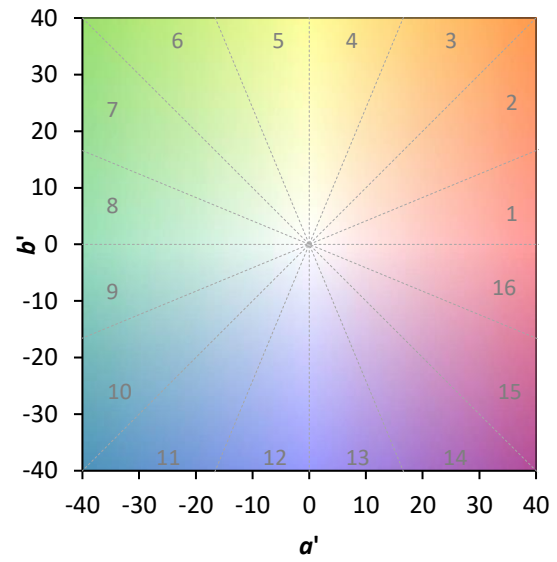
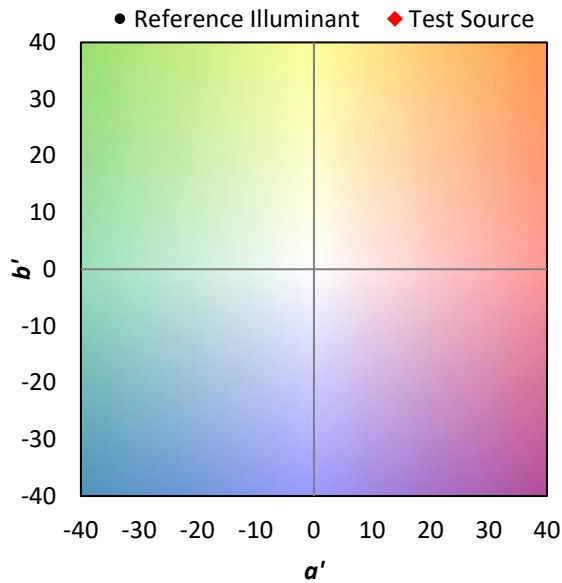
Summary

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

Spectral Power Distribution Comparison

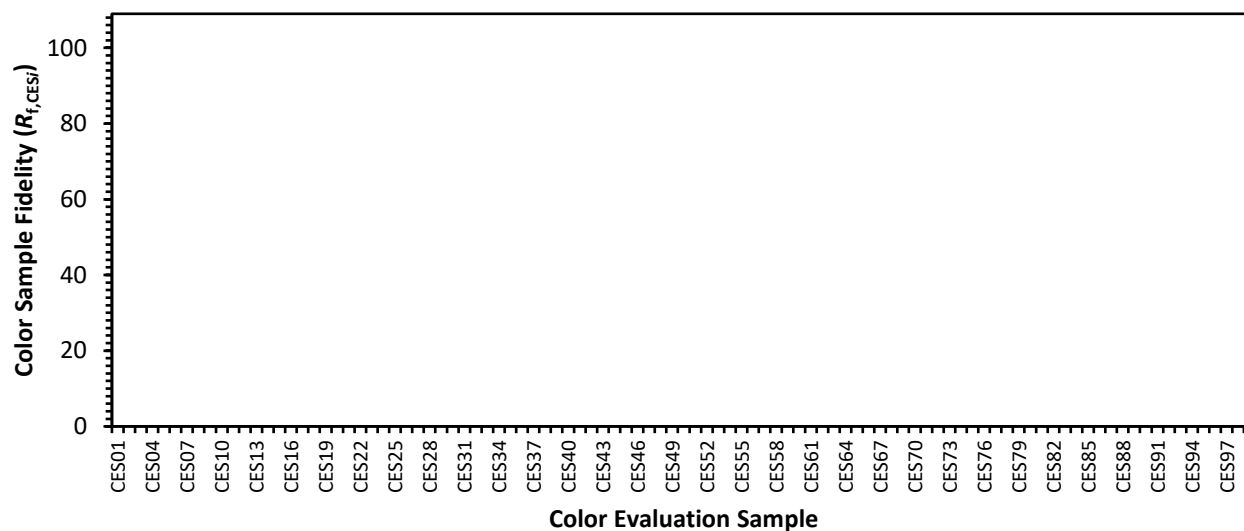


Color Vector Graphics



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

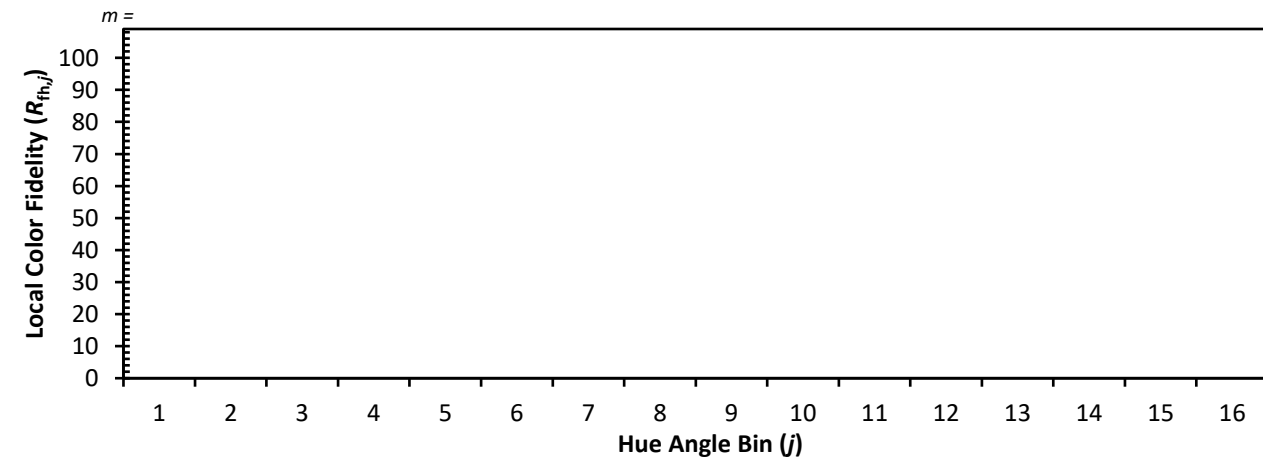
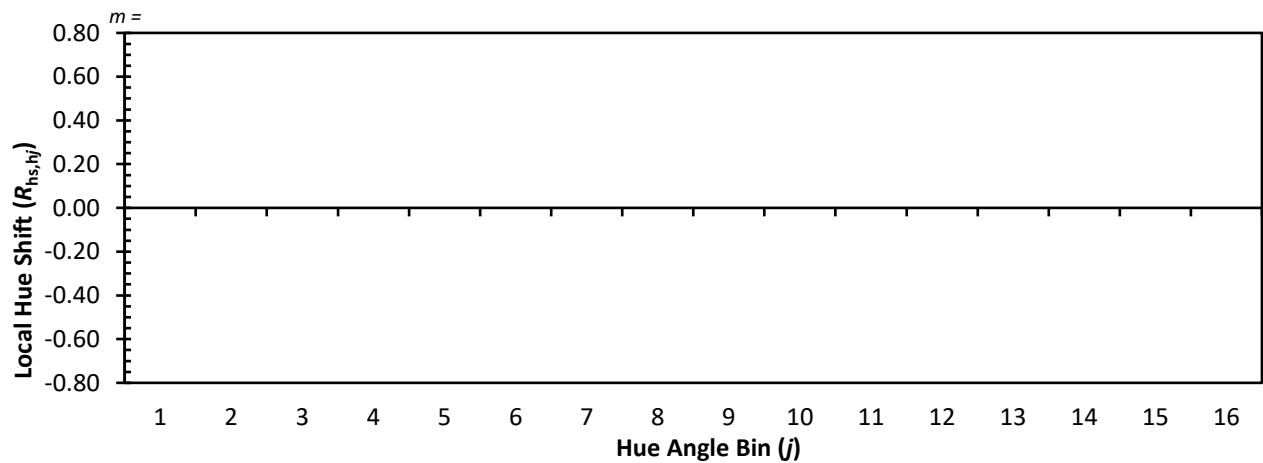
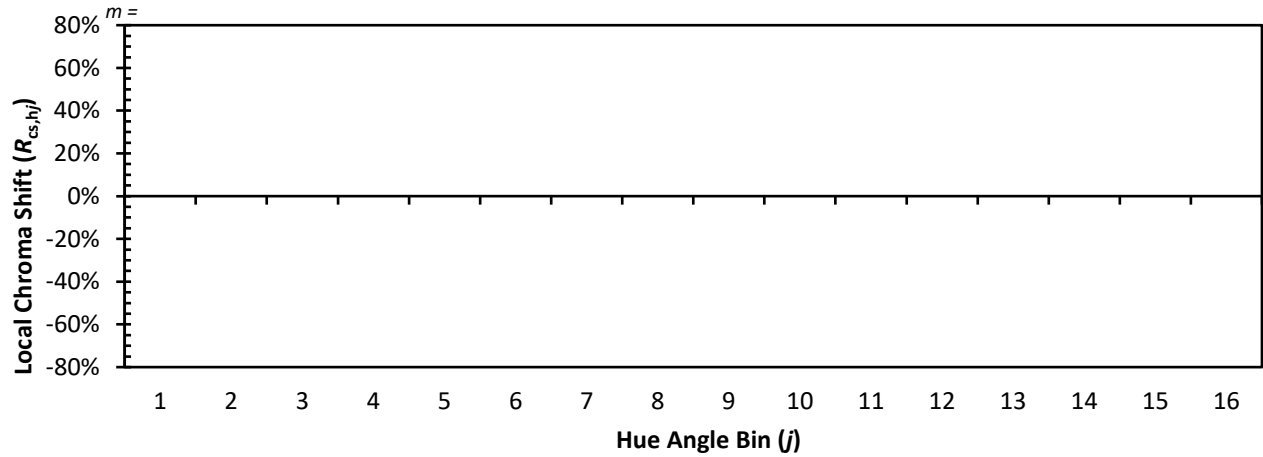
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CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 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
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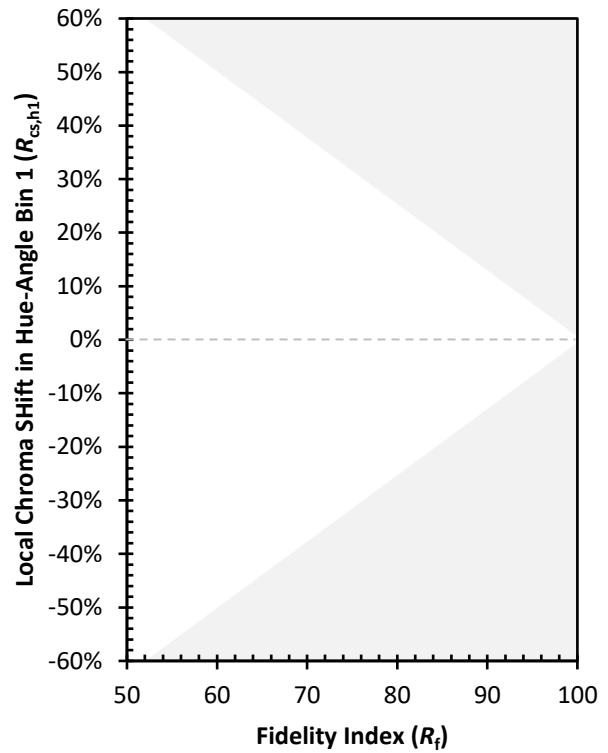
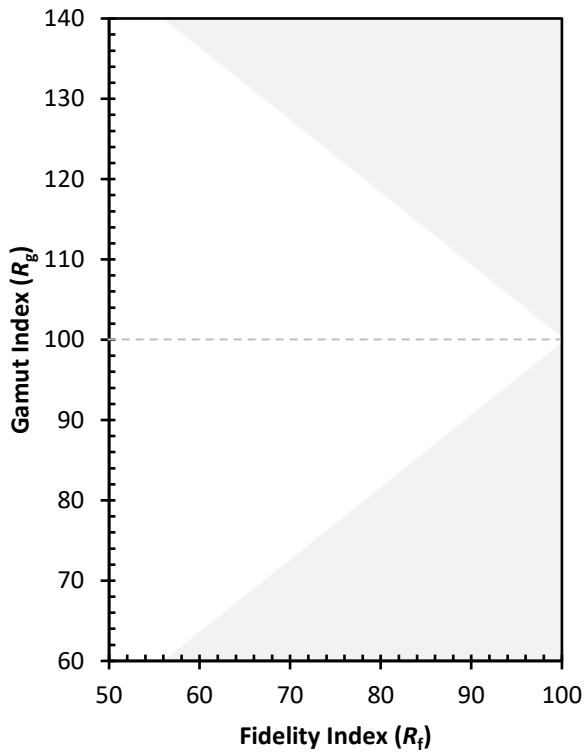
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)