

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: P1357318

Luminaire Tested: 6ASL4-15HE-2-A59-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357318
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: 6ASL4-15HE-2-A59-UNV
Description: 6FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 2 ROW
Light Source: -
Ballast/Driver: -

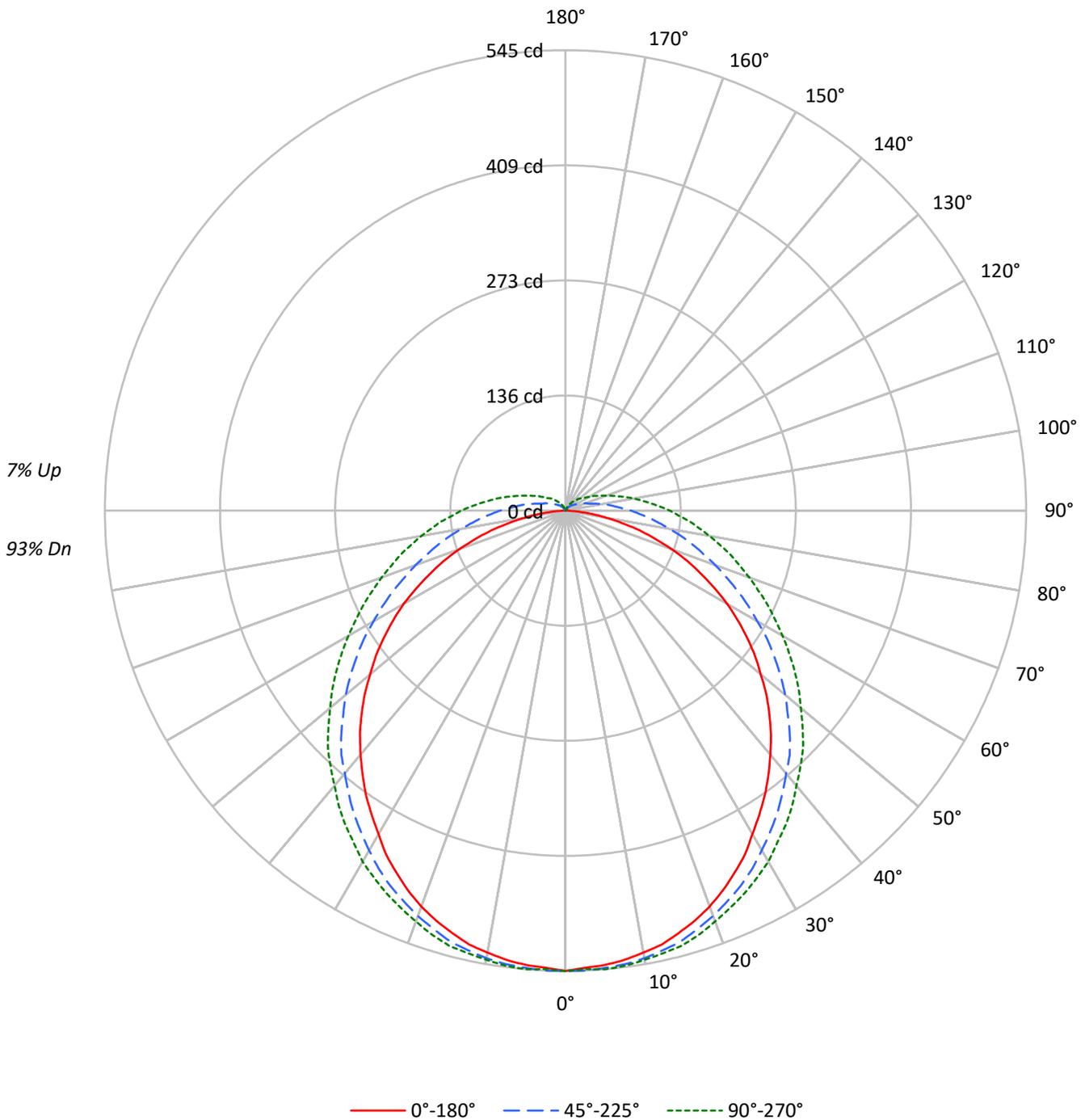
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1871.0 lumens
Efficiency: N/A
Efficacy: 34.6 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): 54
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1357318
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Luminous Intensity Polar Plot





TEST NUMBER: P1357318
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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	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	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	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2943	2943	2943
5°	2923	2887	2876
10°	2905	2834	2806
15°	2881	2778	2750
20°	2848	2705	2671
25°	2796	2635	2603
30°	2730	2553	2535
35°	2679	2477	2457
40°	2620	2395	2374
45°	2561	2324	2314
50°	2483	2231	2224
55°	2409	2130	2154
60°	2318	2017	2078
65°	2174	1912	2019
70°	2015	1814	1966
75°	1779	1740	1948
80°	1407	1675	1942
85°	884	1680	1998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2561 cd/sqm



TEST NUMBER: P1357318
 CATALOG NUMBER: 6ASL4-15HE-2-A59-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	2.8
10°-20°	148.6	7.9
20°-30°	225.1	12.0
30°-40°	272.3	14.6
40°-50°	287.0	15.3
50°-60°	267.9	14.3
60°-70°	221.2	11.8
70°-80°	160.5	8.6
80°-90°	101.4	5.4
90°-100°	60.5	3.2
100°-110°	34.7	1.9
110°-120°	19.7	1.1
120°-130°	11.2	0.6
130°-140°	6.1	0.3
140°-150°	2.7	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	425.4	22.7
0°-40°	697.7	37.3
0°-60°	1252.6	66.9
0°-90°	1735.6	92.8
90°-120°	114.9	6.1
90°-150°	134.9	7.2
90°-180°	135.0	7.2
0°-180°	1871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	540	545	543	543	545	51
15°	518	524	528	530	533	146
25°	473	480	490	497	500	218
35°	411	422	437	449	454	257
45°	341	355	375	391	398	263
55°	262	278	302	322	331	234
65°	176	195	224	252	264	175
75°	91	115	156	188	202	96
85°	17	53	99	134	147	21
90°	0	33	77	110	123	1
95°	0	21	58	89	101	0
105°	0	7	33	57	65	0
115°	0	3	19	34	41	0
125°	0	2	12	22	26	0
135°	0	0	7	14	17	0
145°	0	0	3	9	10	0
155°	0	0	0	2	3	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357318
 CATALOG NUMBER: 6ASL4-15HE-2-A59-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	545.0	545.0	545.0	545.0	545.0
2.5°	541.6	546.7	545.0	543.3	543.3
5°	539.9	545.0	543.3	543.3	545.0
7.5°	536.4	541.6	541.6	541.6	543.3
10°	531.3	538.1	538.1	538.1	539.9
12.5°	526.2	531.3	533.0	534.7	536.4
15°	517.6	524.4	527.9	529.6	533.0
17.5°	509.0	514.2	519.3	524.4	526.2
20°	498.7	505.6	510.7	515.9	517.6
22.5°	486.7	493.6	500.4	505.6	509.0
25°	473.0	479.9	490.2	497.0	500.4
27.5°	459.3	466.2	478.2	486.7	490.2
30°	442.2	452.5	464.5	474.7	479.9
32.5°	426.7	437.0	450.7	462.7	466.2
35°	411.3	421.6	437.0	449.0	454.2
37.5°	394.2	406.2	421.6	435.3	440.5
40°	377.0	389.0	406.2	421.6	425.0
42.5°	359.9	371.9	392.5	406.2	411.3
45°	341.1	354.8	375.3	390.8	397.6
47.5°	322.2	335.9	356.5	373.6	380.5
50°	301.6	317.1	339.3	356.5	363.3
52.5°	282.8	298.2	320.5	339.3	347.9
55°	262.2	277.6	301.6	322.2	330.8
57.5°	241.7	257.1	282.8	305.1	313.6
60°	221.1	236.5	262.2	287.9	296.5
62.5°	198.8	215.9	243.4	269.1	279.4
65°	176.5	195.4	224.5	251.9	263.9
67.5°	156.0	174.8	205.7	236.5	246.8
70°	133.7	154.2	188.5	219.4	231.4
72.5°	111.4	133.7	171.4	203.9	215.9
75°	90.8	114.8	156.0	188.5	202.2
77.5°	68.6	97.7	140.5	174.8	186.8
80°	49.7	80.6	125.1	161.1	173.1
82.5°	32.6	65.1	111.4	147.4	159.4
85°	17.1	53.1	99.4	133.7	147.4
87.5°	5.1	41.1	87.4	121.7	133.7
90°	0.0	32.6	77.1	109.7	123.4
92.5°	0.0	25.7	66.8	99.4	111.4
95°	0.0	20.6	58.3	89.1	101.1
97.5°	0.0	17.1	51.4	80.6	90.8
100°	0.0	13.7	44.6	72.0	82.3
102.5°	0.0	10.3	37.7	63.4	73.7
105°	0.0	6.9	32.6	56.6	65.1
107.5°	0.0	5.1	27.4	49.7	58.3
110°	0.0	5.1	25.7	42.8	51.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.4	22.3	39.4	46.3
115°	0.0	3.4	18.9	34.3	41.1
117.5°	0.0	3.4	17.1	30.8	37.7
120°	0.0	3.4	15.4	27.4	32.6
122.5°	0.0	1.7	13.7	24.0	29.1
125°	0.0	1.7	12.0	22.3	25.7
127.5°	0.0	1.7	10.3	20.6	24.0
130°	0.0	1.7	10.3	18.9	22.3
132.5°	0.0	0.0	8.6	17.1	20.6
135°	0.0	0.0	6.9	13.7	17.1
137.5°	0.0	0.0	6.9	12.0	15.4
140°	0.0	0.0	5.1	12.0	13.7
142.5°	0.0	0.0	3.4	10.3	12.0
145°	0.0	0.0	3.4	8.6	10.3
147.5°	0.0	0.0	1.7	6.9	8.6
150°	0.0	0.0	1.7	5.1	6.9
152.5°	0.0	0.0	0.0	3.4	5.1
155°	0.0	0.0	0.0	1.7	3.4
157.5°	0.0	0.0	0.0	0.0	1.7
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	13.07	14.61	13.55	15.07	15.56	15.16	16.70	15.63	17.16	17.65
	3H	14.58	15.98	15.06	16.45	16.98	17.62	19.03	18.11	19.50	20.03
	4H	15.05	16.38	15.56	16.87	17.41	18.85	20.17	19.35	20.66	21.20
	6H	15.33	16.57	15.85	17.07	17.63	20.13	21.37	20.65	21.87	22.43
	8H	15.38	16.57	15.91	17.09	17.66	20.81	21.99	21.34	22.52	23.08
	12H	15.40	16.54	15.94	17.05	17.65	21.56	22.70	22.10	23.22	23.81
4H	2H	13.96	15.29	14.47	15.77	16.32	15.59	16.92	16.10	17.41	17.95
	3H	15.70	16.83	16.22	17.36	17.93	18.28	19.42	18.80	19.95	20.51
	4H	16.31	17.35	16.85	17.89	18.48	19.68	20.71	20.22	21.26	21.85
	6H	16.71	17.63	17.27	18.19	18.81	21.17	22.08	21.72	22.65	23.26
	8H	16.81	17.67	17.37	18.24	18.86	21.95	22.81	22.51	23.38	24.00
	12H	16.85	17.64	17.44	18.23	18.86	22.83	23.61	23.41	24.20	24.83
8H	4H	17.01	17.87	17.57	18.44	19.06	19.90	20.76	20.46	21.33	21.95
	6H	17.60	18.33	18.19	18.94	19.57	21.56	22.29	22.16	22.90	23.53
	8H	17.79	18.45	18.39	19.06	19.71	22.48	23.14	23.09	23.76	24.41
	12H	17.91	18.50	18.52	19.10	19.81	23.55	24.14	24.16	24.75	25.46
12H	4H	17.21	18.00	17.80	18.59	19.22	19.91	20.69	20.49	21.28	21.91
	6H	17.91	18.57	18.51	19.19	19.83	21.60	22.26	22.21	22.88	23.52
	8H	18.19	18.78	18.80	19.39	20.10	22.59	23.18	23.20	23.79	24.50

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

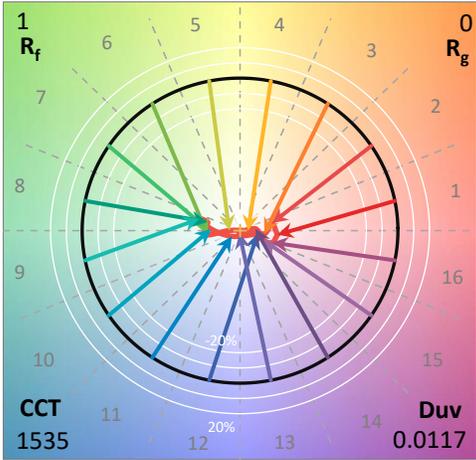
Test Information

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
 R_f: 1.3
 R_g: 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		



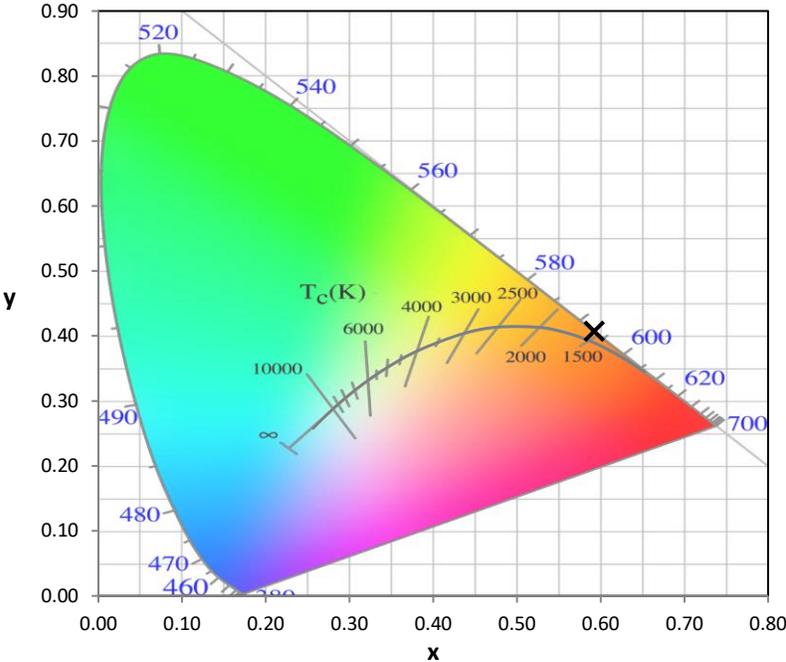
Test Conditions
 Stabilization Time: 77M
 Operation Time: 2H 17M
 Sphere Temperature (°C): 25.1

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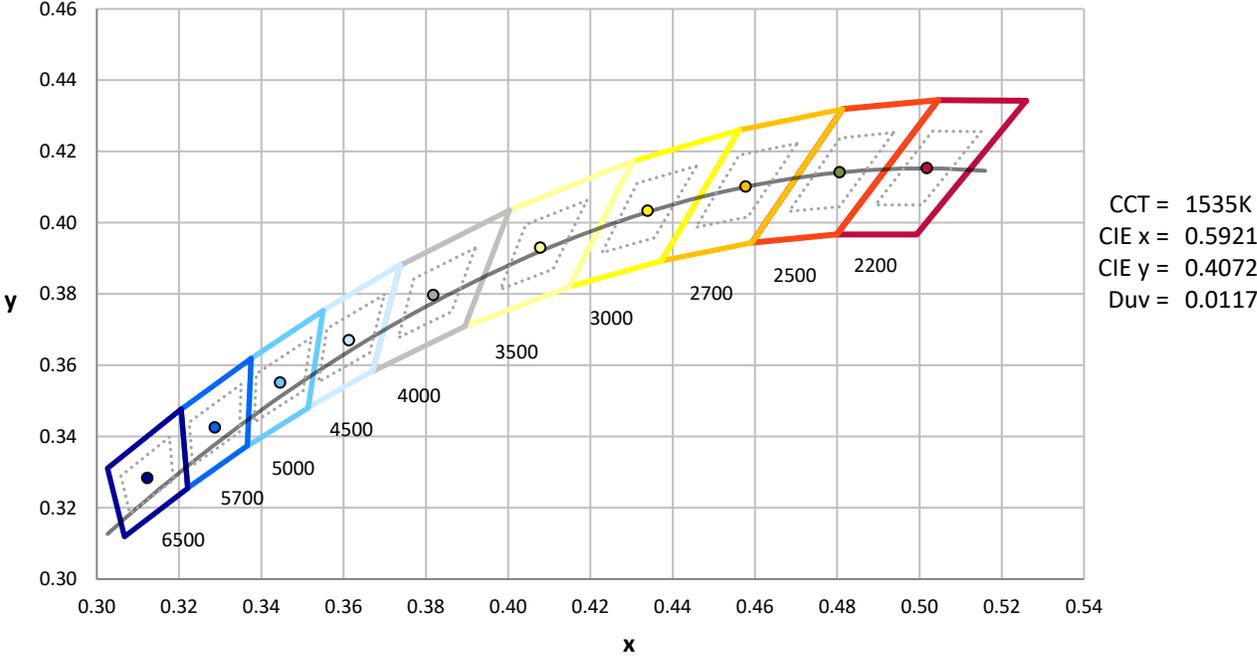
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



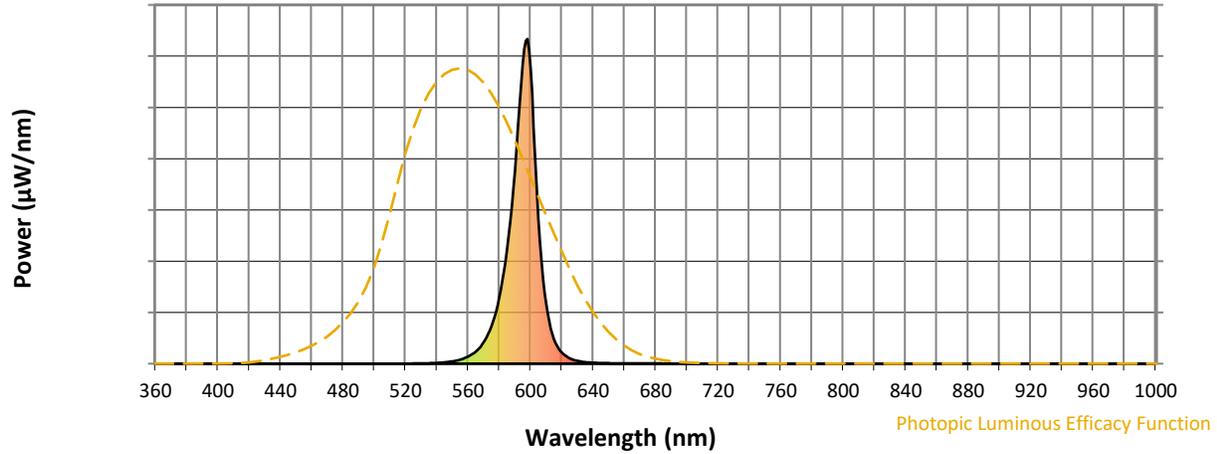
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies outside the range

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Photopic Flux vs. Wavelength

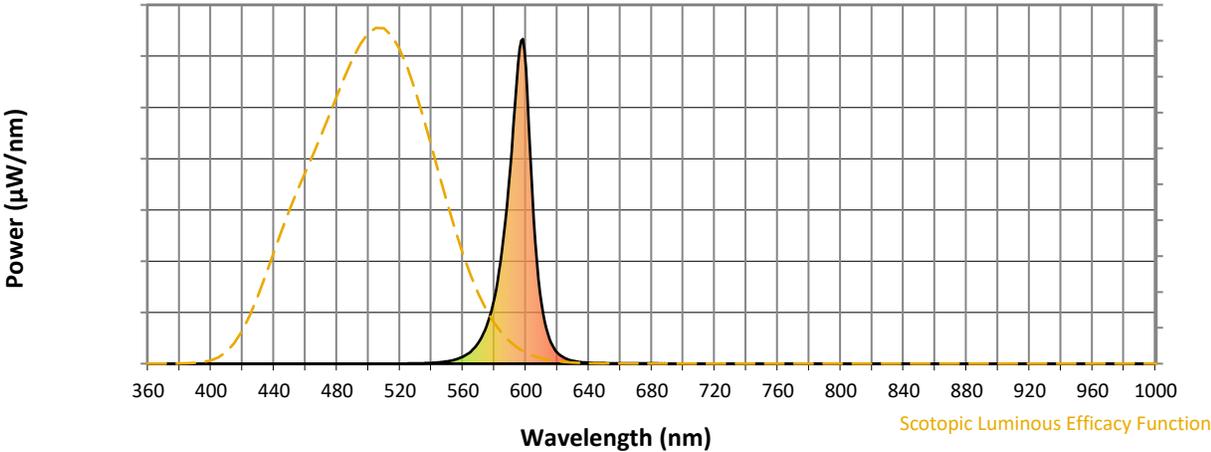


Photopic Lumens: NR

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



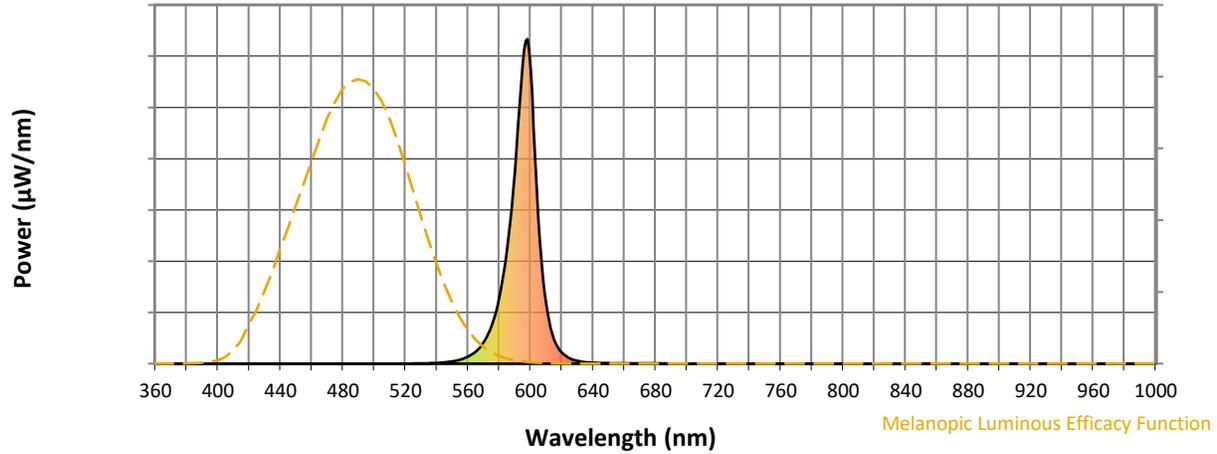
Scotopic Lumens: NR

S/P: 0.22

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



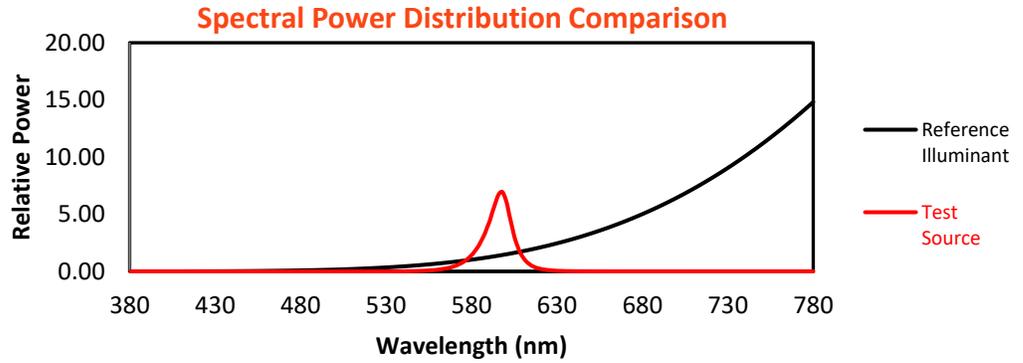
Melanopic Lumens: NR

M/P: 0.12

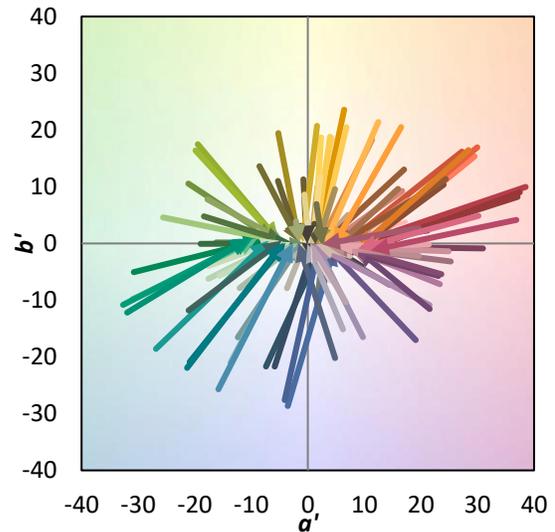
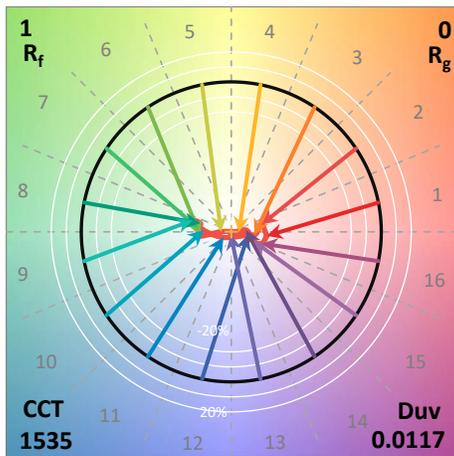
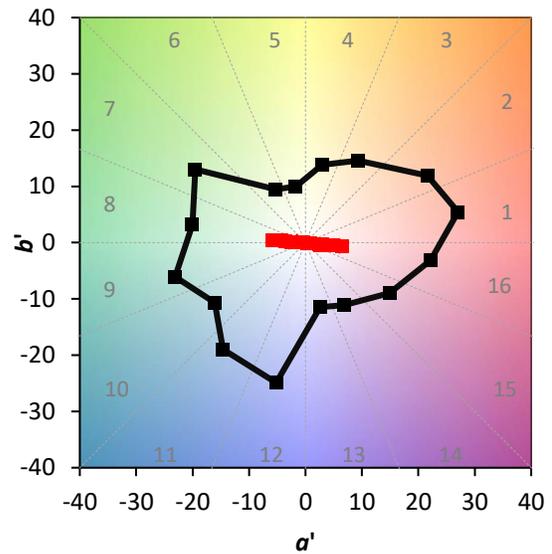
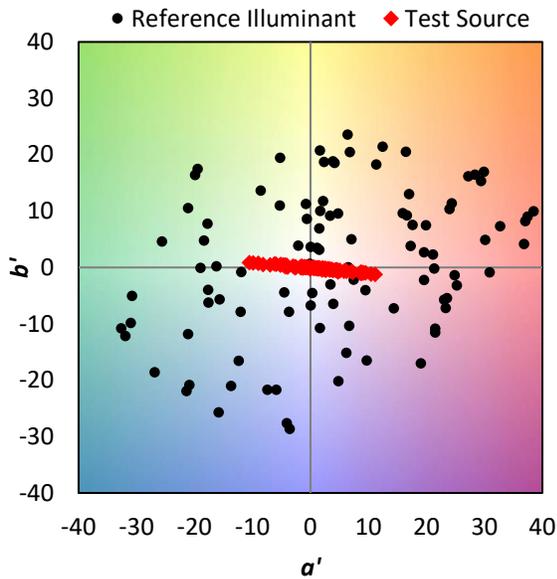
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	35	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	17	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	9	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			

Summary

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

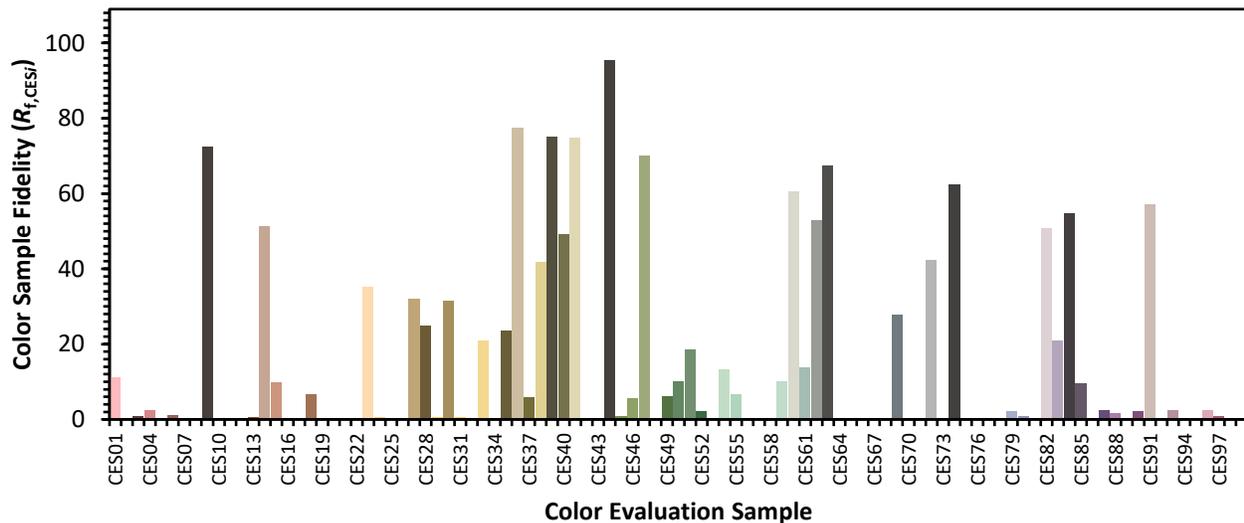


Color Vector Graphics

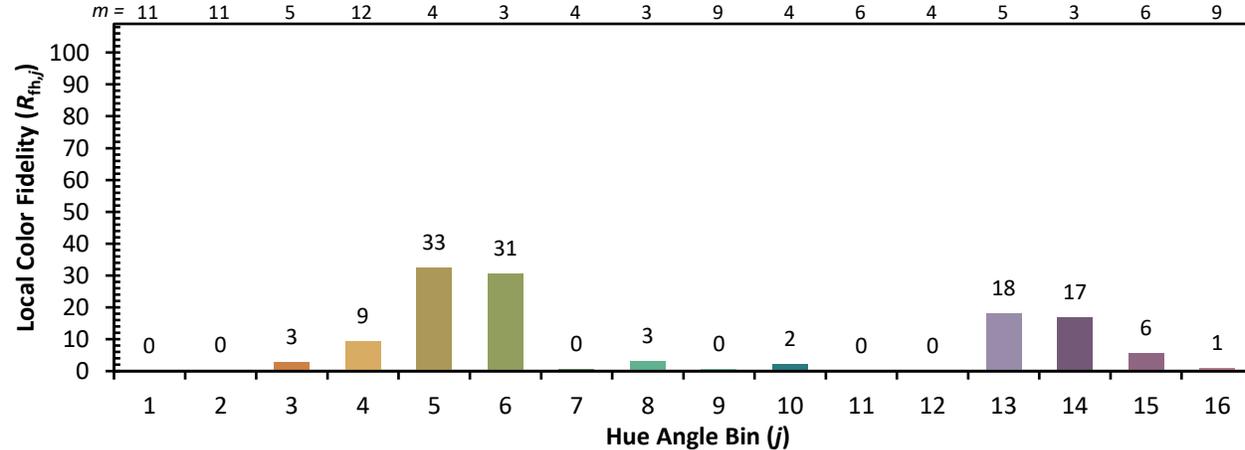
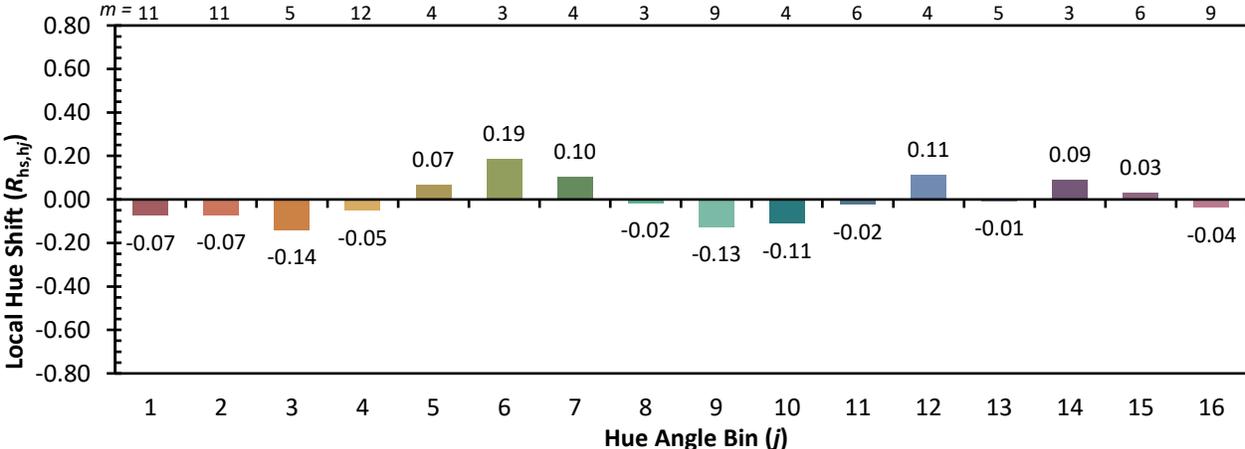
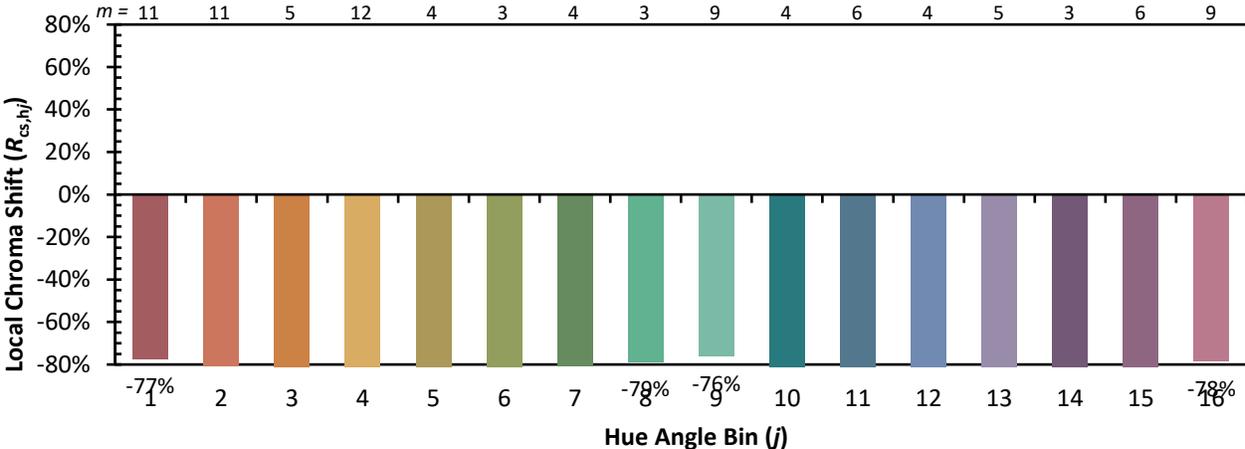


Individual Sample Fidelity Index ($R_{f,i}$)

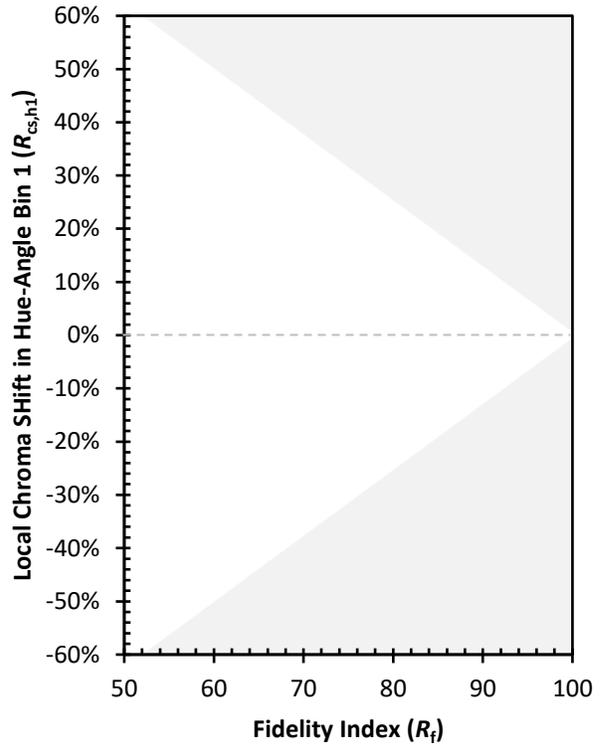
CES01 = 90	CES26 = 0	CES51 = 19	CES76 = 0
CES02 = 70	CES27 = 32	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 25	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 13	CES79 = 2
CES05 = 52	CES30 = 31	CES55 = 7	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 51
CES08 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)