

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: P1356688

Luminaire Tested: 1ASL4-10HE-2-A59-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356688
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: 1ASL4-10HE-2-A59-UNV
Description: 1FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

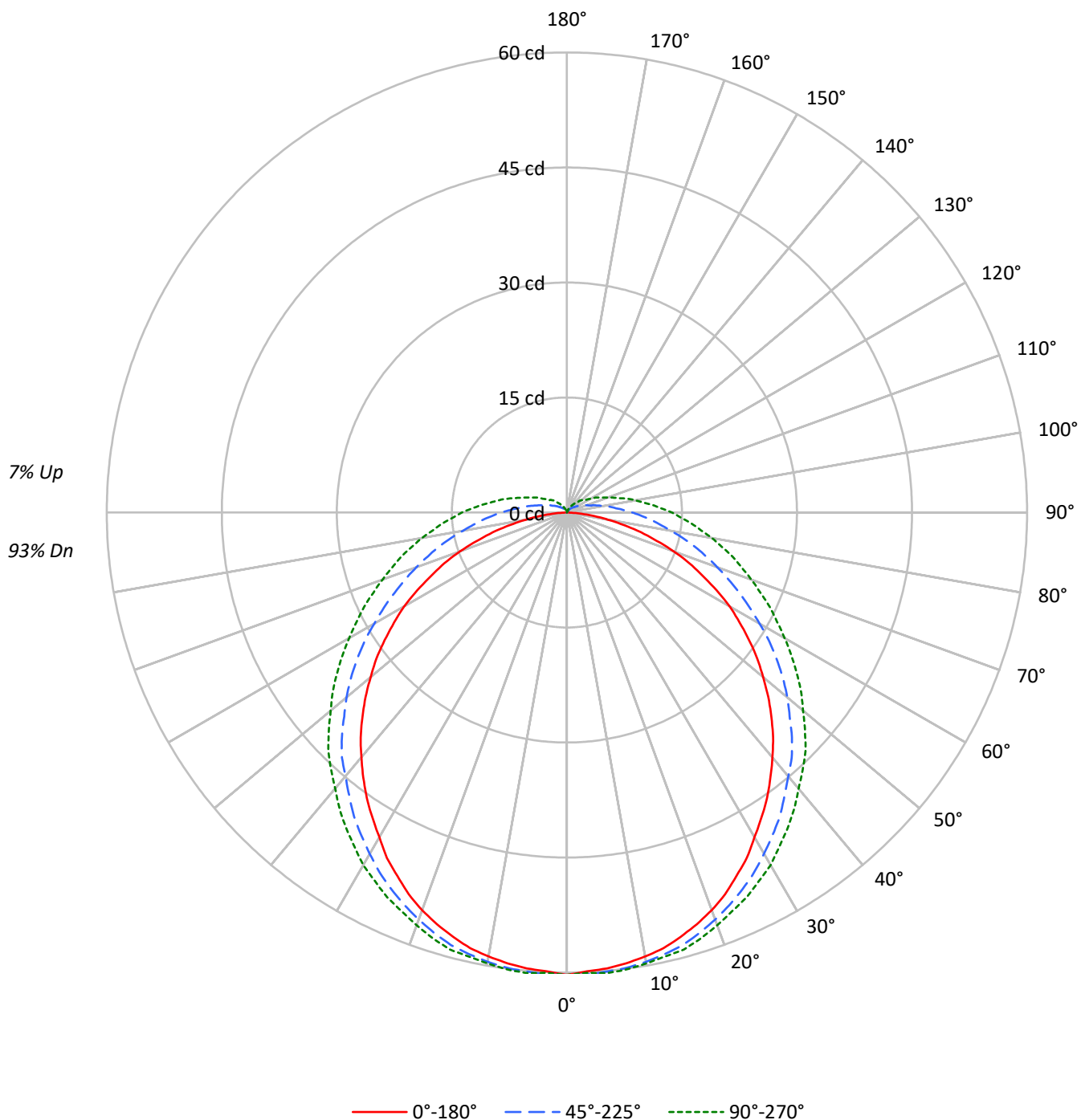
Lumens per Lamp: N/A
Luminaire Lumens: 207.0 lumens
Efficiency: N/A
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 0.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 5.7
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			
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	76	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°	1989	1989	1989
5°	1958	1939	1943
10°	1933	1894	1895
15°	1902	1847	1859
20°	1865	1790	1806
25°	1813	1733	1760
30°	1754	1672	1713
35°	1705	1614	1658
40°	1648	1548	1603
45°	1589	1493	1564
50°	1521	1422	1503
55°	1447	1350	1455
60°	1365	1264	1404
65°	1239	1184	1364
70°	1104	1111	1328
75°	912	1047	1318
80°	651	978	1315
85°	324	949	1349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	2.8
10°-20°	16.4	7.9
20°-30°	24.9	12.0
30°-40°	30.1	14.6
40°-50°	31.7	15.3
50°-60°	29.6	14.3
60°-70°	24.5	11.8
70°-80°	17.8	8.6
80°-90°	11.2	5.4
90°-100°	6.7	3.2
100°-110°	3.8	1.9
110°-120°	2.2	1.1
120°-130°	1.2	0.6
130°-140°	0.7	0.3
140°-150°	0.3	0.1
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	47.1	22.7
0°-40°	77.2	37.3
0°-60°	138.6	66.9
0°-90°	192.0	92.8
90°-120°	12.7	6.1
90°-150°	14.9	7.2
90°-180°	15.0	7.2
0°-180°	207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	60	60	60	60	60	
5°	60	60	60	60	60	6
15°	57	58	58	59	59	16
25°	52	53	54	55	55	24
35°	46	47	48	50	50	28
45°	38	39	42	43	44	29
55°	29	31	33	36	37	26
65°	20	22	25	28	29	19
75°	10	13	17	21	22	11
85°	2	6	11	15	16	2
90°	0	4	8	12	14	0
95°	0	2	6	10	11	0
105°	0	1	4	6	7	0
115°	0	0	2	4	5	0
125°	0	0	1	2	3	0
135°	0	0	1	2	2	0
145°	0	0	0	1	1	0
155°	0	0	0	0	0	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°	60.3	60.3	60.3	60.3	60.3
2.5°	59.9	60.5	60.3	60.1	60.1
5°	59.7	60.3	60.1	60.1	60.3
7.5°	59.3	59.9	59.9	59.9	60.1
10°	58.8	59.5	59.5	59.5	59.7
12.5°	58.2	58.8	59.0	59.2	59.3
15°	57.3	58.0	58.4	58.6	59.0
17.5°	56.3	56.9	57.5	58.0	58.2
20°	55.2	55.9	56.5	57.1	57.3
22.5°	53.9	54.6	55.4	55.9	56.3
25°	52.3	53.1	54.2	55.0	55.4
27.5°	50.8	51.6	52.9	53.9	54.2
30°	48.9	50.1	51.4	52.5	53.1
32.5°	47.2	48.4	49.9	51.2	51.6
35°	45.5	46.6	48.4	49.7	50.2
37.5°	43.6	44.9	46.6	48.2	48.7
40°	41.7	43.0	44.9	46.6	47.0
42.5°	39.8	41.1	43.4	44.9	45.5
45°	37.7	39.2	41.5	43.2	44.0
47.5°	35.6	37.2	39.4	41.3	42.1
50°	33.4	35.1	37.5	39.4	40.2
52.5°	31.3	33.0	35.5	37.5	38.5
55°	29.0	30.7	33.4	35.6	36.6
57.5°	26.7	28.4	31.3	33.8	34.7
60°	24.5	26.2	29.0	31.9	32.8
62.5°	22.0	23.9	26.9	29.8	30.9
65°	19.5	21.6	24.8	27.9	29.2
67.5°	17.3	19.3	22.8	26.2	27.3
70°	14.8	17.1	20.9	24.3	25.6
72.5°	12.3	14.8	19.0	22.6	23.9
75°	10.0	12.7	17.3	20.9	22.4
77.5°	7.6	10.8	15.5	19.3	20.7
80°	5.5	8.9	13.8	17.8	19.2
82.5°	3.6	7.2	12.3	16.3	17.6
85°	1.9	5.9	11.0	14.8	16.3
87.5°	0.6	4.6	9.7	13.5	14.8
90°	0.0	3.6	8.5	12.1	13.7
92.5°	0.0	2.8	7.4	11.0	12.3
95°	0.0	2.3	6.4	9.9	11.2
97.5°	0.0	1.9	5.7	8.9	10.0
100°	0.0	1.5	4.9	8.0	9.1
102.5°	0.0	1.1	4.2	7.0	8.2
105°	0.0	0.8	3.6	6.3	7.2
107.5°	0.0	0.6	3.0	5.5	6.4
110°	0.0	0.6	2.8	4.7	5.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.4	2.5	4.4	5.1
115°	0.0	0.4	2.1	3.8	4.6
117.5°	0.0	0.4	1.9	3.4	4.2
120°	0.0	0.4	1.7	3.0	3.6
122.5°	0.0	0.2	1.5	2.7	3.2
125°	0.0	0.2	1.3	2.5	2.8
127.5°	0.0	0.2	1.1	2.3	2.7
130°	0.0	0.2	1.1	2.1	2.5
132.5°	0.0	0.0	0.9	1.9	2.3
135°	0.0	0.0	0.8	1.5	1.9
137.5°	0.0	0.0	0.8	1.3	1.7
140°	0.0	0.0	0.6	1.3	1.5
142.5°	0.0	0.0	0.4	1.1	1.3
145°	0.0	0.0	0.4	0.9	1.1
147.5°	0.0	0.0	0.2	0.8	0.9
150°	0.0	0.0	0.2	0.6	0.8
152.5°	0.0	0.0	0.0	0.4	0.6
155°	0.0	0.0	0.0	0.2	0.4
157.5°	0.0	0.0	0.0	0.0	0.2
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	11.60	13.13	12.07	13.59	14.08	13.43	14.97	13.91	15.43	15.92
	3H	13.11	14.51	13.60	14.98	15.51	15.78	17.18	16.27	17.65	18.18
	4H	13.59	14.92	14.10	15.41	15.95	16.91	18.24	17.42	18.73	19.27
	6H	13.87	15.11	14.39	15.61	16.17	18.05	19.29	18.57	19.79	20.35
	8H	13.93	15.11	14.46	15.64	16.20	18.62	19.80	19.15	20.33	20.89
	12H	13.94	15.08	14.48	15.60	16.19	19.20	20.34	19.74	20.86	21.45
4H	2H	12.43	13.76	12.94	14.25	14.79	13.87	15.20	14.38	15.69	16.23
	3H	14.18	15.32	14.70	15.85	16.41	16.46	17.59	16.98	18.12	18.69
	4H	14.79	15.83	15.33	16.37	16.97	17.76	18.80	18.30	19.34	19.94
	6H	15.20	16.11	15.76	16.68	17.29	19.10	20.02	19.66	20.58	21.20
	8H	15.30	16.16	15.86	16.73	17.35	19.77	20.63	20.33	21.20	21.82
	12H	15.35	16.13	15.93	16.72	17.35	20.47	21.26	21.06	21.85	22.48
8H	4H	15.44	16.30	16.00	16.86	17.49	17.99	18.85	18.55	19.42	20.04
	6H	16.02	16.75	16.62	17.36	17.99	19.51	20.24	20.10	20.85	21.48
	8H	16.21	16.87	16.82	17.49	18.13	20.32	20.98	20.93	21.60	22.24
	12H	16.33	16.92	16.94	17.53	18.24	21.21	21.80	21.82	22.41	23.12
12H	4H	15.61	16.39	16.20	16.99	17.62	18.00	18.78	18.59	19.38	20.01
	6H	16.29	16.95	16.90	17.57	18.21	19.55	20.21	20.16	20.83	21.47
	8H	16.58	17.16	17.19	17.77	18.48	20.43	21.02	21.04	21.63	22.34

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

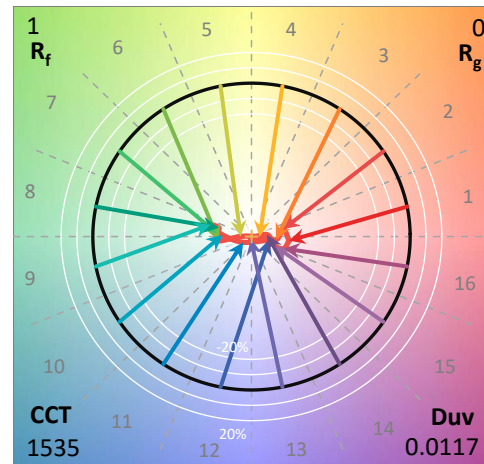
Data in this report applies to families of products including 4ASL

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	CRI (Ra):	-20.0		
CIE u':	0.3534	R1:	-32.1	R9:	-380.5
CIE v':	0.5468	R2:	53.1	R10:	29.9
Duv:	0.0117	R3:	18.5	R11:	-92.0
CIE x:	0.5921	R4:	-65.7	R12:	-8.5
CIE y:	0.4072	R5:	-38.6	R13:	-13.5
CIE z:	0.0007	R6:	42.8	R14:	47.1
Peak Wavelength (nm):	598	R7:	-6.2	R15:	-65.4
Dominant Wavelength (nm):	592	R8:	-132.3		
Purity:	99.97894				
Rf:	1.3				
Rg:	0.1				



Test Conditions

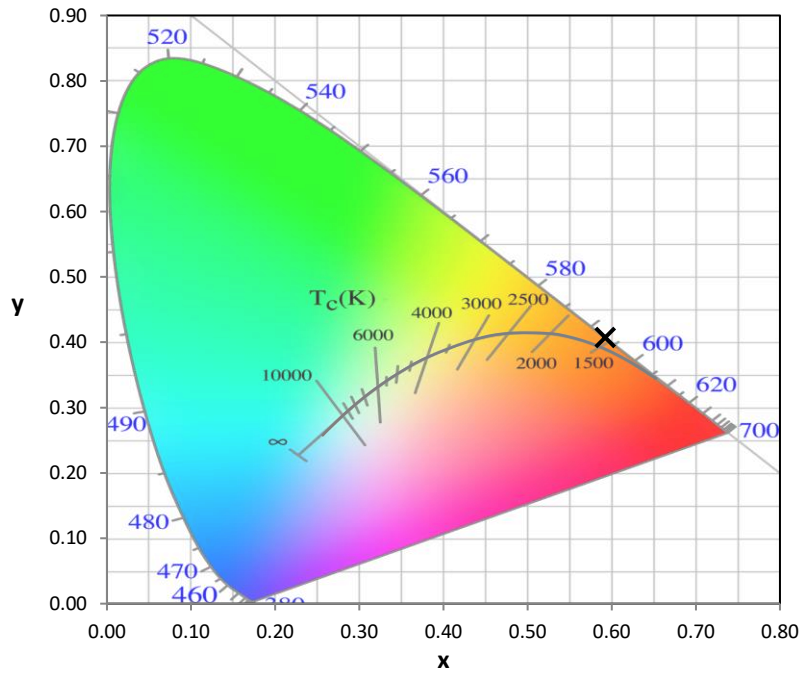
Stabilization Time: 77M
 Operation Time: 2H 17M
 Sphere Temperature (°C): 25.1

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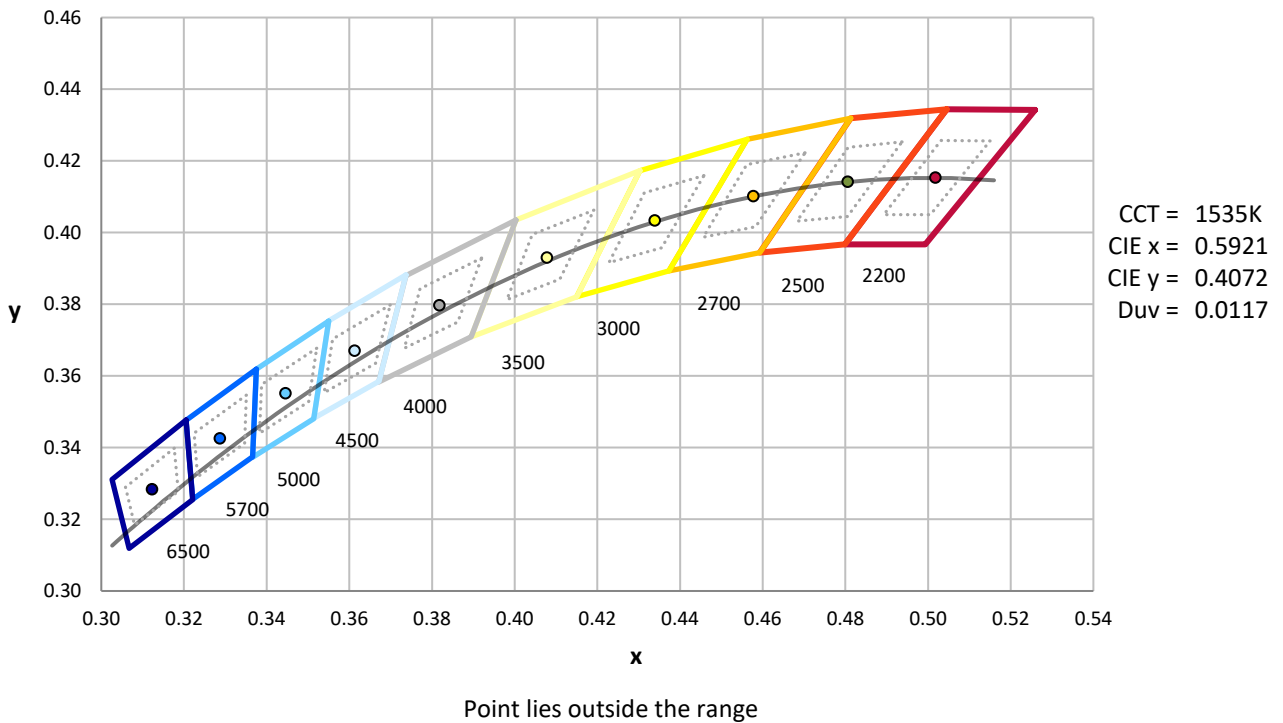
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

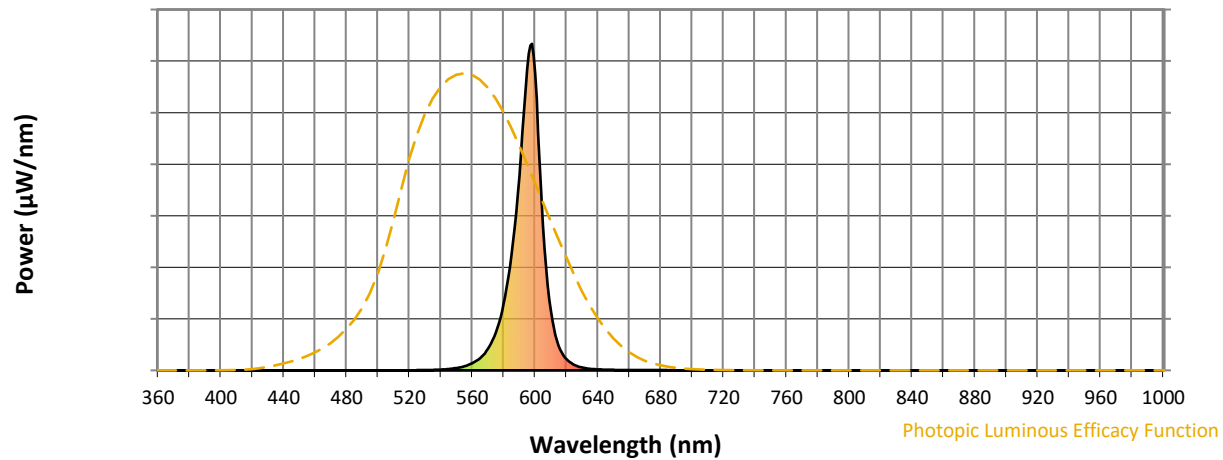


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

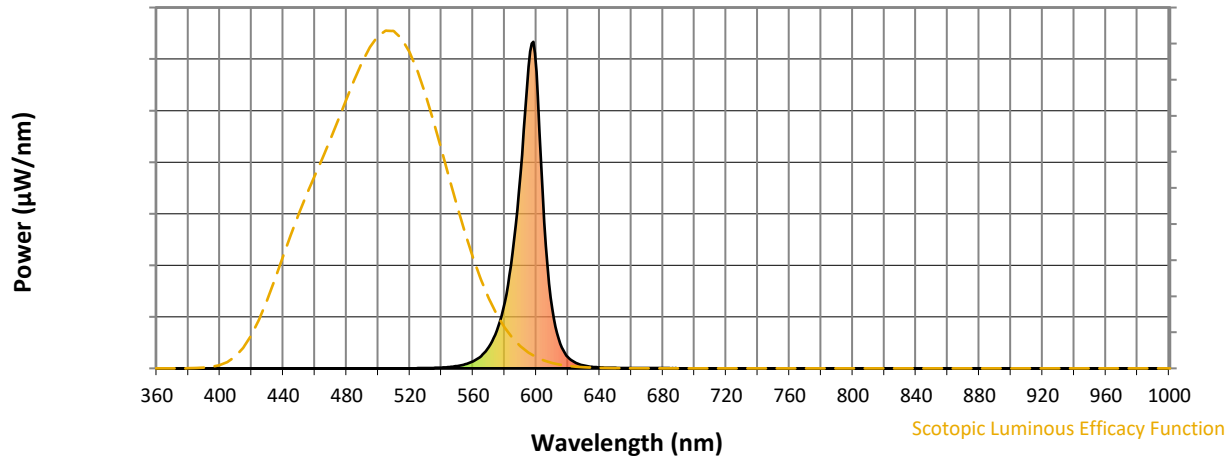


Photopic Lumens: NR

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	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



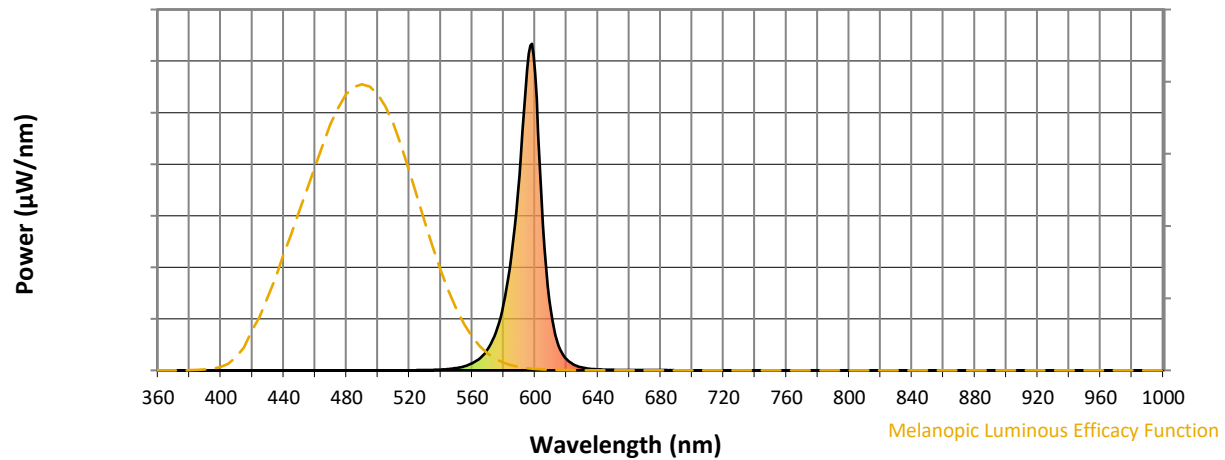
Scotopic Lumens: NR

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

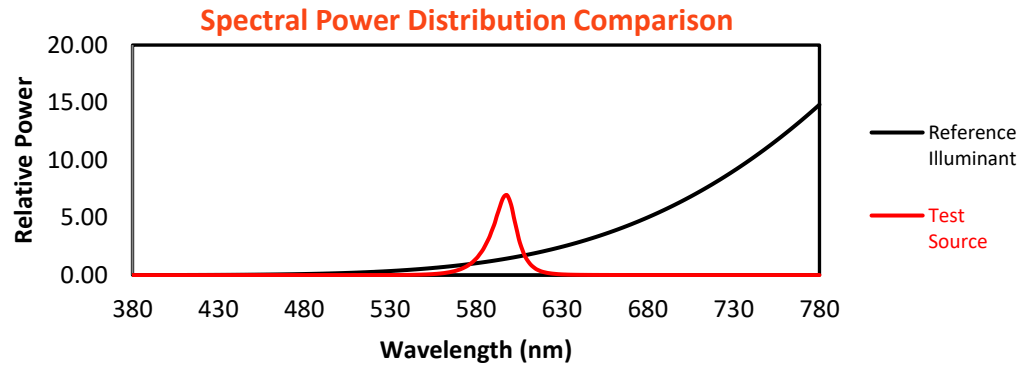
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	0	NR	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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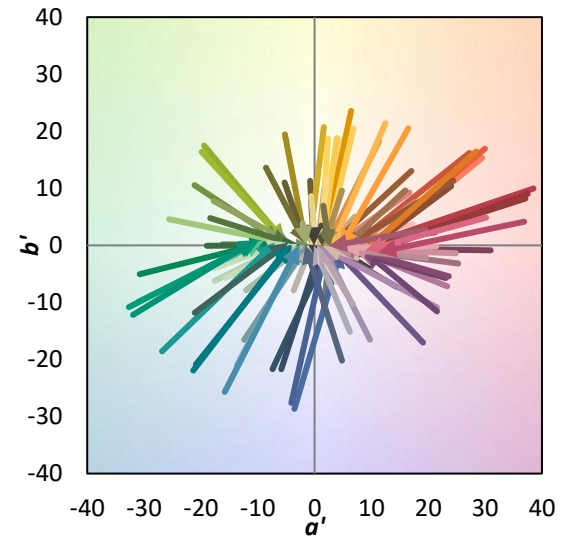
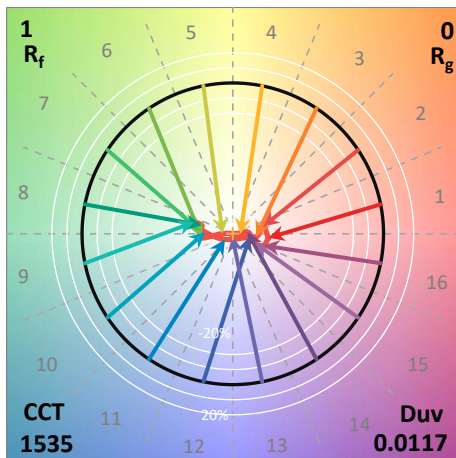
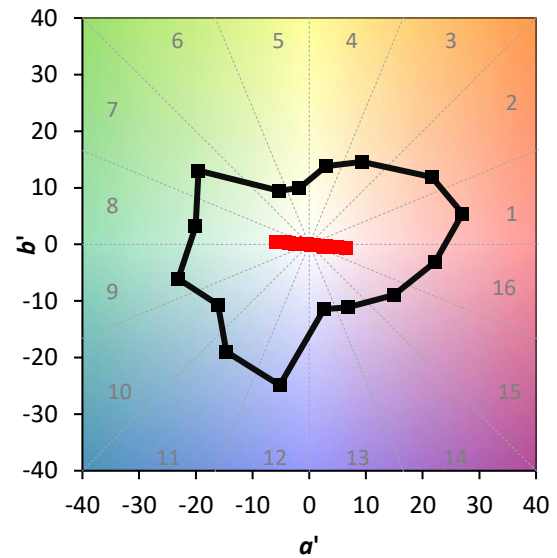
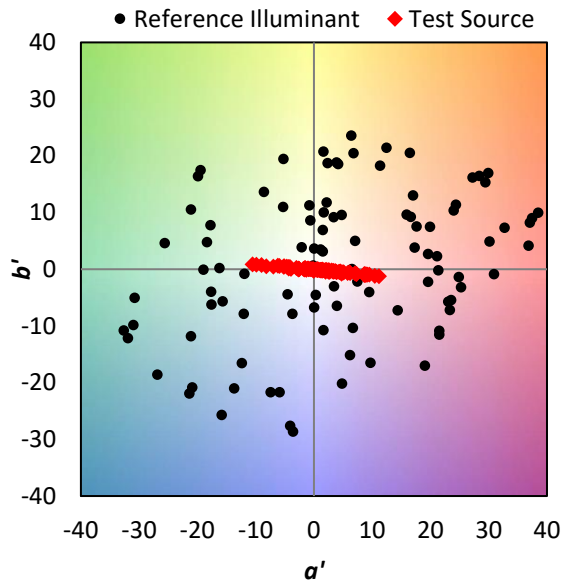
TM-30-18

Summary

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

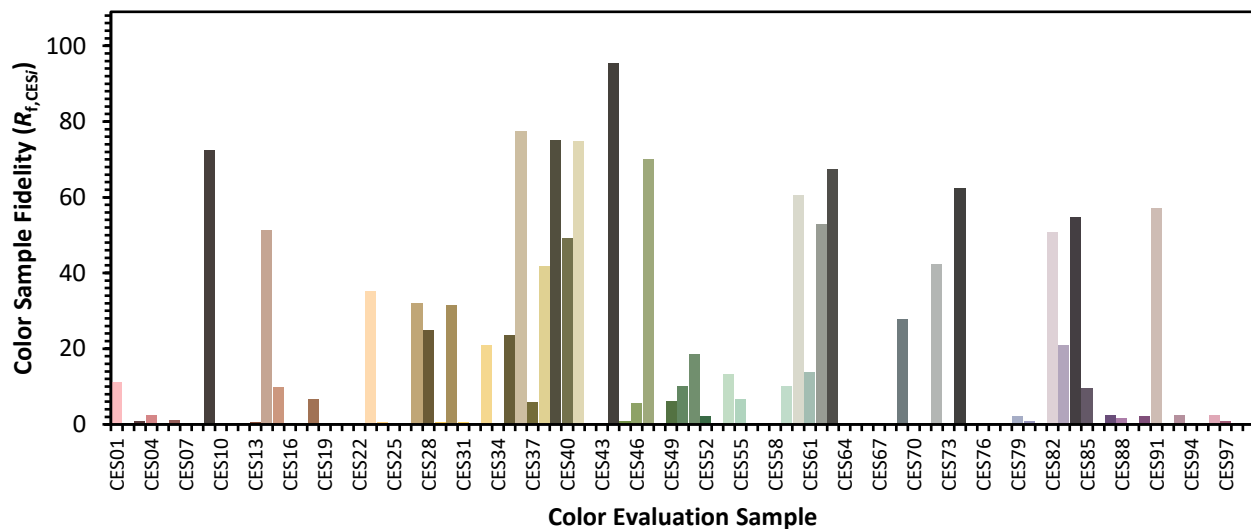


Color Vector Graphics

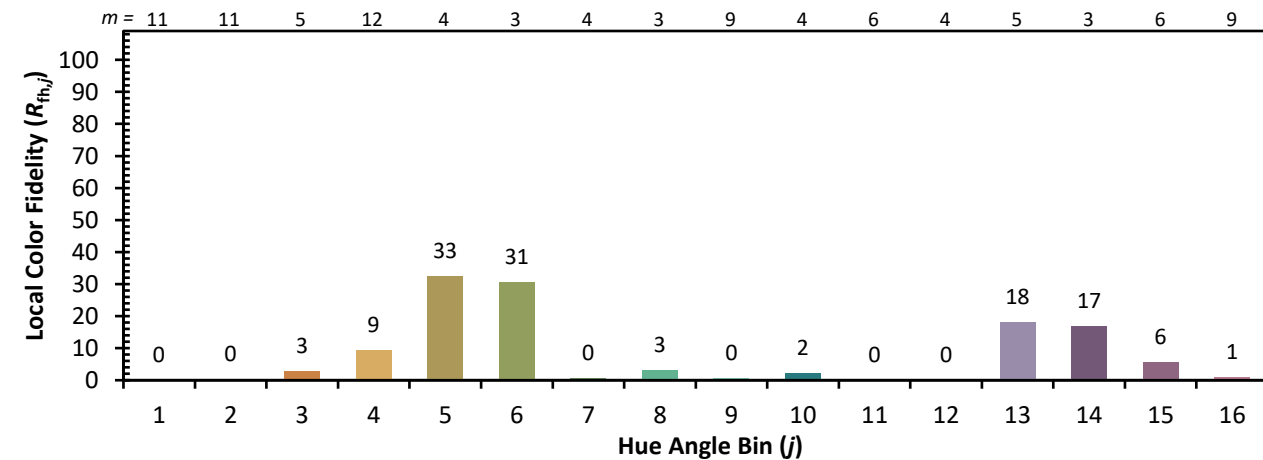
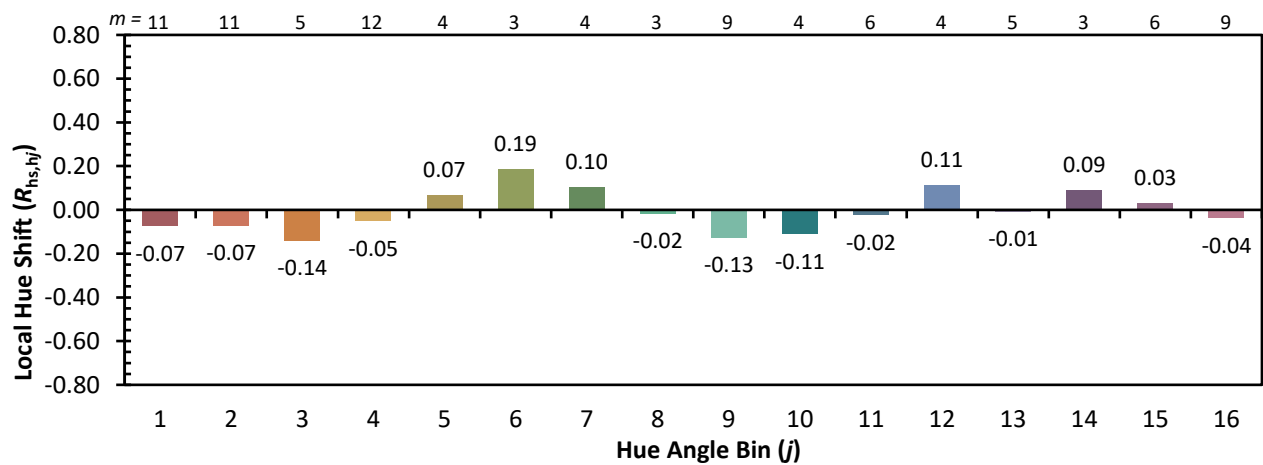
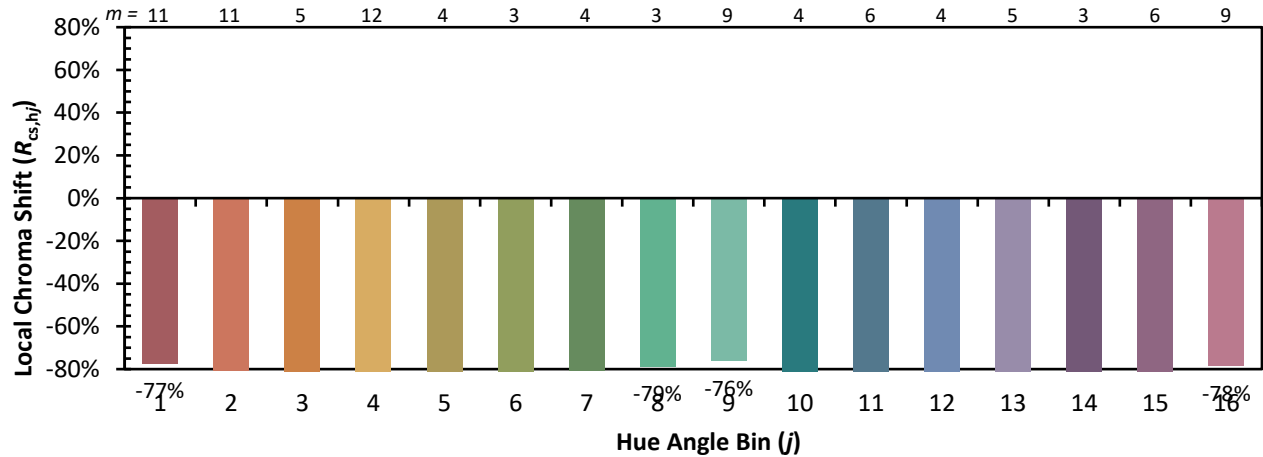


Individual Sample Fidelity Index ($R_{f,i}$)

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	



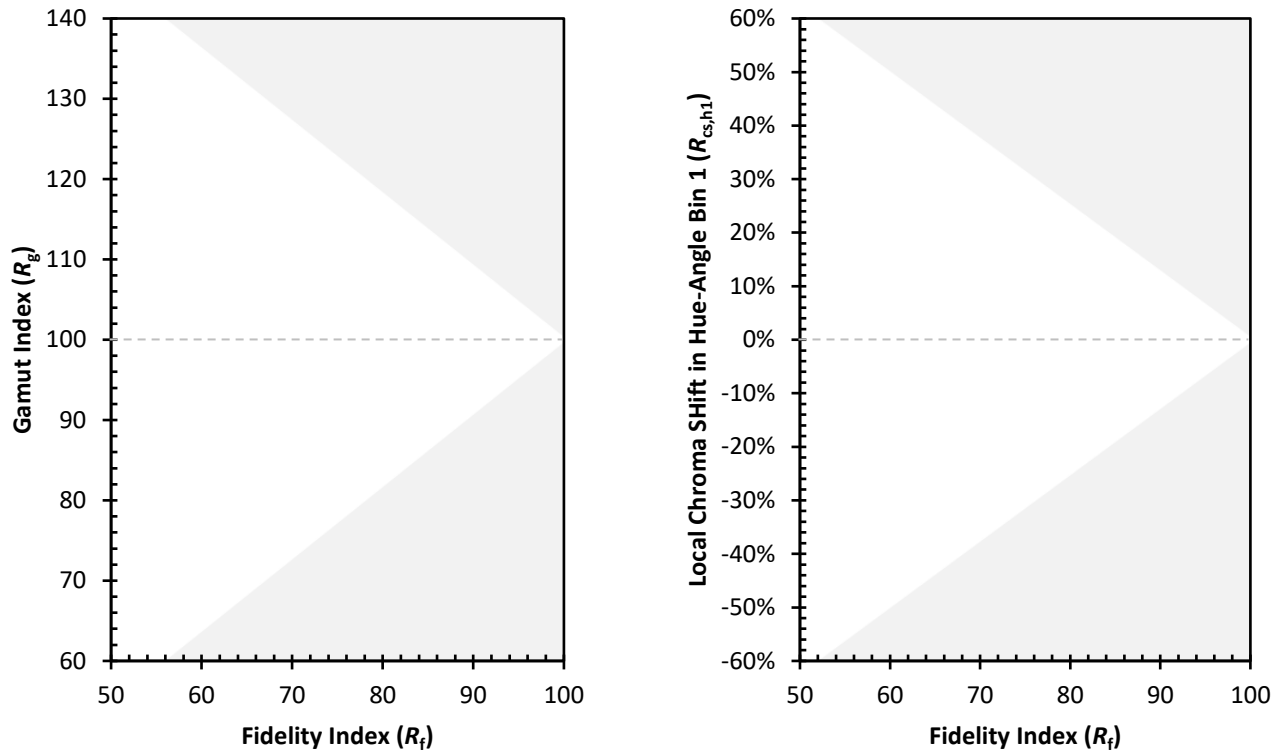
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)