

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: P1356985

Luminaire Tested: 3ASL4-10-1-A59-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356985
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: 3ASL4-10-1-A59-UNV
Description: 3FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 1 ROW
Light Source: -
Ballast/Driver: -

Summary

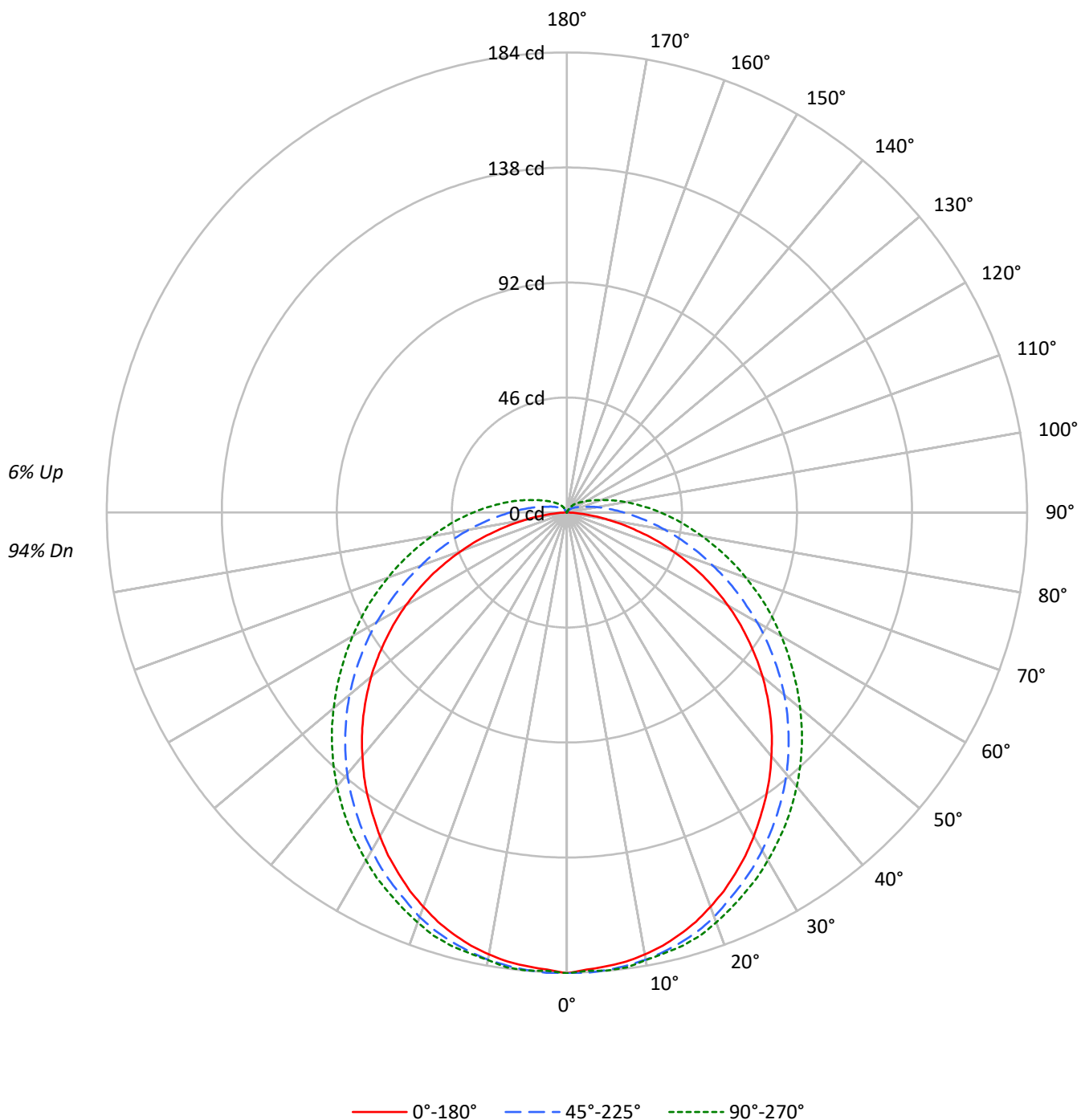
Lumens per Lamp: N/A
Luminaire Lumens: 617.0 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 18.3
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: 3ASL4-10-1-A59-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108		102	102	102		96
1	106	100	95	91	102	97	93	89	92	88	85		87	84	81		82
2	95	86	79	73	92	84	77	71	79	74	69		75	70	66		71
3	87	76	67	60	84	73	65	59	69	63	57		66	60	55		62
4	79	67	57	50	76	65	56	50	62	54	48		58	52	47		56
5	73	59	50	43	70	58	49	43	55	47	42		52	46	41		50
6	67	53	44	38	65	52	43	37	50	42	36		47	41	35		45
7	62	48	39	33	60	47	39	33	45	37	32		43	36	31		41
8	58	44	35	29	56	43	35	29	41	34	29		39	33	28		38
9	54	40	32	26	52	39	32	26	38	31	26		36	30	25		35
10	51	37	29	24	49	36	29	24	35	28	23		34	27	23		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1998	1998	1998
5°	1976	1957	1948
10°	1964	1916	1896
15°	1942	1872	1857
20°	1911	1823	1807
25°	1875	1765	1754
30°	1834	1711	1704
35°	1793	1657	1655
40°	1749	1602	1603
45°	1705	1542	1551
50°	1654	1479	1495
55°	1591	1409	1441
60°	1521	1335	1392
65°	1432	1256	1345
70°	1295	1175	1298
75°	1119	1103	1262
80°	880	1038	1238
85°	498	993	1249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1705 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	2.8
10°-20°	50.1	8.1
20°-30°	75.7	12.3
30°-40°	91.6	14.8
40°-50°	96.3	15.6
50°-60°	89.7	14.5
60°-70°	73.7	11.9
70°-80°	52.3	8.5
80°-90°	31.5	5.1
90°-100°	17.7	2.9
100°-110°	9.8	1.6
110°-120°	5.4	0.9
120°-130°	3.1	0.5
130°-140°	1.7	0.3
140°-150°	0.8	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	143.3	23.2
0°-40°	234.9	38.1
0°-60°	420.8	68.2
0°-90°	578.3	93.7
90°-120°	32.9	5.3
90°-150°	38.5	6.2
90°-180°	39.0	6.3
0°-180°	617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	184	184	184	184	184	
5°	182	184	184	184	184	17
15°	175	177	178	179	179	49
25°	159	162	164	167	168	73
35°	139	142	147	150	152	87
45°	115	119	125	130	133	89
55°	88	93	101	107	110	79
65°	60	66	75	84	88	59
75°	30	38	50	61	65	32
85°	6	16	30	42	46	7
90°	0	10	23	33	37	0
95°	0	6	17	26	30	0
105°	0	2	9	16	19	0
115°	0	1	5	10	12	0
125°	0	1	3	6	7	0
135°	0	0	2	4	5	0
145°	0	0	1	2	3	0
155°	0	0	0	1	1	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°	184.3	184.3	184.3	184.3	184.3
2.5°	183.0	184.7	184.3	183.5	183.5
5°	182.2	183.9	183.7	183.5	183.9
7.5°	181.2	182.8	182.8	183.0	183.5
10°	179.5	181.6	181.6	181.6	181.8
12.5°	177.4	179.5	179.9	180.1	180.5
15°	174.7	177.0	177.8	178.7	179.3
17.5°	171.6	173.9	175.3	176.4	177.4
20°	167.8	170.3	172.2	173.5	174.5
22.5°	163.9	166.4	168.2	170.1	171.4
25°	159.3	162.2	164.5	166.8	168.0
27.5°	154.7	157.6	160.5	163.2	164.7
30°	149.5	152.8	156.1	159.3	160.7
32.5°	144.1	147.6	151.6	154.9	156.6
35°	138.8	142.4	146.8	150.5	152.4
37.5°	133.2	136.8	141.8	145.9	147.8
40°	127.2	131.1	136.6	140.9	143.0
42.5°	121.3	125.3	131.1	135.9	138.0
45°	115.1	119.2	125.3	130.5	132.8
47.5°	108.6	113.0	119.5	124.9	127.4
50°	102.2	106.7	113.4	119.2	121.7
52.5°	95.3	100.1	107.2	113.4	116.1
55°	88.4	93.4	100.7	107.4	110.3
57.5°	81.5	86.5	94.4	101.5	104.7
60°	74.4	79.6	87.8	95.5	99.0
62.5°	67.1	72.5	81.1	89.4	93.2
65°	60.0	65.5	74.8	83.6	87.6
67.5°	52.5	58.4	68.4	77.6	81.7
70°	44.8	51.5	62.1	71.9	76.1
72.5°	37.9	44.8	56.3	66.3	70.7
75°	30.2	37.9	50.5	60.9	65.3
77.5°	23.6	31.9	45.0	55.7	60.0
80°	16.9	26.1	39.8	50.7	55.0
82.5°	10.8	20.8	35.0	46.1	50.2
85°	5.6	16.3	30.4	41.7	45.9
87.5°	1.7	12.5	26.3	37.3	41.5
90°	0.0	9.6	22.7	33.4	37.3
92.5°	0.0	7.3	19.6	29.8	33.8
95°	0.0	5.6	16.7	26.3	30.0
97.5°	0.0	4.4	14.4	23.1	26.9
100°	0.0	3.5	12.3	20.4	24.0
102.5°	0.0	2.9	10.6	18.1	21.3
105°	0.0	2.1	8.8	15.8	18.8
107.5°	0.0	1.5	7.7	14.0	16.5
110°	0.0	1.3	6.9	12.1	14.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.0	6.0	10.8	12.9
115°	0.0	1.0	5.4	9.6	11.5
117.5°	0.0	0.8	4.6	8.5	10.2
120°	0.0	0.8	4.2	7.7	9.2
122.5°	0.0	0.6	3.8	6.9	8.3
125°	0.0	0.6	3.3	6.3	7.3
127.5°	0.0	0.4	2.9	5.6	6.7
130°	0.0	0.4	2.7	5.0	6.0
132.5°	0.0	0.2	2.5	4.6	5.4
135°	0.0	0.2	2.1	4.0	5.0
137.5°	0.0	0.0	1.9	3.5	4.4
140°	0.0	0.0	1.5	3.1	4.0
142.5°	0.2	0.0	1.3	2.7	3.3
145°	0.2	0.0	0.8	2.3	2.9
147.5°	0.2	0.2	0.6	1.9	2.3
150°	0.2	0.2	0.4	1.3	1.9
152.5°	0.2	0.2	0.2	0.8	1.3
155°	0.2	0.2	0.0	0.6	0.8
157.5°	0.2	0.2	0.0	0.2	0.4
160°	0.2	0.2	0.0	0.0	0.2
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	11.80	13.35	12.26	13.79	14.26	13.75	15.30	14.21	15.75	16.21
	3H	13.29	14.70	13.76	15.16	15.67	16.15	17.57	16.62	18.02	18.53
	4H	13.77	15.11	14.26	15.58	16.10	17.31	18.65	17.80	19.12	19.64
	6H	14.04	15.29	14.55	15.78	16.31	18.50	19.75	19.00	20.23	20.77
	8H	14.10	15.29	14.61	15.80	16.34	19.10	20.30	19.62	20.81	21.35
	12H	14.11	15.26	14.63	15.76	16.33	19.77	20.91	20.29	21.41	21.99
4H	2H	12.66	14.00	13.15	14.47	14.99	14.19	15.53	14.68	16.00	16.52
	3H	14.39	15.53	14.89	16.04	16.59	16.81	17.95	17.32	18.47	19.01
	4H	14.98	16.03	15.51	16.55	17.13	18.13	19.18	18.66	19.70	20.28
	6H	15.38	16.30	15.93	16.85	17.45	19.51	20.44	20.06	20.99	21.58
	8H	15.47	16.34	16.03	16.89	17.50	20.23	21.09	20.78	21.64	22.25
	12H	15.52	16.30	16.09	16.88	17.49	21.01	21.80	21.58	22.38	22.99
8H	4H	15.63	16.50	16.18	17.05	17.65	18.35	19.22	18.90	19.77	20.37
	6H	16.20	16.93	16.78	17.53	18.14	19.90	20.63	20.48	21.22	21.83
	8H	16.37	17.04	16.97	17.64	18.27	20.75	21.41	21.34	22.01	22.64
	12H	16.48	17.08	17.08	17.67	18.36	21.71	22.30	22.31	22.90	23.59
12H	4H	15.81	16.59	16.38	17.17	17.78	18.36	19.14	18.93	19.72	20.33
	6H	16.47	17.13	17.06	17.74	18.36	19.93	20.59	20.53	21.20	21.82
	8H	16.74	17.33	17.33	17.92	18.61	20.85	21.44	21.45	22.03	22.72

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

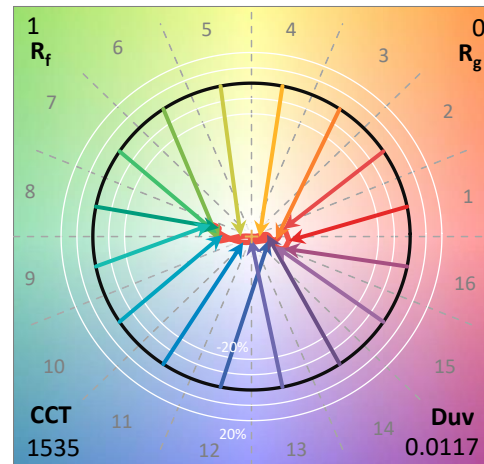
Data in this report applies to families of products including 4ASL

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

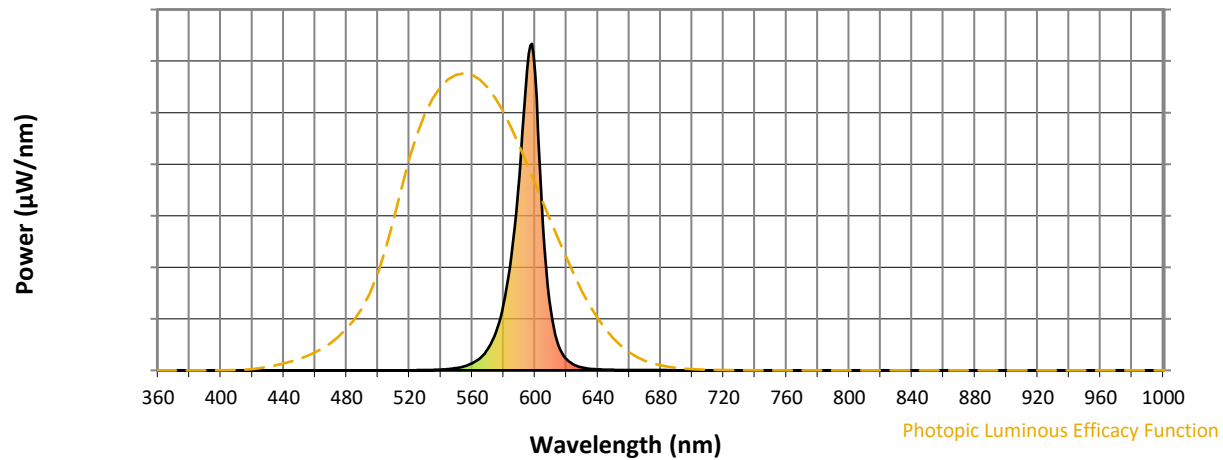
Stabilization Time: 77M
 Operation Time: 2H 17M
 Sphere Temperature (°C): 25.1

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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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Photopic Flux vs. Wavelength

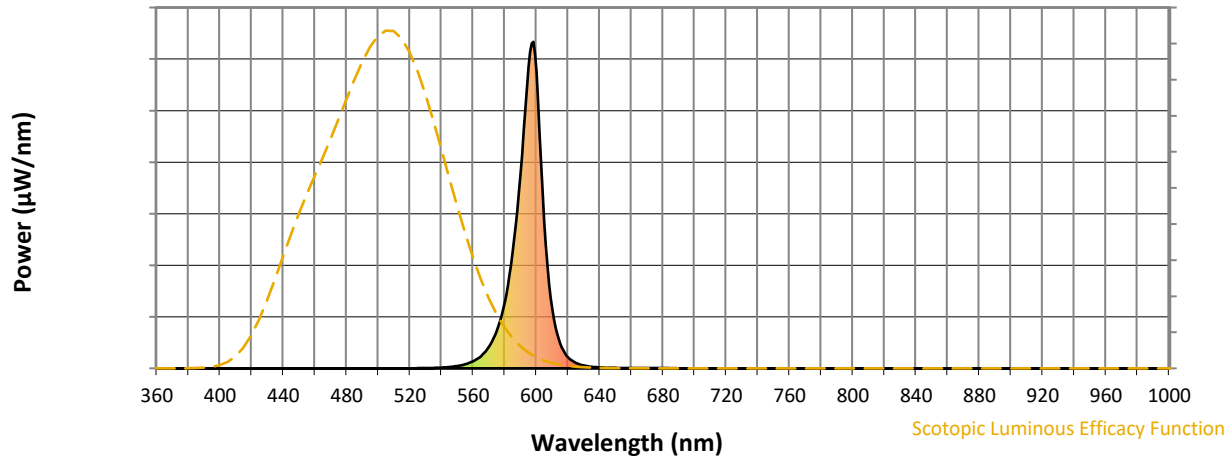


Photopic Lumens: NR

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

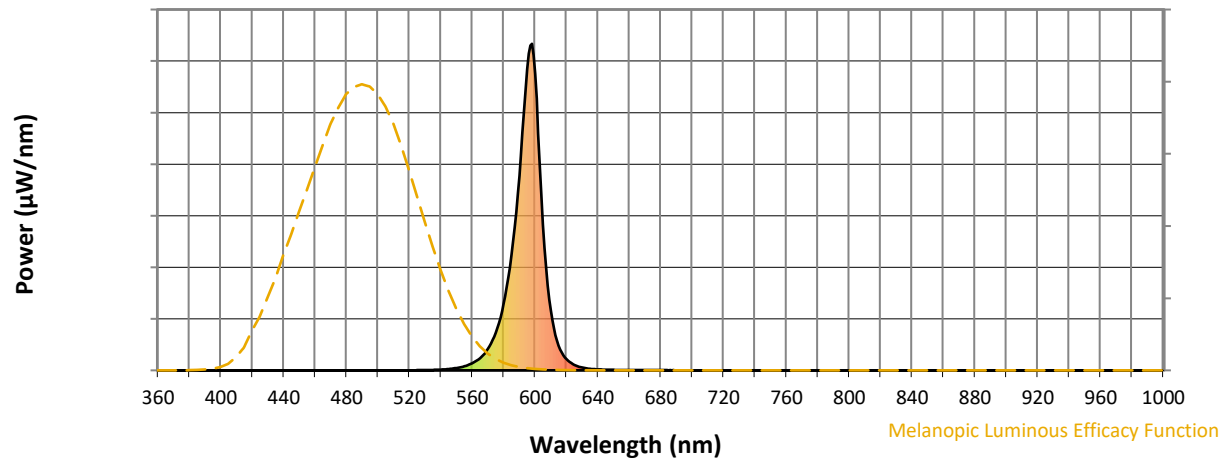


Scotopic Lumens: NR

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

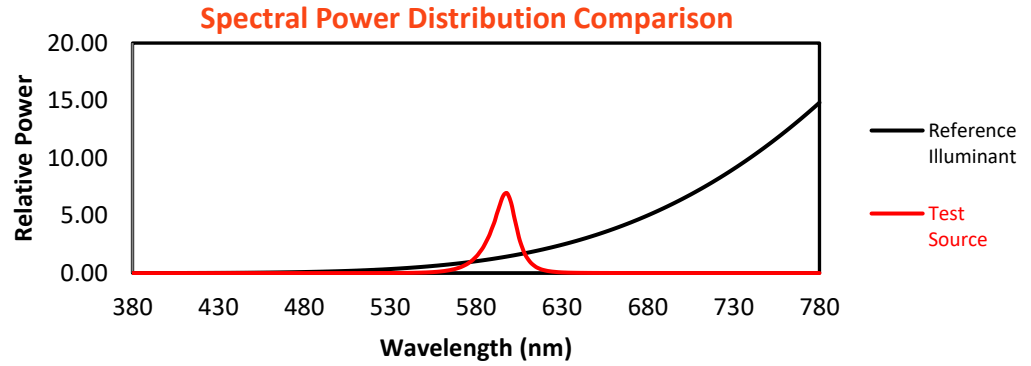
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	0	NR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

REPORT NUMBER: SP1-2511-597-9

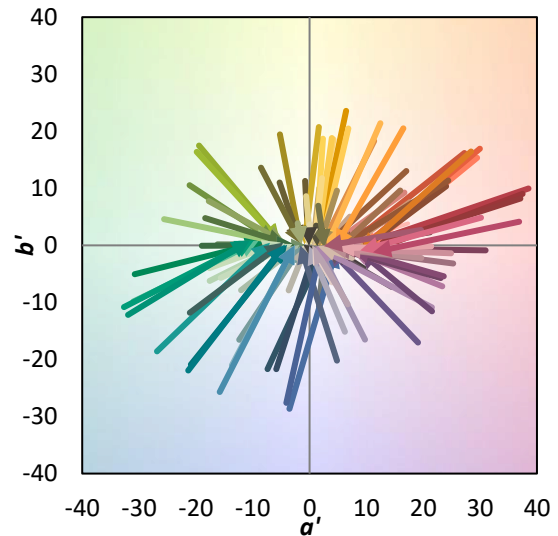
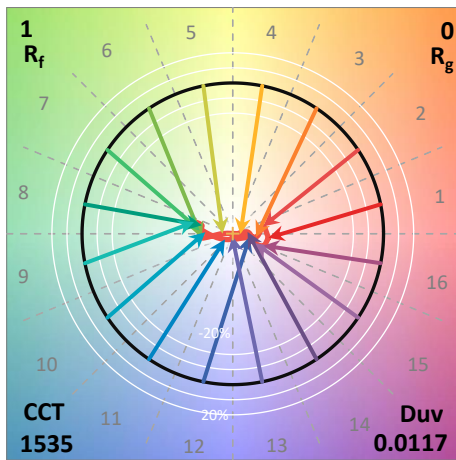
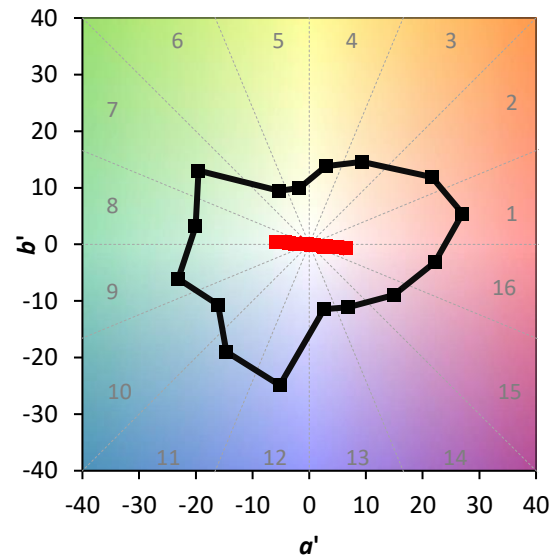
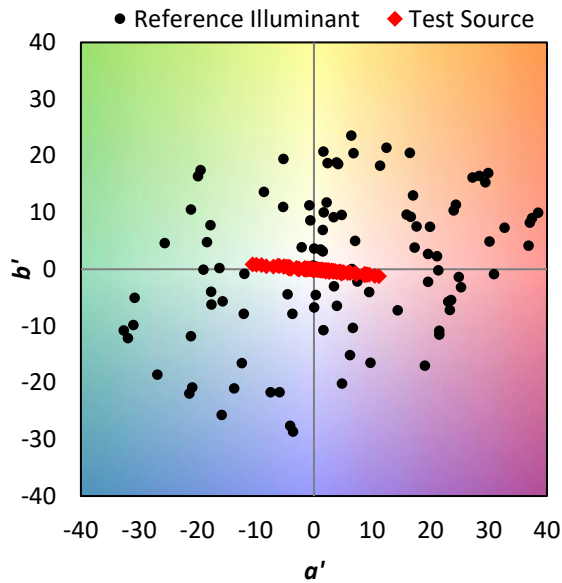
TM-30-18

Summary

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

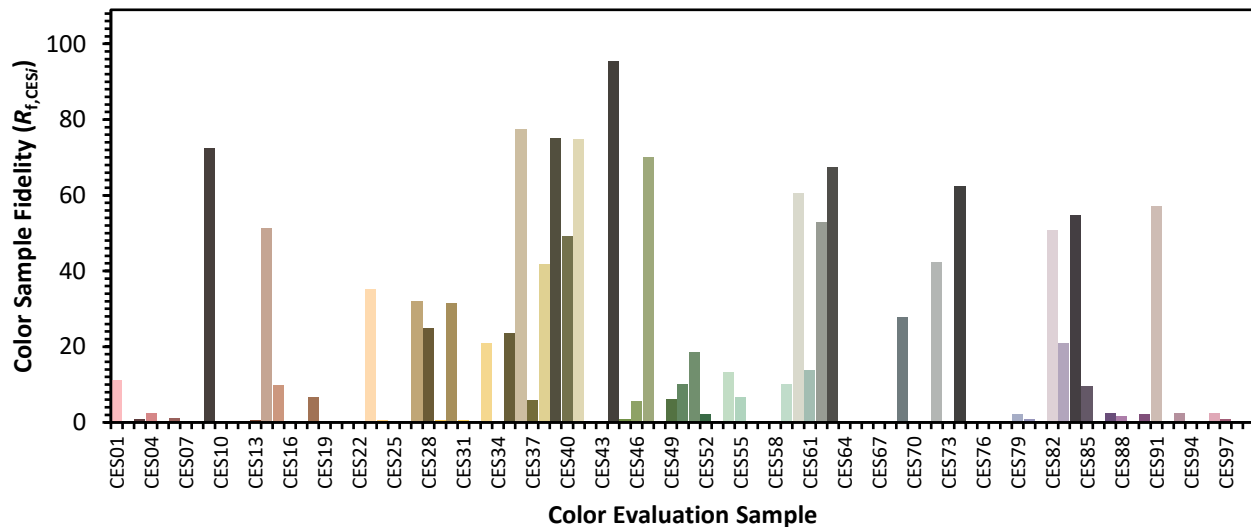


Color Vector Graphics

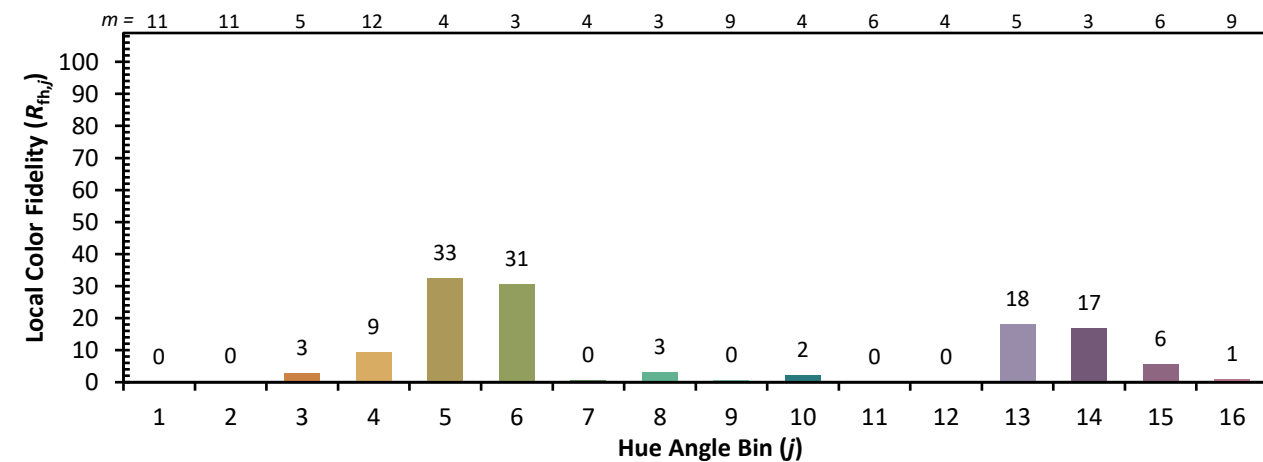
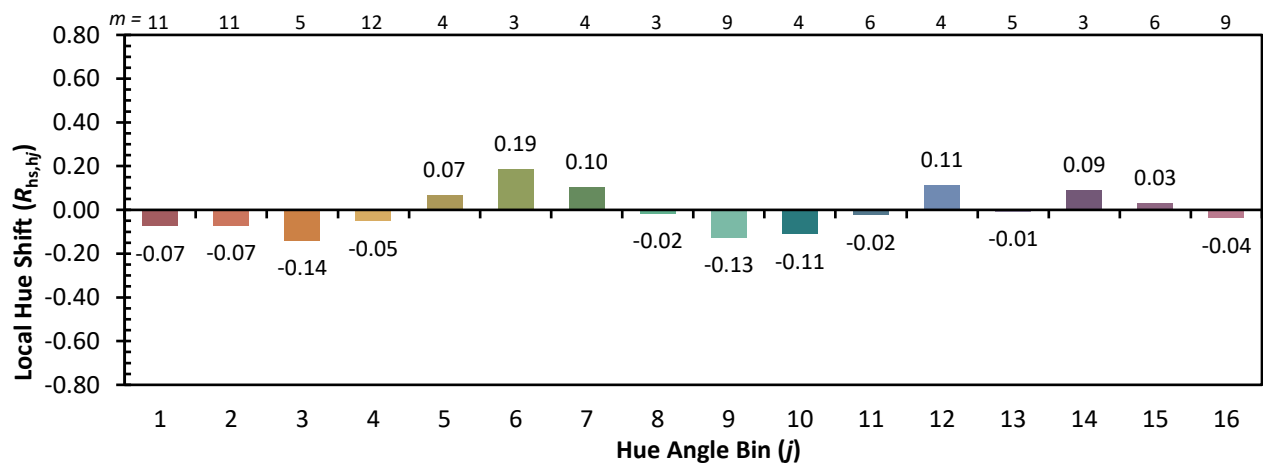
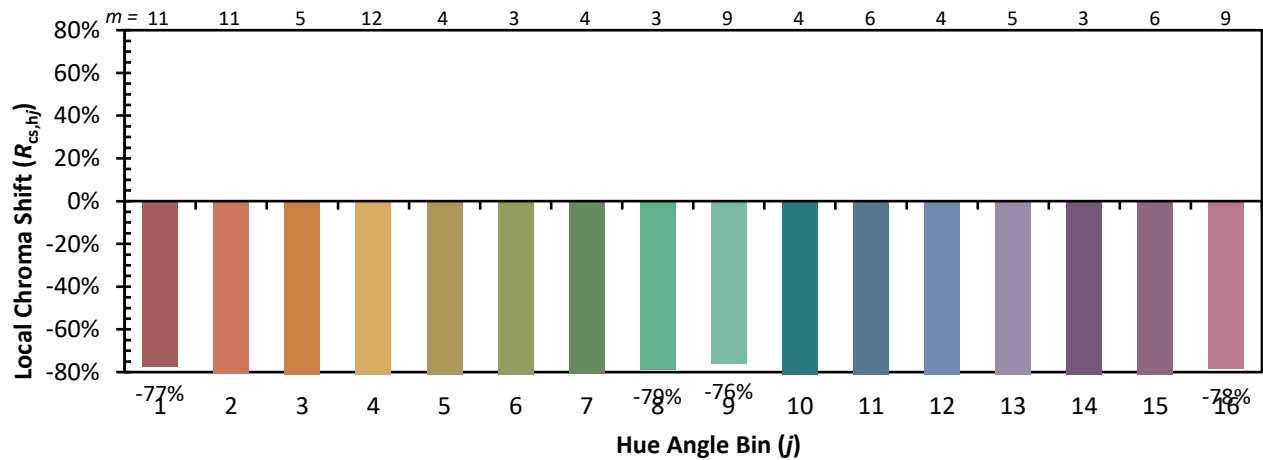


Individual Sample Fidelity Index ($R_{f,i}$)

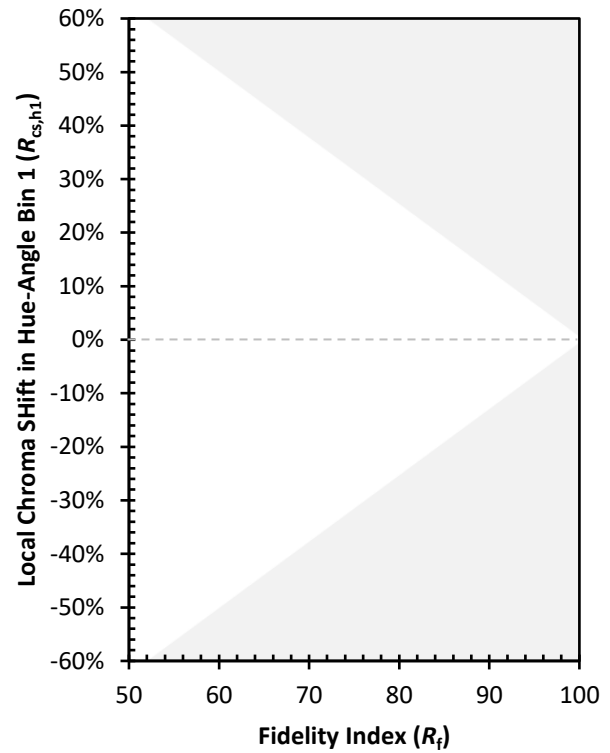
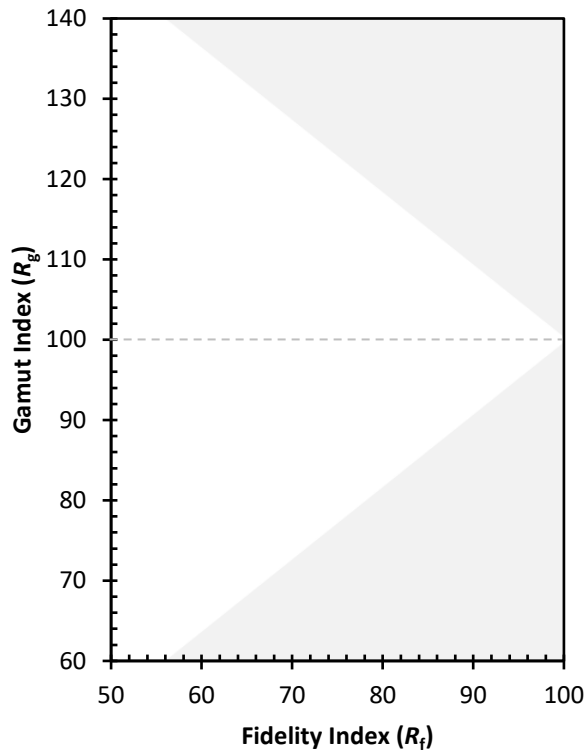
CES01 = 90	CES26 = 0	CES51 = 19	CES76 = 0
CES02 = 70	CES27 = 32	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 25	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 13	CES79 = 2
CES05 = 52	CES30 = 31	CES55 = 7	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 51
CES08 =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



Measure Comparisons



(END OF REPORT)