

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: P1357504

Luminaire Tested: 8ASL4-20VHE-3-A59-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 8ASL4-20VHE-3-A59-UNV
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 3 ROW
Light Source: -
Ballast/Driver: -

Summary

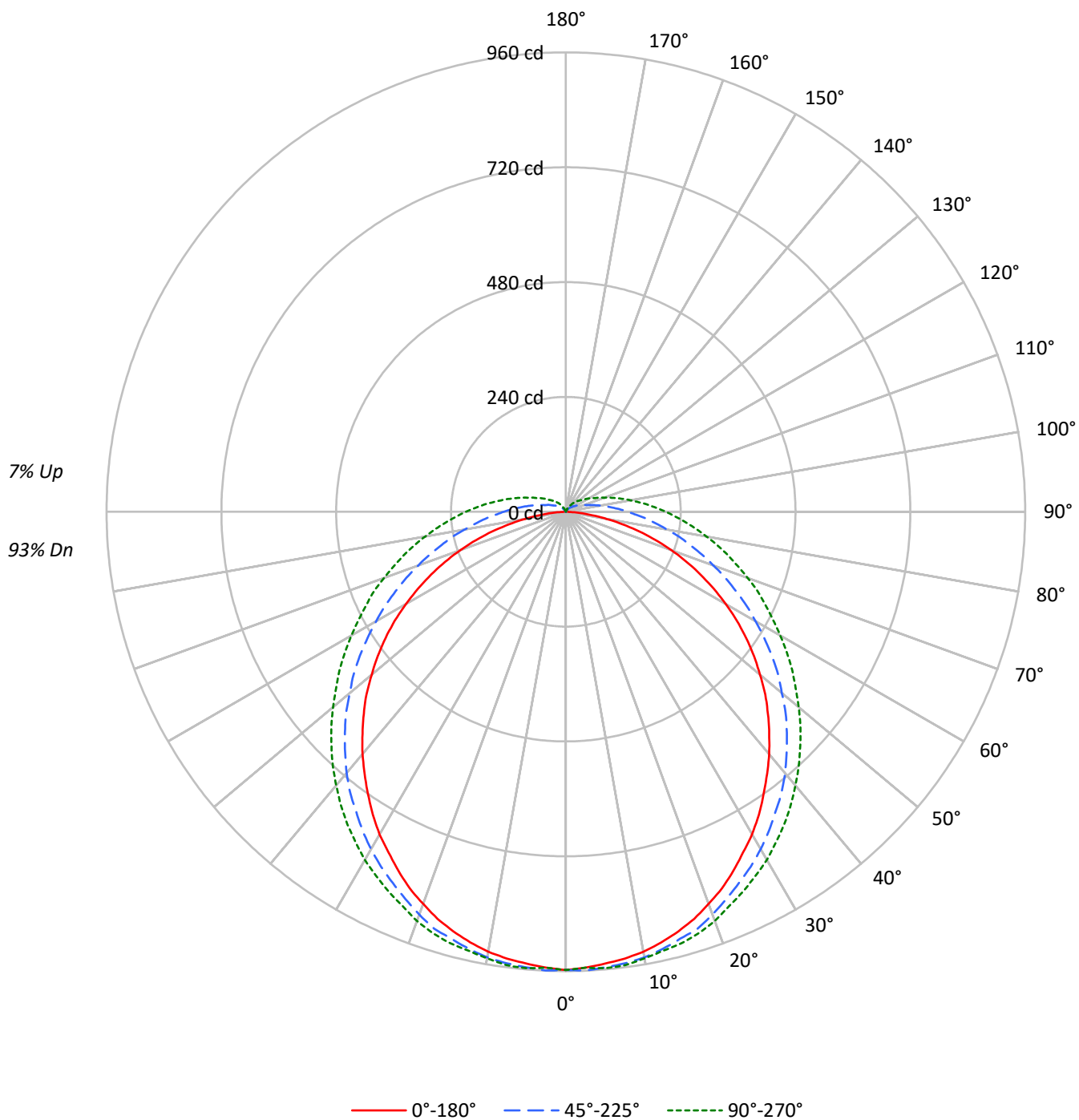
Lumens per Lamp: N/A
Luminaire Lumens: 3256.0 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 93
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

TEST NUMBER: P1357504

CATALOG NUMBER: 8ASL4-20VHE-3-A59-UNV

Luminous Intensity Polar Plot



TEST NUMBER: P1357504

CATALOG NUMBER: 8ASL4-20VHE-3-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	117	117	117	117	114	114	114	114	107	107	107		101	101	101		96
1	105	100	95	91	102	97	92	88	91	88	84		86	83	80		81
2	95	86	79	72	92	84	77	71	79	73	68		75	70	66		71
3	86	75	67	60	83	73	65	59	69	62	57		65	60	55		62
4	79	66	57	50	76	65	56	49	61	54	48		58	52	47		55
5	73	59	50	43	70	58	49	42	55	47	41		52	45	40		49
6	67	53	44	37	64	52	43	37	49	42	36		47	40	35		45
7	62	48	39	33	60	47	38	32	45	37	32		43	36	31		41
8	58	44	35	29	56	43	35	29	41	34	28		39	32	28		37
9	54	40	32	26	52	39	31	26	38	30	25		36	30	25		35
10	50	37	29	24	49	36	29	23	35	28	23		33	27	23		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3875	3875	3875
5°	3846	3805	3787
10°	3828	3735	3691
15°	3791	3646	3610
20°	3738	3560	3519
25°	3676	3452	3414
30°	3611	3359	3326
35°	3528	3253	3228
40°	3454	3156	3125
45°	3375	3038	3021
50°	3283	2912	2914
55°	3186	2791	2817
60°	3057	2650	2718
65°	2893	2514	2637
70°	2683	2381	2573
75°	2375	2261	2529
80°	1901	2173	2510
85°	1208	2164	2548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3375 cd/sqm

TEST NUMBER: P1357504

CATALOG NUMBER: 8ASL4-20VHE-3-A59-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	2.8
10°-20°	260.7	8.0
20°-30°	394.2	12.1
30°-40°	477.3	14.7
40°-50°	501.3	15.4
50°-60°	467.7	14.4
60°-70°	386.5	11.9
70°-80°	278.3	8.5
80°-90°	173.0	5.3
90°-100°	101.3	3.1
100°-110°	58.0	1.8
110°-120°	32.7	1.0
120°-130°	18.8	0.6
130°-140°	10.1	0.3
140°-150°	4.3	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	745.7	22.9
0°-40°	1223.1	37.6
0°-60°	2192.1	67.3
0°-90°	3029.9	93.1
90°-120°	192.1	5.9
90°-150°	225.3	6.9
90°-180°	226.0	6.9
0°-180°	3256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	948	956	956	956	958	90
15°	908	920	924	930	934	256
25°	828	842	856	868	876	381
35°	721	741	764	786	796	451
45°	597	619	653	681	693	461
55°	460	486	526	563	577	411
65°	311	340	392	442	460	307
75°	159	199	269	326	350	168
85°	30	90	169	229	251	37
90°	0	54	129	185	209	1
95°	0	34	98	149	171	0
105°	0	12	54	94	110	0
115°	0	6	32	58	68	0
125°	0	4	20	38	44	0
135°	0	0	12	24	30	0
145°	0	0	6	14	16	0
155°	0	0	0	4	6	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1357504

CATALOG NUMBER: 8ASL4-20VHE-3-A59-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.6	957.6	957.6	957.6	957.6
2.5°	953.7	959.6	959.6	953.7	953.7
5°	947.7	955.6	955.6	955.6	957.6
7.5°	941.7	951.7	951.7	951.7	955.6
10°	933.7	943.7	945.7	945.7	947.7
12.5°	921.8	933.7	935.7	937.7	939.7
15°	907.9	919.8	923.8	929.8	933.7
17.5°	891.9	905.9	913.8	919.8	923.8
20°	872.0	886.0	895.9	903.9	909.9
22.5°	852.1	864.1	876.0	886.0	891.9
25°	828.2	842.2	856.1	868.0	876.0
27.5°	802.3	818.3	836.2	850.1	858.1
30°	778.5	794.4	814.3	832.2	840.2
32.5°	750.6	768.5	790.4	808.3	818.3
35°	720.7	740.6	764.5	786.4	796.4
37.5°	690.8	710.8	740.6	762.5	772.5
40°	661.0	680.9	712.7	736.6	746.6
42.5°	629.1	649.0	682.9	708.8	720.7
45°	597.3	619.2	653.0	680.9	692.8
47.5°	565.4	587.3	623.2	653.0	665.0
50°	529.6	553.5	589.3	623.2	635.1
52.5°	495.7	519.6	559.4	593.3	605.2
55°	459.9	485.8	525.6	563.4	577.4
57.5°	424.1	449.9	491.8	531.6	547.5
60°	386.2	414.1	457.9	499.7	517.6
62.5°	348.4	378.3	426.1	469.9	487.8
65°	310.6	340.4	392.2	442.0	459.9
67.5°	272.8	304.6	360.4	412.1	434.0
70°	234.9	268.8	328.5	382.3	404.2
72.5°	197.1	232.9	298.6	354.4	376.3
75°	159.3	199.1	268.8	326.5	350.4
77.5°	121.4	167.2	242.9	300.6	324.5
80°	87.6	139.4	215.0	274.7	298.6
82.5°	55.7	111.5	191.1	250.9	274.7
85°	29.9	89.6	169.2	229.0	250.9
87.5°	10.0	69.7	147.3	207.1	229.0
90°	0.0	53.8	129.4	185.2	209.0
92.5°	0.0	41.8	113.5	167.2	189.1
95°	0.0	33.8	97.6	149.3	171.2
97.5°	0.0	27.9	85.6	133.4	153.3
100°	0.0	21.9	73.7	119.5	137.4
102.5°	0.0	17.9	63.7	105.5	123.4
105°	0.0	11.9	53.8	93.6	109.5
107.5°	0.0	10.0	45.8	83.6	97.6
110°	0.0	8.0	41.8	71.7	85.6



TEST NUMBER: P1357504

CATALOG NUMBER: 8ASL4-20VHE-3-A59-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	6.0	37.8	63.7	77.6
115°	0.0	6.0	31.9	57.7	67.7
117.5°	0.0	6.0	27.9	51.8	61.7
120°	0.0	4.0	25.9	45.8	55.7
122.5°	0.0	4.0	21.9	41.8	49.8
125°	0.0	4.0	19.9	37.8	43.8
127.5°	0.0	2.0	17.9	33.8	39.8
130°	0.0	2.0	15.9	29.9	35.8
132.5°	0.0	2.0	13.9	27.9	33.8
135°	0.0	0.0	11.9	23.9	29.9
137.5°	0.0	0.0	10.0	21.9	25.9
140°	0.0	0.0	8.0	17.9	23.9
142.5°	0.0	0.0	6.0	15.9	19.9
145°	0.0	0.0	6.0	13.9	15.9
147.5°	0.0	0.0	4.0	10.0	13.9
150°	0.0	0.0	2.0	8.0	10.0
152.5°	0.0	0.0	0.0	6.0	8.0
155°	0.0	0.0	0.0	4.0	6.0
157.5°	0.0	0.0	0.0	0.0	2.0
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

TEST NUMBER: P1357504

CATALOG NUMBER: 8ASL4-20VHE-3-A59-UNV

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	14.05	15.59	14.52	16.05	16.53	16.12	17.66	16.59	18.12	18.60
	3H	15.55	16.95	16.03	17.42	17.94	18.61	20.01	19.09	20.48	21.00
	4H	16.03	17.36	16.53	17.84	18.38	19.82	21.15	20.32	21.63	22.17
	6H	16.31	17.55	16.82	18.04	18.60	21.10	22.34	21.61	22.84	23.39
	8H	16.36	17.55	16.88	18.07	18.62	21.77	22.96	22.30	23.48	24.04
	12H	16.37	17.51	16.90	18.02	18.61	22.52	23.66	23.05	24.17	24.76
4H	2H	14.94	16.27	15.44	16.75	17.29	16.56	17.89	17.06	18.37	18.91
	3H	16.67	17.81	17.19	18.33	18.89	19.26	20.40	19.78	20.92	21.48
	4H	17.28	18.32	17.81	18.85	19.45	20.65	21.69	21.18	22.22	22.82
	6H	17.68	18.59	18.23	19.15	19.76	22.12	23.04	22.67	23.60	24.21
	8H	17.77	18.63	18.33	19.19	19.81	22.89	23.76	23.45	24.32	24.94
	12H	17.81	18.60	18.40	19.19	19.81	23.77	24.55	24.35	25.14	25.76
8H	4H	17.97	18.83	18.53	19.39	20.01	20.86	21.73	21.42	22.29	22.91
	6H	18.55	19.28	19.14	19.88	20.51	22.50	23.23	23.10	23.84	24.46
	8H	18.73	19.39	19.33	20.00	20.64	23.42	24.08	24.02	24.69	25.33
	12H	18.85	19.43	19.45	20.04	20.74	24.48	25.07	25.08	25.67	26.37
12H	4H	18.17	18.95	18.75	19.54	20.17	20.87	21.65	21.45	22.24	22.87
	6H	18.85	19.51	19.45	20.12	20.76	22.54	23.20	23.14	23.82	24.45
	8H	19.13	19.72	19.73	20.32	21.03	23.52	24.11	24.13	24.72	25.42

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

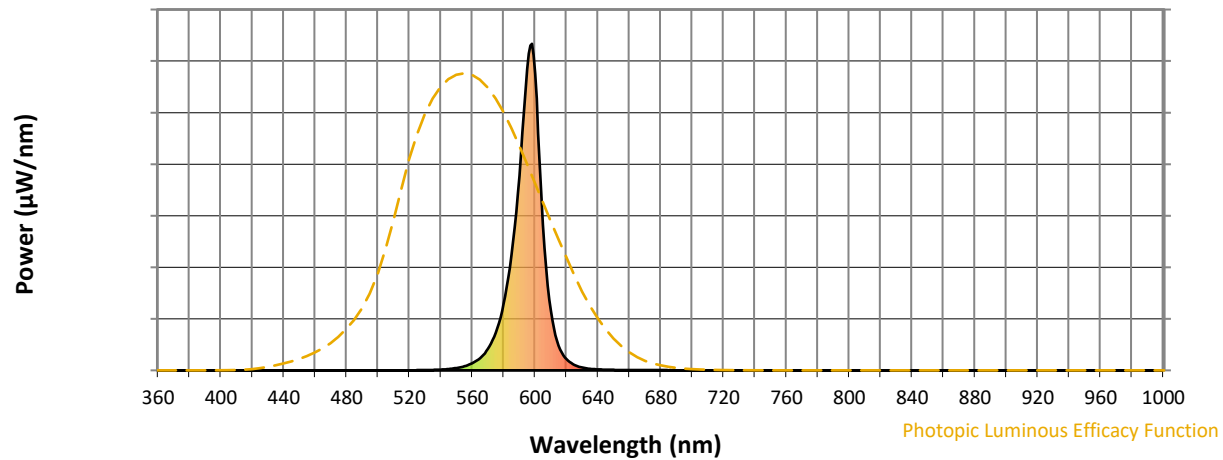
Stabilization Time: 77M
 Operation Time: 2H 17M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2511-597-9

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: SP1-2511-597-9

Photopic Flux vs. Wavelength

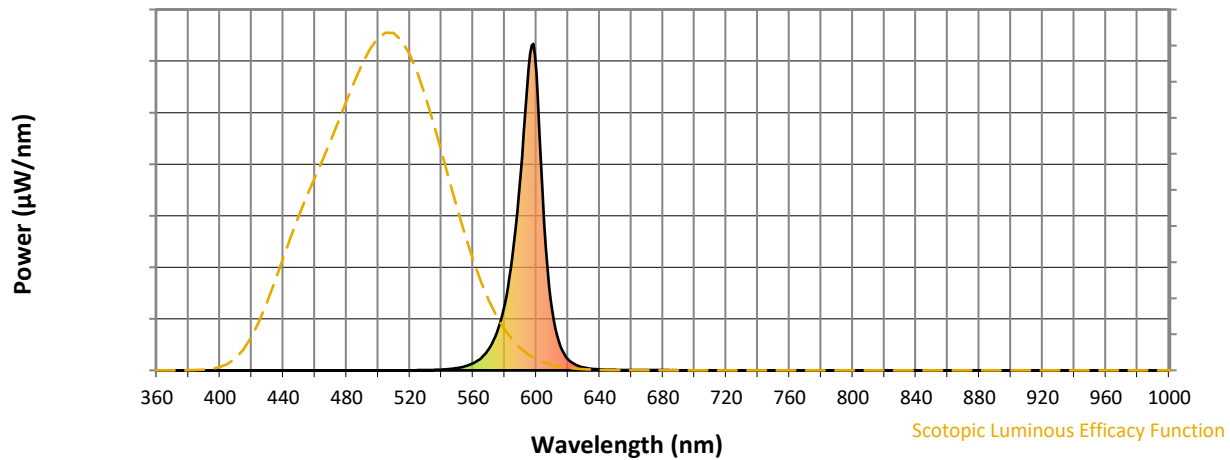


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2511-597-9

Scotopic Flux vs. Wavelength



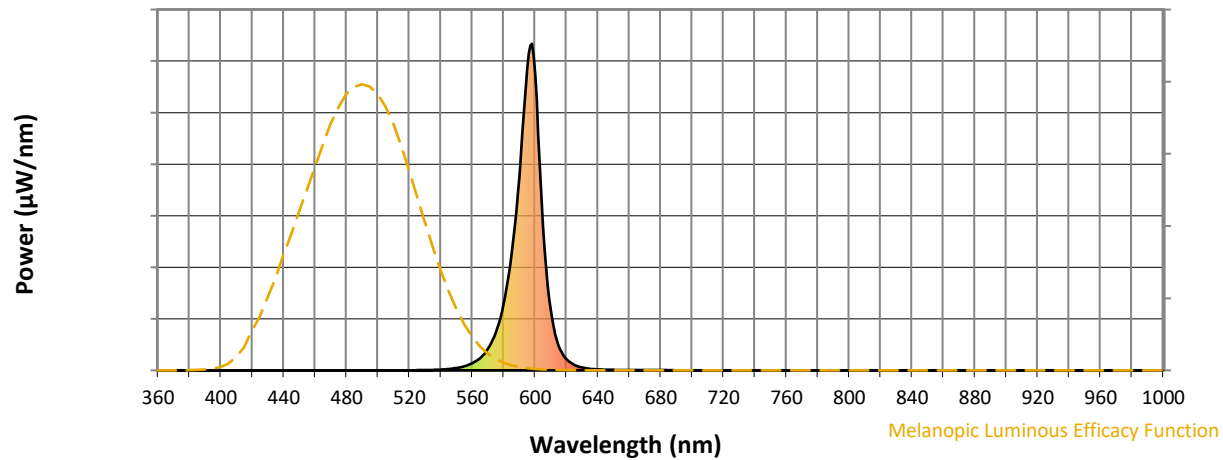
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2511-597-9

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

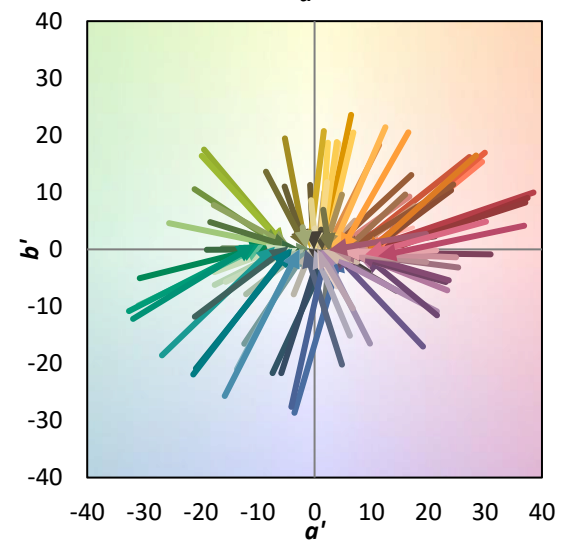
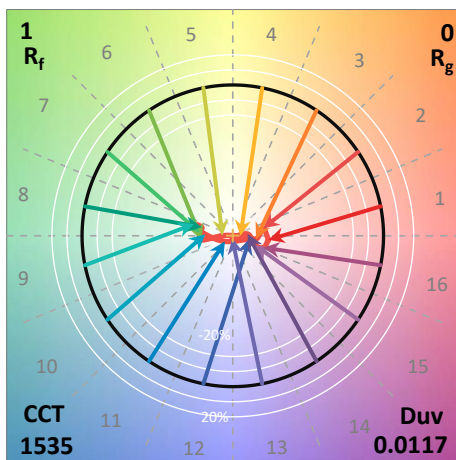
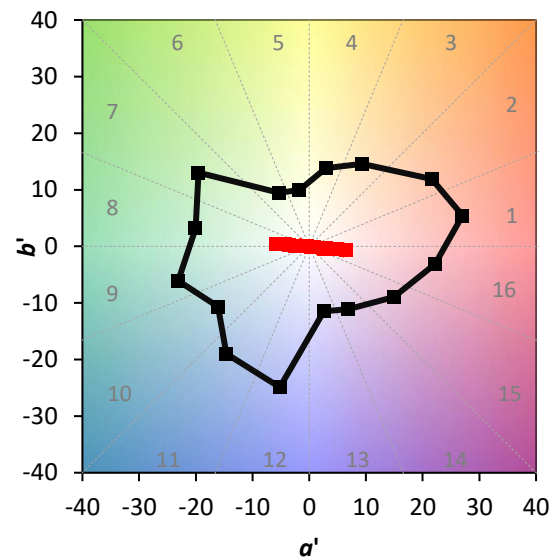
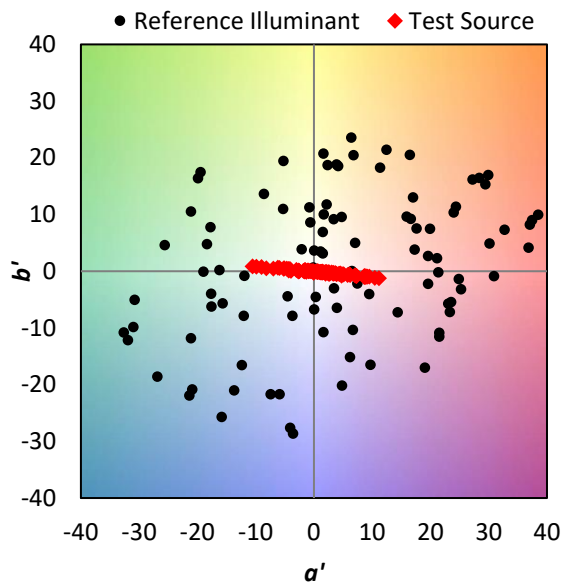
TM-30-18

Summary

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

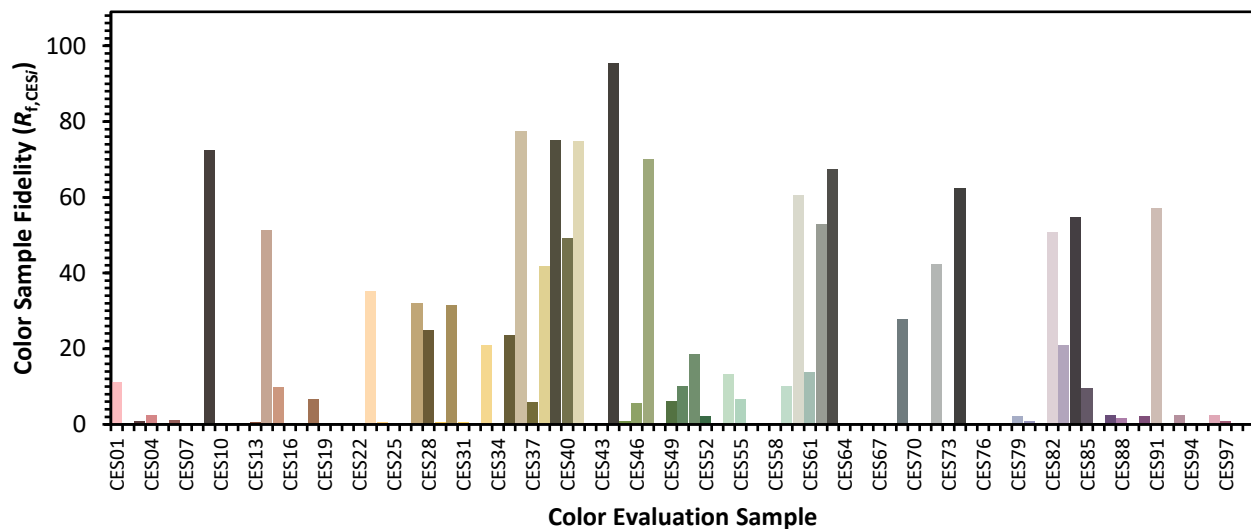


Color Vector Graphics

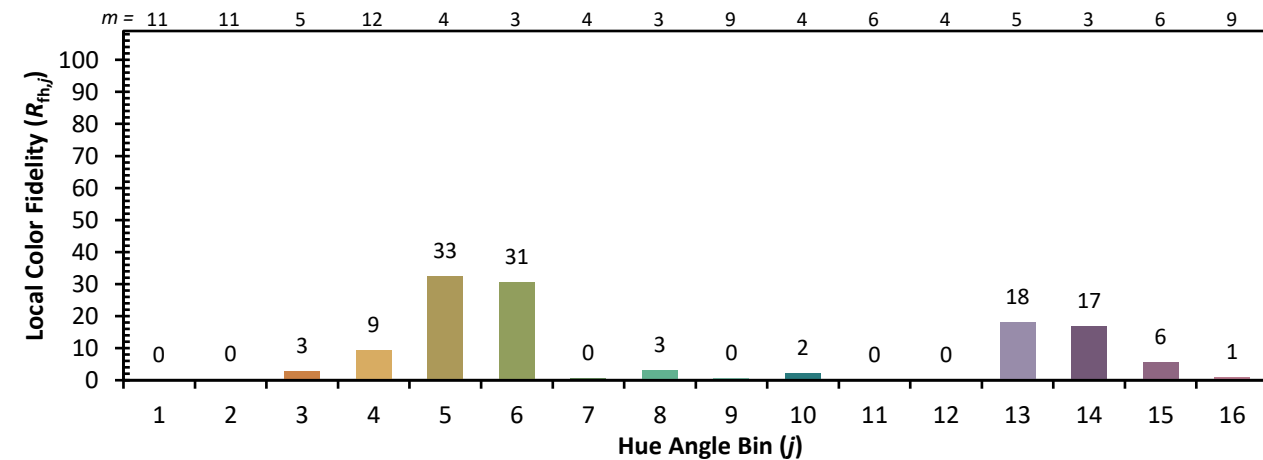
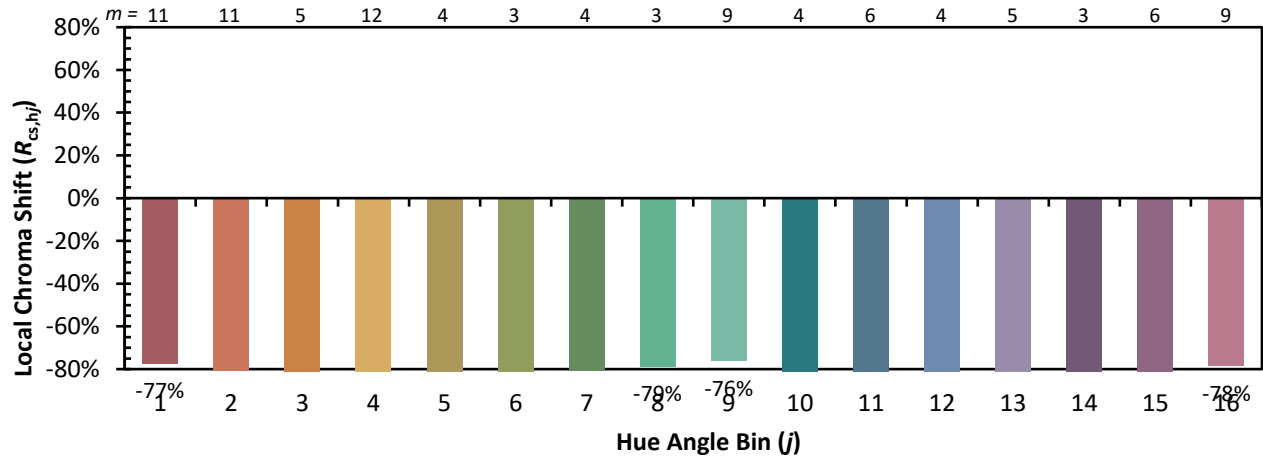


Individual Sample Fidelity Index (R_{fi})

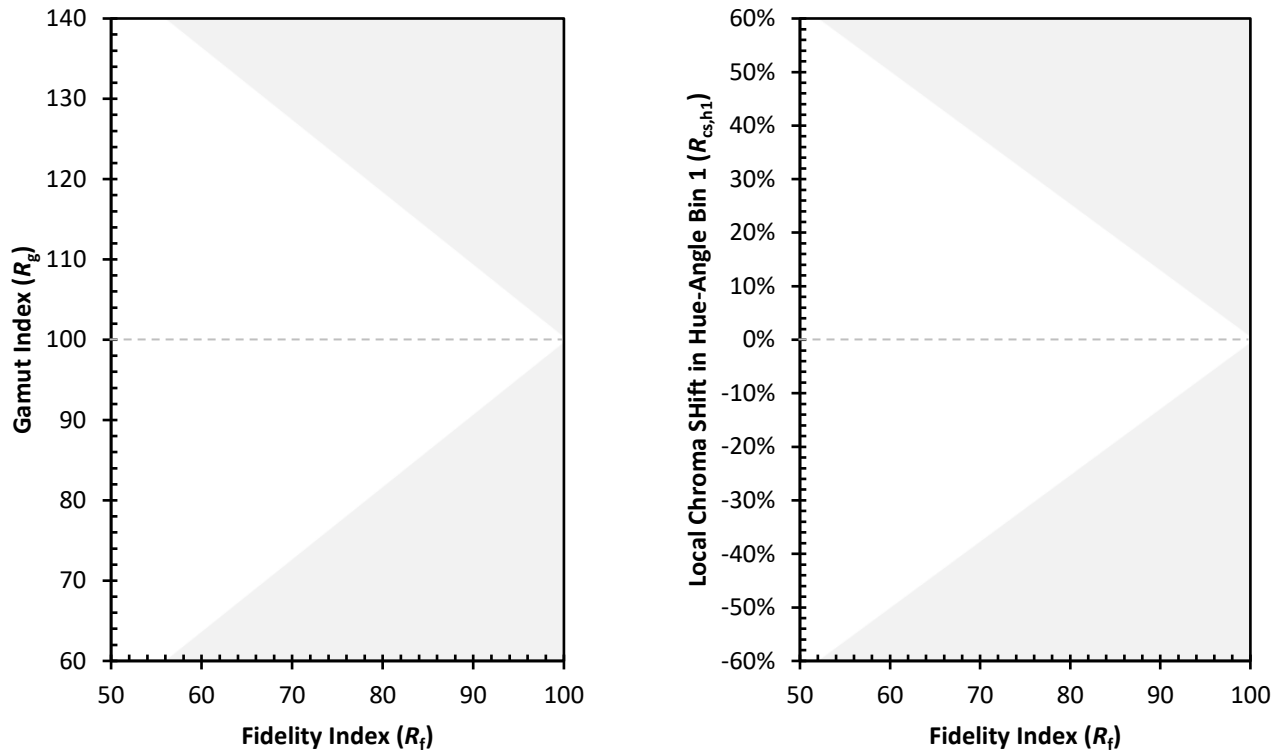
CES01 = 90	CES26 = 0	CES51 = 19	CES76 = 0
CES02 = 70	CES27 = 32	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 25	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 13	CES79 = 2
CES05 = 52	CES30 = 31	CES55 = 7	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 51
CES08 =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