

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: P1357380

Luminaire Tested: 6ASL4-5-1-65-UNV

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357380  
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: 6ASL4-5-1-65-UNV  
Description: 6FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

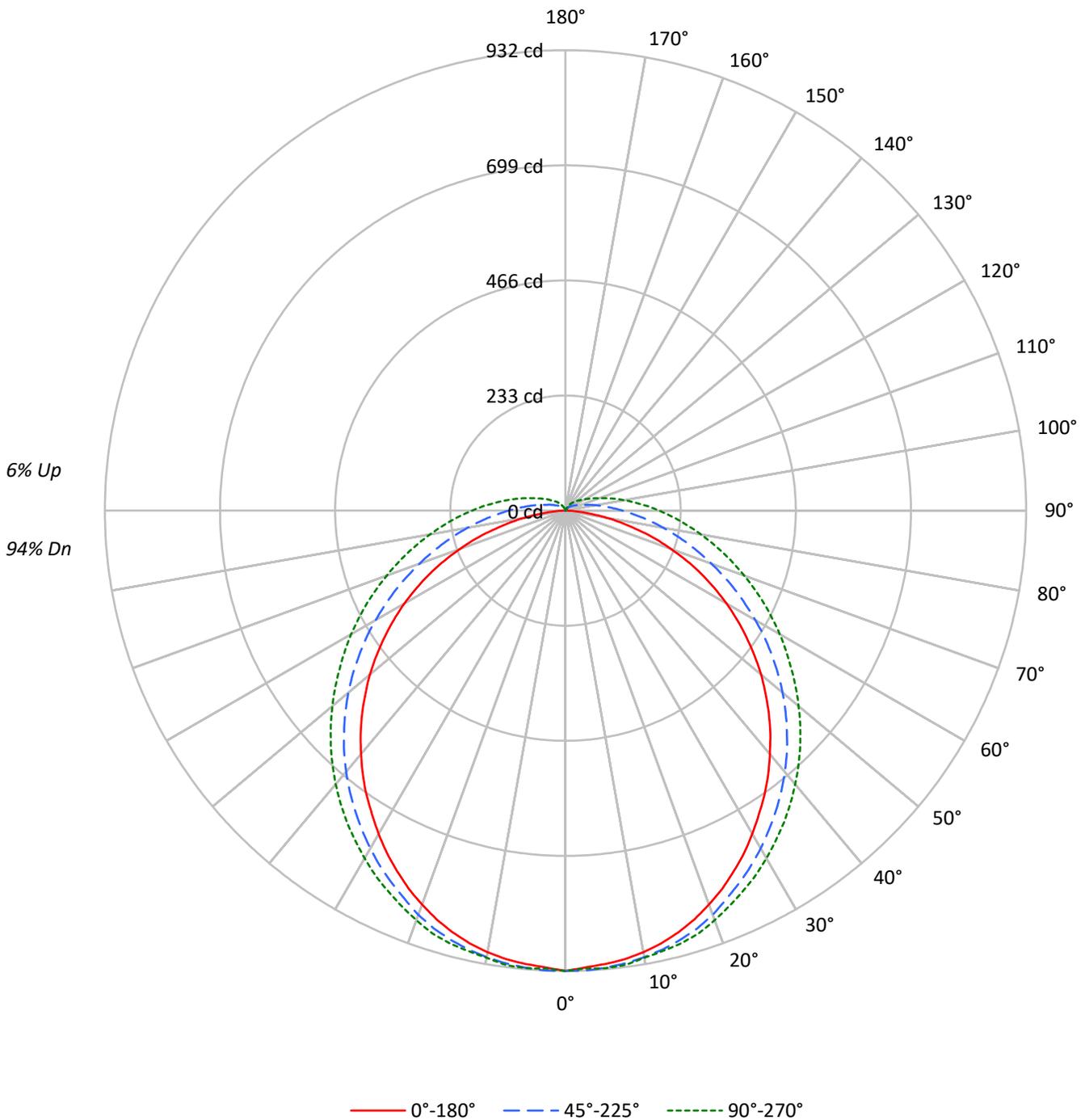
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3120.1 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 25.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P1357380  
CATALOG NUMBER: 6ASL4-5-1-65-UNV

### 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	50	30	10	0
RCR																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	82	80	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	71	67	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	62	58	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	56	50	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	50	44	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	38	32	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	32	27	22	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5033	5033	5033
5°	4988	4935	4907
10°	4963	4837	4778
15°	4916	4732	4677
20°	4846	4613	4554
25°	4761	4470	4419
30°	4667	4340	4294
35°	4573	4206	4169
40°	4469	4071	4039
45°	4368	3924	3908
50°	4252	3770	3769
55°	4107	3596	3631
60°	3947	3414	3509
65°	3740	3224	3388
70°	3416	3023	3269
75°	2996	2846	3179
80°	2417	2696	3122
85°	1473	2601	3143

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4368 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	2.8
10°-20°	253.3	8.1
20°-30°	383.0	12.3
30°-40°	463.0	14.8
40°-50°	486.8	15.6
50°-60°	453.5	14.5
60°-70°	372.6	11.9
70°-80°	264.5	8.5
80°-90°	159.4	5.1
90°-100°	89.3	2.9
100°-110°	49.5	1.6
110°-120°	27.6	0.9
120°-130°	15.9	0.5
130°-140°	8.7	0.3
140°-150°	3.9	0.1
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	724.6	23.2
0°-40°	1187.6	38.1
0°-60°	2127.9	68.2
0°-90°	2924.3	93.7
90°-120°	166.4	5.3
90°-150°	194.8	6.2
90°-180°	196.0	6.3
0°-180°	3120.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	921	930	929	928	930	88
15°	883	895	899	904	907	249
25°	805	820	832	843	850	371
35°	702	720	742	761	771	439
45°	582	603	634	660	672	449
55°	447	472	509	543	558	400
65°	304	331	378	423	443	299
75°	153	192	255	308	330	163
85°	28	82	154	211	232	35
90°	0	48	115	169	189	1
95°	0	28	84	133	152	0
105°	0	10	44	80	95	0
115°	0	5	27	48	58	0
125°	0	3	17	32	37	0
135°	0	1	10	20	25	0
145°	1	0	4	12	15	1
155°	1	1	0	3	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357380  
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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	931.9	931.9	931.9	931.9	931.9
2.5°	925.6	934.0	931.9	927.7	927.7
5°	921.4	929.8	928.8	927.7	929.8
7.5°	916.1	924.5	924.5	925.6	927.7
10°	907.7	918.2	918.2	918.2	919.3
12.5°	897.1	907.7	909.8	910.8	912.9
15°	883.4	895.0	899.2	903.5	906.6
17.5°	867.6	879.2	886.6	891.9	897.1
20°	848.6	861.3	870.8	877.1	882.4
22.5°	828.6	841.3	850.7	860.2	866.6
25°	805.4	820.2	831.8	843.4	849.7
27.5°	782.2	797.0	811.7	825.4	832.8
30°	755.9	772.7	789.6	805.4	812.8
32.5°	728.5	746.4	766.4	783.3	791.7
35°	702.1	720.0	742.2	761.1	770.6
37.5°	673.6	691.6	716.9	737.9	747.4
40°	643.1	663.1	690.5	712.6	723.2
42.5°	613.5	633.6	663.1	687.3	697.9
45°	581.9	603.0	633.6	659.9	671.5
47.5°	549.2	571.4	604.1	631.5	644.1
50°	516.6	539.8	573.5	603.0	615.7
52.5°	481.8	506.0	541.9	573.5	587.2
55°	447.0	472.3	509.2	542.9	557.7
57.5°	412.2	437.5	477.6	513.4	529.2
60°	376.4	402.7	443.8	482.8	500.7
62.5°	339.5	366.9	410.1	452.3	471.2
65°	303.6	331.0	378.5	422.7	442.8
67.5°	265.7	295.2	345.8	392.2	413.2
70°	226.7	260.4	314.2	363.7	384.8
72.5°	191.9	226.7	284.6	335.2	357.4
75°	152.9	191.9	255.1	307.8	330.0
77.5°	119.1	161.3	227.7	281.5	303.6
80°	85.4	131.8	201.4	256.2	278.3
82.5°	54.8	105.4	177.1	233.0	254.1
85°	28.5	82.2	153.9	210.8	231.9
87.5°	8.4	63.3	132.8	188.7	209.8
90°	0.0	48.5	114.9	168.7	188.7
92.5°	0.0	36.9	99.1	150.8	170.8
95°	0.0	28.5	84.3	132.8	151.8
97.5°	0.0	22.1	72.7	117.0	136.0
100°	0.0	17.9	62.2	103.3	121.2
102.5°	0.0	14.8	53.8	91.7	107.5
105°	0.0	10.5	44.3	80.1	94.9
107.5°	0.0	7.4	39.0	70.6	83.3
110°	0.0	6.3	34.8	61.1	73.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	5.3	30.6	54.8	65.4
115°	0.0	5.3	27.4	48.5	58.0
117.5°	0.0	4.2	23.2	43.2	51.7
120°	0.0	4.2	21.1	39.0	46.4
122.5°	0.0	3.2	19.0	34.8	42.2
125°	0.0	3.2	16.9	31.6	36.9
127.5°	0.0	2.1	14.8	28.5	33.7
130°	0.0	2.1	13.7	25.3	30.6
132.5°	0.0	1.1	12.7	23.2	27.4
135°	0.0	1.1	10.5	20.0	25.3
137.5°	0.0	0.0	9.5	17.9	22.1
140°	0.0	0.0	7.4	15.8	20.0
142.5°	1.1	0.0	6.3	13.7	16.9
145°	1.1	0.0	4.2	11.6	14.8
147.5°	1.1	1.1	3.2	9.5	11.6
150°	1.1	1.1	2.1	6.3	9.5
152.5°	1.1	1.1	1.1	4.2	6.3
155°	1.1	1.1	0.0	3.2	4.2
157.5°	1.1	1.1	0.0	1.1	2.1
160°	1.1	1.1	0.0	0.0	1.1
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	15.03	16.58	15.49	17.02	17.49	17.04	18.59	17.50	19.03	19.50
	3H	16.52	17.94	16.99	18.39	18.90	19.46	20.88	19.93	21.33	21.84
	4H	17.00	18.34	17.49	18.81	19.33	20.64	21.98	21.13	22.45	22.97
	6H	17.27	18.52	17.78	19.01	19.54	21.86	23.11	22.37	23.60	24.14
	8H	17.33	18.52	17.84	19.03	19.57	22.50	23.70	23.02	24.20	24.75
	12H	17.34	18.49	17.86	18.99	19.56	23.21	24.35	23.73	24.85	25.43
4H	2H	15.90	17.24	16.39	17.71	18.23	17.47	18.81	17.97	19.28	19.81
	3H	17.63	18.77	18.13	19.28	19.83	20.12	21.26	20.62	21.77	22.32
	4H	18.23	19.27	18.75	19.80	20.37	21.46	22.51	21.99	23.03	23.61
	6H	18.62	19.54	19.17	20.10	20.69	22.88	23.80	23.42	24.35	24.94
	8H	18.72	19.58	19.27	20.13	20.74	23.62	24.48	24.17	25.03	25.64
	12H	18.76	19.55	19.33	20.13	20.74	24.45	25.23	25.02	25.81	26.42
8H	4H	18.88	19.75	19.44	20.30	20.91	21.67	22.54	22.23	23.09	23.70
	6H	19.45	20.19	20.04	20.78	21.39	23.25	23.99	23.84	24.58	25.19
	8H	19.63	20.29	20.23	20.90	21.52	24.13	24.79	24.73	25.40	26.02
	12H	19.74	20.33	20.34	20.92	21.61	25.14	25.74	25.74	26.33	27.02
12H	4H	19.07	19.85	19.64	20.43	21.04	21.68	22.47	22.26	23.05	23.66
	6H	19.73	20.39	20.33	21.00	21.62	23.29	23.95	23.88	24.56	25.18
	8H	20.00	20.59	20.60	21.18	21.88	24.23	24.83	24.83	25.42	26.11

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-6

Test Date: 11/18/2025

Luminaire Tested: 4ASL-2-65-UNV-OPL-1\_600mA

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

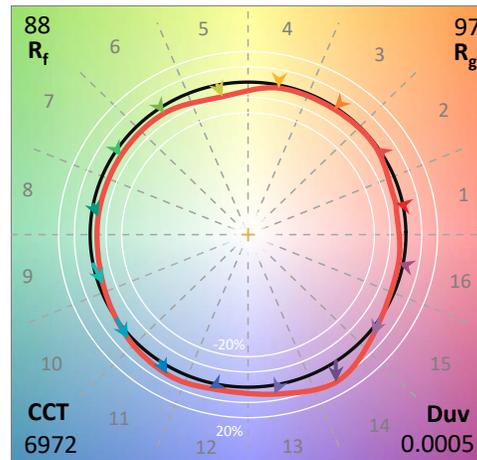
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2511-597-6  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 11/18/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Fail-Safe  
 Catalog Number: **4ASL-2-65-UNV-OPL-1\_600mA**  
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDs with 1 rows at 600mA

**Spectral Parameters**

CCT (K): 6972  
 CIE u': 0.1979  
 CIE v': 0.4612  
 Duv: 0.0005  
 CIE x: 0.3066  
 CIE y: 0.3177  
 CIE z: 0.3758  
 Peak Wavelength (nm): 455  
 Dominant Wavelength (nm): 483  
 Purity: 10.33335  
 Rf: 88.2  
 Rg: 97.1

CRI (Ra):	94.3		
R1:	96.1	R9:	82.6
R2:	98.8	R10:	95.4
R3:	96.4	R11:	95.2
R4:	92.8	R12:	63.5
R5:	92.9	R13:	99.3
R6:	92.2	R14:	98.1
R7:	93.5	R15:	93.7
R8:	91.4		



**Test Conditions**

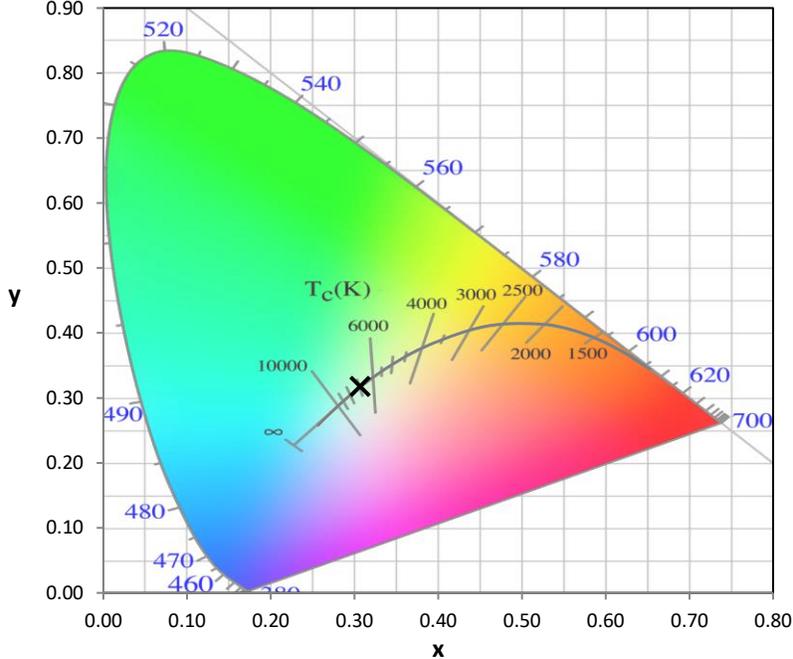
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-6

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
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 inside the ANSI 6500K 7-step quadrangle

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**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	260	NR	620	255	NR	750	6	NR	880	0	NR
365	0	NR	495	274	NR	625	252	NR	755	6	NR	885	0	NR
370	0	NR	500	297	NR	630	778	NR	760	5	NR	890	0	NR
375	0	NR	505	320	NR	635	431	NR	765	4	NR	895	0	NR
380	1	NR	510	337	NR	640	160	NR	770	4	NR	900	0	NR
385	2	NR	515	349	NR	645	165	NR	775	3	NR	905	0	NR
390	2	NR	520	354	NR	650	135	NR	780	3	NR	910	0	NR
395	3	NR	525	356	NR	655	115	NR	785	2	NR	915	0	NR
400	5	NR	530	356	NR	660	99	NR	790	2	NR	920	0	NR
405	6	NR	535	355	NR	665	84	NR	795	2	NR	925	0	NR
410	8	NR	540	354	NR	670	77	NR	800	2	NR	930	0	NR
415	12	NR	545	351	NR	675	64	NR	805	1	NR	935	0	NR
420	19	NR	550	350	NR	680	55	NR	810	1	NR	940	0	NR
425	33	NR	555	348	NR	685	47	NR	815	1	NR	945	0	NR
430	60	NR	560	344	NR	690	41	NR	820	1	NR	950	0	NR
435	113	NR	565	339	NR	695	35	NR	825	1	NR	955	0	NR
440	206	NR	570	331	NR	700	30	NR	830	1	NR	960	0	NR
445	392	NR	575	323	NR	705	26	NR	835	1	NR	965	0	NR
450	764	NR	580	315	NR	710	22	NR	840	1	NR	970	0	NR
455	1000	NR	585	307	NR	715	19	NR	845	0	NR	975	0	NR
460	736	NR	590	299	NR	720	16	NR	850	0	NR	980	0	NR
465	513	NR	595	290	NR	725	14	NR	855	0	NR	985	0	NR
470	430	NR	600	282	NR	730	12	NR	860	0	NR	990	0	NR
475	325	NR	605	276	NR	735	10	NR	865	0	NR	995	0	NR
480	256	NR	610	287	NR	740	9	NR	870	0	NR	1000	0	NR
485	250	NR	615	284	NR	745	7	NR	875	0	NR			

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**Scotopic Flux vs. Wavelength**



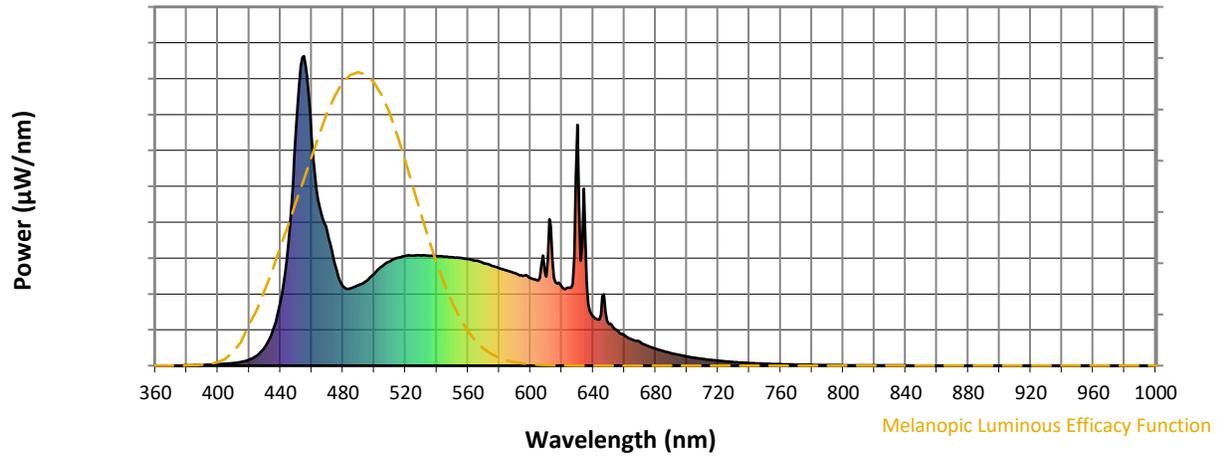
**Scotopic Lumens: NR**

**S/P: 2.48**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	260	NR	620	255	NR	750	6	NR	880	0	NR
365	0	NR	495	274	NR	625	252	NR	755	6	NR	885	0	NR
370	0	NR	500	297	NR	630	778	NR	760	5	NR	890	0	NR
375	0	NR	505	320	NR	635	431	NR	765	4	NR	895	0	NR
380	1	NR	510	337	NR	640	160	NR	770	4	NR	900	0	NR
385	2	NR	515	349	NR	645	165	NR	775	3	NR	905	0	NR
390	2	NR	520	354	NR	650	135	NR	780	3	NR	910	0	NR
395	3	NR	525	356	NR	655	115	NR	785	2	NR	915	0	NR
400	5	NR	530	356	NR	660	99	NR	790	2	NR	920	0	NR
405	6	NR	535	355	NR	665	84	NR	795	2	NR	925	0	NR
410	8	NR	540	354	NR	670	77	NR	800	2	NR	930	0	NR
415	12	NR	545	351	NR	675	64	NR	805	1	NR	935	0	NR
420	19	NR	550	350	NR	680	55	NR	810	1	NR	940	0	NR
425	33	NR	555	348	NR	685	47	NR	815	1	NR	945	0	NR
430	60	NR	560	344	NR	690	41	NR	820	1	NR	950	0	NR
435	113	NR	565	339	NR	695	35	NR	825	1	NR	955	0	NR
440	206	NR	570	331	NR	700	30	NR	830	1	NR	960	0	NR
445	392	NR	575	323	NR	705	26	NR	835	1	NR	965	0	NR
450	764	NR	580	315	NR	710	22	NR	840	1	NR	970	0	NR
455	1000	NR	585	307	NR	715	19	NR	845	0	NR	975	0	NR
460	736	NR	590	299	NR	720	16	NR	850	0	NR	980	0	NR
465	513	NR	595	290	NR	725	14	NR	855	0	NR	985	0	NR
470	430	NR	600	282	NR	730	12	NR	860	0	NR	990	0	NR
475	325	NR	605	276	NR	735	10	NR	865	0	NR	995	0	NR
480	256	NR	610	287	NR	740	9	NR	870	0	NR	1000	0	NR
485	250	NR	615	284	NR	745	7	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



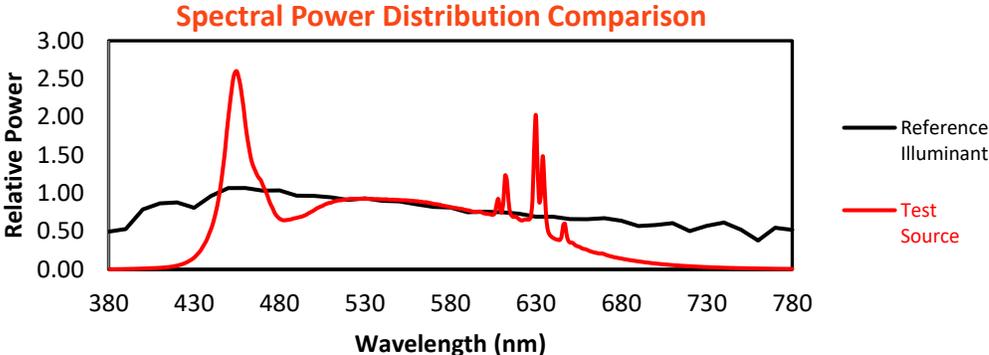
Melanopic Lumens: NR

M/P: 5.67

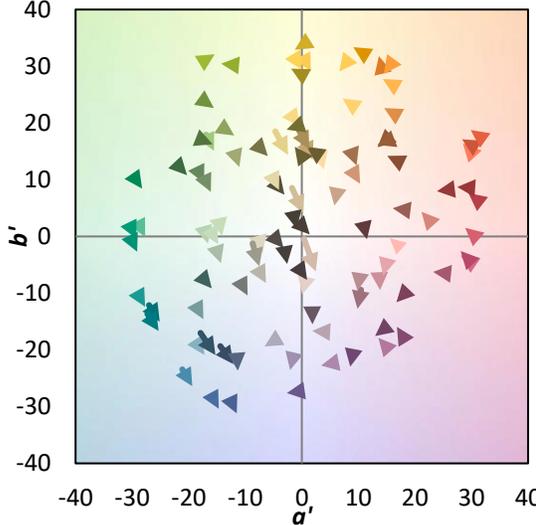
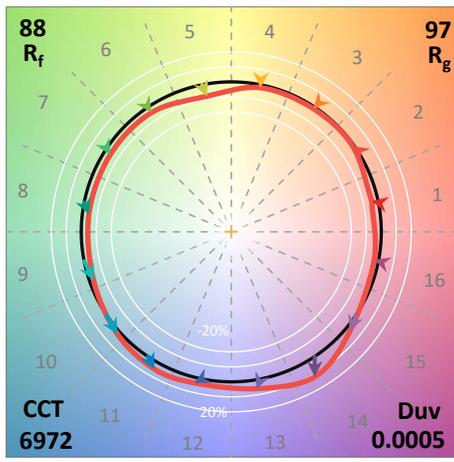
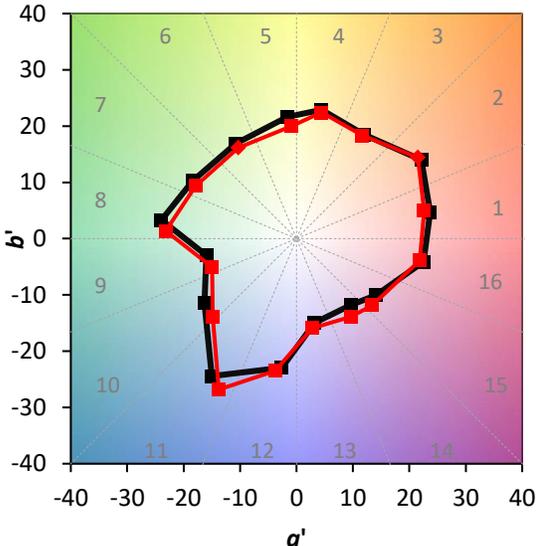
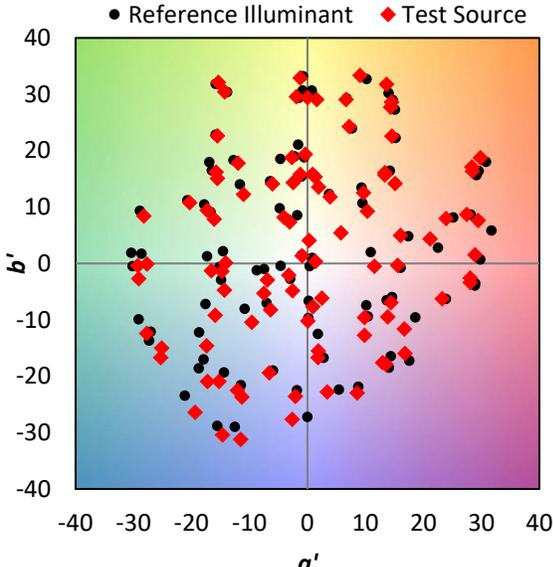
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	260	NR	620	255	NR	750	6	NR	880	0	NR
365	0	NR	495	274	NR	625	252	NR	755	6	NR	885	0	NR
370	0	NR	500	297	NR	630	778	NR	760	5	NR	890	0	NR
375	0	NR	505	320	NR	635	431	NR	765	4	NR	895	0	NR
380	1	NR	510	337	NR	640	160	NR	770	4	NR	900	0	NR
385	2	NR	515	349	NR	645	165	NR	775	3	NR	905	0	NR
390	2	NR	520	354	NR	650	135	NR	780	3	NR	910	0	NR
395	3	NR	525	356	NR	655	115	NR	785	2	NR	915	0	NR
400	5	NR	530	356	NR	660	99	NR	790	2	NR	920	0	NR
405	6	NR	535	355	NR	665	84	NR	795	2	NR	925	0	NR
410	8	NR	540	354	NR	670	77	NR	800	2	NR	930	0	NR
415	12	NR	545	351	NR	675	64	NR	805	1	NR	935	0	NR
420	19	NR	550	350	NR	680	55	NR	810	1	NR	940	0	NR
425	33	NR	555	348	NR	685	47	NR	815	1	NR	945	0	NR
430	60	NR	560	344	NR	690	41	NR	820	1	NR	950	0	NR
435	113	NR	565	339	NR	695	35	NR	825	1	NR	955	0	NR
440	206	NR	570	331	NR	700	30	NR	830	1	NR	960	0	NR
445	392	NR	575	323	NR	705	26	NR	835	1	NR	965	0	NR
450	764	NR	580	315	NR	710	22	NR	840	1	NR	970	0	NR
455	1000	NR	585	307	NR	715	19	NR	845	0	NR	975	0	NR
460	736	NR	590	299	NR	720	16	NR	850	0	NR	980	0	NR
465	513	NR	595	290	NR	725	14	NR	855	0	NR	985	0	NR
470	430	NR	600	282	NR	730	12	NR	860	0	NR	990	0	NR
475	325	NR	605	276	NR	735	10	NR	865	0	NR	995	0	NR
480	256	NR	610	287	NR	740	9	NR	870	0	NR	1000	0	NR
485	250	NR	615	284	NR	745	7	NR	875	0	NR			

**Summary**

$R_f = 88.2$   
 $R_g = 97.1$   
 CIE  $R_a = 94.3$   
 $R_9 = 82.6$

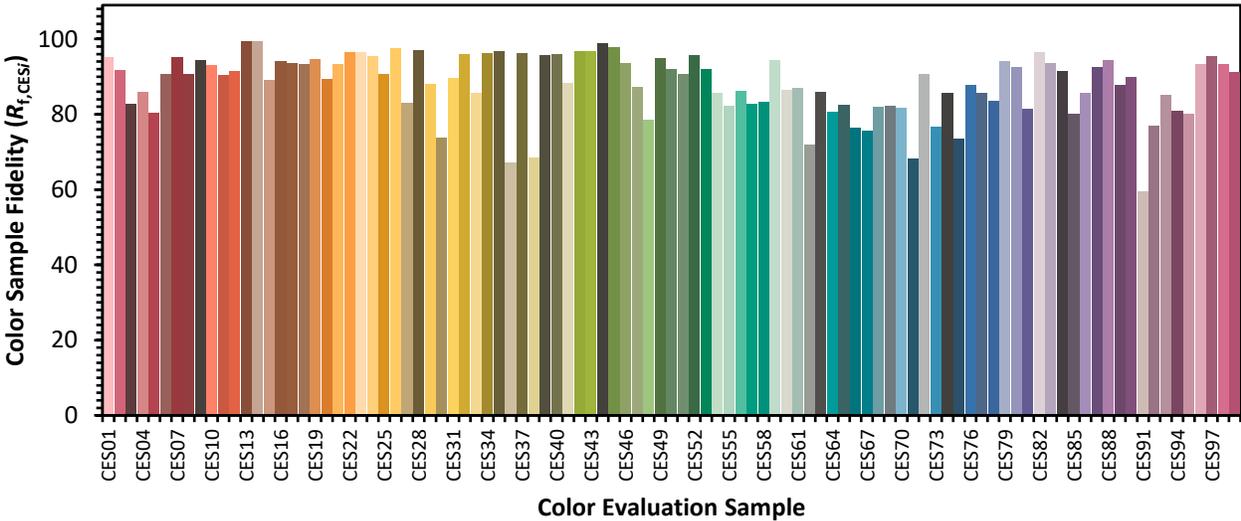


**Color Vector Graphics**

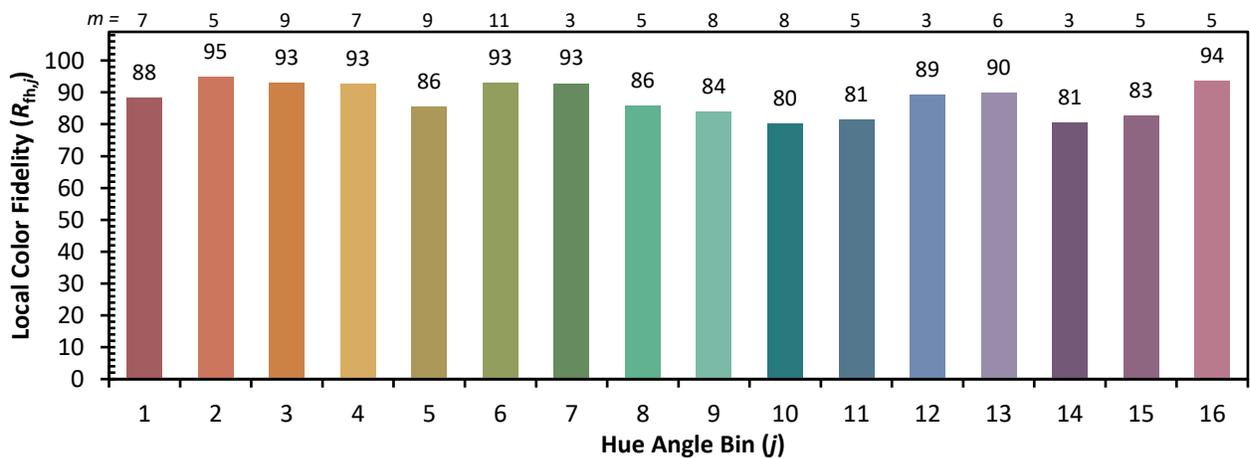
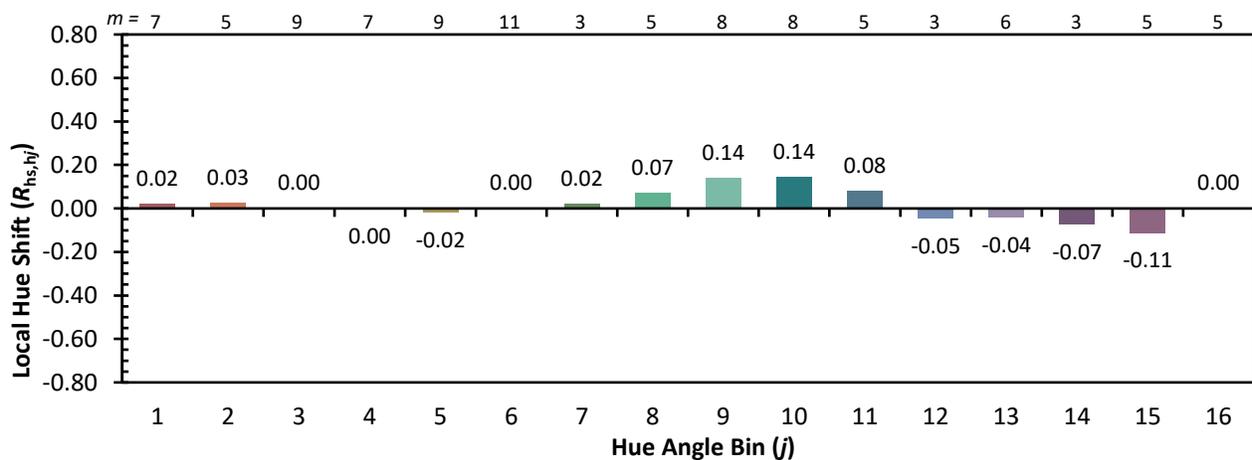
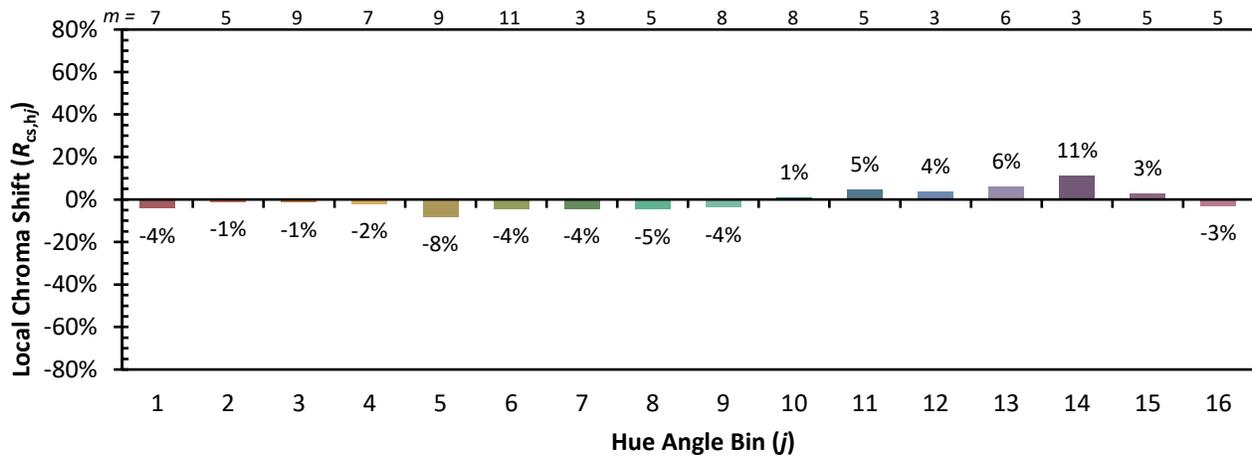


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

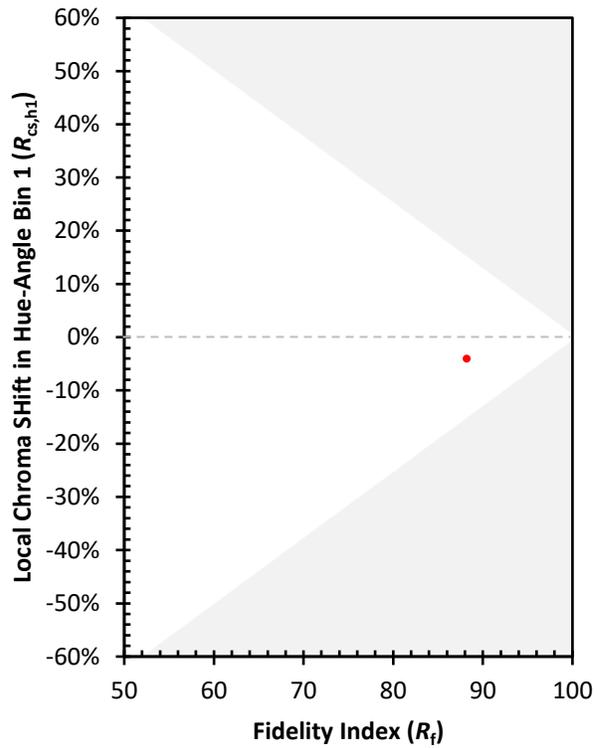
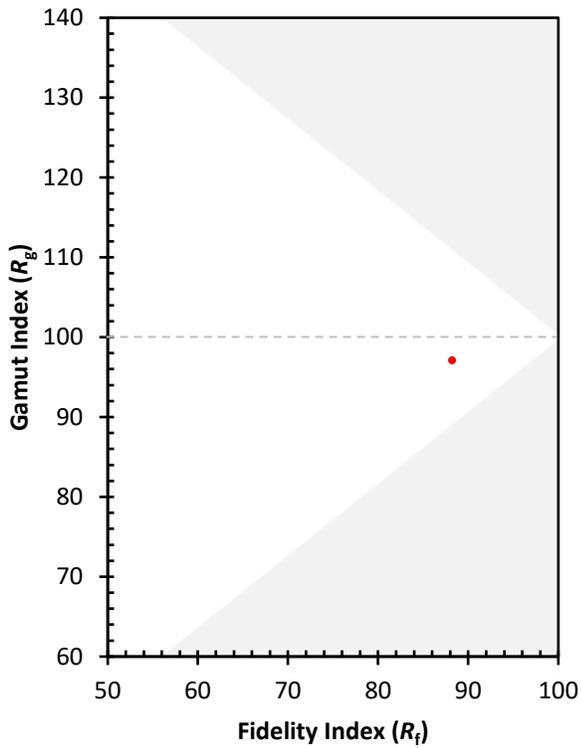
CES01 = 85	CES26 = 97	CES51 = 91	CES76 = 88
CES02 = 60	CES27 = 83	CES52 = 96	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 92	CES78 = 83
CES04 = 68	CES29 = 88	CES54 = 86	CES79 = 94
CES05 = 47	CES30 = 74	CES55 = 82	CES80 = 93
CES06 = 49	CES31 = 90	CES56 = 86	CES81 = 81
CES07 = 40	CES32 = 96	CES57 = 83	CES82 = 96
CES08 = 39	CES33 = 86	CES58 = 83	CES83 = 94
CES09 = 29	CES34 = 96	CES59 = 94	CES84 = 91
CES10 = 72	CES35 = 97	CES60 = 87	CES85 = 80
CES11 = 55	CES36 = 67	CES61 = 87	CES86 = 86
CES12 = 61	CES37 = 96	CES62 = 72	CES87 = 93
CES13 = 42	CES38 = 68	CES63 = 86	CES88 = 94
CES14 = 74	CES39 = 96	CES64 = 81	CES89 = 88
CES15 = 71	CES40 = 96	CES65 = 83	CES90 = 90
CES16 = 46	CES41 = 88	CES66 = 76	CES91 = 60
CES17 = 48	CES42 = 97	CES67 = 76	CES92 = 77
CES18 = 55	CES43 = 97	CES68 = 82	CES93 = 85
CES19 = 69	CES44 = 99	CES69 = 82	CES94 = 81
CES20 = 64	CES45 = 98	CES70 = 82	CES95 = 80
CES21 = 84	CES46 = 93	CES71 = 68	CES96 = 93
CES22 = 76	CES47 = 87	CES72 = 91	CES97 = 95
CES23 = 91	CES48 = 79	CES73 = 77	CES98 = 93
CES24 = 89	CES49 = 95	CES74 = 86	CES99 = 91
CES25 = 69	CES50 = 92	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)