

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: P1357330

Luminaire Tested: 6ASL4-20HE-2-27-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357330
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: 6ASL4-20HE-2-27-UNV
Description: 6FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

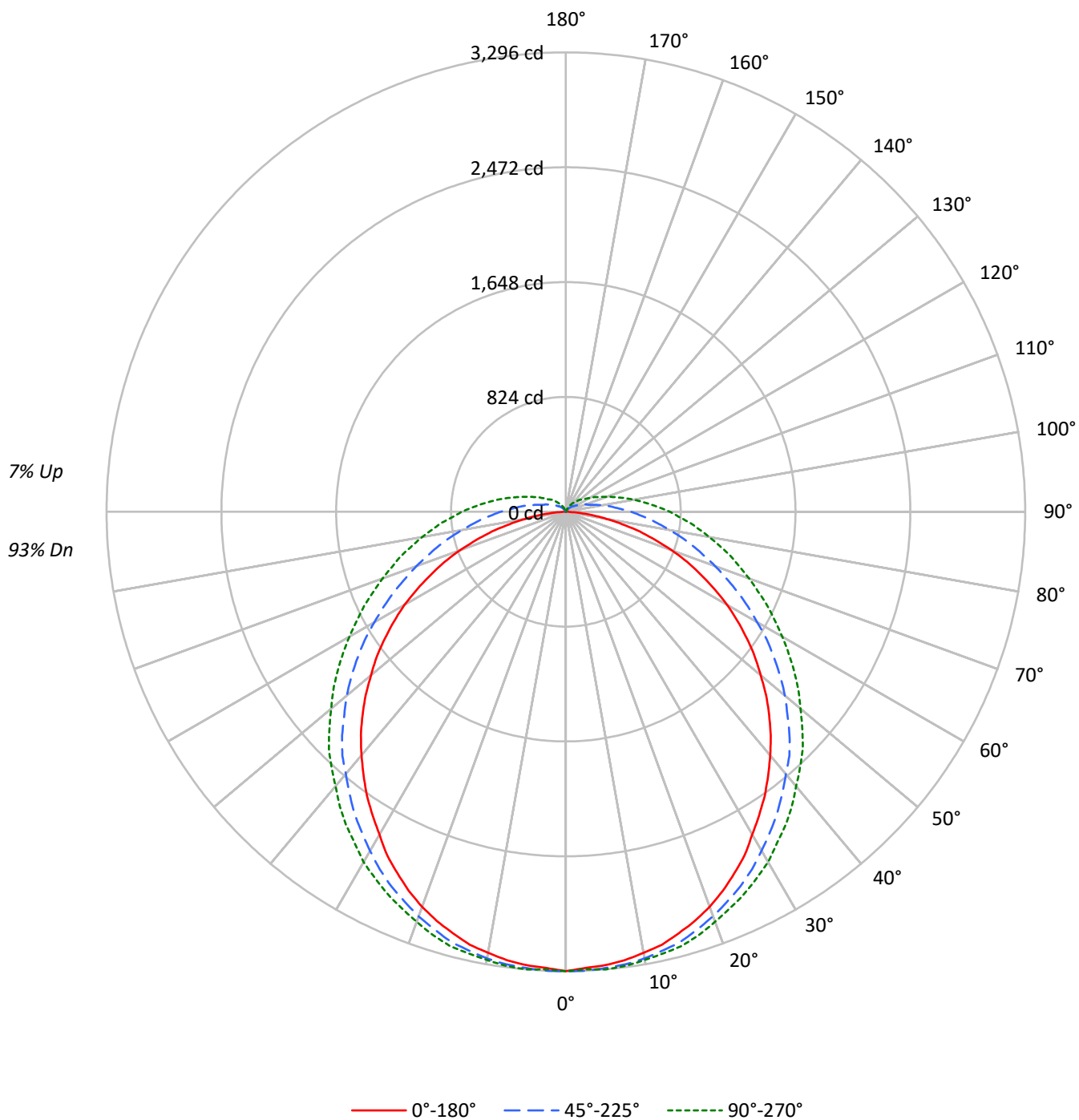
Lumens per Lamp: N/A
Luminaire Lumens: 11316.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 107.4
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	50	30	10
RCR																				
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	74	74	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	60	60	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	50	50	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42	42	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36	36	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32	32	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28	28	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	25	25	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	22	22	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	20	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17802	17802	17802
5°	17674	17458	17394
10°	17568	17144	16971
15°	17422	16801	16632
20°	17227	16364	16154
25°	16911	15932	15742
30°	16512	15439	15333
35°	16204	14980	14859
40°	15846	14484	14358
45°	15485	14058	13994
50°	15016	13493	13453
55°	14570	12885	13024
60°	14021	12200	12567
65°	13152	11566	12214
70°	12184	10972	11889
75°	10764	10522	11782
80°	8509	10131	11745
85°	5359	10161	12082

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	2.8
10°-20°	898.6	7.9
20°-30°	1361.5	12.0
30°-40°	1646.8	14.6
40°-50°	1736.1	15.3
50°-60°	1620.3	14.3
60°-70°	1337.8	11.8
70°-80°	970.5	8.6
80°-90°	613.1	5.4
90°-100°	366.0	3.2
100°-110°	209.8	1.9
110°-120°	119.1	1.1
120°-130°	68.0	0.6
130°-140°	36.8	0.3
140°-150°	16.1	0.1
150°-160°	2.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2572.7	22.7
0°-40°	4219.5	37.3
0°-60°	7575.9	66.9
0°-90°	10497.2	92.8
90°-120°	695.0	6.1
90°-150°	815.9	7.2
90°-180°	819.0	7.2
0°-180°	11316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3296	3296	3296	3296	3296	
5°	3265	3296	3286	3286	3296	310
15°	3130	3172	3193	3203	3224	883
25°	2861	2902	2964	3006	3027	1318
35°	2488	2550	2643	2716	2747	1555
45°	2063	2146	2270	2363	2405	1591
55°	1586	1679	1824	1949	2000	1417
65°	1068	1182	1358	1524	1596	1060
75°	549	694	943	1140	1223	578
85°	104	321	601	808	891	127
90°	0	197	466	663	746	4
95°	0	124	352	539	612	0
105°	0	42	197	342	394	0
115°	0	21	114	207	249	0
125°	0	10	73	135	156	0
135°	0	0	42	83	104	0
145°	0	0	21	52	62	0
155°	0	0	0	10	21	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°	3296.2	3296.2	3296.2	3296.2	3296.2
2.5°	3275.5	3306.6	3296.2	3285.9	3285.9
5°	3265.1	3296.2	3285.9	3285.9	3296.2
7.5°	3244.4	3275.5	3275.5	3275.5	3285.9
10°	3213.3	3254.8	3254.8	3254.8	3265.1
12.5°	3182.2	3213.3	3223.7	3234.0	3244.4
15°	3130.4	3171.8	3192.6	3202.9	3223.7
17.5°	3078.6	3109.7	3140.8	3171.8	3182.2
20°	3016.4	3057.8	3088.9	3120.0	3130.4
22.5°	2943.8	2985.3	3026.7	3057.8	3078.6
25°	2860.9	2902.3	2964.5	3006.0	3026.7
27.5°	2778.0	2819.4	2892.0	2943.8	2964.5
30°	2674.3	2736.5	2809.1	2871.2	2902.3
32.5°	2581.0	2643.2	2726.1	2798.7	2819.4
35°	2487.7	2549.9	2643.2	2715.8	2746.9
37.5°	2384.1	2456.6	2549.9	2632.8	2663.9
40°	2280.4	2353.0	2456.6	2549.9	2570.6
42.5°	2176.8	2249.3	2373.7	2456.6	2487.7
45°	2062.7	2145.7	2270.0	2363.3	2404.8
47.5°	1948.7	2031.6	2156.0	2259.7	2301.1
50°	1824.3	1917.6	2052.4	2156.0	2197.5
52.5°	1710.3	1803.6	1938.4	2052.4	2104.2
55°	1585.9	1679.2	1824.3	1948.7	2000.5
57.5°	1461.5	1554.8	1710.3	1845.1	1896.9
60°	1337.2	1430.4	1585.9	1741.4	1793.2
62.5°	1202.4	1306.1	1471.9	1627.4	1689.6
65°	1067.6	1181.7	1357.9	1523.7	1596.3
67.5°	943.3	1057.3	1243.9	1430.4	1492.6
70°	808.5	932.9	1140.2	1326.8	1399.3
72.5°	673.8	808.5	1036.6	1233.5	1306.1
75°	549.4	694.5	943.3	1140.2	1223.1
77.5°	414.6	590.8	850.0	1057.3	1129.8
80°	300.6	487.2	756.7	974.4	1046.9
82.5°	196.9	393.9	673.8	891.4	964.0
85°	103.7	321.3	601.2	808.5	891.4
87.5°	31.1	248.8	528.6	736.0	808.5
90°	0.0	196.9	466.4	663.4	746.3
92.5°	0.0	155.5	404.3	601.2	673.8
95°	0.0	124.4	352.4	539.0	611.6
97.5°	0.0	103.7	311.0	487.2	549.4
100°	0.0	82.9	269.5	435.4	497.5
102.5°	0.0	62.2	228.0	383.5	445.7
105°	0.0	41.5	196.9	342.1	393.9
107.5°	0.0	31.1	165.8	300.6	352.4
110°	0.0	31.1	155.5	259.1	311.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	20.7	134.8	238.4	279.9
115°	0.0	20.7	114.0	207.3	248.8
117.5°	0.0	20.7	103.7	186.6	228.0
120°	0.0	20.7	93.3	165.8	196.9
122.5°	0.0	10.4	82.9	145.1	176.2
125°	0.0	10.4	72.6	134.8	155.5
127.5°	0.0	10.4	62.2	124.4	145.1
130°	0.0	10.4	62.2	114.0	134.8
132.5°	0.0	0.0	51.8	103.7	124.4
135°	0.0	0.0	41.5	82.9	103.7
137.5°	0.0	0.0	41.5	72.6	93.3
140°	0.0	0.0	31.1	72.6	82.9
142.5°	0.0	0.0	20.7	62.2	72.6
145°	0.0	0.0	20.7	51.8	62.2
147.5°	0.0	0.0	10.4	41.5	51.8
150°	0.0	0.0	10.4	31.1	41.5
152.5°	0.0	0.0	0.0	20.7	31.1
155°	0.0	0.0	0.0	10.4	20.7
157.5°	0.0	0.0	0.0	0.0	10.4
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	19.33	20.86	19.80	21.32	21.81	21.41	22.95	21.89	23.41	23.90
	3H	20.83	22.23	21.31	22.70	23.23	23.88	25.28	24.36	25.75	26.28
	4H	21.31	22.64	21.81	23.12	23.67	25.10	26.43	25.60	26.91	27.46
	6H	21.58	22.82	22.10	23.32	23.88	26.39	27.62	26.91	28.12	28.69
	8H	21.64	22.82	22.17	23.35	23.91	27.06	28.25	27.59	28.77	29.34
	12H	21.65	22.79	22.19	23.31	23.90	27.82	28.95	28.35	29.47	30.07
4H	2H	20.21	21.54	20.72	22.03	22.57	21.84	23.17	22.35	23.66	24.20
	3H	21.95	23.09	22.47	23.62	24.18	24.54	25.67	25.06	26.20	26.77
	4H	22.56	23.60	23.10	24.14	24.74	25.93	26.97	26.47	27.51	28.11
	6H	22.96	23.88	23.52	24.45	25.06	27.42	28.33	27.98	28.90	29.51
	8H	23.06	23.92	23.62	24.49	25.11	28.20	29.06	28.76	29.63	30.25
	12H	23.11	23.89	23.69	24.49	25.12	29.08	29.86	29.67	30.46	31.09
8H	4H	23.26	24.13	23.83	24.69	25.32	26.15	27.01	26.72	27.58	28.20
	6H	23.85	24.58	24.45	25.19	25.82	27.81	28.54	28.41	29.15	29.78
	8H	24.04	24.70	24.65	25.32	25.96	28.74	29.40	29.35	30.02	30.66
	12H	24.16	24.75	24.77	25.36	26.07	29.80	30.39	30.41	31.00	31.71
12H	4H	23.47	24.25	24.05	24.85	25.48	26.16	26.94	26.75	27.54	28.17
	6H	24.16	24.82	24.77	25.44	26.08	27.85	28.51	28.46	29.13	29.77
	8H	24.45	25.04	25.06	25.64	26.35	28.85	29.44	29.46	30.04	30.75

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-2

Test Date: 11/17/2025

Luminaire Tested: 4ASL-2-27-UNV-OPL-1_600mA

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

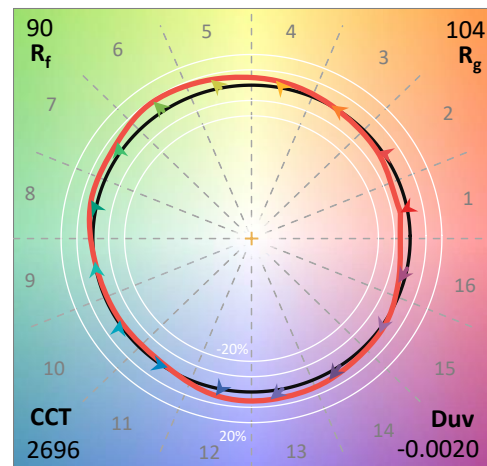
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-2
 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-2-27-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K): 2696
 CIE u' : 0.2632
 CIE v' : 0.5245
 Duv: -0.0020
 CIE x: 0.4568
 CIE y: 0.4045
 CIE z: 0.1387
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 584
 Purity: 58.52757
 R_f: 90.1
 R_g: 103.5

CRI (Ra): 94.4
 R1: 97.5
 R2: 97.8
 R3: 96.9
 R4: 95.3
 R5: 97.2
 R6: 96.5
 R7: 91.2
 R8: 83.2
 R9: 61.8
 R10: 93.6
 R11: 93.7
 R12: 94.1
 R13: 97.6
 R14: 96.8
 R15: 91.9



Test Conditions

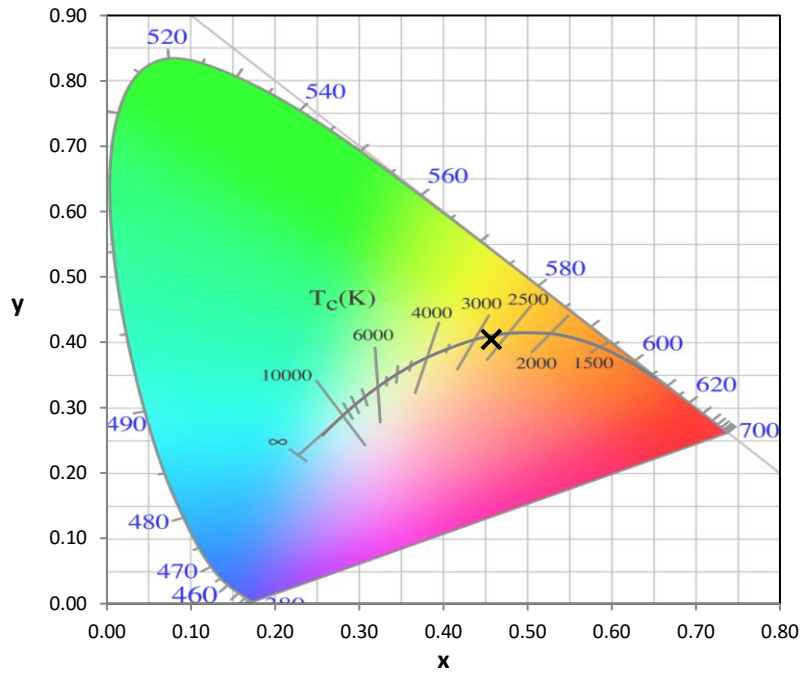
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 24.1

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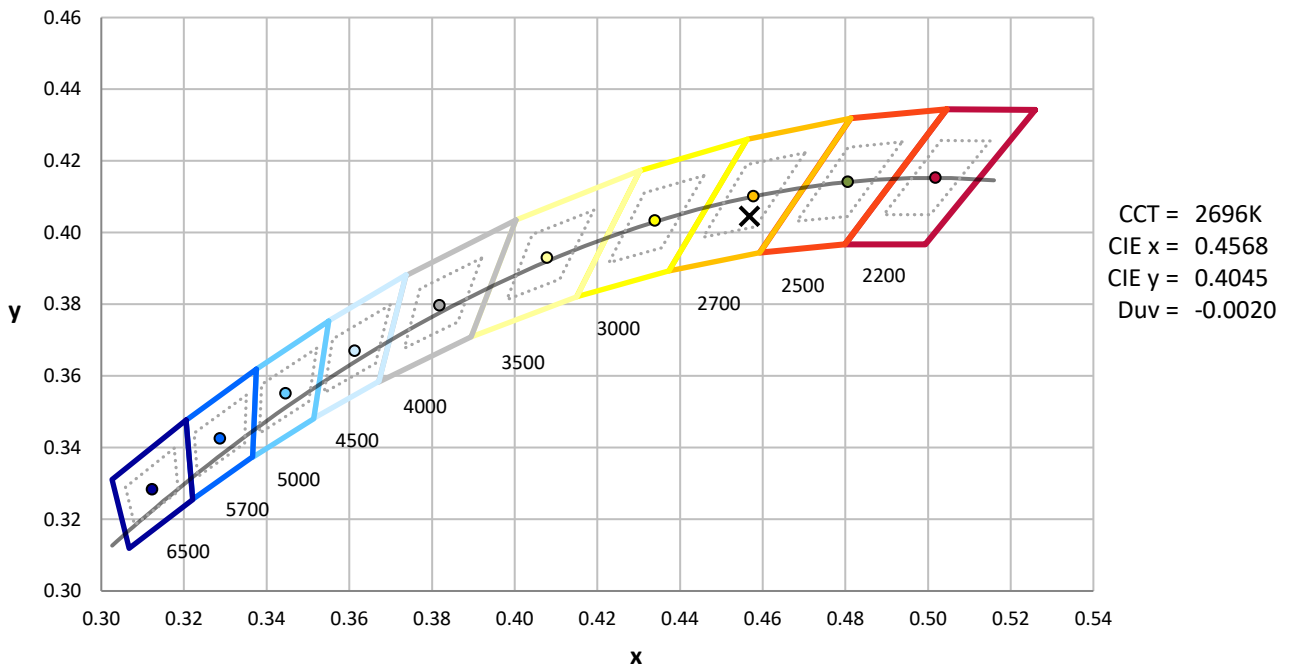
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



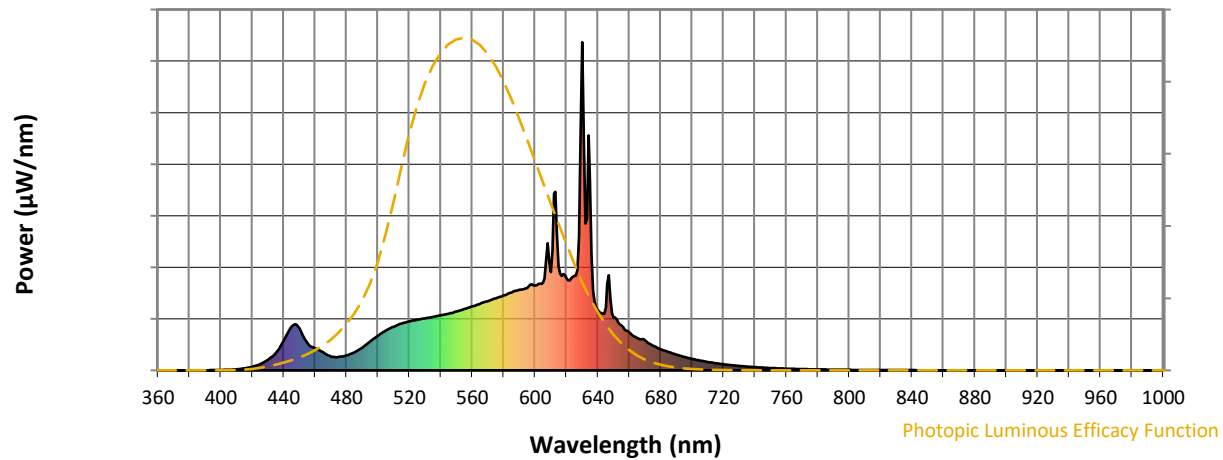
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

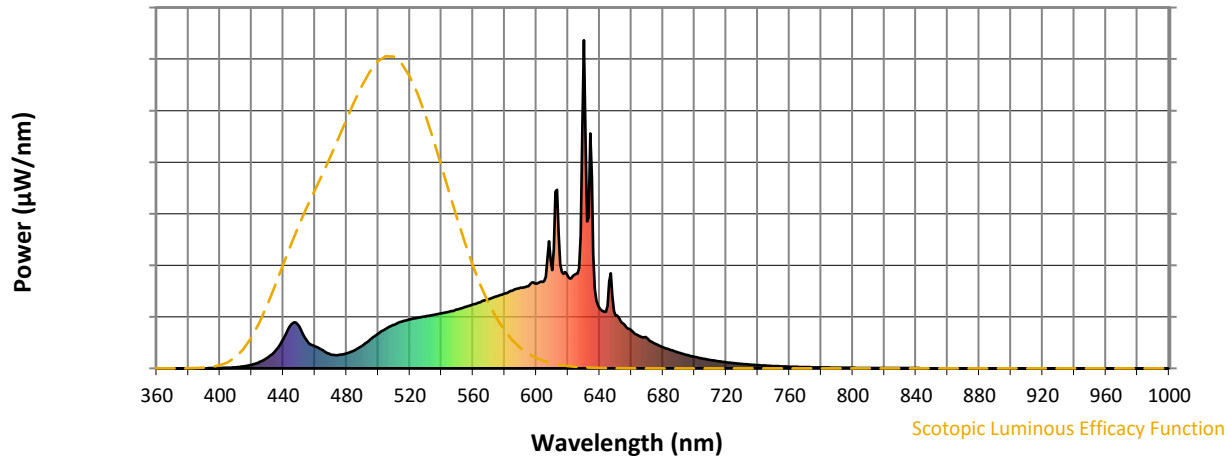


Photopic Lumens: NR

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	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



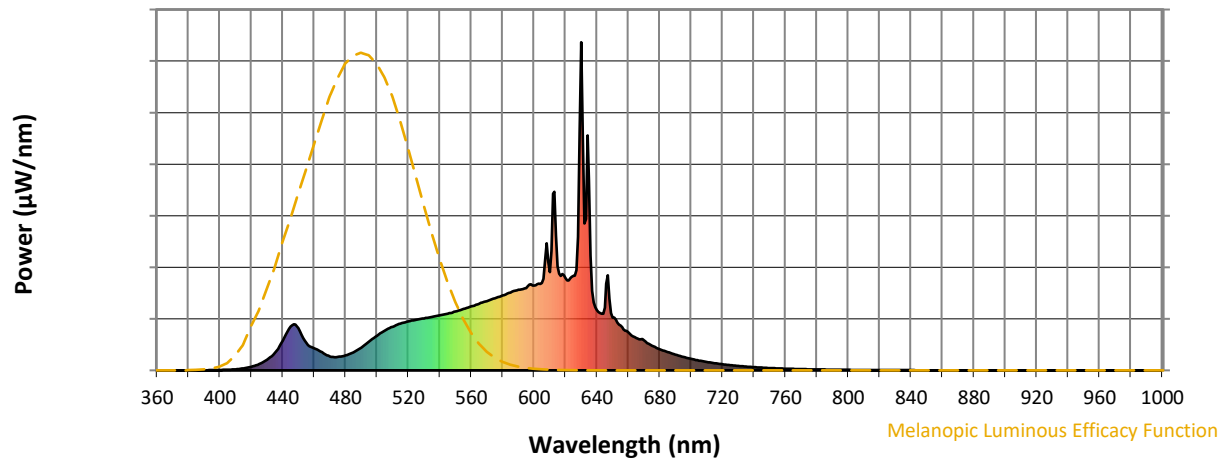
Scotopic Lumens: NR

S/P: 1.29

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	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.45

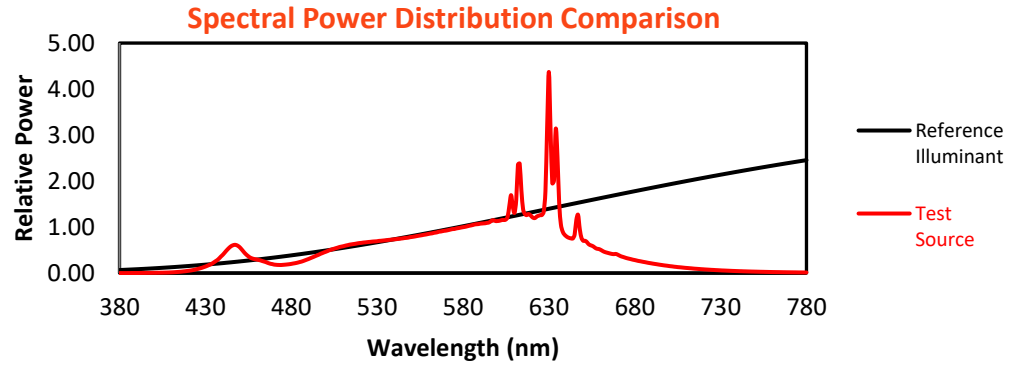
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-2

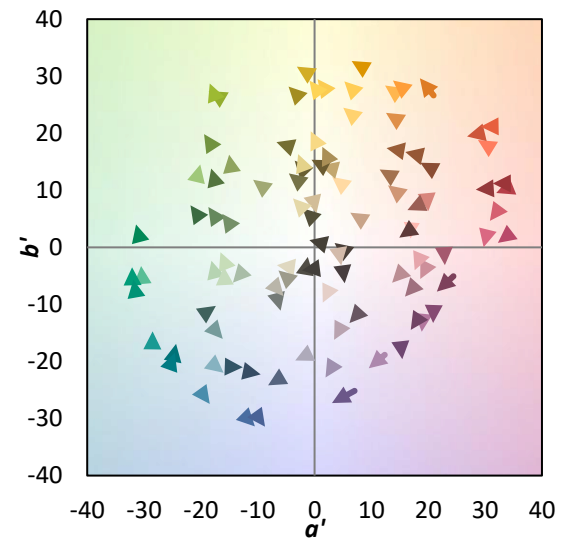
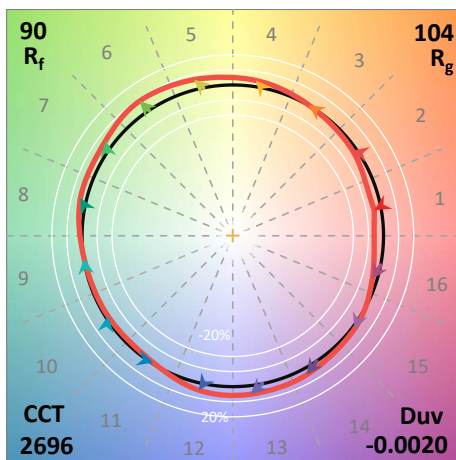
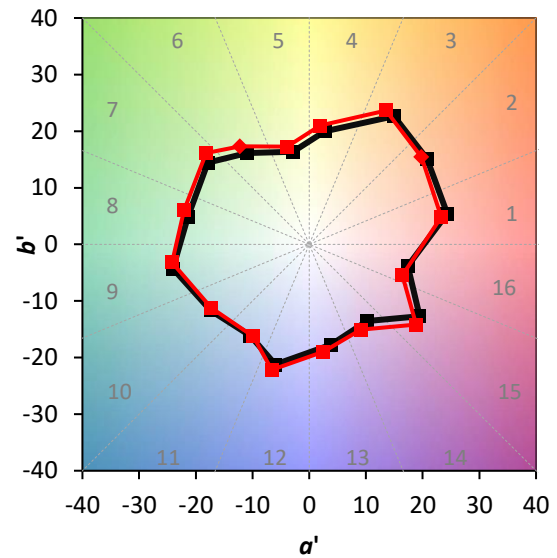
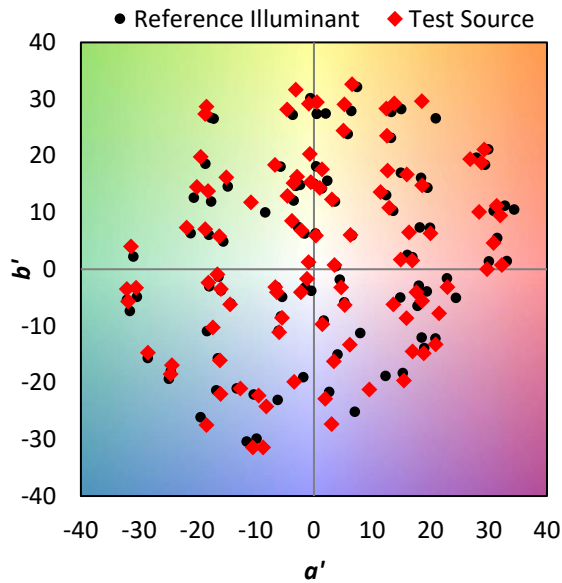
TM-30-18

Summary

$R_f = 90.1$
 $R_g = 103.5$
 $CIE R_a = 94.4$
 $R_9 = 61.8$

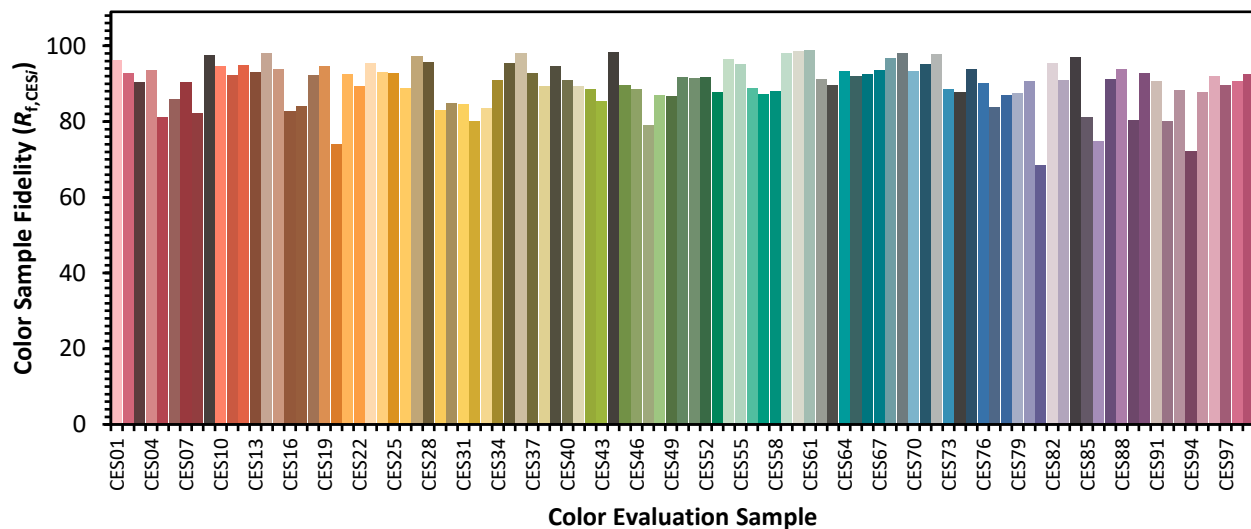


Color Vector Graphics

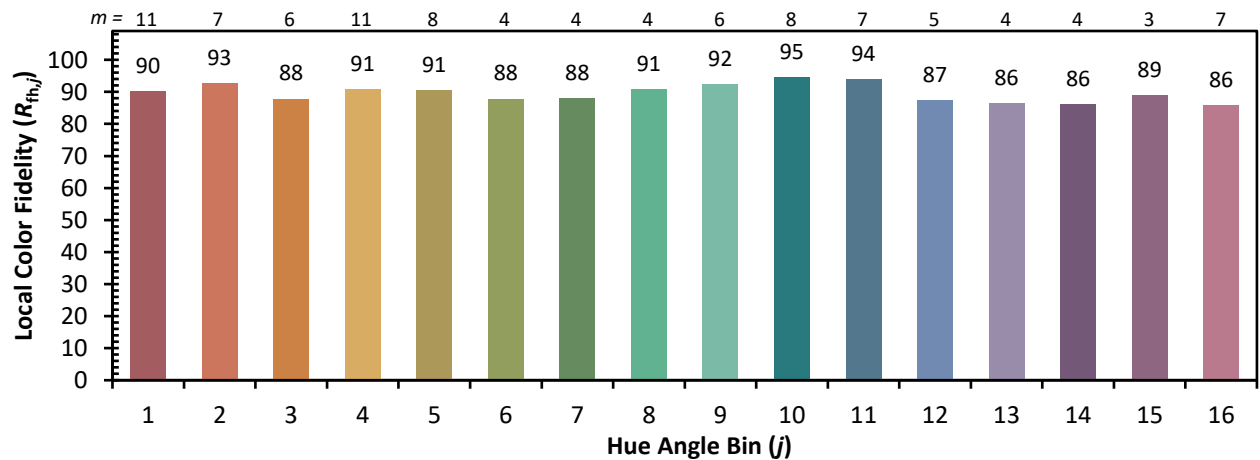
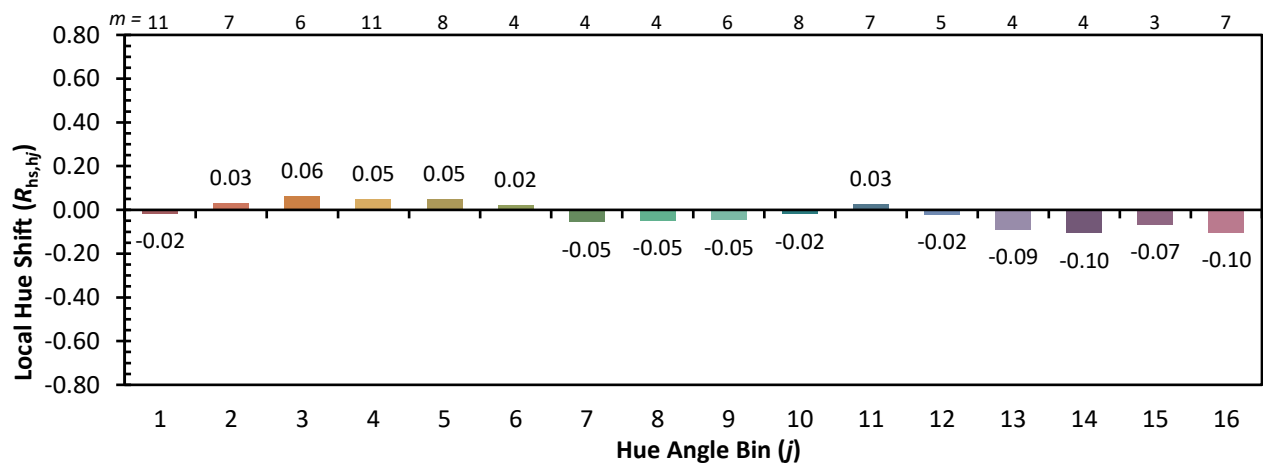
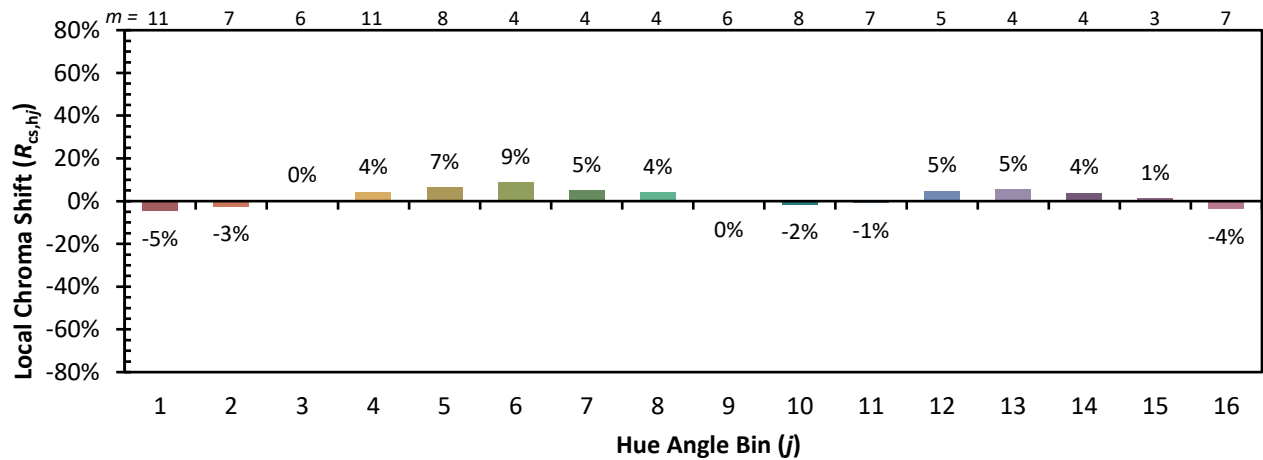


Individual Sample Fidelity Index ($R_{f,i}$)

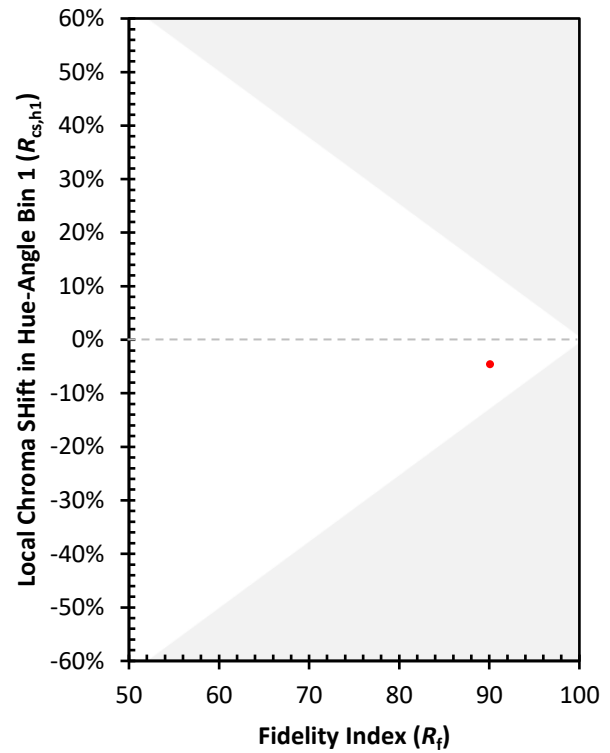
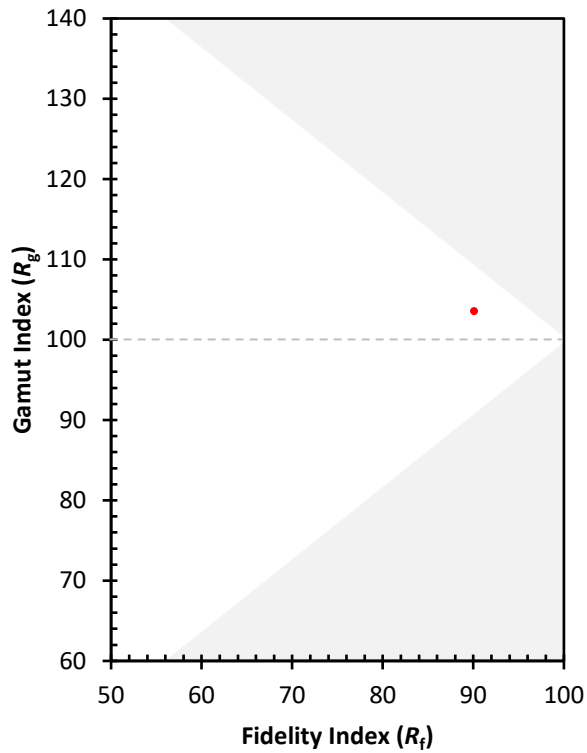
CES01 = 86	CES26 = 89	CES51 = 92	CES76 = 90
CES02 = 64	CES27 = 97	CES52 = 92	CES77 = 84
CES03 = 32	CES28 = 96	CES53 = 88	CES78 = 87
CES04 = 71	CES29 = 83	CES54 = 97	CES79 = 88
CES05 = 51	CES30 = 85	CES55 = 95	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 69
CES07 = 44	CES32 = 80	CES57 = 87	CES82 = 95
CES08 = 43	CES33 = 84	CES58 = 88	CES83 = 91
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 97
CES10 = 77	CES35 = 96	CES60 = 99	CES85 = 81
CES11 = 59	CES36 = 98	CES61 = 99	CES86 = 75
CES12 = 66	CES37 = 93	CES62 = 91	CES87 = 91
CES13 = 45	CES38 = 89	CES63 = 90	CES88 = 94
CES14 = 74	CES39 = 95	CES64 = 93	CES89 = 80
CES15 = 72	CES40 = 91	CES65 = 92	CES90 = 93
CES16 = 48	CES41 = 89	CES66 = 92	CES91 = 91
CES17 = 50	CES42 = 89	CES67 = 93	CES92 = 80
CES18 = 57	CES43 = 85	CES68 = 97	CES93 = 88
CES19 = 72	CES44 = 98	CES69 = 98	CES94 = 72
CES20 = 68	CES45 = 90	CES70 = 93	CES95 = 88
CES21 = 87	CES46 = 89	CES71 = 95	CES96 = 92
CES22 = 79	CES47 = 79	CES72 = 98	CES97 = 90
CES23 = 92	CES48 = 87	CES73 = 89	CES98 = 91
CES24 = 91	CES49 = 87	CES74 = 88	CES99 = 92
CES25 = 72	CES50 = 92	CES75 = 94	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)