

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: P1356809

Luminaire Tested: 2ASL4-10HE-2-50-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356809
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: 2ASL4-10HE-2-50-UNV
Description: 2FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 5000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

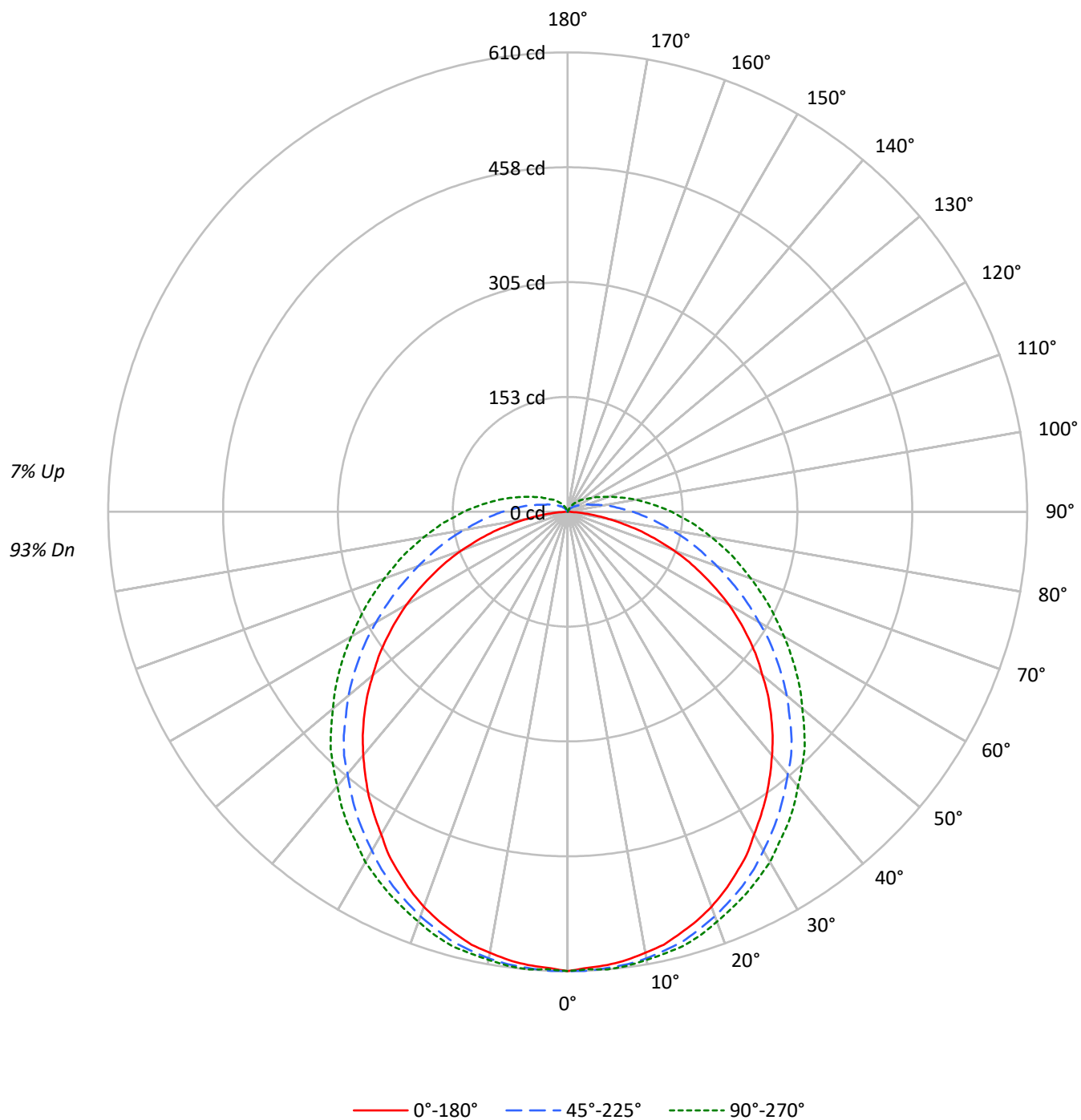
Lumens per Lamp: N/A
Luminaire Lumens: 2094.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 16.6
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: P1356809

CATALOG NUMBER: 2ASL4-10HE-2-50-UNV

Luminous Intensity Polar Plot



TEST NUMBER: P1356809

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9953	9953	9953
5°	9850	9738	9725
10°	9761	9544	9487
15°	9649	9334	9297
20°	9510	9072	9031
25°	9302	8815	8801
30°	9049	8523	8572
35°	8842	8250	8307
40°	8608	7958	8027
45°	8367	7704	7823
50°	8064	7372	7520
55°	7765	7016	7281
60°	7399	6618	7025
65°	6855	6244	6828
70°	6235	5889	6645
75°	5359	5602	6585
80°	4023	5338	6565
85°	2244	5273	6756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8367 cd/sqm

TEST NUMBER: P1356809

CATALOG NUMBER: 2ASL4-10HE-2-50-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	2.8
10°-20°	166.3	7.9
20°-30°	252.0	12.0
30°-40°	304.7	14.6
40°-50°	321.3	15.3
50°-60°	299.8	14.3
60°-70°	247.6	11.8
70°-80°	179.6	8.6
80°-90°	113.5	5.4
90°-100°	67.7	3.2
100°-110°	38.8	1.9
110°-120°	22.0	1.1
120°-130°	12.6	0.6
130°-140°	6.8	0.3
140°-150°	3.0	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	476.1	22.7
0°-40°	780.8	37.3
0°-60°	1401.9	66.9
0°-90°	1942.5	92.8
90°-120°	128.6	6.1
90°-150°	151.0	7.2
90°-180°	152.0	7.3
0°-180°	2094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	604	610	608	608	610	57
15°	579	587	591	593	596	163
25°	529	537	549	556	560	244
35°	460	472	489	502	508	288
45°	382	397	420	437	445	294
55°	294	311	338	361	370	262
65°	198	219	251	282	295	196
75°	102	128	174	211	226	107
85°	19	60	111	150	165	23
90°	0	36	86	123	138	1
95°	0	23	65	100	113	0
105°	0	8	36	63	73	0
115°	0	4	21	38	46	0
125°	0	2	13	25	29	0
135°	0	0	8	15	19	0
145°	0	0	4	10	12	0
155°	0	0	0	2	4	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1356809

CATALOG NUMBER: 2ASL4-10HE-2-50-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.0	610.0	610.0	610.0	610.0
2.5°	606.1	611.9	610.0	608.0	608.0
5°	604.2	610.0	608.0	608.0	610.0
7.5°	600.4	606.1	606.1	606.1	608.0
10°	594.6	602.3	602.3	602.3	604.2
12.5°	588.9	594.6	596.5	598.5	600.4
15°	579.3	586.9	590.8	592.7	596.5
17.5°	569.7	575.4	581.2	586.9	588.9
20°	558.2	565.8	571.6	577.4	579.3
22.5°	544.7	552.4	560.1	565.8	569.7
25°	529.4	537.1	548.6	556.3	560.1
27.5°	514.1	521.7	535.2	544.7	548.6
30°	494.9	506.4	519.8	531.3	537.1
32.5°	477.6	489.1	504.5	517.9	521.7
35°	460.3	471.9	489.1	502.5	508.3
37.5°	441.2	454.6	471.9	487.2	493.0
40°	422.0	435.4	454.6	471.9	475.7
42.5°	402.8	416.2	439.2	454.6	460.3
45°	381.7	397.0	420.1	437.3	445.0
47.5°	360.6	376.0	399.0	418.1	425.8
50°	337.6	354.9	379.8	399.0	406.6
52.5°	316.5	333.8	358.7	379.8	389.4
55°	293.5	310.7	337.6	360.6	370.2
57.5°	270.5	287.7	316.5	341.4	351.0
60°	247.4	264.7	293.5	322.2	331.8
62.5°	222.5	241.7	272.4	301.1	312.7
65°	197.6	218.7	251.3	282.0	295.4
67.5°	174.5	195.6	230.2	264.7	276.2
70°	149.6	172.6	211.0	245.5	258.9
72.5°	124.7	149.6	191.8	228.3	241.7
75°	101.7	128.5	174.5	211.0	226.3
77.5°	76.7	109.3	157.3	195.6	209.1
80°	55.6	90.2	140.0	180.3	193.7
82.5°	36.4	72.9	124.7	165.0	178.4
85°	19.2	59.5	111.3	149.6	165.0
87.5°	5.8	46.0	97.8	136.2	149.6
90°	0.0	36.4	86.3	122.8	138.1
92.5°	0.0	28.8	74.8	111.3	124.7
95°	0.0	23.0	65.2	99.7	113.2
97.5°	0.0	19.2	57.5	90.2	101.7
100°	0.0	15.3	49.9	80.6	92.1
102.5°	0.0	11.5	42.2	71.0	82.5
105°	0.0	7.7	36.4	63.3	72.9
107.5°	0.0	5.8	30.7	55.6	65.2
110°	0.0	5.8	28.8	48.0	57.5

TEST NUMBER: P1356809

CATALOG NUMBER: 2ASL4-10HE-2-50-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.8	24.9	44.1	51.8
115°	0.0	3.8	21.1	38.4	46.0
117.5°	0.0	3.8	19.2	34.5	42.2
120°	0.0	3.8	17.3	30.7	36.4
122.5°	0.0	1.9	15.3	26.9	32.6
125°	0.0	1.9	13.4	24.9	28.8
127.5°	0.0	1.9	11.5	23.0	26.9
130°	0.0	1.9	11.5	21.1	24.9
132.5°	0.0	0.0	9.6	19.2	23.0
135°	0.0	0.0	7.7	15.3	19.2
137.5°	0.0	0.0	7.7	13.4	17.3
140°	0.0	0.0	5.8	13.4	15.3
142.5°	0.0	0.0	3.8	11.5	13.4
145°	0.0	0.0	3.8	9.6	11.5
147.5°	0.0	0.0	1.9	7.7	9.6
150°	0.0	0.0	1.9	5.8	7.7
152.5°	0.0	0.0	0.0	3.8	5.8
155°	0.0	0.0	0.0	1.9	3.8
157.5°	0.0	0.0	0.0	0.0	1.9
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	17.26	18.80	17.74	19.26	19.75	19.24	20.78	19.71	21.24	21.73
	3H	18.77	20.17	19.25	20.64	21.17	21.66	23.06	22.14	23.53	24.06
	4H	19.25	20.58	19.76	21.07	21.61	22.84	24.16	23.34	24.65	25.19
	6H	19.53	20.76	20.04	21.26	21.82	24.06	25.29	24.58	25.79	26.35
	8H	19.58	20.76	20.11	21.29	21.86	24.68	25.86	25.21	26.39	26.95
	12H	19.59	20.73	20.13	21.25	21.85	25.35	26.48	25.88	27.00	27.60
4H	2H	18.13	19.46	18.63	19.94	20.49	19.68	21.00	20.18	21.49	22.04
	3H	19.87	21.00	20.39	21.53	22.10	22.32	23.45	22.84	23.98	24.55
	4H	20.48	21.52	21.02	22.06	22.66	23.68	24.71	24.21	25.25	25.85
	6H	20.88	21.80	21.44	22.37	22.98	25.10	26.01	25.65	26.58	27.19
	8H	20.98	21.84	21.55	22.41	23.03	25.82	26.69	26.39	27.25	27.88
	12H	21.03	21.81	21.62	22.41	23.04	26.62	27.40	27.20	28.00	28.63
8H	4H	21.16	22.02	21.72	22.59	23.21	23.90	24.76	24.46	25.33	25.95
	6H	21.74	22.47	22.34	23.08	23.71	25.50	26.23	26.09	26.84	27.47
	8H	21.93	22.59	22.54	23.21	23.85	26.37	27.03	26.98	27.65	28.29
	12H	22.05	22.64	22.66	23.25	23.96	27.35	27.94	27.96	28.55	29.26
12H	4H	21.35	22.13	21.93	22.73	23.36	23.91	24.69	24.50	25.29	25.92
	6H	22.04	22.70	22.64	23.32	23.96	25.54	26.20	26.14	26.82	27.46
	8H	22.32	22.91	22.93	23.52	24.23	26.48	27.07	27.09	27.68	28.39

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-5

Test Date: 11/18/2025

Luminaire Tested: 4ASL-2-50-UNV-OPL-1_600mA

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

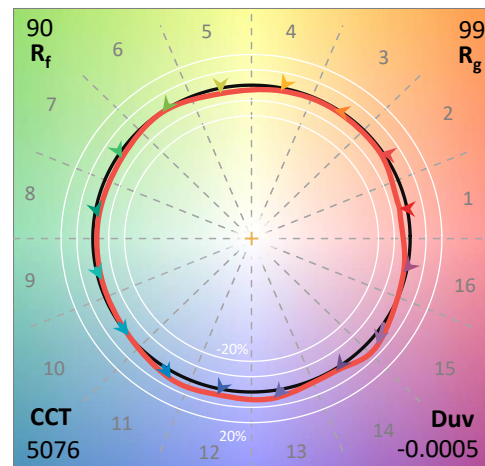
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-5
 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-2-50-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 5000K LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K): 5076
 CIE u' : 0.2110
 CIE v' : 0.4830
 Duv: -0.0005
 CIE x: 0.3429
 CIE y: 0.3489
 CIE z: 0.3082
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 572
 Purity: 7.553016
 R_f: 90.4
 R_g: 99

CRI (Ra): 94.9
 R1: 96.7
 R2: 98.2
 R3: 96.6
 R4: 95.6
 R5: 95.1
 R6: 93.6
 R7: 94.0
 R8: 89.6
 R9: 74.0
 R10: 93.9
 R11: 96.2
 R12: 72.4
 R13: 98.1
 R14: 97.8
 R15: 95.6



Test Conditions

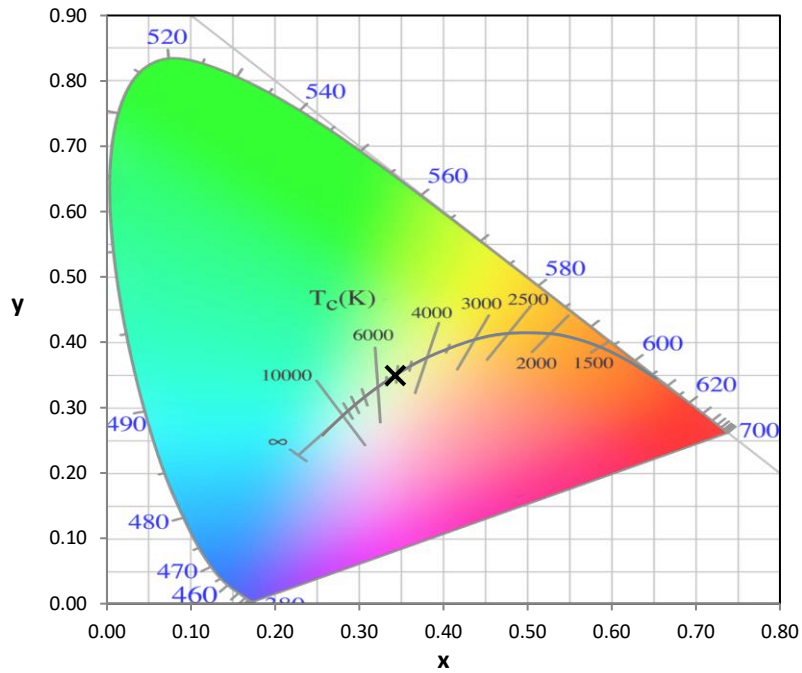
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-5

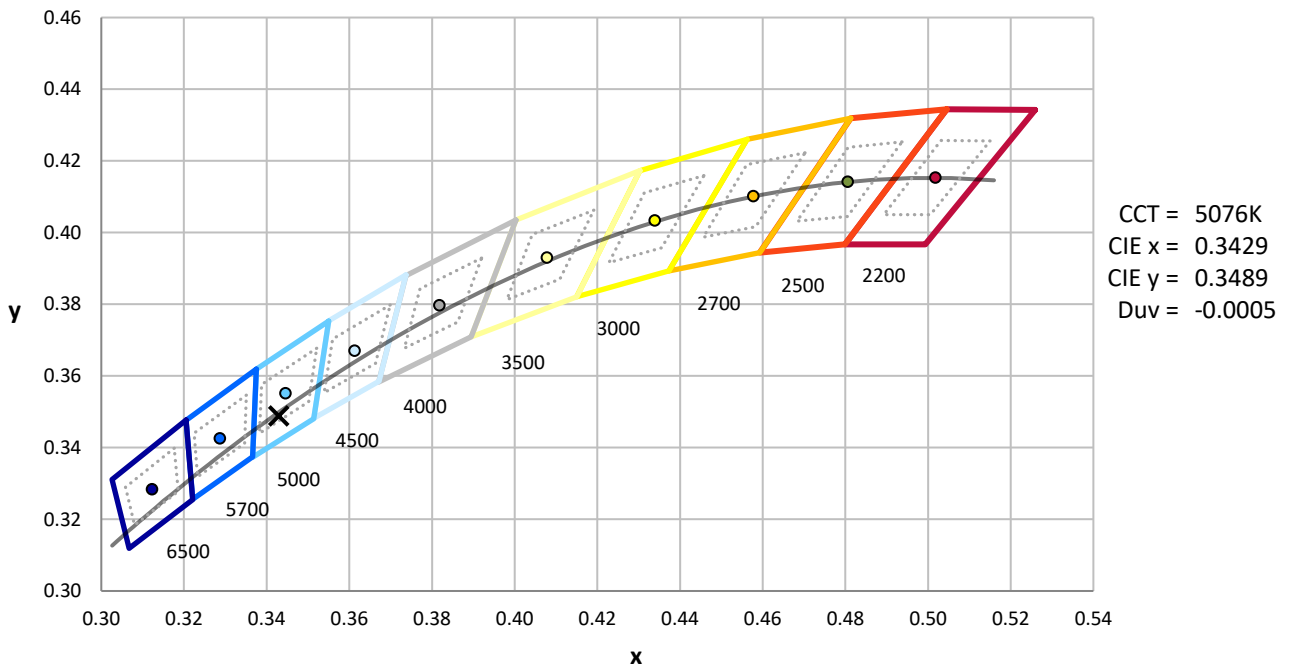
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2511-597-5

CIE 1931 Chromaticity Diagram



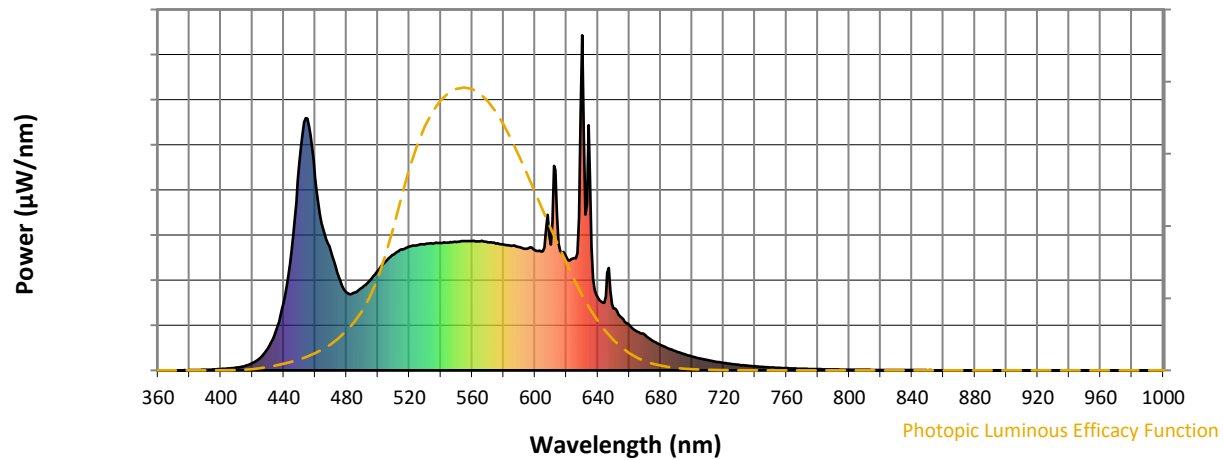
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2511-597-5

Photopic Flux vs. Wavelength

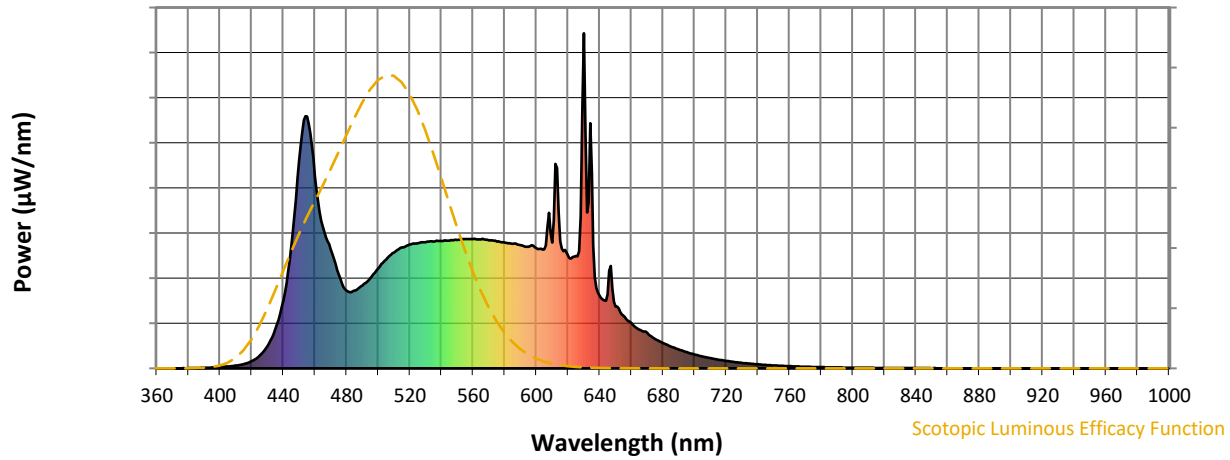


Photopic Lumens: NR

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	248	NR	620	337	NR	750	9	NR	880	0	NR
365	0	NR	495	269	NR	625	335	NR	755	8	NR	885	0	NR
370	0	NR	500	298	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	325	NR	635	580	NR	765	6	NR	895	0	NR
380	1	NR	510	346	NR	640	216	NR	770	5	NR	900	0	NR
385	1	NR	515	361	NR	645	221	NR	775	4	NR	905	0	NR
390	2	NR	520	369	NR	650	185	NR	780	4	NR	910	0	NR
395	3	NR	525	374	NR	655	158	NR	785	3	NR	915	0	NR
400	4	NR	530	376	NR	660	136	NR	790	3	NR	920	0	NR
405	6	NR	535	379	NR	665	116	NR	795	2	NR	925	0	NR
410	8	NR	540	381	NR	670	106	NR	800	2	NR	930	0	NR
415	13	NR	545	381	NR	675	88	NR	805	2	NR	935	0	NR
420	22	NR	550	383	NR	680	76	NR	810	2	NR	940	0	NR
425	37	NR	555	386	NR	685	65	NR	815	1	NR	945	0	NR
430	66	NR	560	386	NR	690	56	NR	820	1	NR	950	0	NR
435	119	NR	565	385	NR	695	48	NR	825	1	NR	955	0	NR
440	203	NR	570	382	NR	700	41	NR	830	1	NR	960	0	NR
445	359	NR	575	379	NR	705	35	NR	835	1	NR	965	0	NR
450	620	NR	580	376	NR	710	30	NR	840	1	NR	970	0	NR
455	752	NR	585	372	NR	715	26	NR	845	1	NR	975	0	NR
460	576	NR	590	368	NR	720	22	NR	850	1	NR	980	0	NR
465	423	NR	595	363	NR	725	19	NR	855	0	NR	985	0	NR
470	354	NR	600	358	NR	730	16	NR	860	0	NR	990	0	NR
475	280	NR	605	355	NR	735	14	NR	865	0	NR	995	0	NR
480	232	NR	610	375	NR	740	12	NR	870	0	NR	1000	0	NR
485	232	NR	615	379	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-5

Scotopic Flux vs. Wavelength



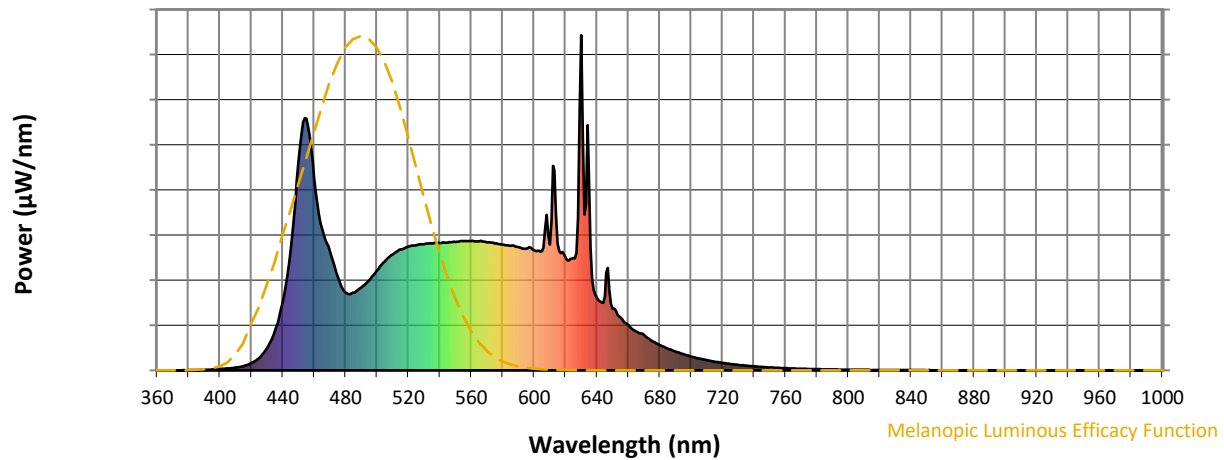
Scotopic Lumens: NR

S/P: 2.12

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	248	NR	620	337	NR	750	9	NR	880	0	NR
365	0	NR	495	269	NR	625	335	NR	755	8	NR	885	0	NR
370	0	NR	500	298	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	325	NR	635	580	NR	765	6	NR	895	0	NR
380	1	NR	510	346	NR	640	216	NR	770	5	NR	900	0	NR
385	1	NR	515	361	NR	645	221	NR	775	4	NR	905	0	NR
390	2	NR	520	369	NR	650	185	NR	780	4	NR	910	0	NR
395	3	NR	525	374	NR	655	158	NR	785	3	NR	915	0	NR
400	4	NR	530	376	NR	660	136	NR	790	3	NR	920	0	NR
405	6	NR	535	379	NR	665	116	NR	795	2	NR	925	0	NR
410	8	NR	540	381	NR	670	106	NR	800	2	NR	930	0	NR
415	13	NR	545	381	NR	675	88	NR	805	2	NR	935	0	NR
420	22	NR	550	383	NR	680	76	NR	810	2	NR	940	0	NR
425	37	NR	555	386	NR	685	65	NR	815	1	NR	945	0	NR
430	66	NR	560	386	NR	690	56	NR	820	1	NR	950	0	NR
435	119	NR	565	385	NR	695	48	NR	825	1	NR	955	0	NR
440	203	NR	570	382	NR	700	41	NR	830	1	NR	960	0	NR
445	359	NR	575	379	NR	705	35	NR	835	1	NR	965	0	NR
450	620	NR	580	376	NR	710	30	NR	840	1	NR	970	0	NR
455	752	NR	585	372	NR	715	26	NR	845	1	NR	975	0	NR
460	576	NR	590	368	NR	720	22	NR	850	1	NR	980	0	NR
465	423	NR	595	363	NR	725	19	NR	855	0	NR	985	0	NR
470	354	NR	600	358	NR	730	16	NR	860	0	NR	990	0	NR
475	280	NR	605	355	NR	735	14	NR	865	0	NR	995	0	NR
480	232	NR	610	375	NR	740	12	NR	870	0	NR	1000	0	NR
485	232	NR	615	379	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.65

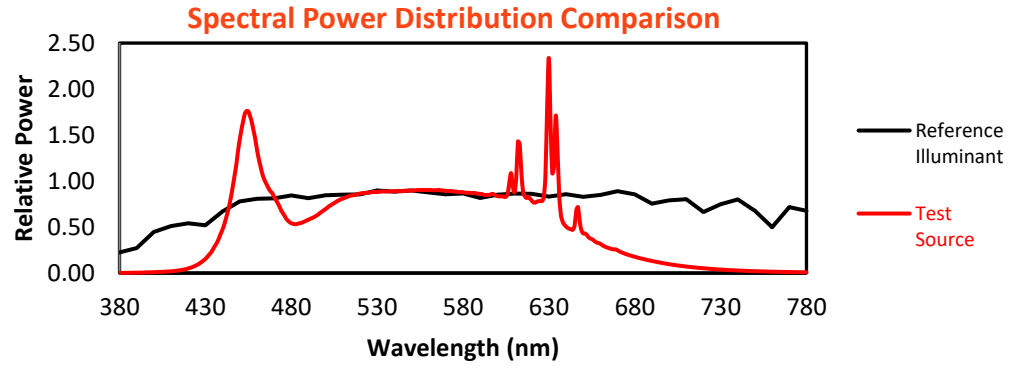
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	248	NR	620	337	NR	750	9	NR	880	0	NR
365	0	NR	495	269	NR	625	335	NR	755	8	NR	885	0	NR
370	0	NR	500	298	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	325	NR	635	580	NR	765	6	NR	895	0	NR
380	1	NR	510	346	NR	640	216	NR	770	5	NR	900	0	NR
385	1	NR	515	361	NR	645	221	NR	775	4	NR	905	0	NR
390	2	NR	520	369	NR	650	185	NR	780	4	NR	910	0	NR
395	3	NR	525	374	NR	655	158	NR	785	3	NR	915	0	NR
400	4	NR	530	376	NR	660	136	NR	790	3	NR	920	0	NR
405	6	NR	535	379	NR	665	116	NR	795	2	NR	925	0	NR
410	8	NR	540	381	NR	670	106	NR	800	2	NR	930	0	NR
415	13	NR	545	381	NR	675	88	NR	805	2	NR	935	0	NR
420	22	NR	550	383	NR	680	76	NR	810	2	NR	940	0	NR
425	37	NR	555	386	NR	685	65	NR	815	1	NR	945	0	NR
430	66	NR	560	386	NR	690	56	NR	820	1	NR	950	0	NR
435	119	NR	565	385	NR	695	48	NR	825	1	NR	955	0	NR
440	203	NR	570	382	NR	700	41	NR	830	1	NR	960	0	NR
445	359	NR	575	379	NR	705	35	NR	835	1	NR	965	0	NR
450	620	NR	580	376	NR	710	30	NR	840	1	NR	970	0	NR
455	752	NR	585	372	NR	715	26	NR	845	1	NR	975	0	NR
460	576	NR	590	368	NR	720	22	NR	850	1	NR	980	0	NR
465	423	NR	595	363	NR	725	19	NR	855	0	NR	985	0	NR
470	354	NR	600	358	NR	730	16	NR	860	0	NR	990	0	NR
475	280	NR	605	355	NR	735	14	NR	865	0	NR	995	0	NR
480	232	NR	610	375	NR	740	12	NR	870	0	NR	1000	0	NR
485	232	NR	615	379	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-5

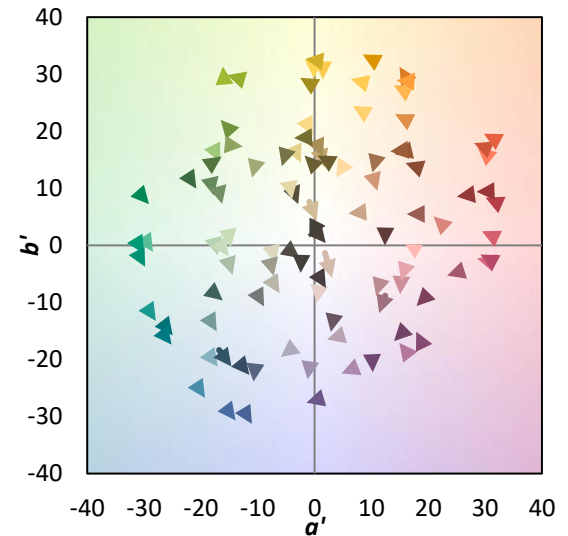
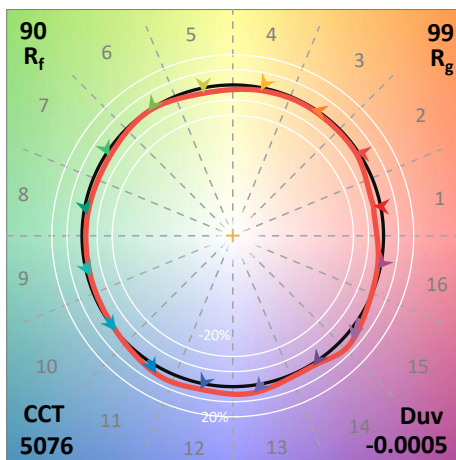
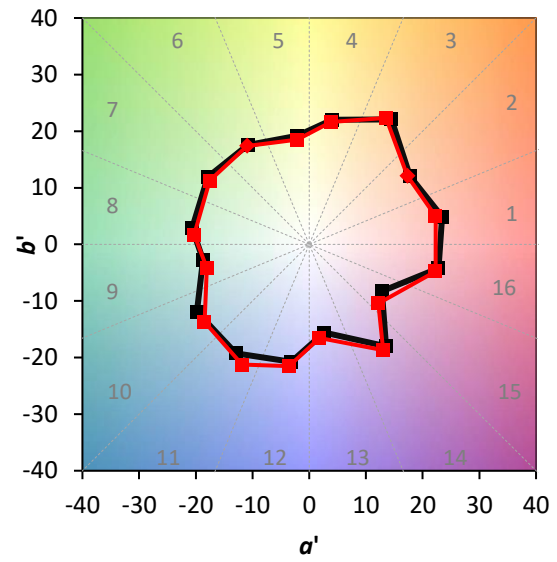
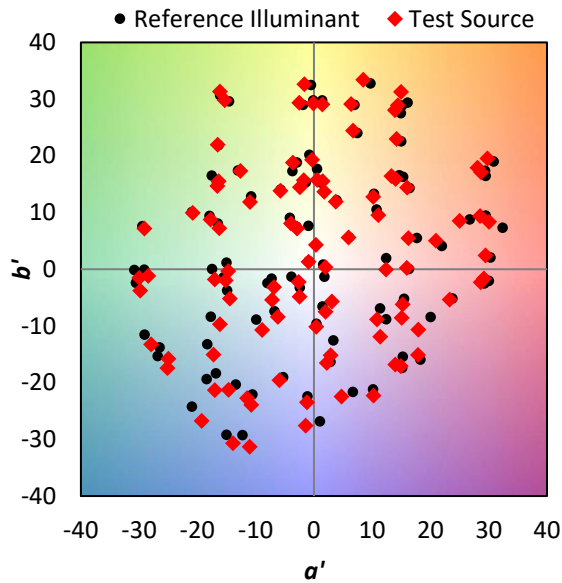
TM-30-18

Summary

$R_f = 90.4$
 $R_g = 99$
 $\text{CIE } R_a = 94.9$
 $R_9 = 74.0$

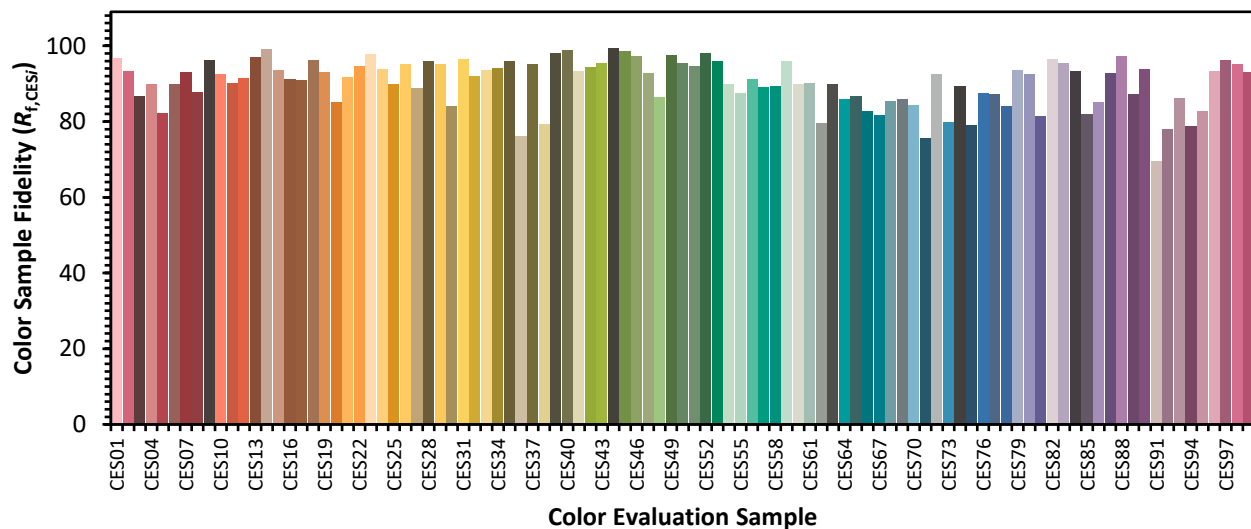


Color Vector Graphics

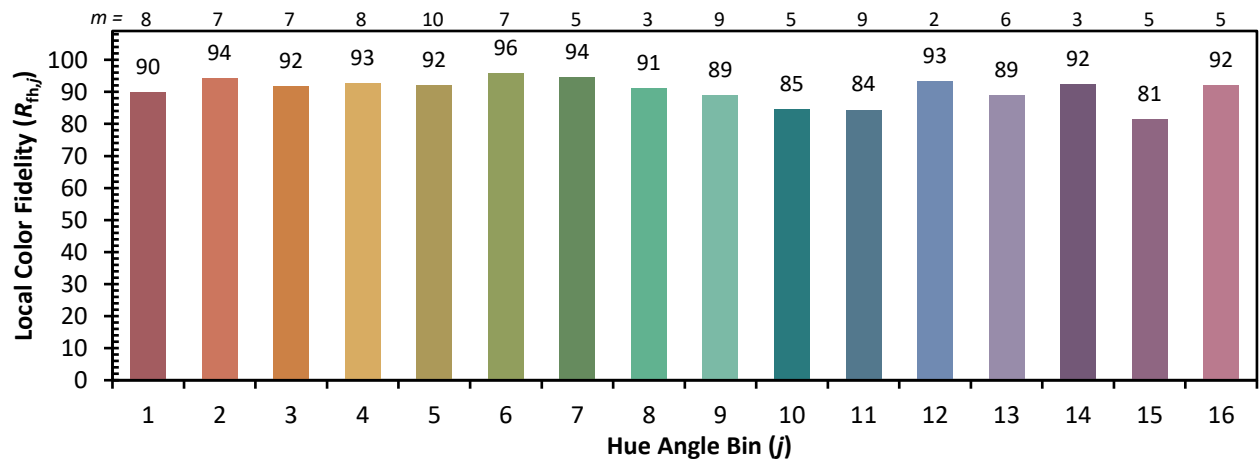
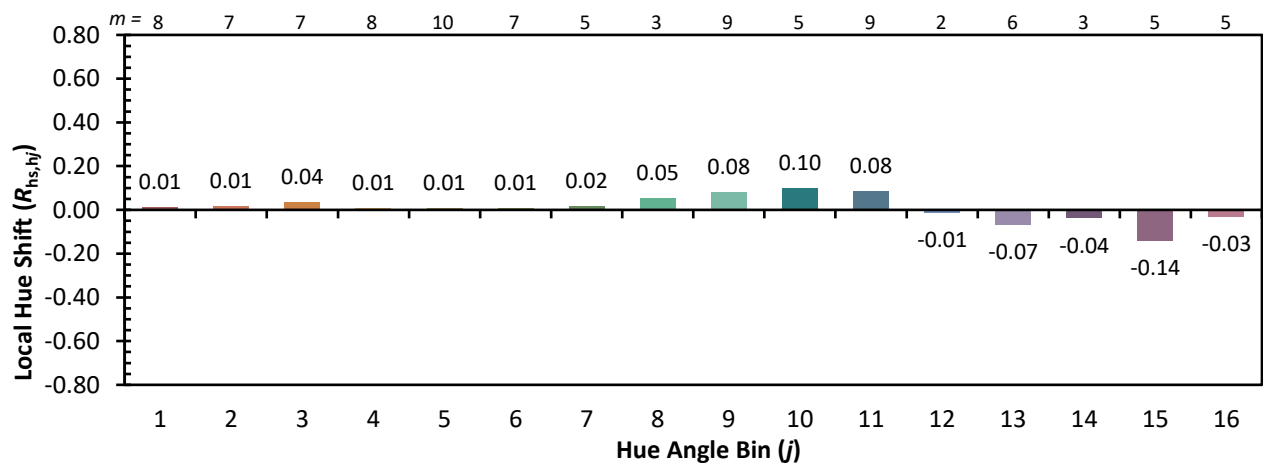
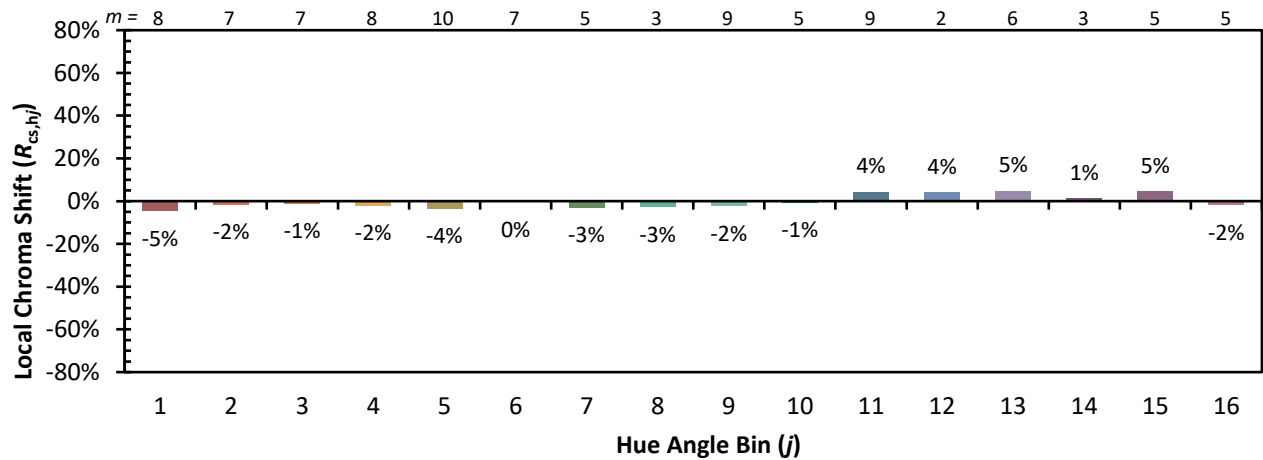


Individual Sample Fidelity Index ($R_{f,i}$)

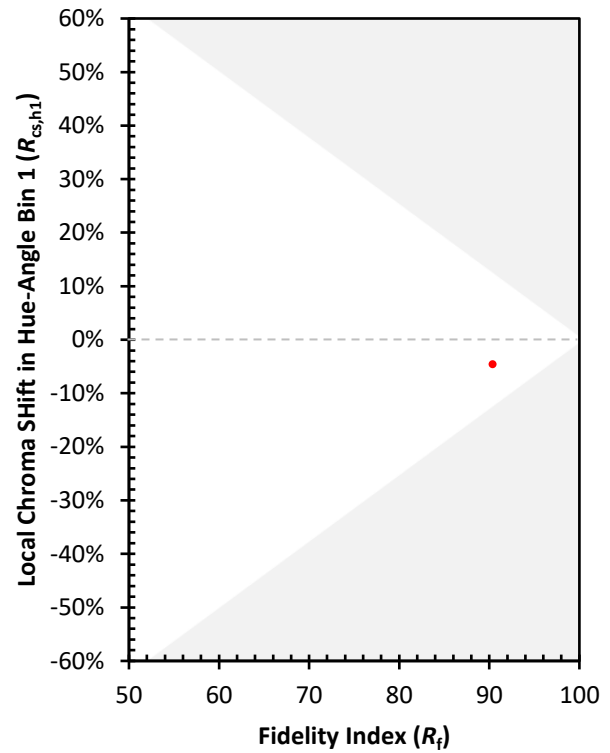
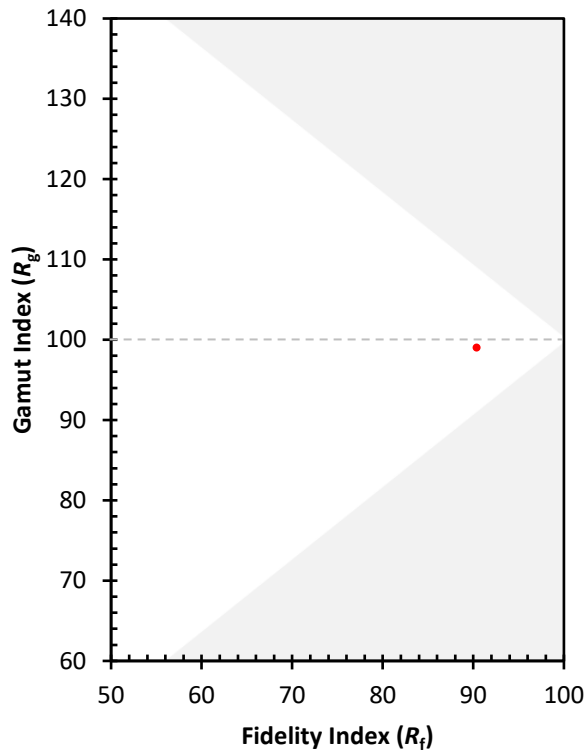
CES01 = 85	CES26 = 95	CES51 = 95	CES76 = 87
CES02 = 61	CES27 = 89	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 84
CES04 = 69	CES29 = 95	CES54 = 90	CES79 = 94
CES05 = 48	CES30 = 84	CES55 = 88	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 91	CES81 = 81
CES07 = 41	CES32 = 92	CES57 = 89	CES82 = 97
CES08 = 40	CES33 = 94	CES58 = 89	CES83 = 95
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 90	CES85 = 82
CES11 = 56	CES36 = 76	CES61 = 90	CES86 = 85
CES12 = 62	CES37 = 95	CES62 = 80	CES87 = 93
CES13 = 42	CES38 = 79	CES63 = 90	CES88 = 97
CES14 = 74	CES39 = 98	CES64 = 86	CES89 = 87
CES15 = 71	CES40 = 99	CES65 = 87	CES90 = 94
CES16 = 47	CES41 = 93	CES66 = 83	CES91 = 70
CES17 = 48	CES42 = 94	CES67 = 82	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 85	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 86	CES94 = 79
CES20 = 65	CES45 = 99	CES70 = 84	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 76	CES96 = 93
CES22 = 77	CES47 = 93	CES72 = 92	CES97 = 96
CES23 = 91	CES48 = 86	CES73 = 80	CES98 = 95
CES24 = 90	CES49 = 98	CES74 = 89	CES99 = 93
CES25 = 70	CES50 = 96	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)