

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: P1356754

Luminaire Tested: 1ASL4-35VHE-3-27-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356754
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: 1ASL4-35VHE-3-27-UNV
Description: 1FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

Summary

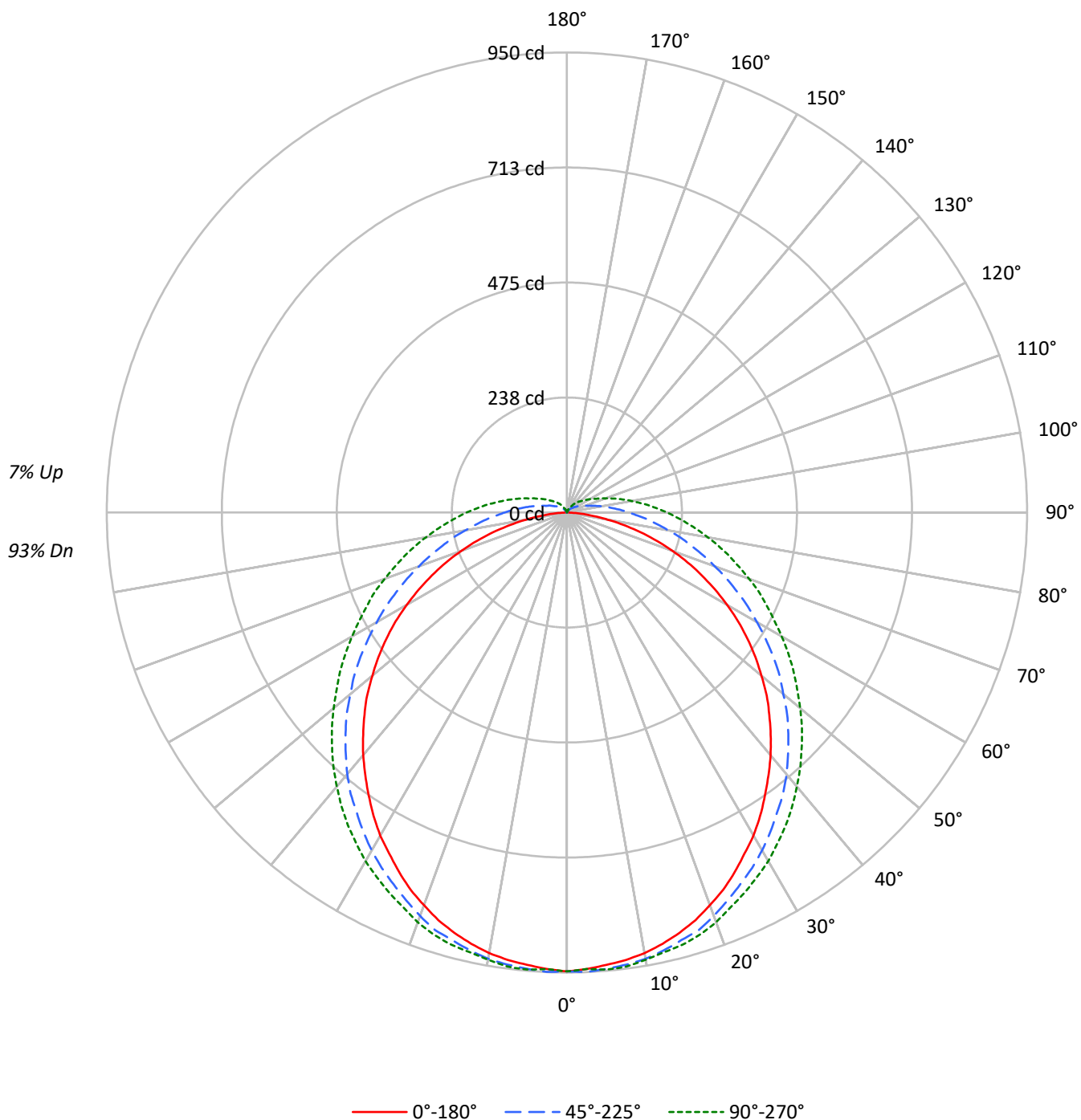
Lumens per Lamp: N/A
Luminaire Lumens: 3222.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 0.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 31.6
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

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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	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	32	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31251	31251	31251
5°	30760	30517	30535
10°	30373	29782	29765
15°	29823	28915	29110
20°	29155	28088	28373
25°	28414	27087	27533
30°	27636	26204	26821
35°	26723	25225	26032
40°	25852	24320	25199
45°	24914	23251	24363
50°	23864	22115	23496
55°	22716	21015	22712
60°	21287	19752	21919
65°	19526	18521	21264
70°	17348	17283	20747
75°	14375	16098	20393
80°	10270	15081	20243
85°	5054	14452	20542

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	2.8
10°-20°	258.0	8.0
20°-30°	390.1	12.1
30°-40°	472.3	14.7
40°-50°	496.1	15.4
50°-60°	462.8	14.4
60°-70°	382.5	11.9
70°-80°	275.4	8.5
80°-90°	171.2	5.3
90°-100°	100.3	3.1
100°-110°	57.4	1.8
110°-120°	32.4	1.0
120°-130°	18.6	0.6
130°-140°	10.0	0.3
140°-150°	4.2	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	738.0	22.9
0°-40°	1210.3	37.6
0°-60°	2169.2	67.3
0°-90°	2998.3	93.1
90°-120°	190.0	5.9
90°-150°	222.9	6.9
90°-180°	224.0	7.0
0°-180°	3222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	938	946	946	946	948	89
15°	898	910	914	920	924	253
25°	820	833	847	859	867	378
35°	713	733	756	778	788	446
45°	591	613	646	674	686	456
55°	455	481	520	558	571	407
65°	307	337	388	437	455	304
75°	158	197	266	323	347	167
85°	30	89	168	227	248	36
90°	0	53	128	183	207	1
95°	0	34	96	148	169	0
105°	0	12	53	93	108	0
115°	0	6	32	57	67	0
125°	0	4	20	37	43	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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.6	947.6	947.6	947.6	947.6
2.5°	943.7	949.6	949.6	943.7	943.7
5°	937.8	945.7	945.7	945.7	947.6
7.5°	931.9	941.7	941.7	941.7	945.7
10°	924.0	933.8	935.8	935.8	937.8
12.5°	912.2	924.0	926.0	927.9	929.9
15°	898.4	910.2	914.1	920.1	924.0
17.5°	882.6	896.4	904.3	910.2	914.1
20°	862.9	876.7	886.6	894.4	900.4
22.5°	843.2	855.0	866.9	876.7	882.6
25°	819.6	833.4	847.2	859.0	866.9
27.5°	794.0	809.7	827.5	841.2	849.1
30°	770.3	786.1	805.8	823.5	831.4
32.5°	742.7	760.5	782.1	799.9	809.7
35°	713.2	732.9	756.5	778.2	788.1
37.5°	683.6	703.3	732.9	754.6	764.4
40°	654.1	673.8	705.3	728.9	738.8
42.5°	622.6	642.3	675.8	701.4	713.2
45°	591.0	612.7	646.2	673.8	685.6
47.5°	559.5	581.2	616.7	646.2	658.0
50°	524.1	547.7	583.2	616.7	628.5
52.5°	490.6	514.2	553.6	587.1	598.9
55°	455.1	480.7	520.1	557.5	571.3
57.5°	419.6	445.2	486.6	526.0	541.8
60°	382.2	409.8	453.1	494.5	512.2
62.5°	344.8	374.3	421.6	465.0	482.7
65°	307.3	336.9	388.1	437.4	455.1
67.5°	269.9	301.4	356.6	407.8	429.5
70°	232.5	266.0	325.1	378.3	399.9
72.5°	195.0	230.5	295.5	350.7	372.4
75°	157.6	197.0	266.0	323.1	346.7
77.5°	120.2	165.5	240.4	297.5	321.1
80°	86.7	137.9	212.8	271.9	295.5
82.5°	55.2	110.3	189.1	248.2	271.9
85°	29.6	88.7	167.5	226.6	248.2
87.5°	9.9	69.0	145.8	204.9	226.6
90°	0.0	53.2	128.1	183.2	206.9
92.5°	0.0	41.4	112.3	165.5	187.2
95°	0.0	33.5	96.5	147.8	169.4
97.5°	0.0	27.6	84.7	132.0	151.7
100°	0.0	21.7	72.9	118.2	135.9
102.5°	0.0	17.7	63.0	104.4	122.1
105°	0.0	11.8	53.2	92.6	108.4
107.5°	0.0	9.9	45.3	82.7	96.5
110°	0.0	7.9	41.4	70.9	84.7

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CATALOG NUMBER: 1ASL4-35VHE-3-27-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	5.9	37.4	63.0	76.8
115°	0.0	5.9	31.5	57.1	67.0
117.5°	0.0	5.9	27.6	51.2	61.1
120°	0.0	3.9	25.6	45.3	55.2
122.5°	0.0	3.9	21.7	41.4	49.3
125°	0.0	3.9	19.7	37.4	43.3
127.5°	0.0	2.0	17.7	33.5	39.4
130°	0.0	2.0	15.8	29.6	35.5
132.5°	0.0	2.0	13.8	27.6	33.5
135°	0.0	0.0	11.8	23.6	29.6
137.5°	0.0	0.0	9.9	21.7	25.6
140°	0.0	0.0	7.9	17.7	23.6
142.5°	0.0	0.0	5.9	15.8	19.7
145°	0.0	0.0	5.9	13.8	15.8
147.5°	0.0	0.0	3.9	9.9	13.8
150°	0.0	0.0	2.0	7.9	9.9
152.5°	0.0	0.0	0.0	5.9	7.9
155°	0.0	0.0	0.0	3.9	5.9
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

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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	21.20	22.74	21.67	23.19	23.68	22.98	24.52	23.45	24.98	25.46
	3H	22.70	24.11	23.18	24.57	25.09	25.35	26.75	25.83	27.22	27.74
	4H	23.19	24.52	23.69	25.00	25.54	26.46	27.79	26.96	28.28	28.81
	6H	23.46	24.70	23.98	25.20	25.75	27.59	28.83	28.10	29.32	29.88
	8H	23.52	24.70	24.04	25.22	25.78	28.14	29.33	28.67	29.85	30.41
	12H	23.53	24.67	24.06	25.18	25.77	28.71	29.85	29.24	30.36	30.95
4H	2H	22.03	23.36	22.53	23.84	24.38	23.43	24.76	23.93	25.24	25.78
	3H	23.77	24.90	24.28	25.43	25.99	26.02	27.16	26.54	27.68	28.24
	4H	24.37	25.41	24.91	25.95	26.54	27.31	28.35	27.84	28.88	29.48
	6H	24.78	25.69	25.33	26.25	26.86	28.63	29.54	29.18	30.11	30.71
	8H	24.87	25.73	25.43	26.30	26.92	29.28	30.15	29.84	30.71	31.33
	12H	24.92	25.70	25.50	26.29	26.92	29.97	30.76	30.56	31.35	31.97
8H	4H	25.00	25.87	25.56	26.43	27.05	27.53	28.40	28.10	28.96	29.58
	6H	25.58	26.31	26.17	26.92	27.54	29.03	29.76	29.62	30.36	30.99
	8H	25.76	26.42	26.37	27.04	27.68	29.82	30.48	30.43	31.10	31.74
	12H	25.88	26.47	26.49	27.07	27.78	30.70	31.29	31.30	31.89	32.59
12H	4H	25.17	25.95	25.75	26.55	27.17	27.54	28.33	28.13	28.92	29.54
	6H	25.84	26.50	26.45	27.12	27.76	29.07	29.73	29.67	30.34	30.98
	8H	26.12	26.71	26.72	27.31	28.02	29.93	30.52	30.54	31.13	31.83

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

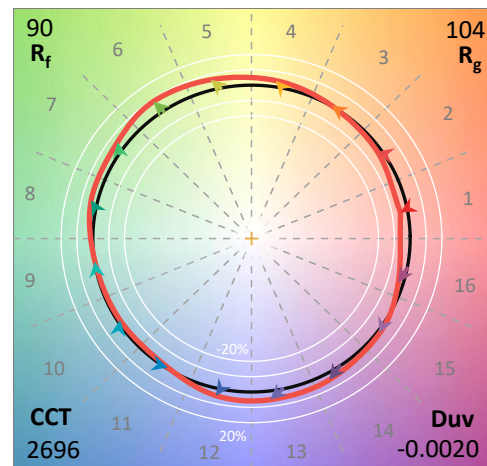
Test Information

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

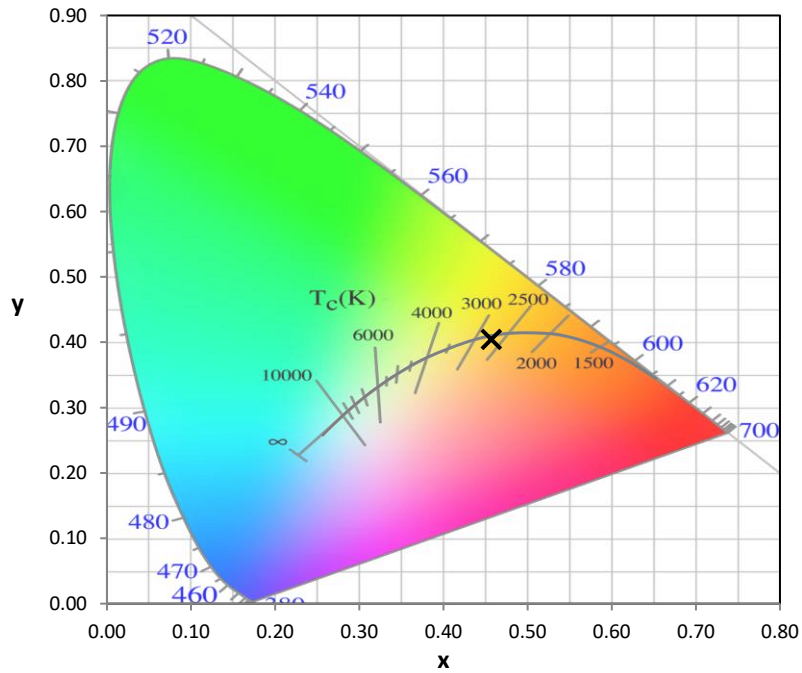
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 24.1

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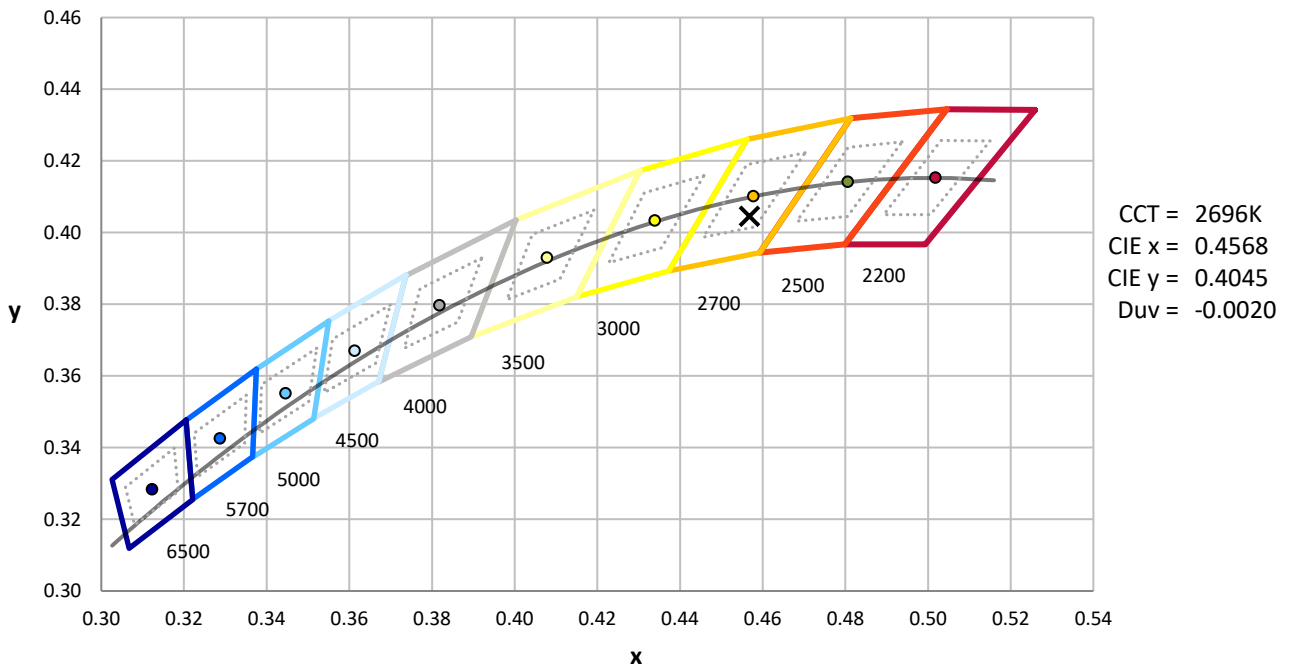
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

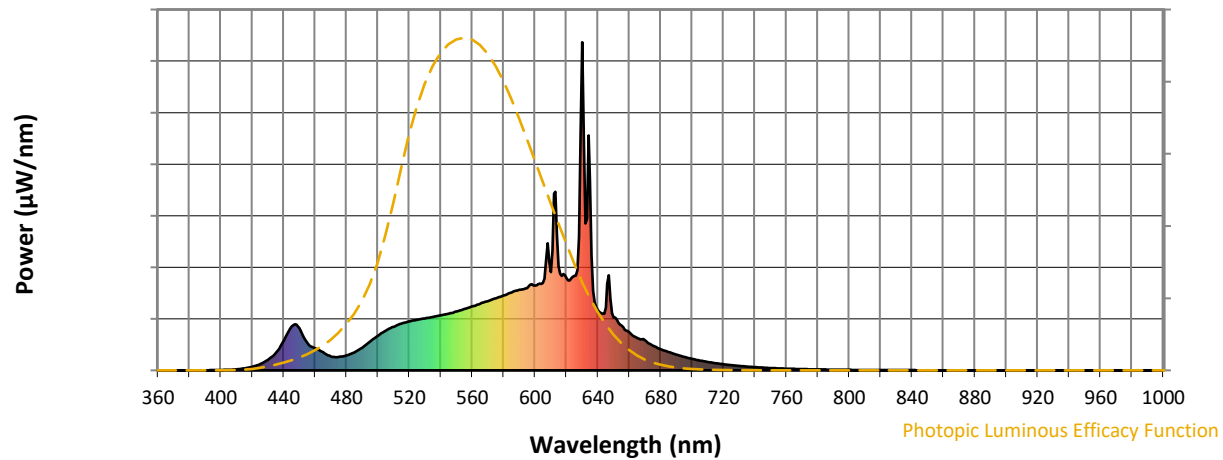


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

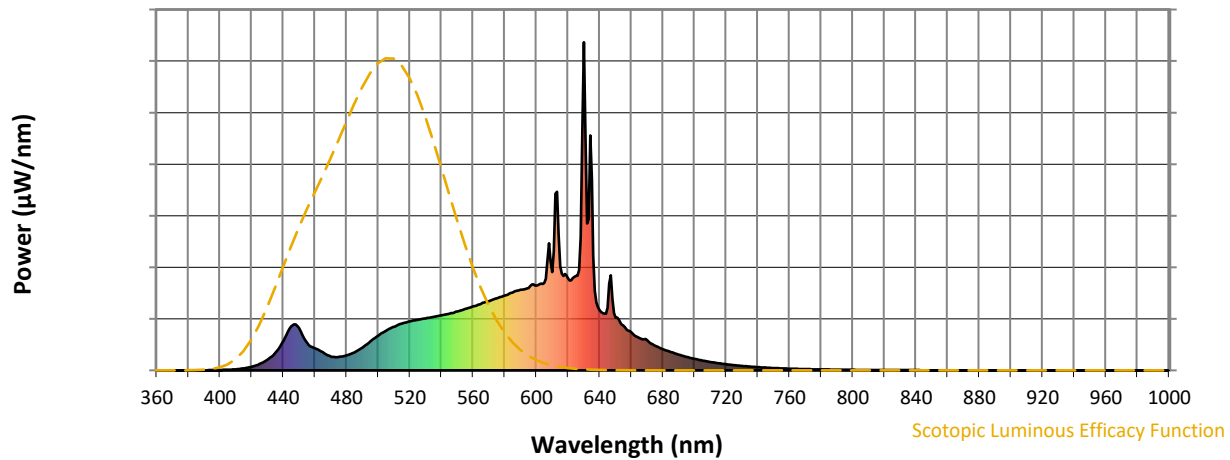


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



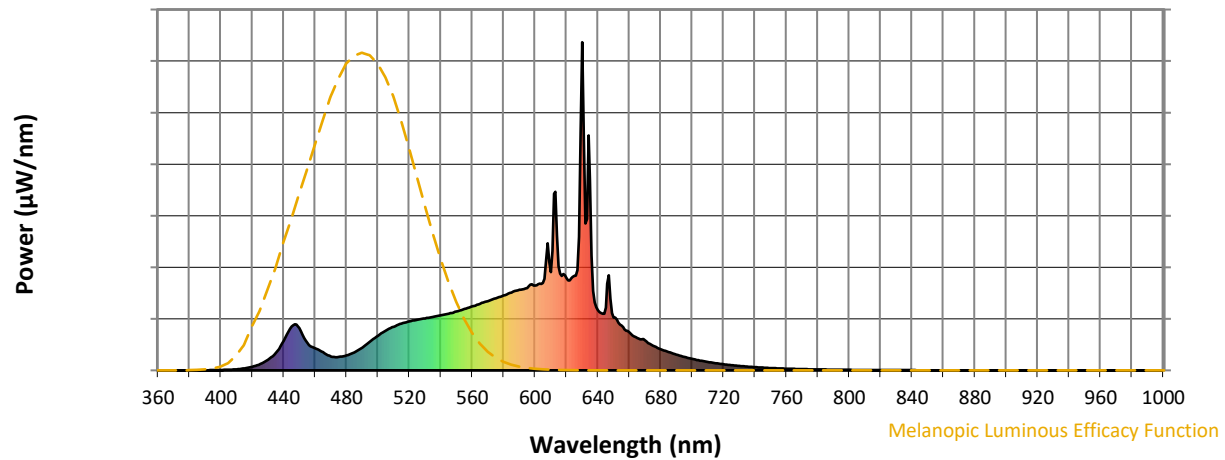
Scotopic Lumens: NR

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

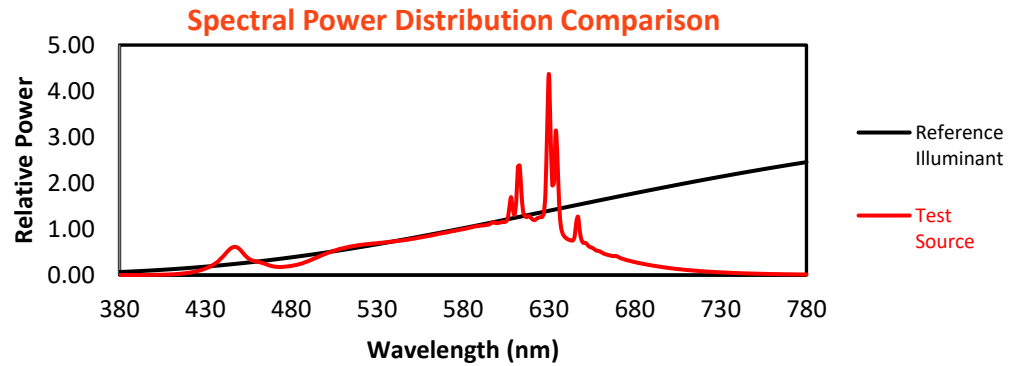
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	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			

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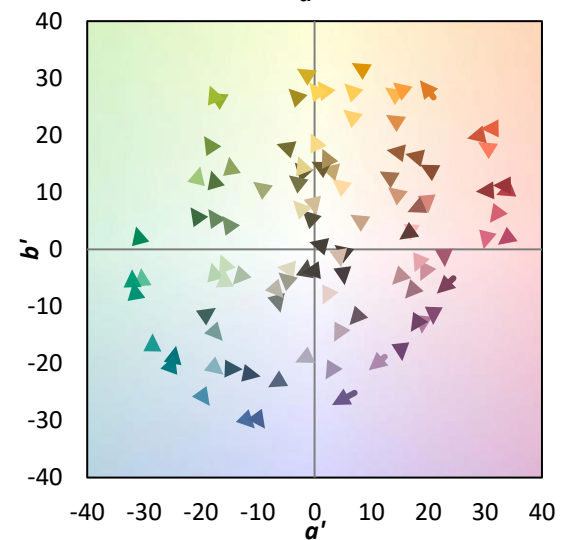
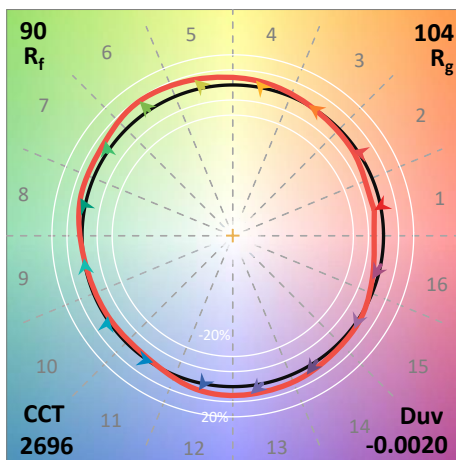
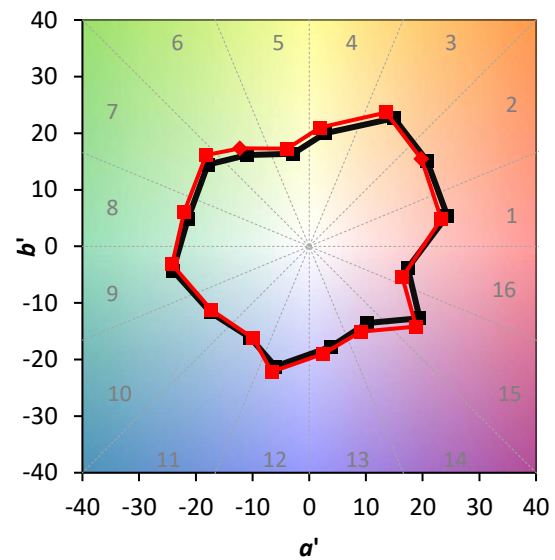
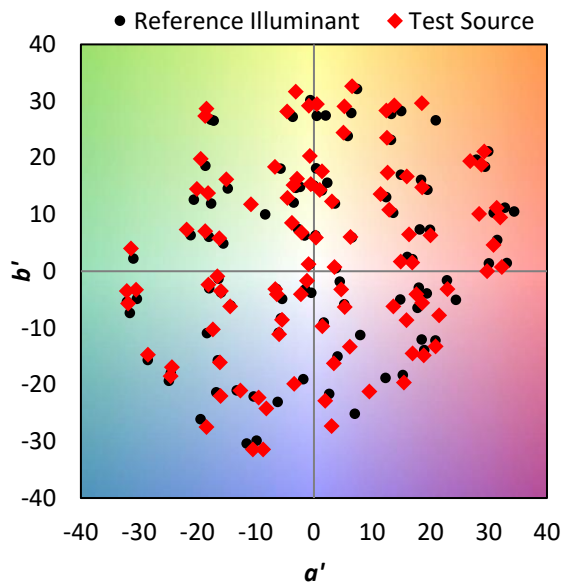
TM-30-18

Summary

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

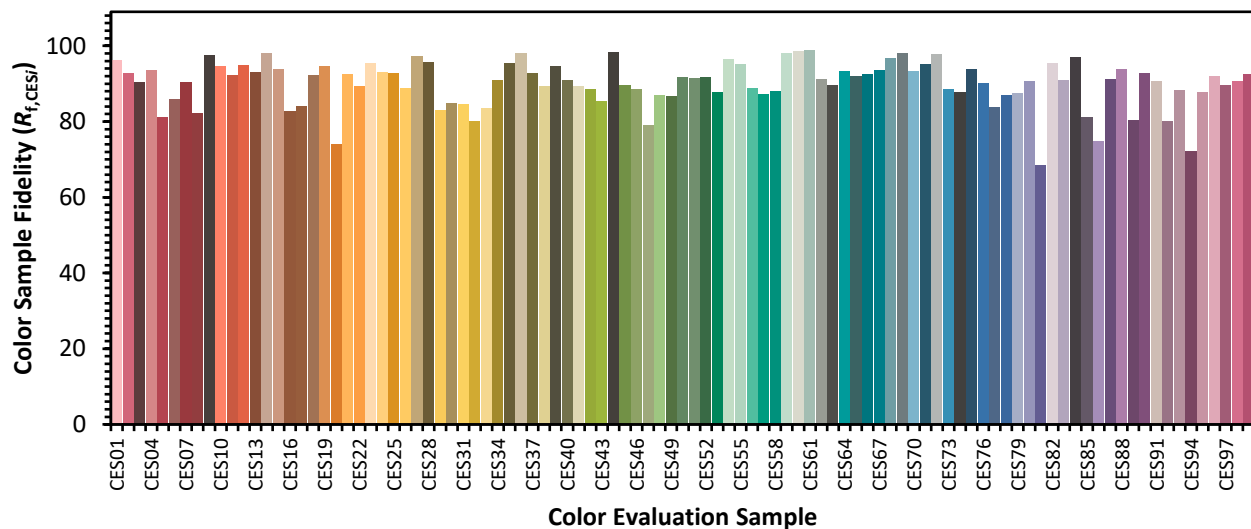


Color Vector Graphics

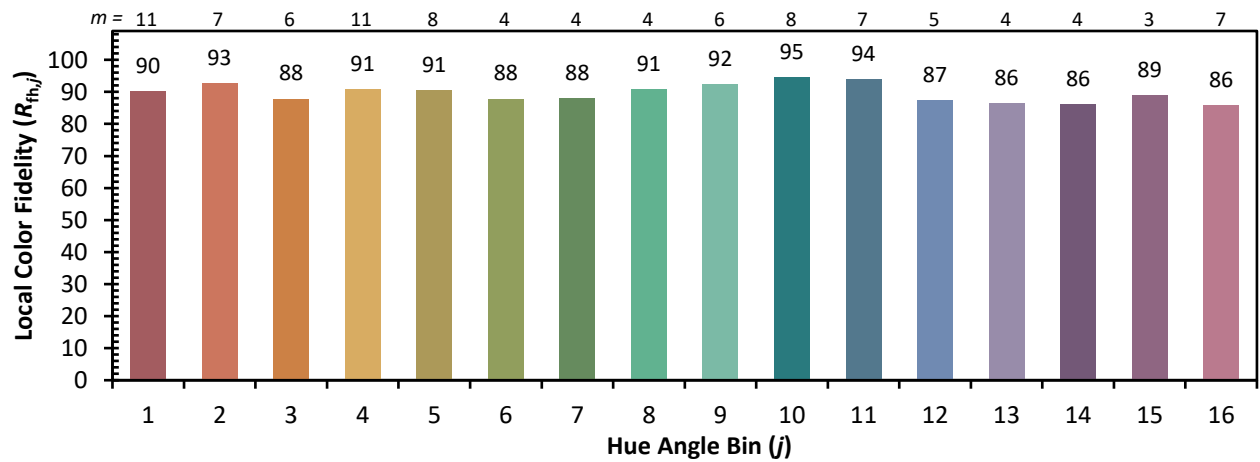
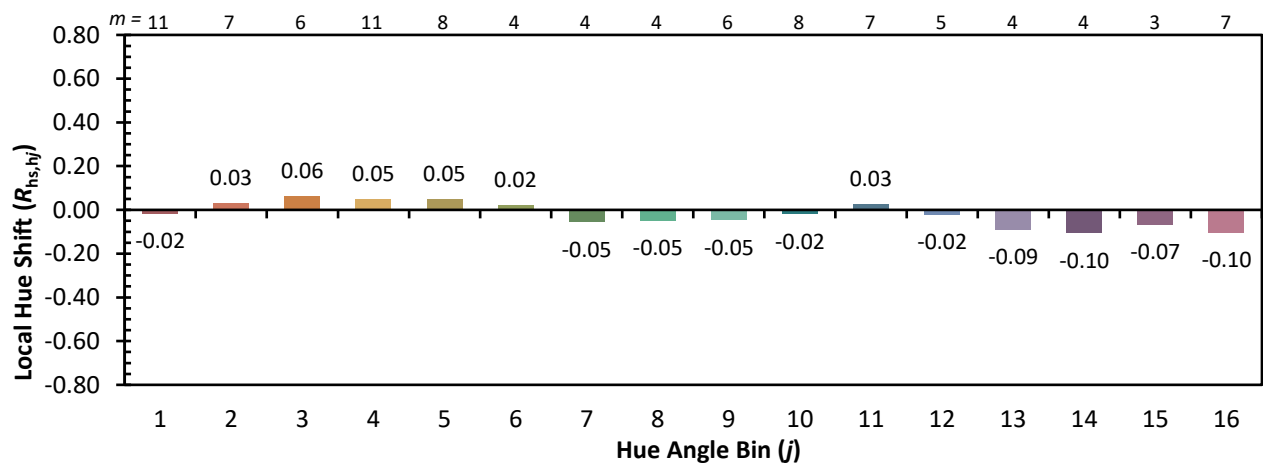
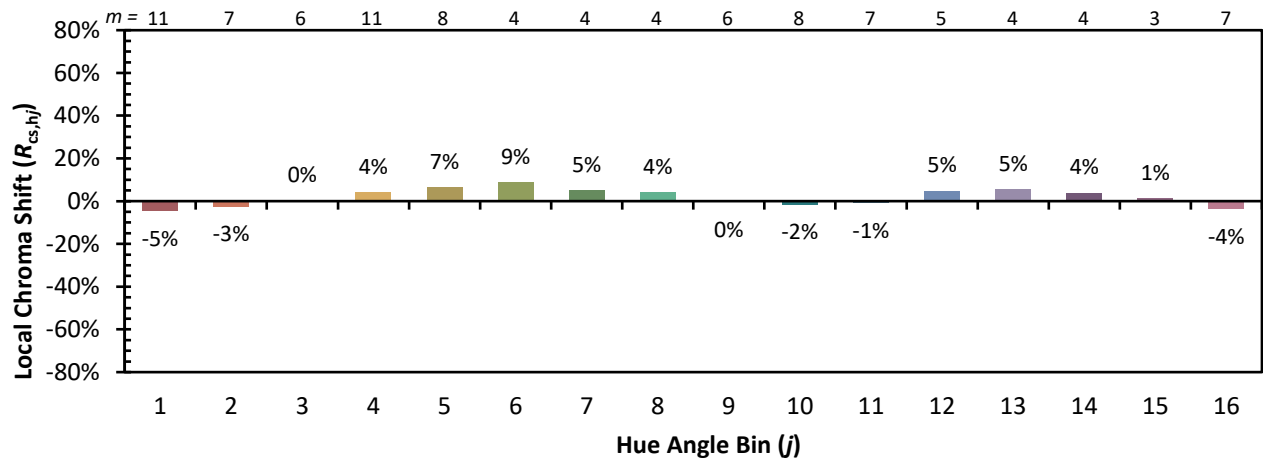


Individual Sample Fidelity Index ($R_{f,i}$)

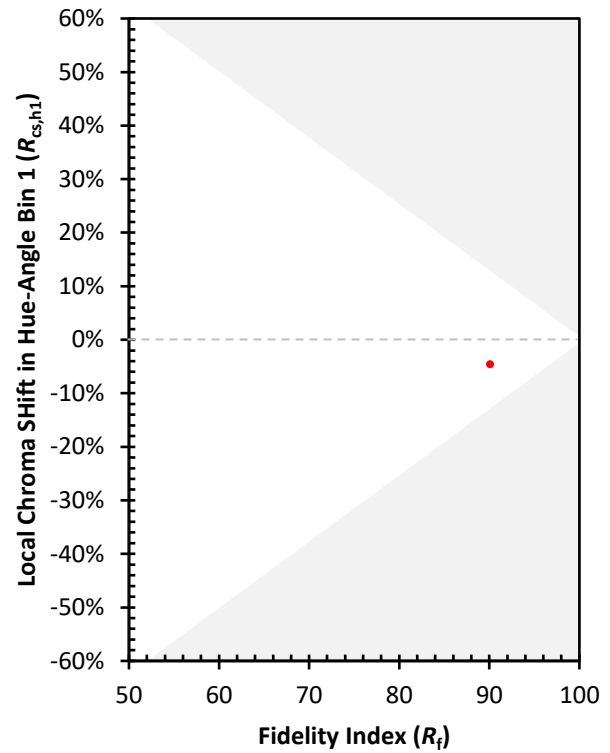
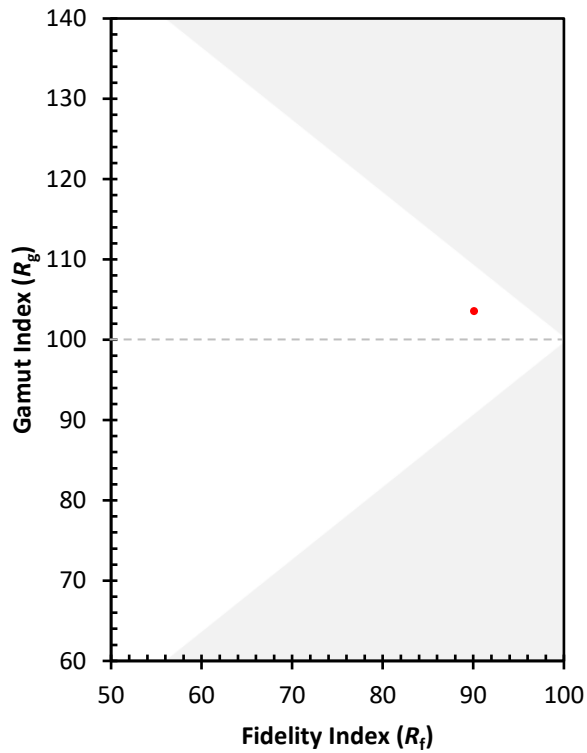
CES01 = 86	CES26 = 89	CES51 = 92	CES76 = 90
CES02 = 64	CES27 = 97	CES52 = 92	CES77 = 84
CES03 = 32	CES28 = 96	CES53 = 88	CES78 = 87
CES04 = 71	CES29 = 83	CES54 = 97	CES79 = 88
CES05 = 51	CES30 = 85	CES55 = 95	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 69
CES07 = 44	CES32 = 80	CES57 = 87	CES82 = 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)