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: P1357539

Luminaire Tested: 8ASL4-35VHE-3-35-UNV

Issue Date: 2/17/2026

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1357539
	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:	8ASL4-35VHE-3-35-UNV
Description:	8FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 3 ROW
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27719.9 lumens
Efficiency:	N/A
Efficacy:	109.7 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):	252.8
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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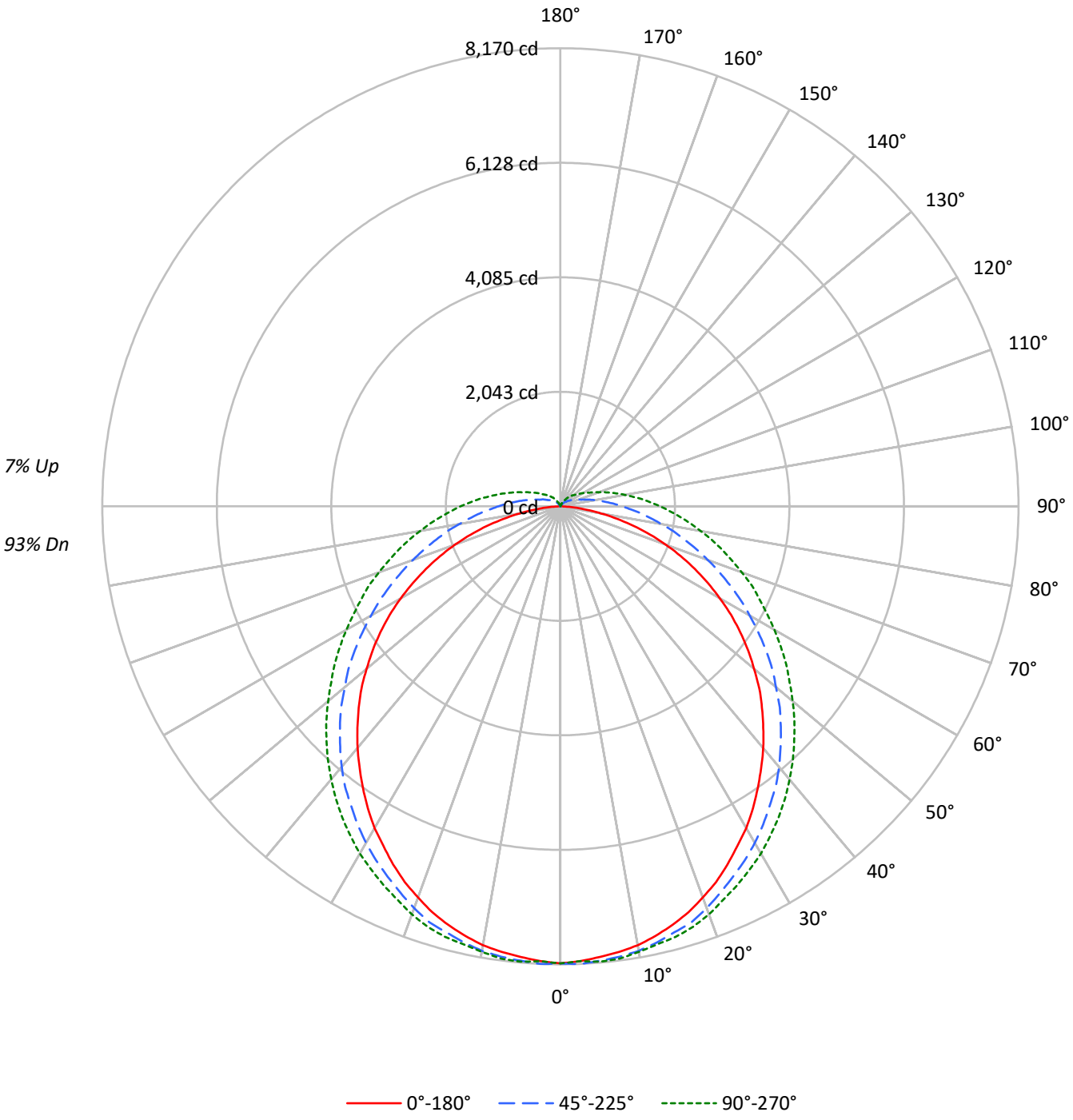
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	32	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32995	32995	32995
5°	32739	32400	32239
10°	32593	31795	31424
15°	32271	31037	30733
20°	31822	30310	29953
25°	31296	29391	29067
30°	30739	28595	28317
35°	30040	27693	27483
40°	29407	26868	26604
45°	28728	25865	25721
50°	27952	24788	24805
55°	27121	23761	23980
60°	26026	22559	23143
65°	24632	21407	22449
70°	22847	20271	21906
75°	20218	19245	21533
80°	16183	18505	21374
85°	10271	18423	21691

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 28728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.1	2.8
10°-20°	2219.7	8.0
20°-30°	3356.0	12.1
30°-40°	4063.6	14.7
40°-50°	4268.1	15.4
50°-60°	3981.9	14.4
60°-70°	3290.8	11.9
70°-80°	2369.5	8.5
80°-90°	1472.4	5.3
90°-100°	862.7	3.1
100°-110°	493.5	1.8
110°-120°	278.7	1.0
120°-130°	160.3	0.6
130°-140°	86.4	0.3
140°-150°	36.3	0.1
150°-160°	6.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6348.9	22.9
0°-40°	10412.5	37.6
0°-60°	18662.5	67.3
0°-90°	25795.2	93.1
90°-120°	1634.9	5.9
90°-150°	1918.0	6.9
90°-180°	1925.0	6.9
0°-180°	27719.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8153	8153	8153	8153	8153	
5°	8068	8136	8136	8136	8153	767
15°	7729	7831	7865	7916	7949	2179
25°	7051	7170	7288	7390	7458	3248
35°	6136	6305	6509	6695	6780	3841
45°	5085	5271	5560	5797	5898	3923
55°	3915	4136	4475	4797	4915	3498
65°	2644	2898	3339	3763	3915	2617
75°	1356	1695	2288	2780	2983	1434
85°	254	763	1441	1949	2136	311
90°	0	458	1102	1576	1780	12
95°	0	288	830	1271	1458	0
105°	0	102	458	797	932	0
115°	0	51	271	492	576	0
125°	0	34	170	322	373	0
135°	0	0	102	203	254	0
145°	0	0	51	119	136	0
155°	0	0	0	34	51	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1357539
CATALOG NUMBER: 8ASL4-35VHE-3-35-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8152.8	*8152.8*	8152.8	8152.8	8152.8
2.5°	*8118.9*	*8169.8*	*8169.8*	*8118.9*	*8118.9*
5°	8068.1	*8135.9*	8135.9	8135.9	8152.8
7.5°	8017.2	*8102.0*	8102.0	8102.0	8135.9
10°	7949.4	*8034.2*	8051.1	8051.1	8068.1
12.5°	7847.7	*7949.4*	7966.4	7983.3	8000.3
15°	7729.1	*7830.8*	7864.7	7915.5	7949.4
17.5°	7593.5	*7712.1*	7779.9	7830.8	7864.7
20°	7424.0	*7542.6*	7627.4	7695.2	7746.0
22.5°	7254.5	*7356.2*	7457.9	7542.6	7593.5
25°	7051.1	*7169.7*	7288.4	7390.1	7457.9
27.5°	6830.7	*6966.3*	7118.9	7237.5	7305.3
30°	6627.3	*6762.9*	6932.4	7085.0	7152.8
32.5°	6390.1	*6542.6*	6729.0	6881.6	6966.3
35°	6135.8	*6305.3*	6508.7	6695.1	6779.9
37.5°	5881.6	*6051.1*	6305.3	6491.7	6576.5
40°	5627.3	*5796.8*	6068.0	6271.4	6356.2
42.5°	5356.1	*5525.6*	5813.8	6034.1	6135.8
45°	5084.9	*5271.4*	5559.5	5796.8	5898.5
47.5°	4813.7	*5000.2*	5305.3	5559.5	5661.2
50°	4508.6	*4712.0*	5017.1	5305.3	5407.0
52.5°	4220.5	*4423.9*	4762.9	5051.0	5152.7
55°	3915.4	*4135.7*	4474.7	4796.8	4915.4
57.5°	3610.3	*3830.6*	4186.6	4525.6	4661.2
60°	3288.2	*3525.5*	3898.4	4254.4	4406.9
62.5°	2966.2	*3220.5*	3627.2	4000.1	4152.7
65°	2644.2	*2898.4*	3339.1	3762.8	3915.4
67.5°	2322.1	*2593.3*	3067.9	3508.6	3695.0
70°	2000.1	*2288.2*	2796.7	3254.3	3440.8
72.5°	1678.0	*1983.1*	2542.5	3017.1	3203.5
75°	1356.0	*1695.0*	2288.2	2779.8	2983.2
77.5°	1033.9	*1423.8*	2067.9	2559.4	2762.8
80°	745.8	*1186.5*	1830.6	2339.1	2542.5
82.5°	474.6	*949.2*	1627.2	2135.7	2339.1
85°	254.2	*762.7*	1440.7	1949.2	2135.7
87.5°	84.7	*593.2*	1254.3	1762.8	1949.2
90°	0.0	*457.6*	1101.7	1576.3	1779.7
92.5°	0.0	*355.9*	966.1	1423.8	1610.2
95°	0.0	*288.1*	830.5	1271.2	1457.7
97.5°	0.0	*237.3*	728.8	1135.6	1305.1
100°	0.0	*186.4*	627.1	1017.0	1169.5
102.5°	0.0	*152.5*	542.4	898.3	1050.9
105°	0.0	*101.7*	457.6	796.6	932.2
107.5°	0.0	*84.7*	389.8	711.9	830.5
110°	0.0	*67.8*	355.9	610.2	728.8

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CATALOG NUMBER: 8ASL4-35VHE-3-35-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	*50.8*	322.0	542.4	661.0
115°	0.0	*50.8*	271.2	491.5	576.3
117.5°	0.0	*50.8*	237.3	440.7	525.4
120°	0.0	*33.9*	220.3	389.8	474.6
122.5°	0.0	*33.9*	186.4	355.9	423.7
125°	0.0	*33.9*	169.5	322.0	372.9
127.5°	0.0	*16.9*	152.5	288.1	339.0
130°	0.0	*16.9*	135.6	254.2	305.1
132.5°	0.0	*16.9*	118.6	237.3	288.1
135°	0.0	*0.0*	101.7	203.4	254.2
137.5°	0.0	*0.0*	84.7	186.4	220.3
140°	0.0	*0.0*	67.8	152.5	203.4
142.5°	0.0	*0.0*	50.8	135.6	169.5
145°	0.0	*0.0*	50.8	118.6	135.6
147.5°	0.0	*0.0*	33.9	84.7	118.6
150°	0.0	*0.0*	16.9	67.8	84.7
152.5°	0.0	*0.0*	0.0	50.8	67.8
155°	0.0	*0.0*	0.0	33.9	50.8
157.5°	0.0	*0.0*	0.0	0.0	16.9
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	21.50	23.04	21.96	23.49	23.97	23.56	25.10	24.03	25.56	26.04
	3H	22.99	24.40	23.47	24.86	25.38	26.05	27.45	26.53	27.92	28.44
	4H	23.47	24.80	23.97	25.29	25.82	27.26	28.59	27.76	29.07	29.61
	6H	23.75	24.99	24.26	25.48	26.04	28.54	29.78	29.06	30.28	30.83
	8H	23.80	24.99	24.33	25.51	26.07	29.21	30.40	29.74	30.92	31.48
	12H	23.81	24.95	24.35	25.47	26.06	29.96	31.10	30.49	31.61	32.20
4H	2H	22.38	23.71	22.88	24.19	24.73	24.00	25.33	24.50	25.81	26.35
	3H	24.12	25.25	24.63	25.78	26.34	26.70	27.84	27.22	28.36	28.92
	4H	24.72	25.76	25.25	26.29	26.89	28.09	29.13	28.62	29.66	30.26
	6H	25.12	26.03	25.67	26.60	27.20	29.56	30.48	30.12	31.04	31.65
	8H	25.21	26.07	25.77	26.64	27.25	30.34	31.20	30.90	31.76	32.38
	12H	25.26	26.04	25.84	26.63	27.25	31.21	31.99	31.79	32.58	33.21
8H	4H	25.41	26.27	25.97	26.84	27.45	28.30	29.17	28.86	29.73	30.35
	6H	25.99	26.72	26.58	27.32	27.95	29.94	30.68	30.54	31.28	31.90
	8H	26.17	26.83	26.78	27.45	28.08	30.86	31.52	31.46	32.13	32.77
	12H	26.29	26.88	26.89	27.48	28.18	31.92	32.51	32.52	33.11	33.81
12H	4H	25.61	26.39	26.19	26.98	27.61	28.31	29.10	28.89	29.69	30.31
	6H	26.29	26.95	26.89	27.57	28.20	29.98	30.64	30.58	31.26	31.89
	8H	26.57	27.16	27.18	27.76	28.47	30.96	31.55	31.57	32.16	32.86

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-1

Test Date: 11/17/2025

Luminaire Tested: 4ASL-2-35-UNV-OPL-1_600mA

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

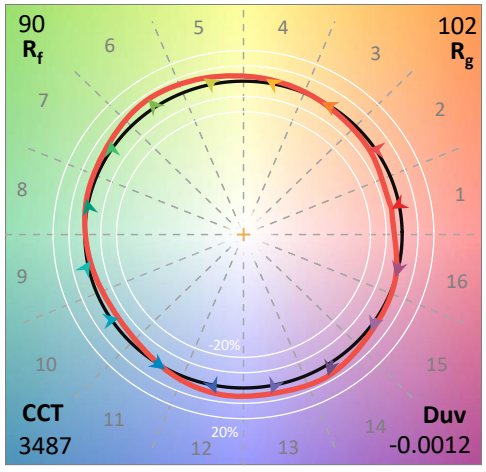
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2511-597-1
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-2-35-UNV-OPL-1_600mA**
Description:	2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K):	3487
CIE u':	0.2366
CIE v':	0.5099
Duv:	-0.0012
CIE x:	0.4047
CIE y:	0.3876
CIE z:	0.2077
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	581
Purity:	37.79273
Rf:	90
Rg:	102.4

CRI (Ra):	92.5
R1:	94.7
R2:	94.3
R3:	92.9
R4:	93.3
R5:	93.9
R6:	93.4
R7:	92.5
R8:	85.2
R9:	61.3
R10:	85.5
R11:	93.7
R12:	80.8
R13:	94.3
R14:	95.1
R15:	90.9



Test Conditions

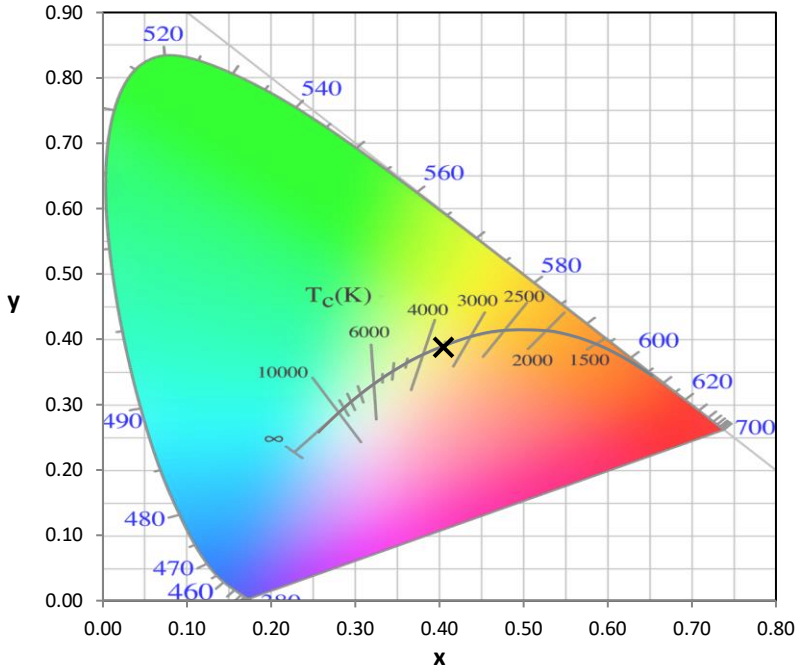
Stabilization Time:	31M
Operation Time:	1H 31M
Sphere Temperature (°C):	24.1

REPORT NUMBER: SP1-2511-597-1

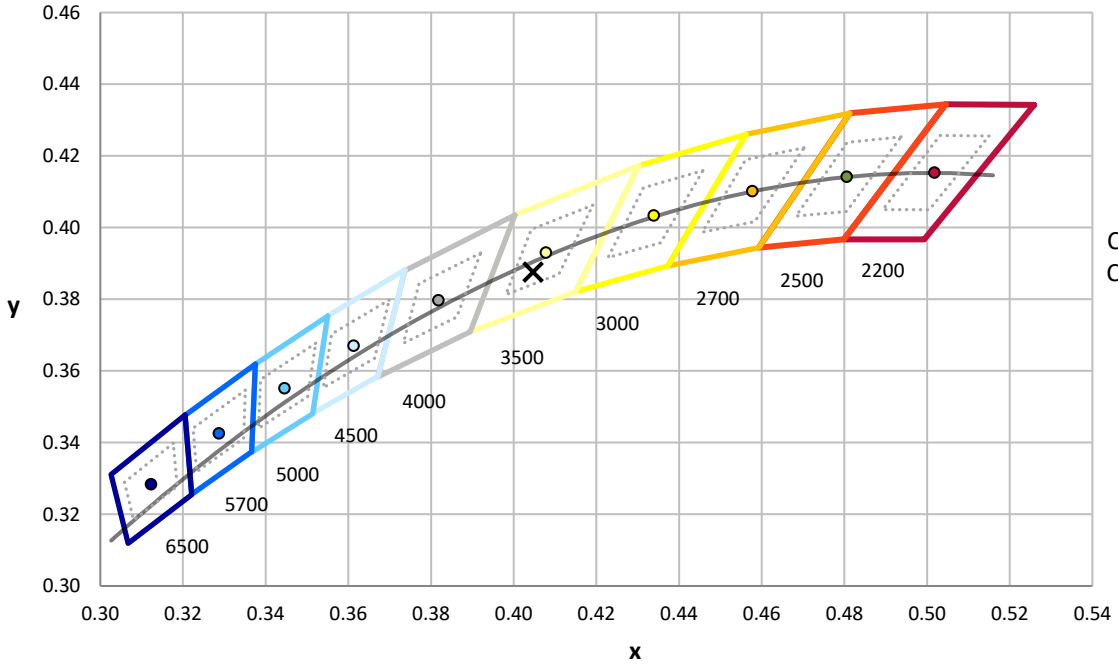
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2511-597-1

CIE 1931 Chromaticity Diagram



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

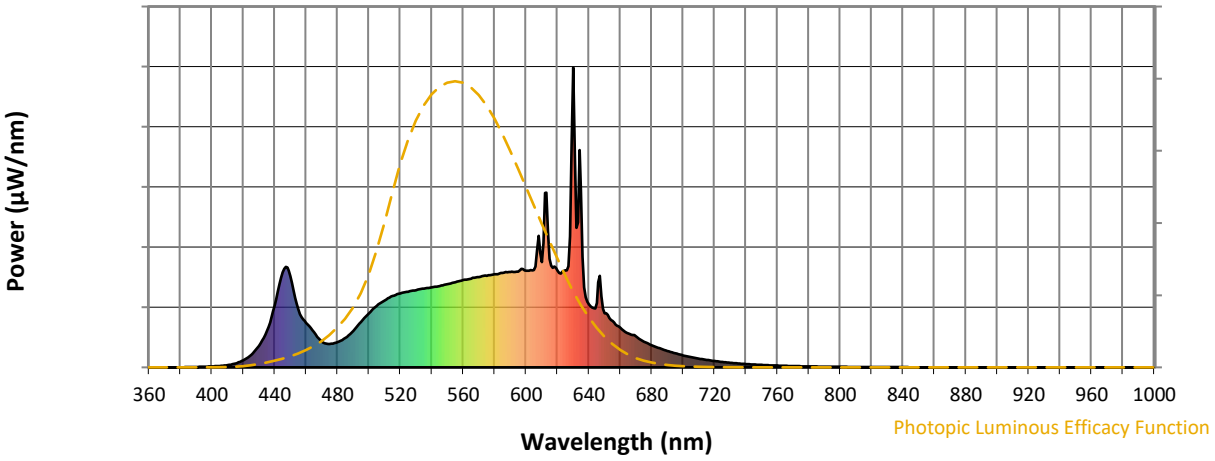


CCT = 3487K
CIE x = 0.4047
CIE y = 0.3876
Duv = -0.0012

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2511-597-1

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

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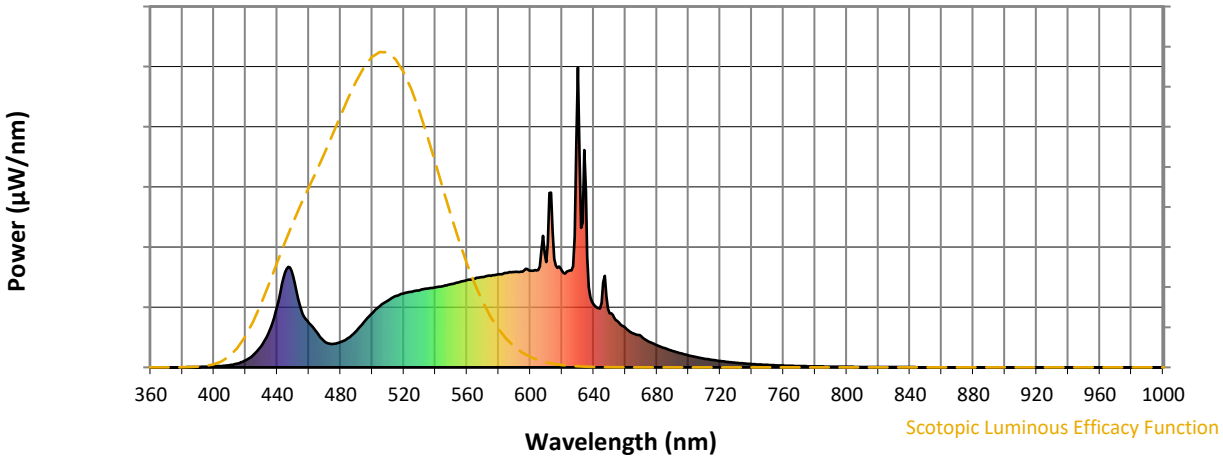
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.58**

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

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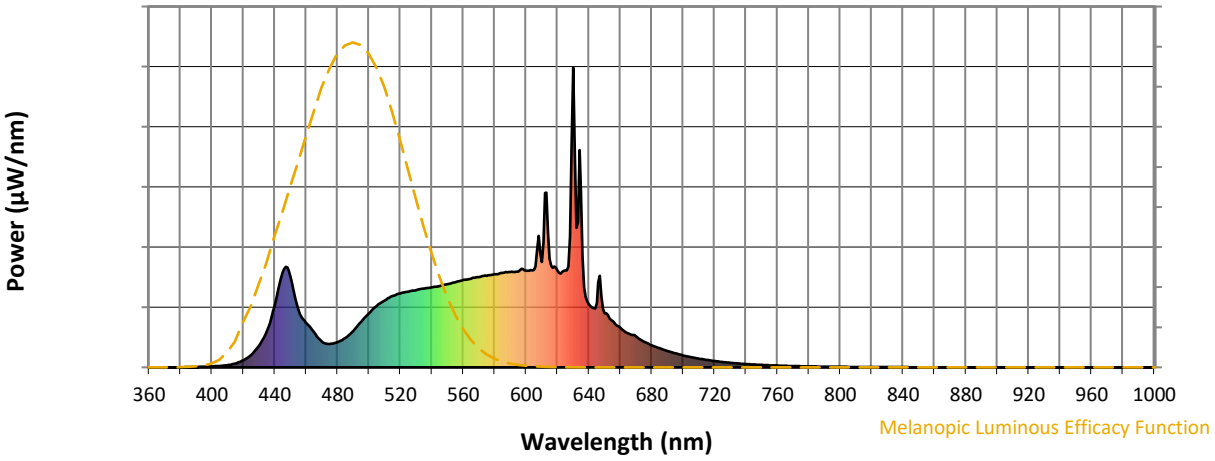
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.15**

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

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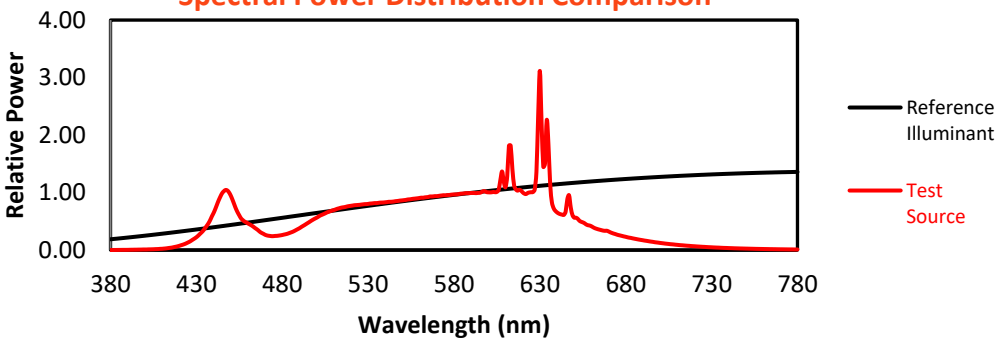
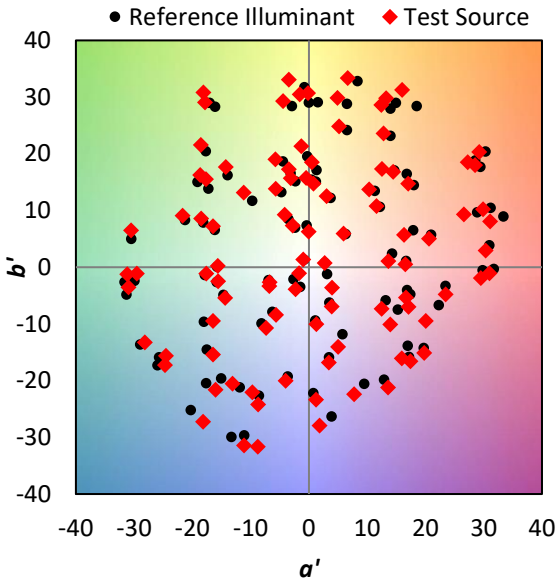
Summary

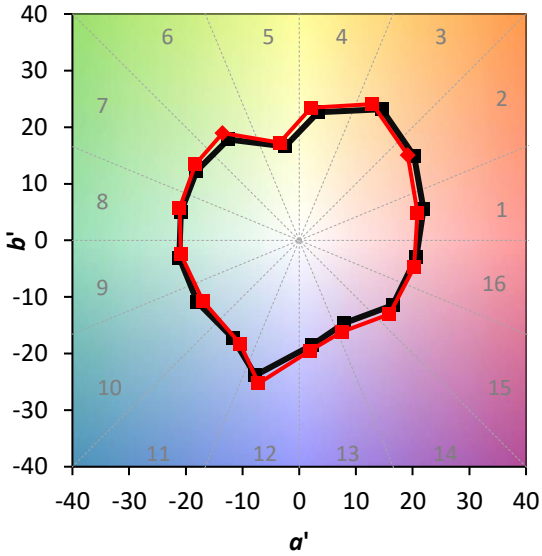
R_f = 90
R_g = 102.4
CIE R_a = 92.5
R_9 = 61.3

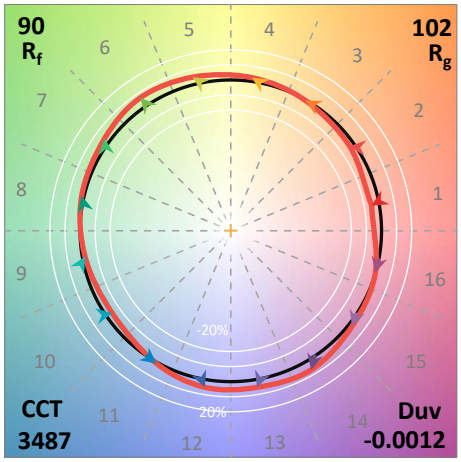
Spectral Power Distribution Comparison

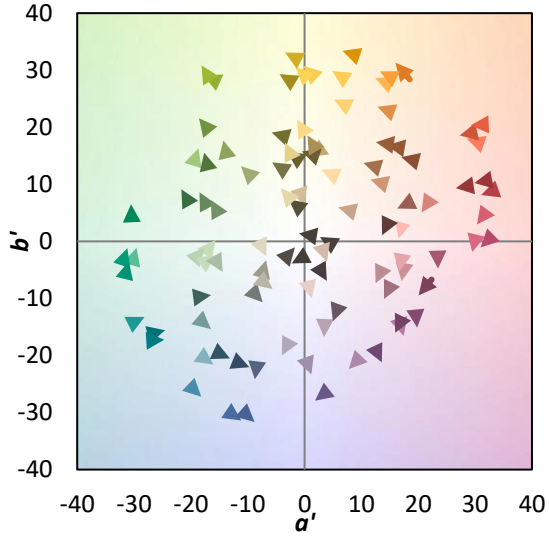


Color Vector Graphics









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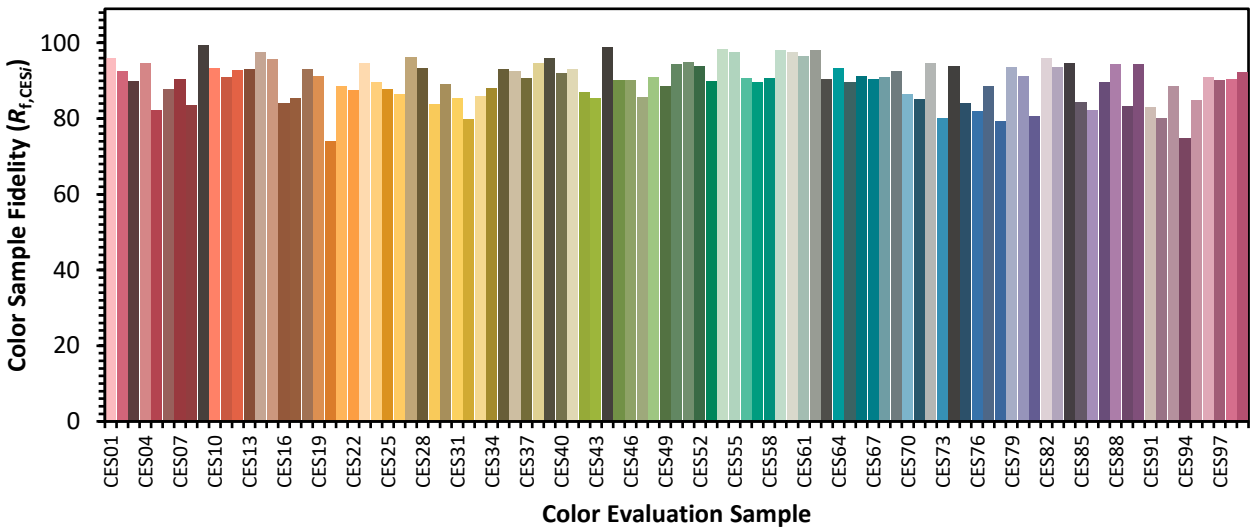
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 82
CES02 = 62	CES27 = 96	CES52 = 94	CES77 = 89
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 84	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 89	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 91	CES81 = 81
CES07 = 43	CES32 = 80	CES57 = 90	CES82 = 96
CES08 = 41	CES33 = 86	CES58 = 91	CES83 = 94
CES09 = 29	CES34 = 88	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 93	CES60 = 97	CES85 = 84
CES11 = 58	CES36 = 93	CES61 = 96	CES86 = 82
CES12 = 64	CES37 = 91	CES62 = 98	CES87 = 90
CES13 = 43	CES38 = 95	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 96	CES64 = 93	CES89 = 83
CES15 = 71	CES40 = 92	CES65 = 90	CES90 = 94
CES16 = 47	CES41 = 93	CES66 = 91	CES91 = 83
CES17 = 49	CES42 = 87	CES67 = 91	CES92 = 80
CES18 = 56	CES43 = 85	CES68 = 91	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 93	CES94 = 75
CES20 = 66	CES45 = 90	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 90	CES71 = 85	CES96 = 91
CES22 = 78	CES47 = 86	CES72 = 95	CES97 = 90
CES23 = 91	CES48 = 91	CES73 = 80	CES98 = 91
CES24 = 90	CES49 = 88	CES74 = 94	CES99 = 92
CES25 = 71	CES50 = 94	CES75 = 84	



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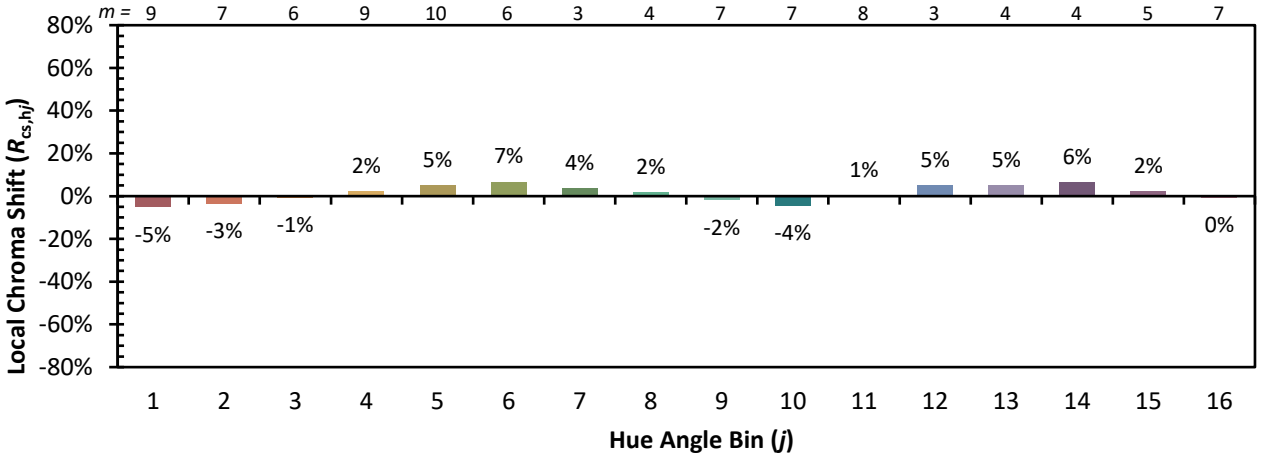
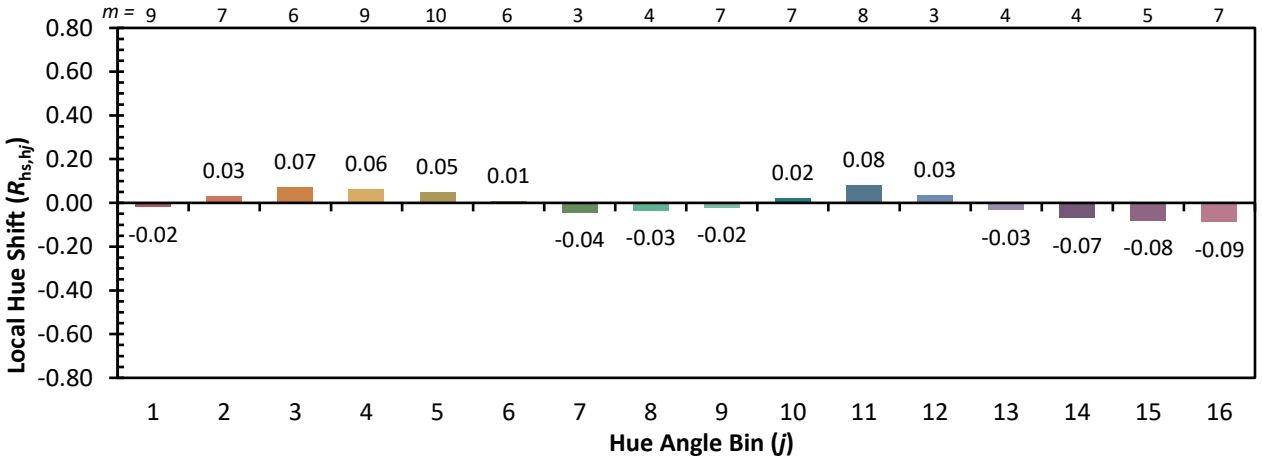
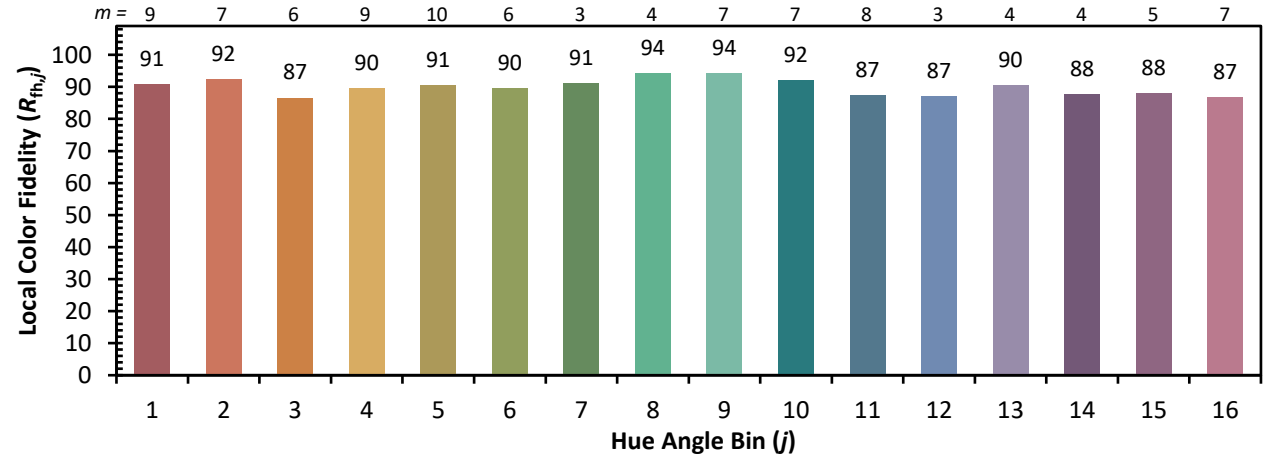
Color Rendition by Hue-Angle Bin







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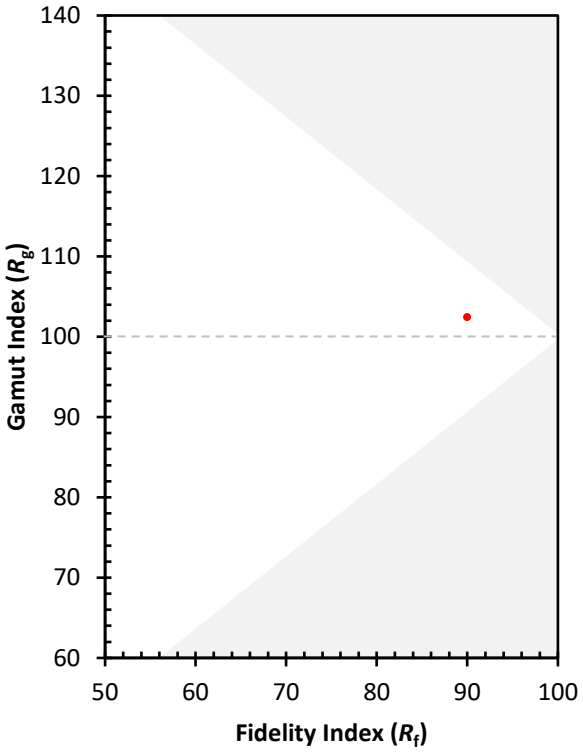
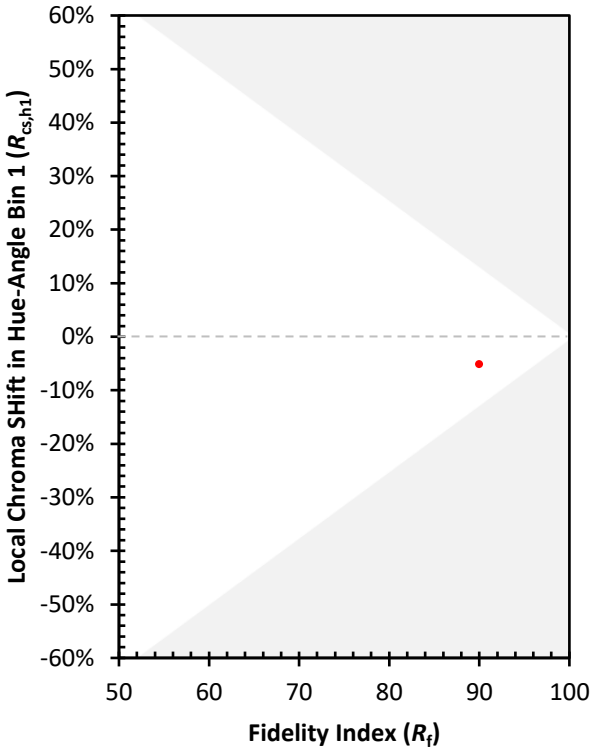
Measure Comparisons





(END OF REPORT)