

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: P1357543

Luminaire Tested: 8ASL4-35VHE-3-A59-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357543
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-A59-UNV
Description: 8FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 3 ROW
Light Source: -
Ballast/Driver: -

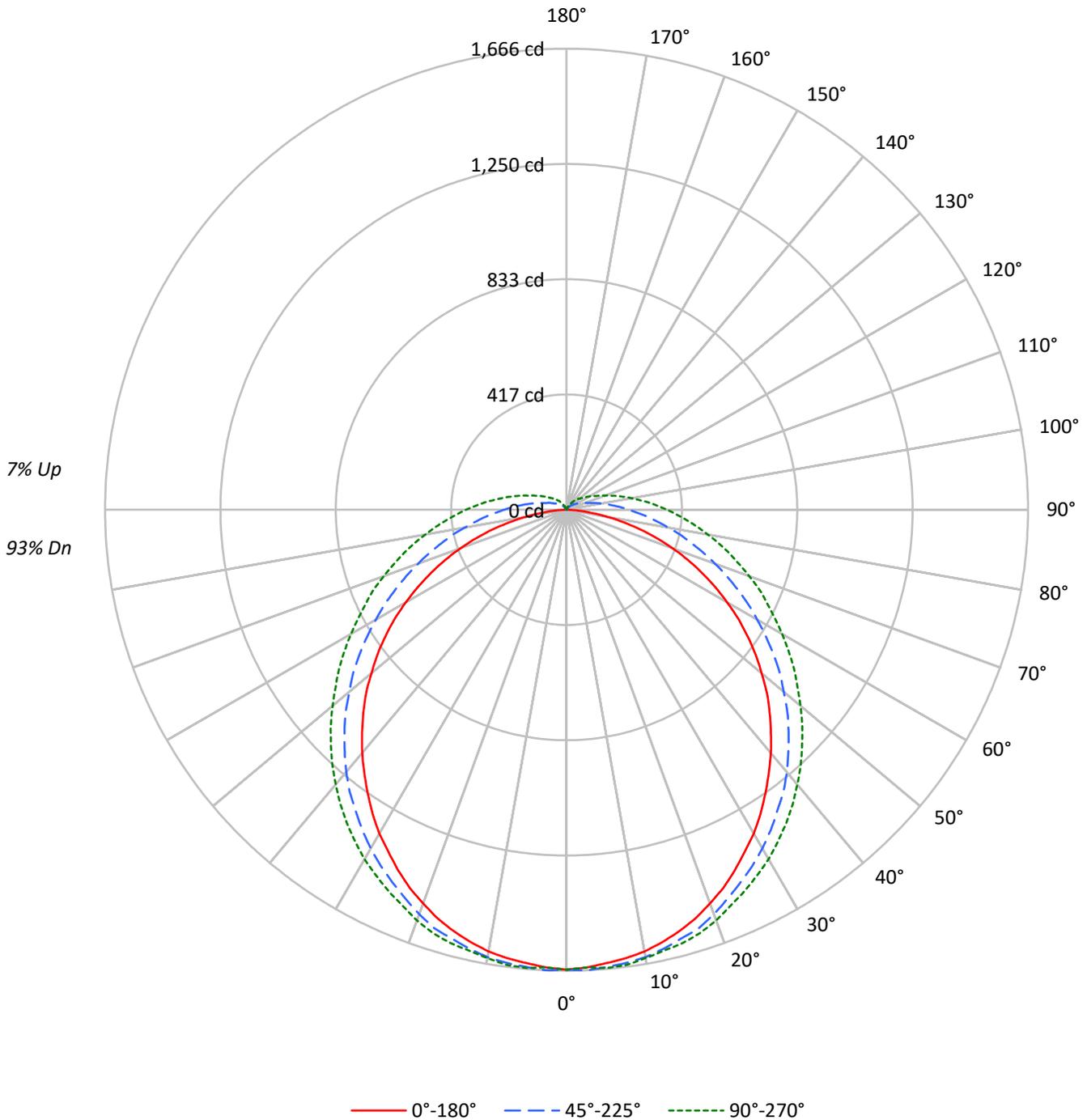
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5652.0 lumens
Efficiency: N/A
Efficacy: 32.3 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): 175
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: P1357543
CATALOG NUMBER: 8ASL4-35VHE-3-A59-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1357543
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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	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	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6727	6727	6727
5°	6675	6606	6573
10°	6646	6483	6407
15°	6580	6328	6267
20°	6488	6180	6107
25°	6381	5993	5926
30°	6268	5831	5774
35°	6125	5646	5604
40°	5996	5478	5424
45°	5858	5274	5245
50°	5699	5054	5058
55°	5530	4845	4889
60°	5307	4600	4719
65°	5022	4365	4577
70°	4658	4133	4467
75°	4123	3924	4391
80°	3300	3773	4358
85°	2093	3757	4423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5858 cd/sqm



TEST NUMBER: P1357543
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	2.8
10°-20°	452.6	8.0
20°-30°	684.3	12.1
30°-40°	828.6	14.7
40°-50°	870.2	15.4
50°-60°	811.9	14.4
60°-70°	671.0	11.9
70°-80°	483.1	8.5
80°-90°	300.2	5.3
90°-100°	175.9	3.1
100°-110°	100.6	1.8
110°-120°	56.8	1.0
120°-130°	32.7	0.6
130°-140°	17.6	0.3
140°-150°	7.4	0.1
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1294.5	22.9
0°-40°	2123.1	37.6
0°-60°	3805.2	67.3
0°-90°	5259.5	93.1
90°-120°	333.4	5.9
90°-150°	391.1	6.9
90°-180°	392.0	6.9
0°-180°	5652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1645	1659	1659	1659	1662	156
15°	1576	1597	1604	1614	1621	444
25°	1438	1462	1486	1507	1521	662
35°	1251	1286	1327	1365	1382	783
45°	1037	1075	1134	1182	1203	800
55°	798	843	912	978	1002	713
65°	539	591	681	767	798	533
75°	276	346	467	567	608	292
85°	52	156	294	397	436	63
90°	0	93	225	321	363	2
95°	0	59	169	259	297	0
105°	0	21	93	162	190	0
115°	0	10	55	100	118	0
125°	0	7	35	66	76	0
135°	0	0	21	42	52	0
145°	0	0	10	24	28	0
155°	0	0	0	7	10	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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CATALOG NUMBER: 8ASL4-35VHE-3-A59-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.3	1662.3	1662.3	1662.3	1662.3
2.5°	1655.4	1665.8	1665.8	1655.4	1655.4
5°	1645.0	1658.9	1658.9	1658.9	1662.3
7.5°	1634.7	1652.0	1652.0	1652.0	1658.9
10°	1620.9	1638.1	1641.6	1641.6	1645.0
12.5°	1600.1	1620.9	1624.3	1627.8	1631.2
15°	1575.9	1596.7	1603.6	1613.9	1620.9
17.5°	1548.3	1572.5	1586.3	1596.7	1603.6
20°	1513.7	1537.9	1555.2	1569.0	1579.4
22.5°	1479.2	1499.9	1520.6	1537.9	1548.3
25°	1437.7	1461.9	1486.1	1506.8	1520.6
27.5°	1392.8	1420.4	1451.5	1475.7	1489.5
30°	1351.3	1378.9	1413.5	1444.6	1458.4
32.5°	1302.9	1334.0	1372.0	1403.1	1420.4
35°	1251.1	1285.6	1327.1	1365.1	1382.4
37.5°	1199.2	1233.8	1285.6	1323.6	1340.9
40°	1147.4	1181.9	1237.2	1278.7	1296.0
42.5°	1092.1	1126.7	1185.4	1230.3	1251.1
45°	1036.8	1074.8	1133.6	1181.9	1202.7
47.5°	981.5	1019.5	1081.7	1133.6	1154.3
50°	919.3	960.8	1023.0	1081.7	1102.5
52.5°	860.5	902.0	971.1	1029.9	1050.6
55°	798.3	843.3	912.4	978.0	1002.2
57.5°	736.1	781.1	853.6	922.7	950.4
60°	670.5	718.8	794.9	867.5	898.6
62.5°	604.8	656.6	739.6	815.6	846.7
65°	539.1	591.0	680.8	767.2	798.3
67.5°	473.5	528.8	625.5	715.4	753.4
70°	407.8	466.6	570.2	663.5	701.6
72.5°	342.1	404.4	518.4	615.2	653.2
75°	276.5	345.6	466.6	566.8	608.3
77.5°	210.8	290.3	421.6	521.9	563.3
80°	152.1	241.9	373.2	476.9	518.4
82.5°	96.8	193.5	331.8	435.5	476.9
85°	51.8	155.5	293.8	397.4	435.5
87.5°	17.3	121.0	255.7	359.4	397.4
90°	0.0	93.3	224.6	321.4	362.9
92.5°	0.0	72.6	197.0	290.3	328.3
95°	0.0	58.8	169.3	259.2	297.2
97.5°	0.0	48.4	148.6	231.6	266.1
100°	0.0	38.0	127.9	207.4	238.5
102.5°	0.0	31.1	110.6	183.2	214.3
105°	0.0	20.7	93.3	162.4	190.1
107.5°	0.0	17.3	79.5	145.2	169.3
110°	0.0	13.8	72.6	124.4	148.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	10.4	65.7	110.6	134.8
115°	0.0	10.4	55.3	100.2	117.5
117.5°	0.0	10.4	48.4	89.9	107.1
120°	0.0	6.9	44.9	79.5	96.8
122.5°	0.0	6.9	38.0	72.6	86.4
125°	0.0	6.9	34.6	65.7	76.0
127.5°	0.0	3.5	31.1	58.8	69.1
130°	0.0	3.5	27.6	51.8	62.2
132.5°	0.0	3.5	24.2	48.4	58.8
135°	0.0	0.0	20.7	41.5	51.8
137.5°	0.0	0.0	17.3	38.0	44.9
140°	0.0	0.0	13.8	31.1	41.5
142.5°	0.0	0.0	10.4	27.6	34.6
145°	0.0	0.0	10.4	24.2	27.6
147.5°	0.0	0.0	6.9	17.3	24.2
150°	0.0	0.0	3.5	13.8	17.3
152.5°	0.0	0.0	0.0	10.4	13.8
155°	0.0	0.0	0.0	6.9	10.4
157.5°	0.0	0.0	0.0	0.0	3.5
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	15.97	17.51	16.44	17.97	18.45	18.04	19.58	18.51	20.03	20.52
	3H	17.47	18.87	17.95	19.34	19.86	20.52	21.93	21.00	22.39	22.92
	4H	17.95	19.28	18.45	19.76	20.30	21.74	23.07	22.24	23.55	24.09
	6H	18.22	19.46	18.74	19.96	20.51	23.02	24.26	23.53	24.75	25.31
	8H	18.27	19.46	18.80	19.98	20.54	23.69	24.87	24.21	25.39	25.95
	12H	18.29	19.43	18.82	19.94	20.53	24.43	25.57	24.97	26.09	26.68
4H	2H	16.86	18.19	17.36	18.67	19.21	18.47	19.80	18.97	20.29	20.82
	3H	18.59	19.73	19.11	20.25	20.81	21.18	22.31	21.69	22.84	23.40
	4H	19.19	20.23	19.73	20.77	21.36	22.56	23.60	23.10	24.14	24.73
	6H	19.59	20.51	20.15	21.07	21.68	24.04	24.95	24.59	25.51	26.12
	8H	19.69	20.55	20.25	21.11	21.73	24.81	25.67	25.37	26.24	26.85
	12H	19.73	20.51	20.31	21.10	21.73	25.68	26.47	26.26	27.06	27.68
8H	4H	19.89	20.75	20.45	21.31	21.93	22.78	23.64	23.34	24.20	24.82
	6H	20.46	21.20	21.06	21.80	22.43	24.42	25.15	25.01	25.75	26.38
	8H	20.65	21.31	21.25	21.92	22.56	25.33	25.99	25.94	26.61	27.25
	12H	20.76	21.35	21.37	21.95	22.66	26.39	26.98	27.00	27.59	28.29
12H	4H	20.08	20.87	20.67	21.46	22.08	22.79	23.57	23.37	24.16	24.79
	6H	20.76	21.43	21.37	22.04	22.68	24.46	25.12	25.06	25.73	26.37
	8H	21.04	21.63	21.65	22.24	22.94	25.44	26.03	26.05	26.63	27.34

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-9

Test Date: 01/22/2026

Luminaire Tested: 4ASL-2-A590-UNV-OPL-1_600mA

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 01/29/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Fail-Safe
 Catalog Number: **4ASL-2-A590-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND AMBER 590 LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K): 1535
 CIE u': 0.3534
 CIE v': 0.5468
 Duv: 0.0117
 CIE x: 0.5921
 CIE y: 0.4072
 CIE z: 0.0007
 Peak Wavelength (nm): 598
 Dominant Wavelength (nm): 592
 Purity: 99.97894
 R_f: 1.3
 R_g: 0.1

CRI (Ra):	-20.0		
R1:	-32.1	R9:	-380.5
R2:	53.1	R10:	29.9
R3:	18.5	R11:	-92.0
R4:	-65.7	R12:	-8.5
R5:	-38.6	R13:	-13.5
R6:	42.8	R14:	47.1
R7:	-6.2	R15:	-65.4
R8:	-132.3		



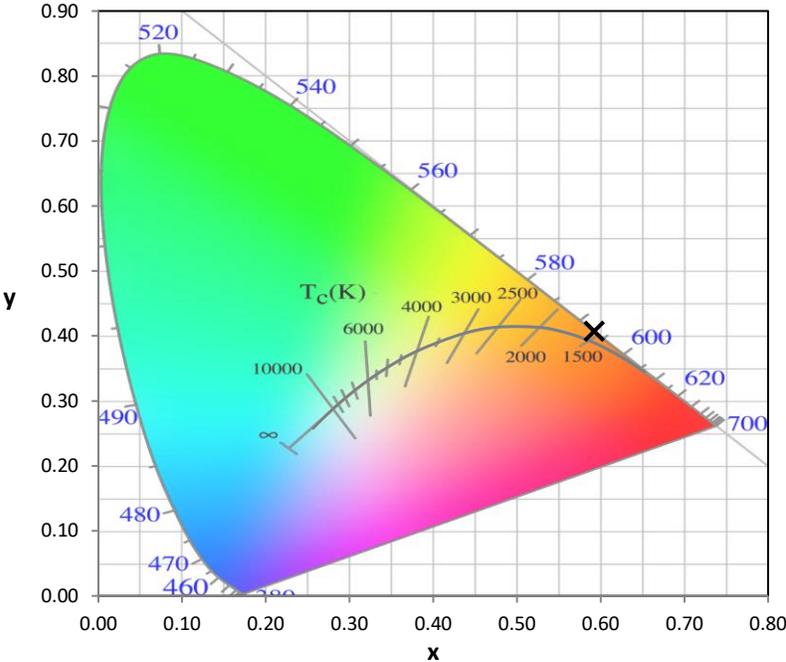
Test Conditions
 Stabilization Time: 77M
 Operation Time: 2H 17M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2511-597-9

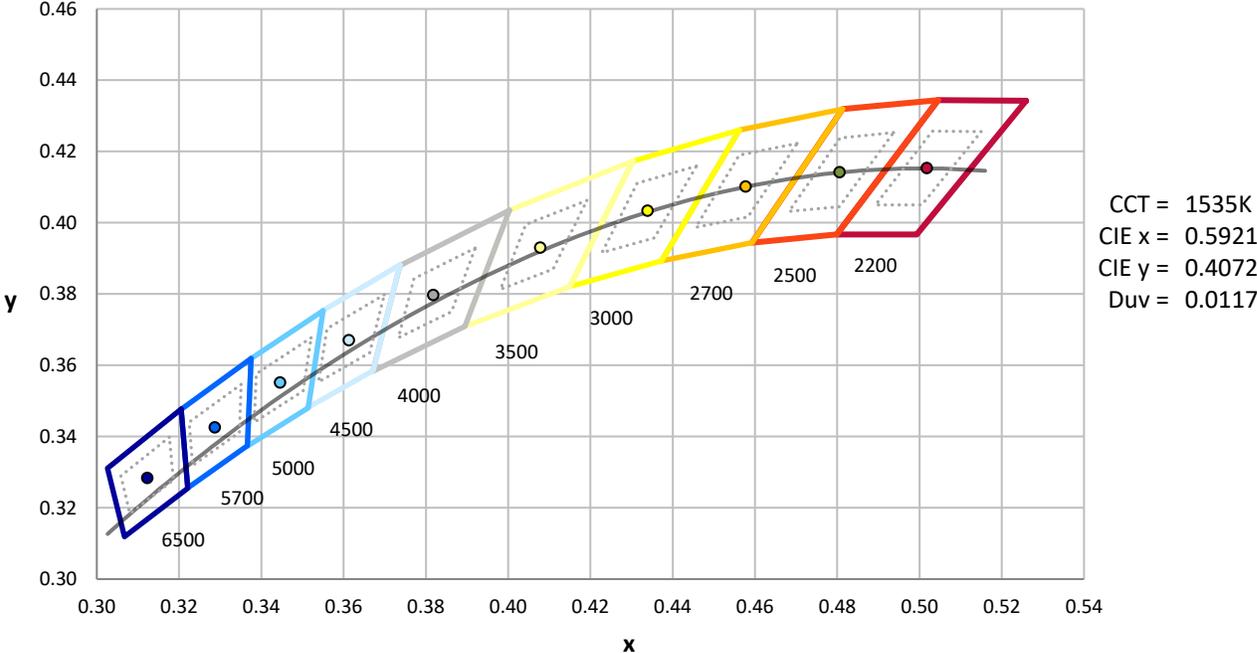
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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Photopic Flux vs. Wavelength

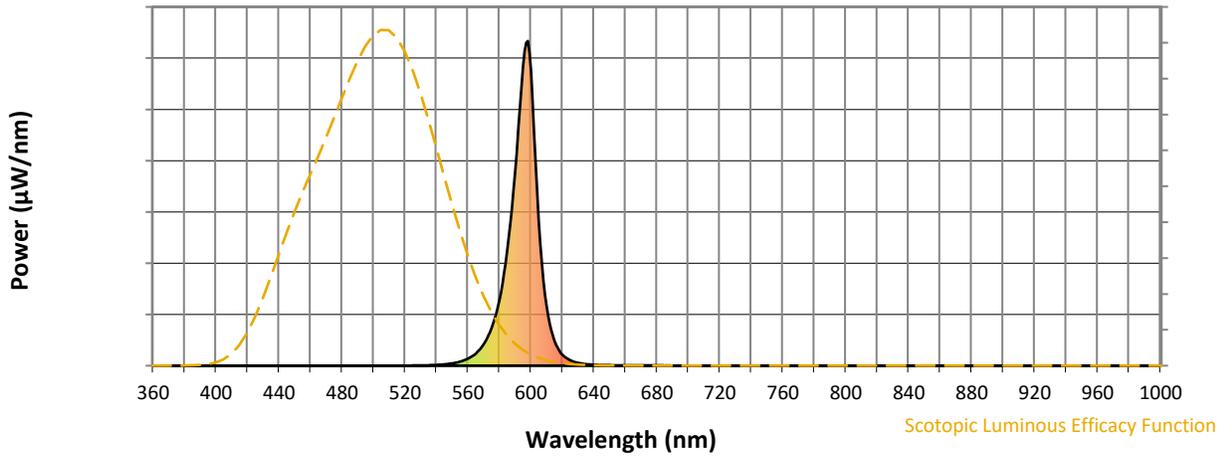


Photopic Lumens: NR

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	0	NR	620	35	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	17	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	9	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	66	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	115	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	203	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	354	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	596	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	923	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	909	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	447	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	183	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	75	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.22

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)												
360	0	NR	490	0	NR	620	35	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	17	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	9	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	66	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	115	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	203	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	354	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	596	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	923	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	909	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	447	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	183	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	75	NR	745	0	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



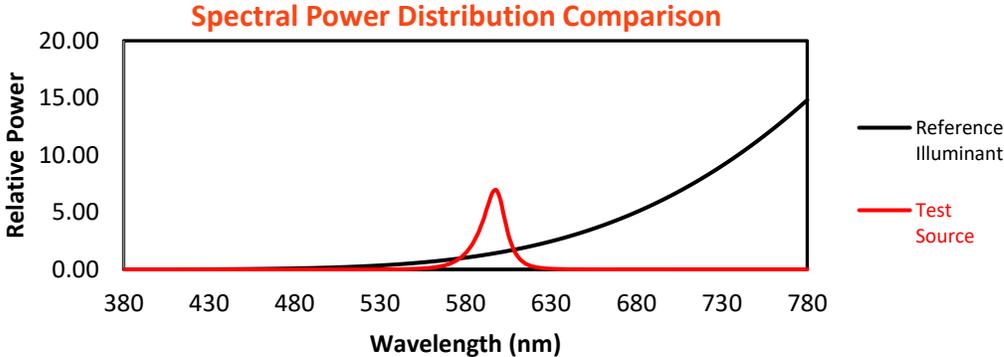
Melanopic Lumens: NR

M/P: 0.12

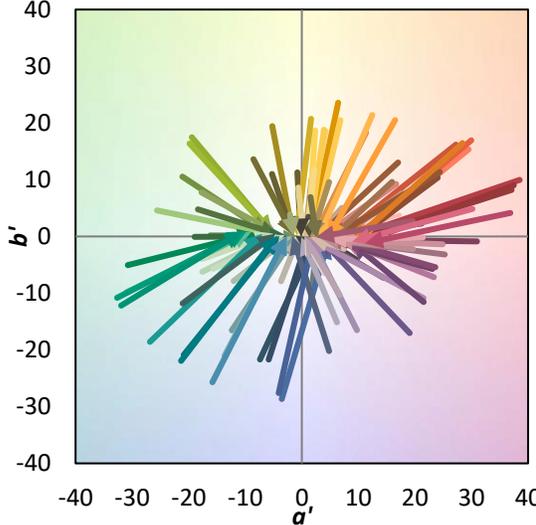
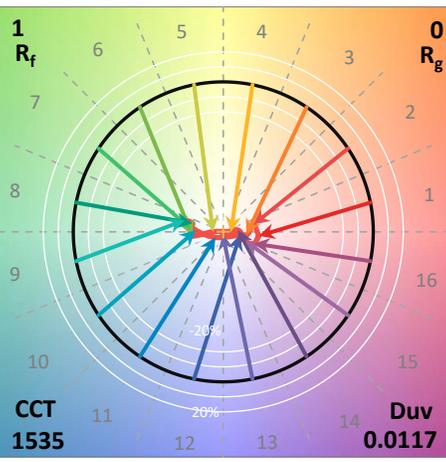
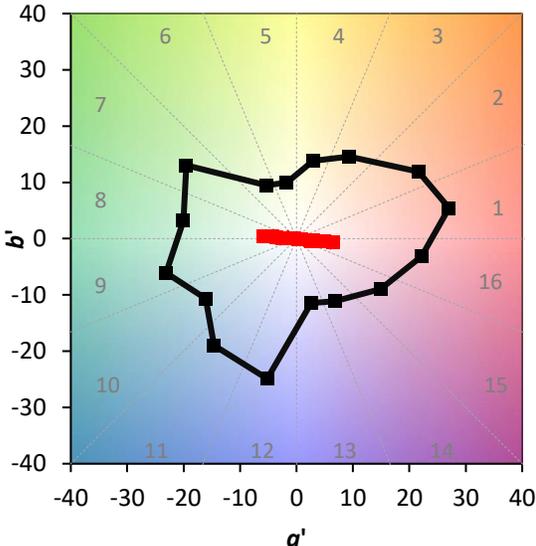
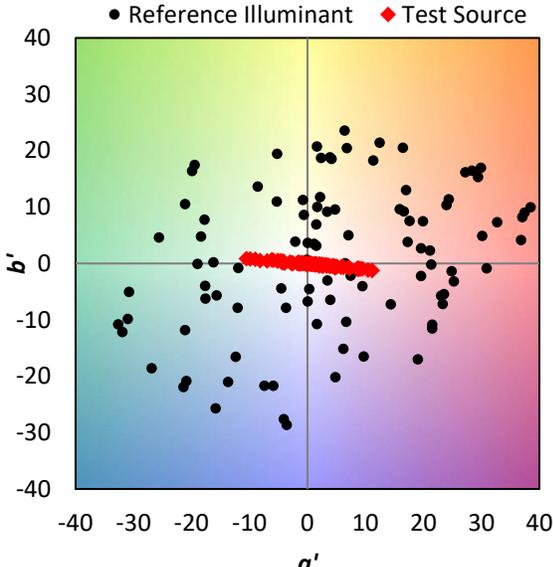
λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)
360	0	NR	490	0	NR	620	35	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	17	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	9	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	66	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	115	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	203	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	354	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	596	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	923	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	909	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	447	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	183	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	75	NR	745	0	NR	875	0	NR			

Summary

$R_f = 1.3$
 $R_g = 0.1$
 $CIE R_a = -20.0$
 $R_g = -380.5$

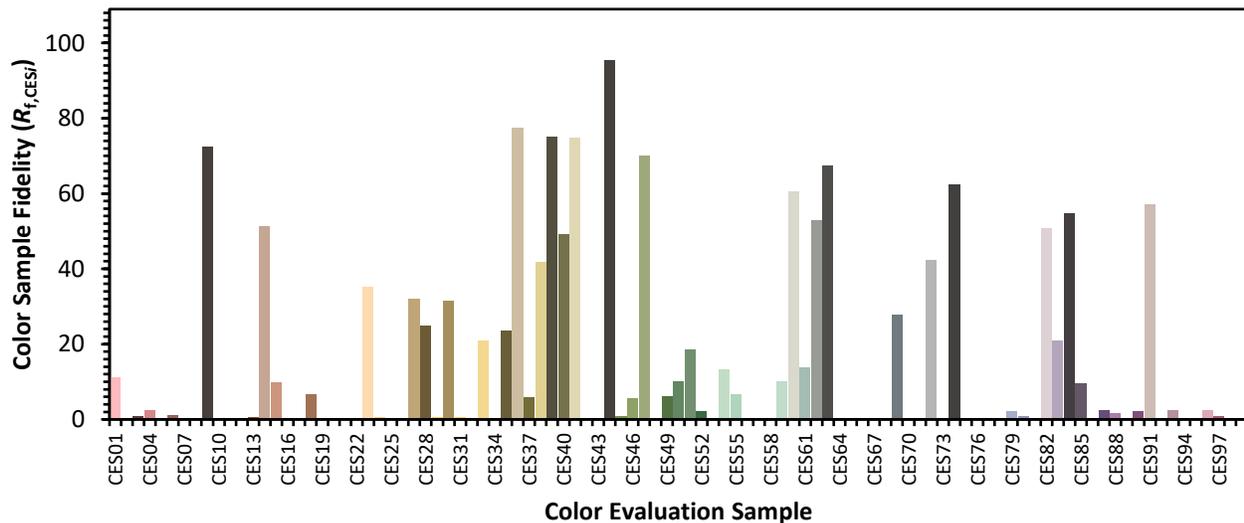


Color Vector Graphics

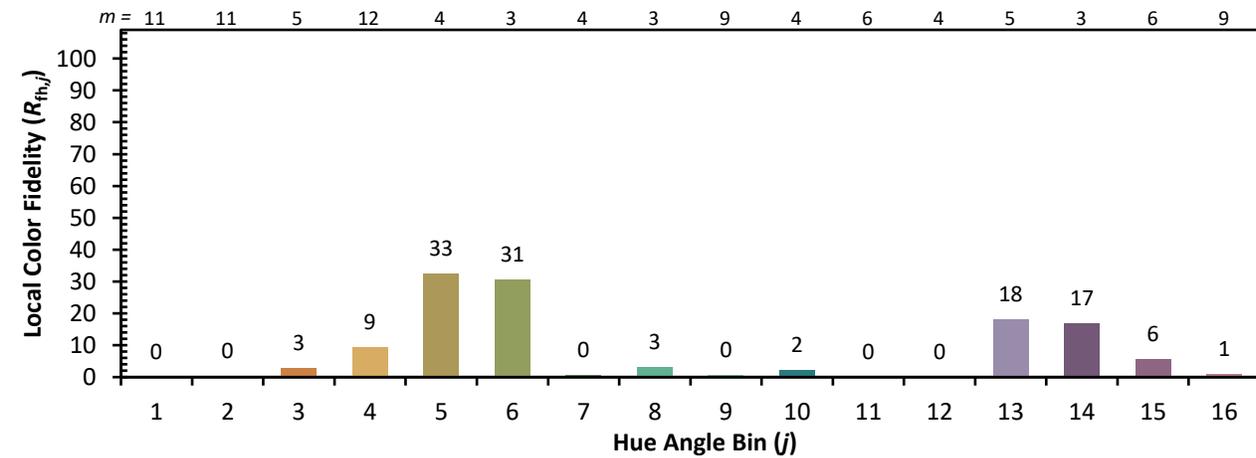
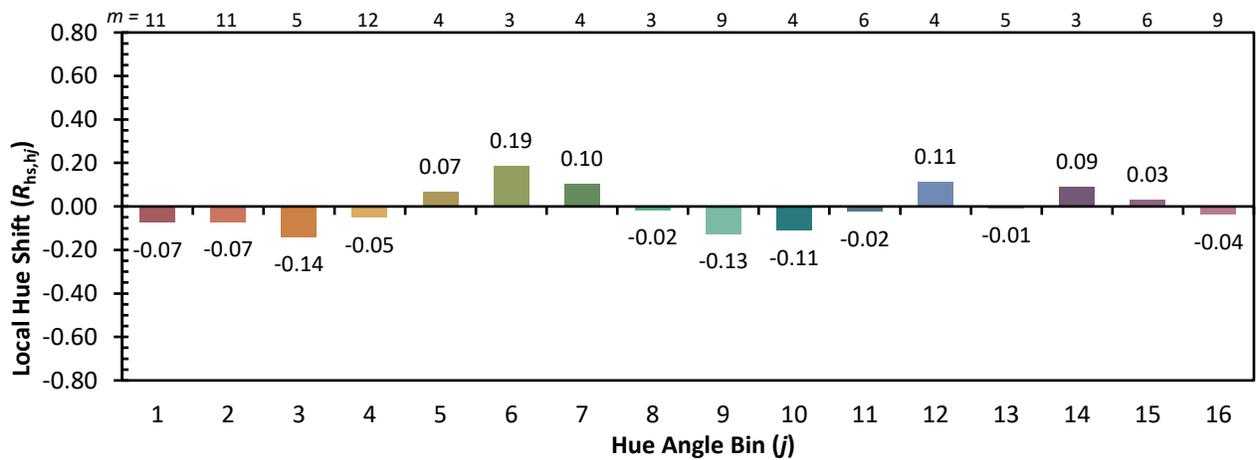
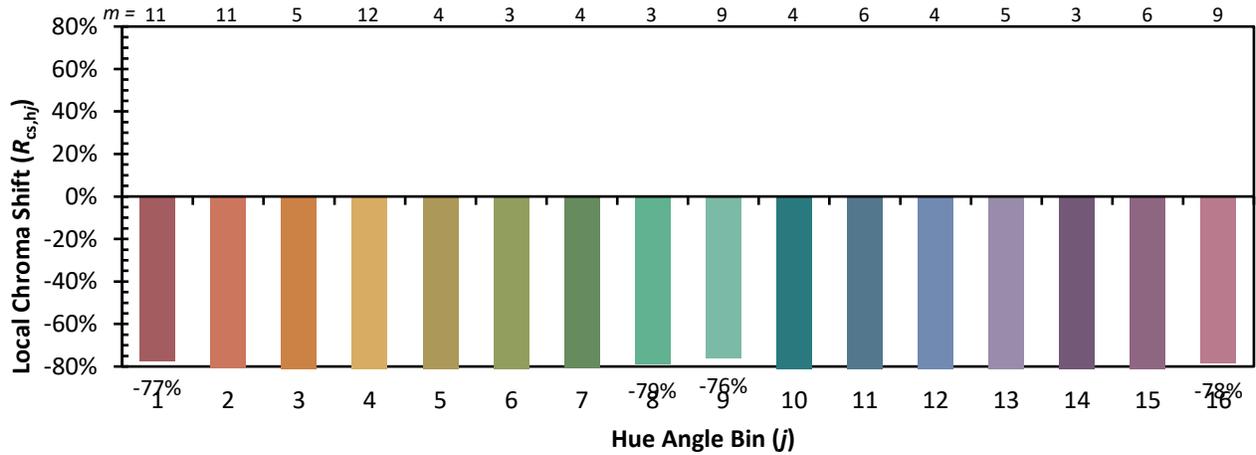


Individual Sample Fidelity Index ($R_{f,i}$)

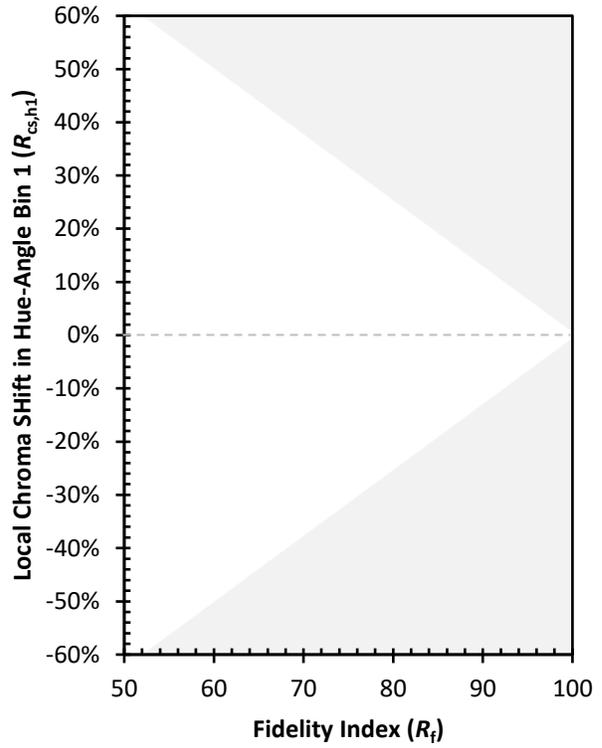
CES01 = 90	CES26 = 0	CES51 = 19	CES76 = 0
CES02 = 70	CES27 = 32	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 25	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 13	CES79 = 2
CES05 = 52	CES30 = 31	CES55 = 7	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 51
CES08 = 39	CES33 = 21	CES58 = 0	CES83 = 21
CES09 = 29	CES34 = 0	CES59 = 10	CES84 = 55
CES10 = 87	CES35 = 24	CES60 = 60	CES85 = 10
CES11 = 70	CES36 = 77	CES61 = 14	CES86 = 0
CES12 = 76	CES37 = 6	CES62 = 53	CES87 = 2
CES13 = 47	CES38 = 42	CES63 = 68	CES88 = 2
CES14 = 77	CES39 = 75	CES64 = 0	CES89 = 0
CES15 = 74	CES40 = 49	CES65 = 0	CES90 = 2
CES16 = 49	CES41 = 75	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 60	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 95	CES69 = 28	CES94 = 0
CES20 = 71	CES45 = 1	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 6	CES71 = 0	CES96 = 2
CES22 = 87	CES47 = 70	CES72 = 42	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 6	CES74 = 62	CES99 = 0
CES25 = 79	CES50 = 10	CES75 = 0	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)