

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: P1357429

Luminaire Tested: 8ASL4-10HE-2-A59-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357429
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: 8ASL4-10HE-2-A59-UNV
Description: 8FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

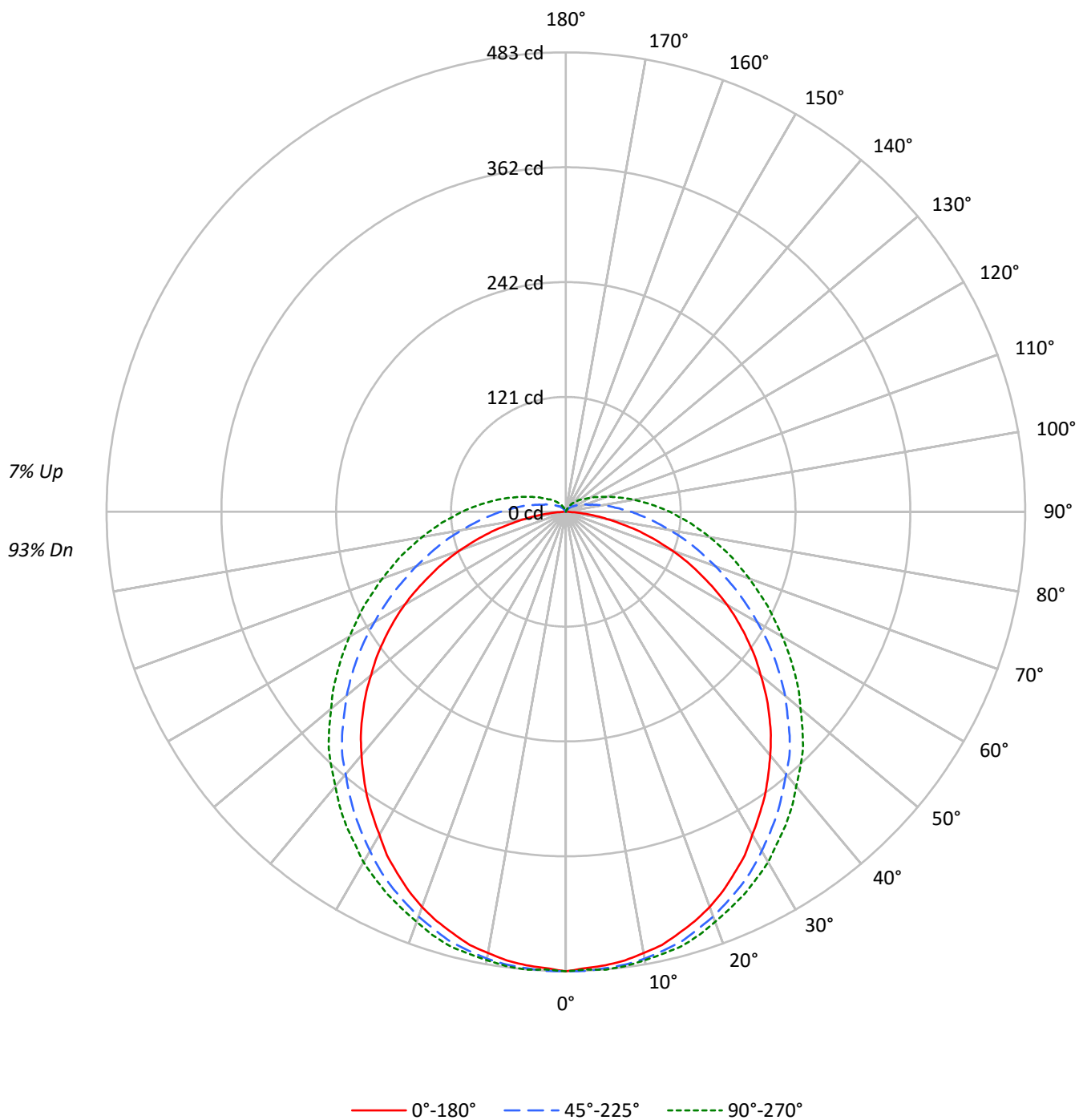
Lumens per Lamp: N/A
Luminaire Lumens: 1659.0 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 46
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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CATALOG NUMBER: 8ASL4-10HE-2-A59-UNV

Luminous Intensity Polar Plot



TEST NUMBER: P1357429

CATALOG NUMBER: 8ASL4-10HE-2-A59-UNV

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1956	1956	1956
5°	1943	1918	1911
10°	1932	1885	1864
15°	1916	1847	1827
20°	1895	1800	1775
25°	1861	1753	1729
30°	1819	1699	1684
35°	1785	1649	1632
40°	1747	1595	1578
45°	1708	1548	1538
50°	1658	1487	1478
55°	1610	1420	1431
60°	1551	1345	1381
65°	1458	1276	1342
70°	1354	1212	1306
75°	1200	1163	1294
80°	957	1121	1290
85°	614	1127	1327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1708 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	2.8
10°-20°	131.7	7.9
20°-30°	199.6	12.0
30°-40°	241.4	14.6
40°-50°	254.5	15.3
50°-60°	237.5	14.3
60°-70°	196.1	11.8
70°-80°	142.3	8.6
80°-90°	89.9	5.4
90°-100°	53.7	3.2
100°-110°	30.8	1.9
110°-120°	17.5	1.1
120°-130°	10.0	0.6
130°-140°	5.4	0.3
140°-150°	2.4	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	377.2	22.7
0°-40°	618.6	37.3
0°-60°	1110.7	66.9
0°-90°	1539.0	92.8
90°-120°	101.9	6.1
90°-150°	119.6	7.2
90°-180°	120.0	7.2
0°-180°	1659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	479	483	482	482	483	45
15°	459	465	468	470	473	129
25°	419	426	435	441	444	193
35°	365	374	388	398	403	228
45°	302	315	333	346	353	233
55°	232	246	268	286	293	208
65°	156	173	199	223	234	155
75°	80	102	138	167	179	85
85°	15	47	88	118	131	19
90°	0	29	68	97	109	1
95°	0	18	52	79	90	0
105°	0	6	29	50	58	0
115°	0	3	17	30	36	0
125°	0	2	11	20	23	0
135°	0	0	6	12	15	0
145°	0	0	3	8	9	0
155°	0	0	0	2	3	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°	483.2	483.2	483.2	483.2	483.2
2.5°	480.2	484.8	483.2	481.7	481.7
5°	478.7	483.2	481.7	481.7	483.2
7.5°	475.7	480.2	480.2	480.2	481.7
10°	471.1	477.2	477.2	477.2	478.7
12.5°	466.5	471.1	472.6	474.1	475.7
15°	458.9	465.0	468.1	469.6	472.6
17.5°	451.3	455.9	460.5	465.0	466.5
20°	442.2	448.3	452.9	457.4	458.9
22.5°	431.6	437.7	443.7	448.3	451.3
25°	419.4	425.5	434.6	440.7	443.7
27.5°	407.3	413.3	424.0	431.6	434.6
30°	392.1	401.2	411.8	420.9	425.5
32.5°	378.4	387.5	399.7	410.3	413.3
35°	364.7	373.8	387.5	398.1	402.7
37.5°	349.5	360.2	373.8	386.0	390.6
40°	334.3	345.0	360.2	373.8	376.9
42.5°	319.1	329.8	348.0	360.2	364.7
45°	302.4	314.6	332.8	346.5	352.6
47.5°	285.7	297.9	316.1	331.3	337.4
50°	267.5	281.1	300.9	316.1	322.2
52.5°	250.7	264.4	284.2	300.9	308.5
55°	232.5	246.2	267.5	285.7	293.3
57.5°	214.3	227.9	250.7	270.5	278.1
60°	196.0	209.7	232.5	255.3	262.9
62.5°	176.3	191.5	215.8	238.6	247.7
65°	156.5	173.2	199.1	223.4	234.0
67.5°	138.3	155.0	182.4	209.7	218.8
70°	118.5	136.8	167.2	194.5	205.2
72.5°	98.8	118.5	152.0	180.8	191.5
75°	80.5	101.8	138.3	167.2	179.3
77.5°	60.8	86.6	124.6	155.0	165.6
80°	44.1	71.4	110.9	142.8	153.5
82.5°	28.9	57.7	98.8	130.7	141.3
85°	15.2	47.1	88.1	118.5	130.7
87.5°	4.6	36.5	77.5	107.9	118.5
90°	0.0	28.9	68.4	97.3	109.4
92.5°	0.0	22.8	59.3	88.1	98.8
95°	0.0	18.2	51.7	79.0	89.7
97.5°	0.0	15.2	45.6	71.4	80.5
100°	0.0	12.2	39.5	63.8	72.9
102.5°	0.0	9.1	33.4	56.2	65.3
105°	0.0	6.1	28.9	50.1	57.7
107.5°	0.0	4.6	24.3	44.1	51.7
110°	0.0	4.6	22.8	38.0	45.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.0	19.8	35.0	41.0
115°	0.0	3.0	16.7	30.4	36.5
117.5°	0.0	3.0	15.2	27.4	33.4
120°	0.0	3.0	13.7	24.3	28.9
122.5°	0.0	1.5	12.2	21.3	25.8
125°	0.0	1.5	10.6	19.8	22.8
127.5°	0.0	1.5	9.1	18.2	21.3
130°	0.0	1.5	9.1	16.7	19.8
132.5°	0.0	0.0	7.6	15.2	18.2
135°	0.0	0.0	6.1	12.2	15.2
137.5°	0.0	0.0	6.1	10.6	13.7
140°	0.0	0.0	4.6	10.6	12.2
142.5°	0.0	0.0	3.0	9.1	10.6
145°	0.0	0.0	3.0	7.6	9.1
147.5°	0.0	0.0	1.5	6.1	7.6
150°	0.0	0.0	1.5	4.6	6.1
152.5°	0.0	0.0	0.0	3.0	4.6
155°	0.0	0.0	0.0	1.5	3.0
157.5°	0.0	0.0	0.0	0.0	1.5
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	11.66	13.19	12.13	13.65	14.14	13.76	15.29	14.23	15.76	16.25
	3H	13.16	14.56	13.64	15.03	15.56	16.23	17.63	16.72	18.10	18.63
	4H	13.64	14.97	14.14	15.45	16.00	17.46	18.78	17.96	19.27	19.82
	6H	13.91	15.15	14.43	15.65	16.21	18.75	19.99	19.27	20.49	21.05
	8H	13.97	15.15	14.50	15.68	16.24	19.44	20.62	19.97	21.15	21.71
	12H	13.98	15.12	14.52	15.64	16.23	20.20	21.34	20.74	21.86	22.46
4H	2H	12.55	13.87	13.05	14.36	14.90	14.19	15.52	14.70	16.00	16.55
	3H	14.29	15.42	14.81	15.95	16.52	16.89	18.02	17.41	18.55	19.12
	4H	14.90	15.93	15.43	16.47	17.07	18.29	19.33	18.83	19.87	20.46
	6H	15.30	16.21	15.86	16.78	17.39	19.79	20.70	20.34	21.27	21.88
	8H	15.39	16.26	15.96	16.82	17.45	20.57	21.44	21.14	22.00	22.63
	12H	15.44	16.22	16.03	16.82	17.45	21.47	22.25	22.05	22.84	23.47
8H	4H	15.60	16.46	16.16	17.03	17.65	18.51	19.37	19.07	19.94	20.56
	6H	16.19	16.92	16.78	17.53	18.16	20.18	20.91	20.77	21.52	22.15
	8H	16.37	17.03	16.98	17.65	18.30	21.11	21.77	21.72	22.39	23.03
	12H	16.50	17.09	17.11	17.69	18.40	22.19	22.78	22.80	23.39	24.10
12H	4H	15.81	16.59	16.39	17.18	17.81	18.52	19.30	19.10	19.89	20.52
	6H	16.50	17.16	17.11	17.78	18.42	20.22	20.88	20.82	21.50	22.14
	8H	16.79	17.38	17.40	17.98	18.69	21.22	21.81	21.83	22.42	23.13

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	CRI (Ra):	-20.0		
CIE u':	0.3534	R1:	-32.1	R9:	-380.5
CIE v':	0.5468	R2:	53.1	R10:	29.9
Duv:	0.0117	R3:	18.5	R11:	-92.0
CIE x:	0.5921	R4:	-65.7	R12:	-8.5
CIE y:	0.4072	R5:	-38.6	R13:	-13.5
CIE z:	0.0007	R6:	42.8	R14:	47.1
Peak Wavelength (nm):	598	R7:	-6.2	R15:	-65.4
Dominant Wavelength (nm):	592	R8:	-132.3		
Purity:	99.97894				
Rf:	1.3				
Rg:	0.1				



Test Conditions

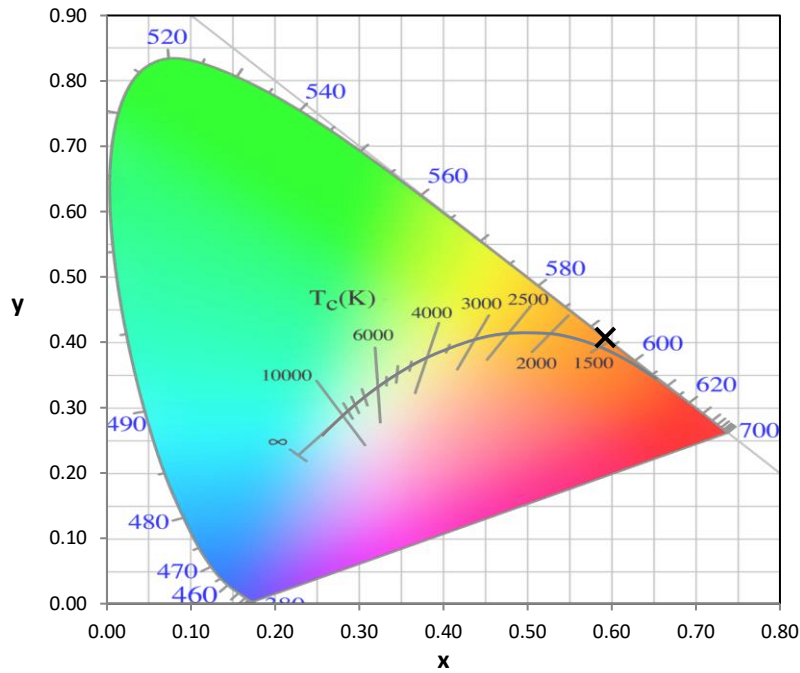
Stabilization Time: 77M
 Operation Time: 2H 17M
 Sphere Temperature (°C): 25.1

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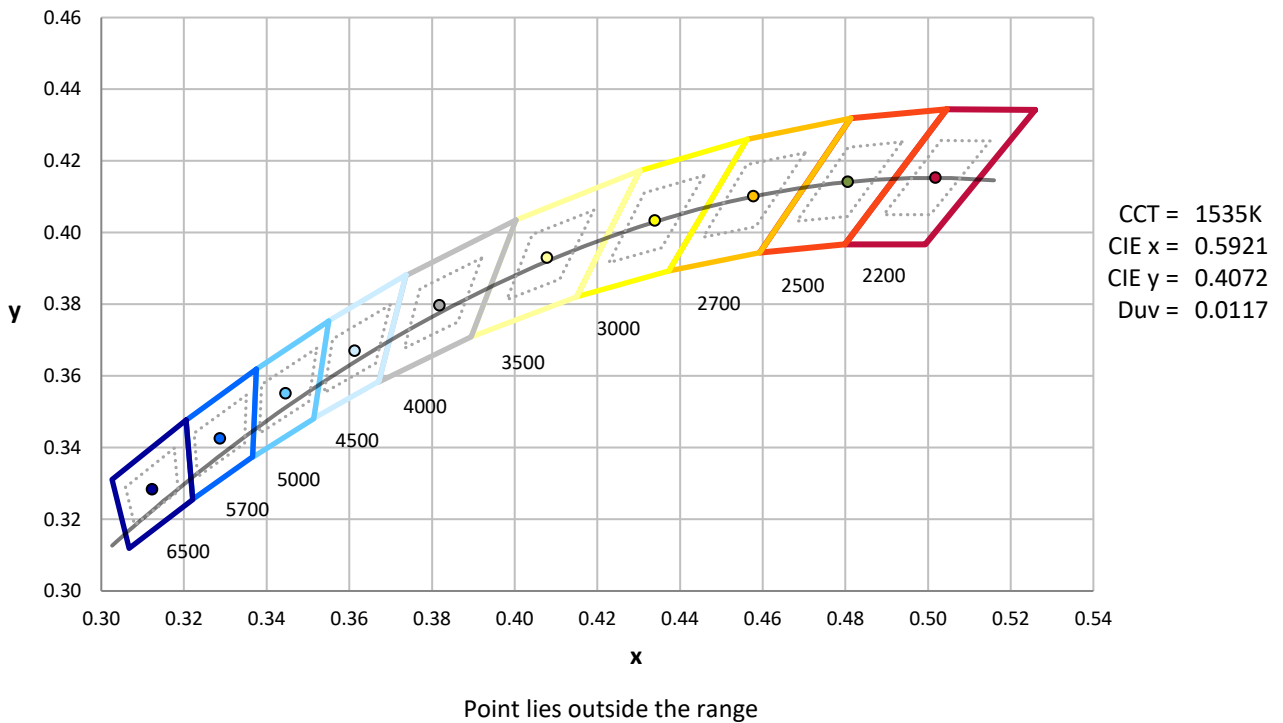
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

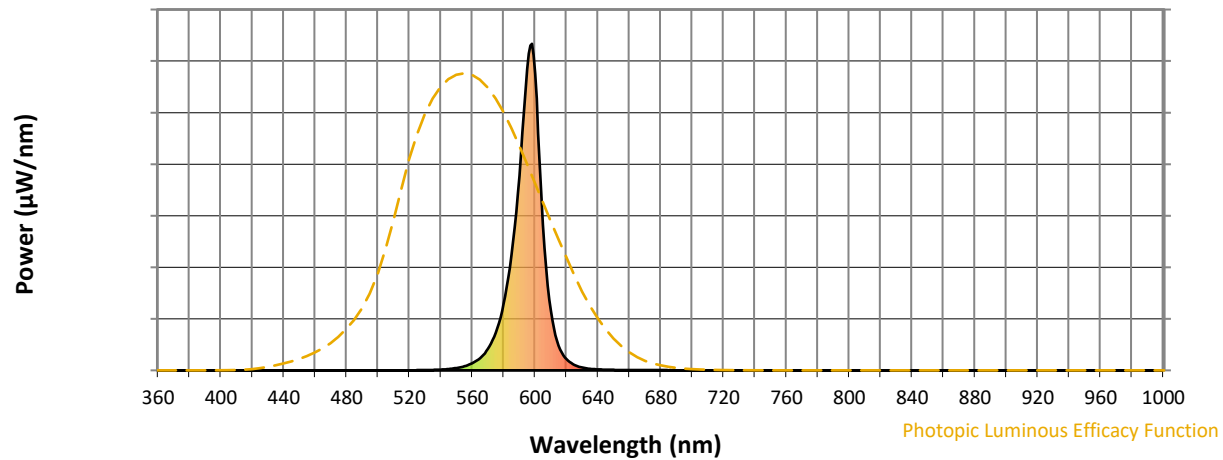


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

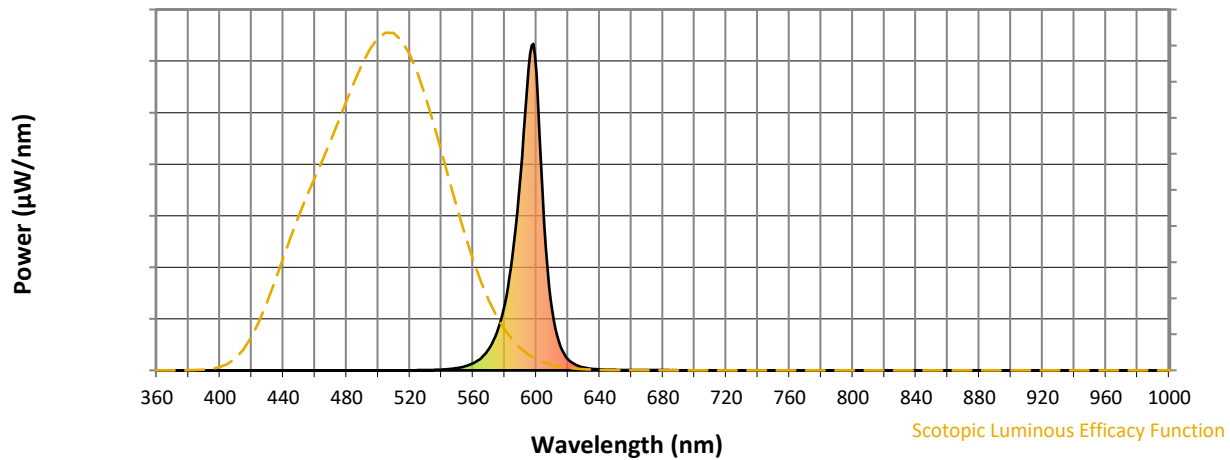


Photopic Lumens: NR

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	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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Scotopic Flux vs. Wavelength



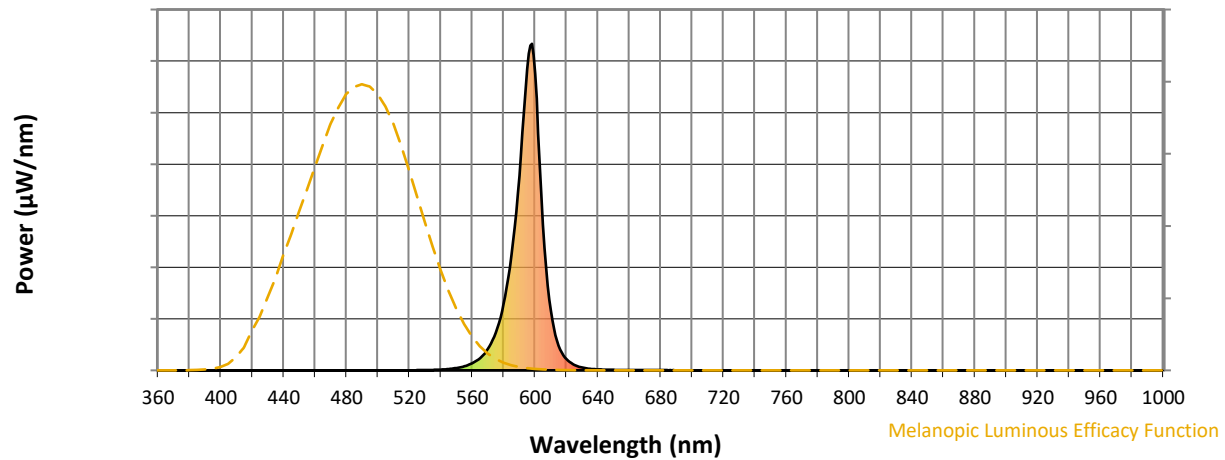
Scotopic Lumens: NR

S/P: 0.22

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.12

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	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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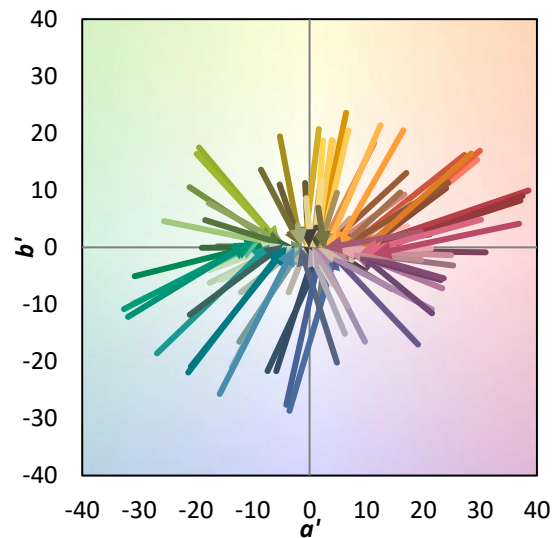
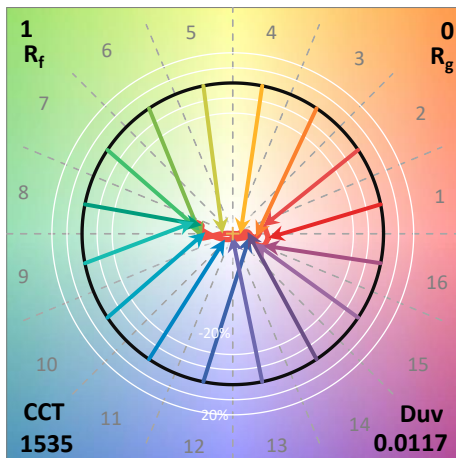
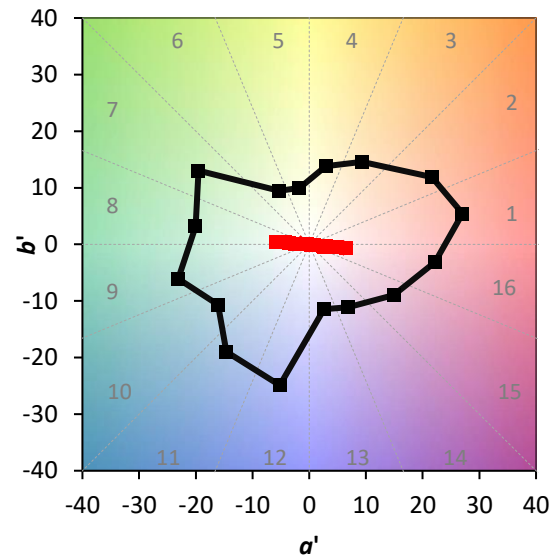
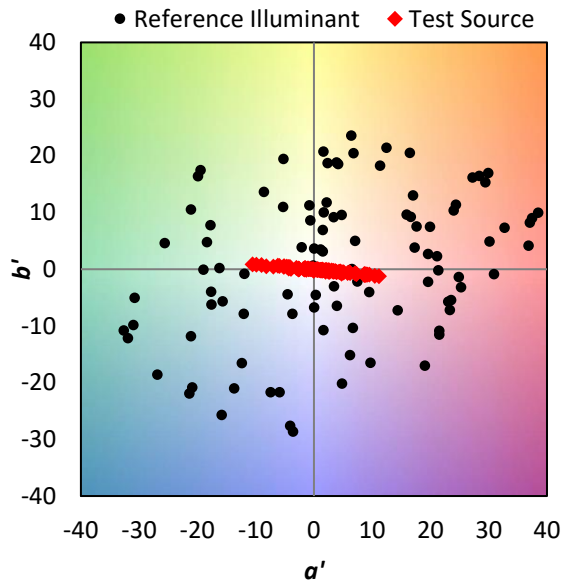
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Summary

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

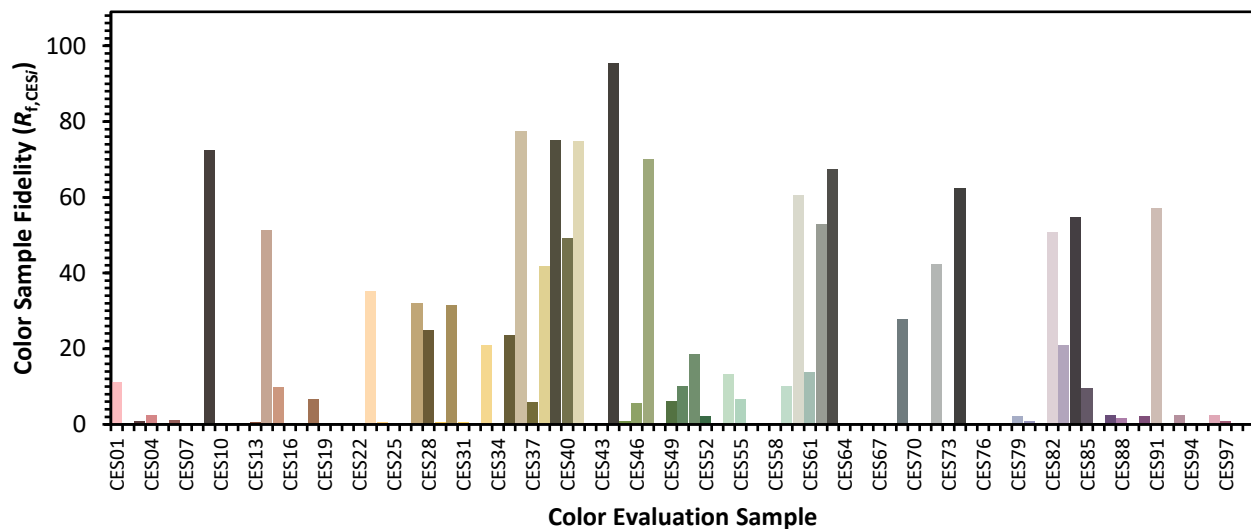


Color Vector Graphics

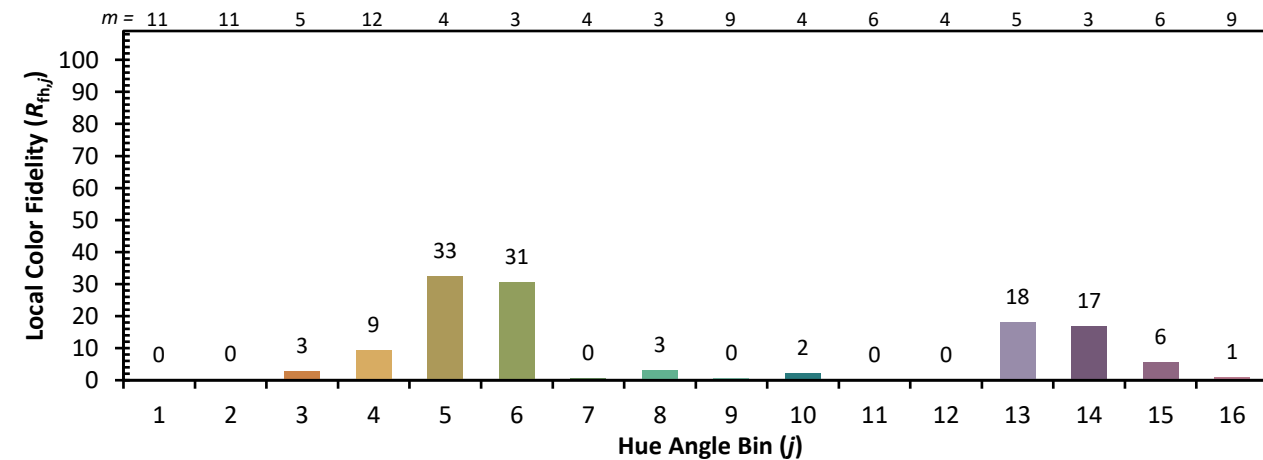
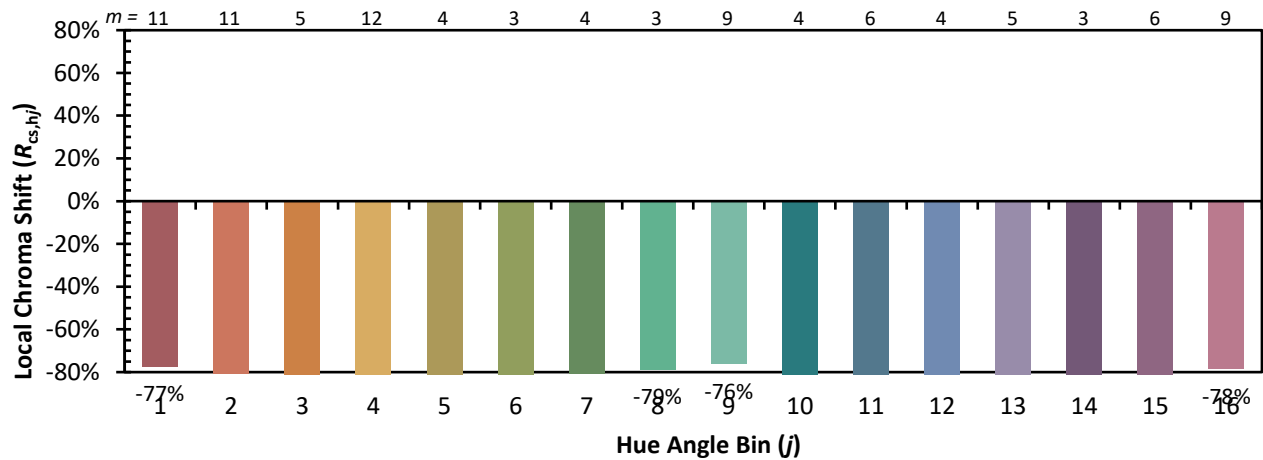


Individual Sample Fidelity Index ($R_{f,i}$)

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



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Measure Comparisons



(END OF REPORT)