

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: P1357291

Luminaire Tested: 6ASL4-10-1-A59-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-6)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 6ASL4-10-1-A59-UNV
Description: 6FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 1 ROW
Light Source: -
Ballast/Driver: -

Summary

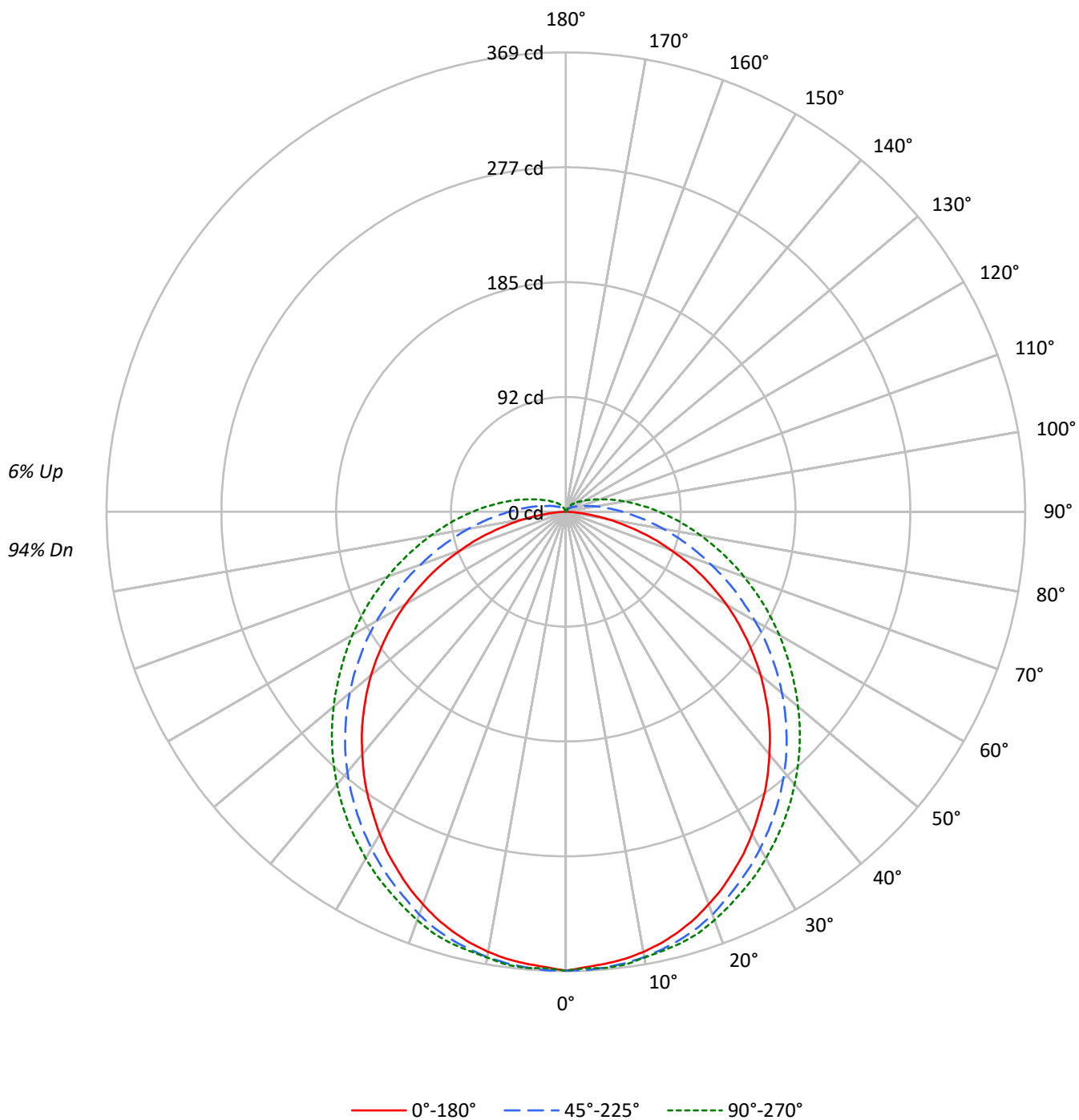
Lumens per Lamp: N/A
Luminaire Lumens: 1234.0 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 36.6
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: P1357291

CATALOG NUMBER: 6ASL4-10-1-A59-UNV

Luminous Intensity Polar Plot



TEST NUMBER: P1357291

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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
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108		102	102	102		96
1	106	100	95	91	102	97	93	89	92	88	85		87	84	81		82
2	95	86	79	73	92	84	77	71	79	74	69		75	70	66		71
3	87	76	67	60	84	73	65	59	69	63	57		66	60	55		62
4	79	67	57	50	76	65	56	50	62	54	48		58	52	47		56
5	73	59	50	43	70	58	49	43	55	47	42		52	46	41		50
6	67	53	44	38	65	52	43	37	50	42	36		47	41	35		45
7	62	48	39	33	60	47	39	33	45	37	32		43	36	31		41
8	58	44	35	29	56	43	35	29	41	34	29		39	33	28		38
9	54	40	32	26	52	39	32	26	38	31	26		36	30	25		35
10	51	37	29	24	49	36	29	24	35	28	23		34	27	23		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1991	1991	1991
5°	1973	1951	1941
10°	1963	1913	1890
15°	1945	1872	1850
20°	1917	1824	1801
25°	1883	1768	1748
30°	1846	1716	1699
35°	1809	1663	1649
40°	1767	1610	1597
45°	1728	1552	1546
50°	1682	1491	1491
55°	1624	1422	1436
60°	1561	1350	1388
65°	1480	1275	1340
70°	1350	1196	1293
75°	1185	1126	1257
80°	957	1066	1235
85°	584	1029	1243

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1728 cd/sqm

TEST NUMBER: P1357291

CATALOG NUMBER: 6ASL4-10-1-A59-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	2.8
10°-20°	100.2	8.1
20°-30°	151.5	12.3
30°-40°	183.1	14.8
40°-50°	192.5	15.6
50°-60°	179.4	14.5
60°-70°	147.4	11.9
70°-80°	104.6	8.5
80°-90°	63.0	5.1
90°-100°	35.3	2.9
100°-110°	19.6	1.6
110°-120°	10.9	0.9
120°-130°	6.3	0.5
130°-140°	3.4	0.3
140°-150°	1.5	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	286.6	23.2
0°-40°	469.7	38.1
0°-60°	841.6	68.2
0°-90°	1156.6	93.7
90°-120°	65.8	5.3
90°-150°	77.1	6.2
90°-180°	77.0	6.2
0°-180°	1234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	369	369	369	369	369	
5°	364	368	367	367	368	35
15°	349	354	356	357	359	99
25°	319	324	329	334	336	147
35°	278	285	294	301	305	174
45°	230	238	251	261	266	177
55°	177	187	201	215	221	158
65°	120	131	150	167	175	118
75°	60	76	101	122	130	65
85°	11	32	61	83	92	14
90°	0	19	45	67	75	0
95°	0	11	33	52	60	0
105°	0	4	18	32	38	0
115°	0	2	11	19	23	0
125°	0	1	7	12	15	0
135°	0	0	4	8	10	0
145°	0	0	2	5	6	0
155°	0	0	0	1	2	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1357291

CATALOG NUMBER: 6ASL4-10-1-A59-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	368.6	368.6	368.6	368.6	368.6
2.5°	366.1	369.4	368.6	366.9	366.9
5°	364.4	367.8	367.3	366.9	367.8
7.5°	362.3	365.7	365.7	366.1	366.9
10°	359.0	363.2	363.2	363.2	363.6
12.5°	354.8	359.0	359.8	360.2	361.1
15°	349.4	354.0	355.7	357.3	358.6
17.5°	343.2	347.7	350.7	352.7	354.8
20°	335.6	340.6	344.4	346.9	349.0
22.5°	327.7	332.7	336.5	340.2	342.7
25°	318.6	324.4	329.0	333.6	336.1
27.5°	309.4	315.2	321.1	326.5	329.4
30°	299.0	305.6	312.3	318.6	321.5
32.5°	288.1	295.2	303.1	309.8	313.1
35°	277.7	284.8	293.5	301.0	304.8
37.5°	266.4	273.5	283.5	291.9	295.6
40°	254.3	262.3	273.1	281.9	286.0
42.5°	242.7	250.6	262.3	271.9	276.0
45°	230.2	238.5	250.6	261.0	265.6
47.5°	217.2	226.0	238.9	249.8	254.8
50°	204.3	213.5	226.8	238.5	243.5
52.5°	190.5	200.1	214.3	226.8	232.2
55°	176.8	186.8	201.4	214.7	220.6
57.5°	163.0	173.0	188.9	203.1	209.3
60°	148.9	159.3	175.5	191.0	198.1
62.5°	134.3	145.1	162.2	178.9	186.4
65°	120.1	130.9	149.7	167.2	175.1
67.5°	105.1	116.7	136.8	155.1	163.4
70°	89.6	103.0	124.3	143.8	152.2
72.5°	75.9	89.6	112.6	132.6	141.3
75°	60.5	75.9	100.9	121.7	130.5
77.5°	47.1	63.8	90.1	111.3	120.1
80°	33.8	52.1	79.6	101.3	110.1
82.5°	21.7	41.7	70.0	92.1	100.5
85°	11.3	32.5	60.9	83.4	91.7
87.5°	3.3	25.0	52.5	74.6	83.0
90°	0.0	19.2	45.4	66.7	74.6
92.5°	0.0	14.6	39.2	59.6	67.5
95°	0.0	11.3	33.4	52.5	60.0
97.5°	0.0	8.8	28.8	46.3	53.8
100°	0.0	7.1	24.6	40.9	47.9
102.5°	0.0	5.8	21.3	36.3	42.5
105°	0.0	4.2	17.5	31.7	37.5
107.5°	0.0	2.9	15.4	27.9	32.9
110°	0.0	2.5	13.8	24.2	29.2



TEST NUMBER: P1357291

CATALOG NUMBER: 6ASL4-10-1-A59-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	2.1	12.1	21.7	25.9
115°	0.0	2.1	10.8	19.2	22.9
117.5°	0.0	1.7	9.2	17.1	20.4
120°	0.0	1.7	8.3	15.4	18.3
122.5°	0.0	1.3	7.5	13.8	16.7
125°	0.0	1.3	6.7	12.5	14.6
127.5°	0.0	0.8	5.8	11.3	13.3
130°	0.0	0.8	5.4	10.0	12.1
132.5°	0.0	0.4	5.0	9.2	10.8
135°	0.0	0.4	4.2	7.9	10.0
137.5°	0.0	0.0	3.8	7.1	8.8
140°	0.0	0.0	2.9	6.3	7.9
142.5°	0.4	0.0	2.5	5.4	6.7
145°	0.4	0.0	1.7	4.6	5.8
147.5°	0.4	0.4	1.3	3.8	4.6
150°	0.4	0.4	0.8	2.5	3.8
152.5°	0.4	0.4	0.4	1.7	2.5
155°	0.4	0.4	0.0	1.3	1.7
157.5°	0.4	0.4	0.0	0.4	0.8
160°	0.4	0.4	0.0	0.0	0.4
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

TEST NUMBER: P1357291

CATALOG NUMBER: 6ASL4-10-1-A59-UNV

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	11.81	13.36	12.27	13.80	14.27	13.82	15.37	14.28	15.81	16.28
	3H	13.30	14.71	13.77	15.16	15.67	16.24	17.65	16.71	18.11	18.62
	4H	13.77	15.11	14.26	15.58	16.11	17.42	18.76	17.91	19.23	19.75
	6H	14.05	15.30	14.56	15.78	16.32	18.64	19.89	19.15	20.37	20.91
	8H	14.10	15.30	14.62	15.81	16.35	19.28	20.47	19.80	20.98	21.53
	12H	14.11	15.26	14.64	15.76	16.34	19.98	21.13	20.51	21.63	22.21
4H	2H	12.68	14.02	13.17	14.49	15.01	14.25	15.59	14.74	16.06	16.59
	3H	14.40	15.55	14.91	16.06	16.61	16.90	18.04	17.40	18.55	19.10
	4H	15.00	16.05	15.53	16.57	17.15	18.24	19.28	18.77	19.81	20.39
	6H	15.40	16.32	15.95	16.87	17.46	19.65	20.58	20.20	21.13	21.72
	8H	15.49	16.36	16.04	16.91	17.52	20.39	21.26	20.94	21.81	22.42
	12H	15.54	16.32	16.11	16.90	17.51	21.22	22.01	21.80	22.59	23.20
8H	4H	15.66	16.53	16.21	17.08	17.68	18.45	19.32	19.00	19.87	20.47
	6H	16.23	16.96	16.81	17.56	18.17	20.03	20.77	20.61	21.36	21.97
	8H	16.41	17.07	17.00	17.67	18.30	20.91	21.57	21.50	22.18	22.80
	12H	16.52	17.11	17.11	17.70	18.39	21.92	22.51	22.52	23.11	23.80
12H	4H	15.84	16.63	16.42	17.21	17.82	18.46	19.25	19.03	19.83	20.44
	6H	16.51	17.17	17.10	17.78	18.40	20.07	20.73	20.66	21.33	21.96
	8H	16.78	17.37	17.37	17.96	18.65	21.01	21.60	21.61	22.20	22.89

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

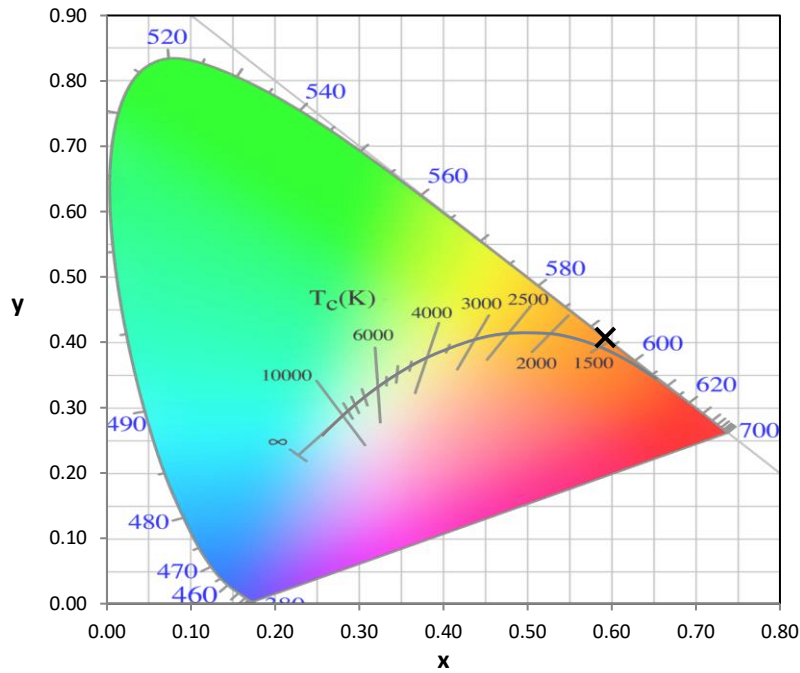
Stabilization Time: 77M
 Operation Time: 2H 17M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2511-597-9

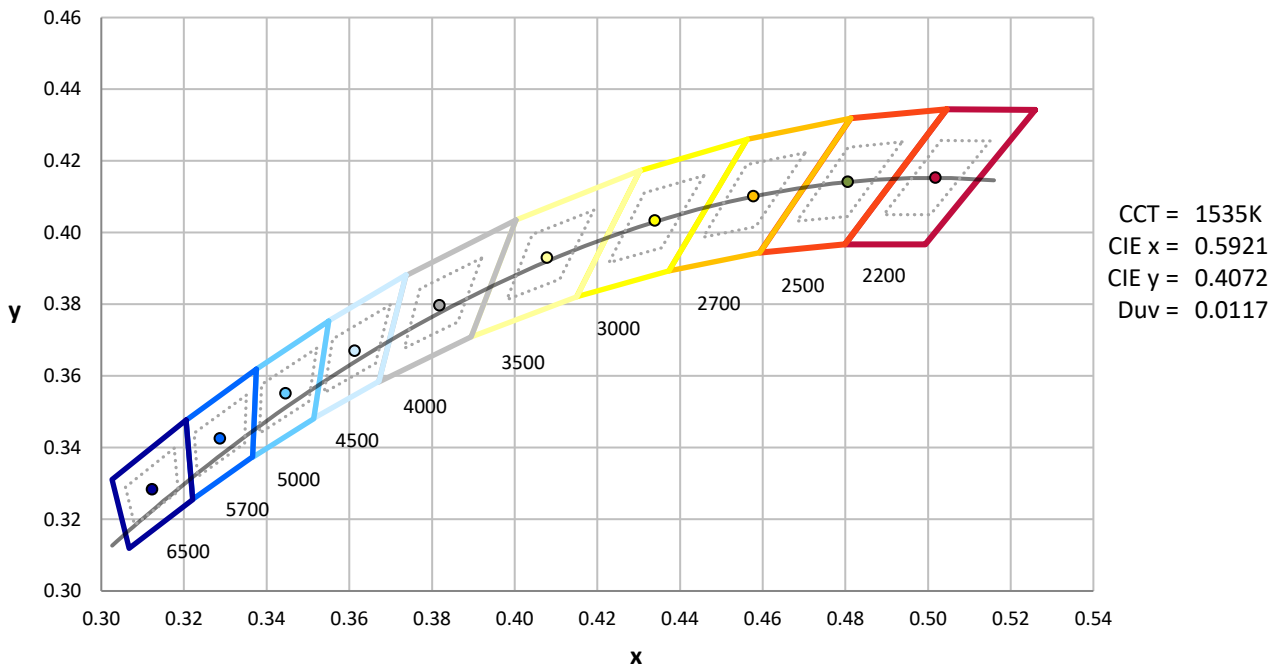
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2511-597-9

CIE 1931 Chromaticity Diagram

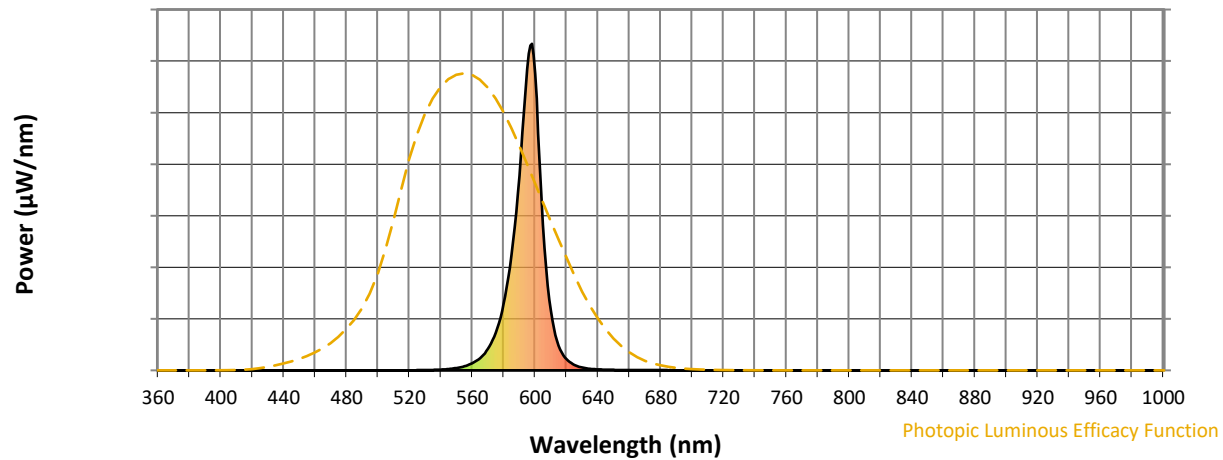


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2511-597-9

Photopic Flux vs. Wavelength

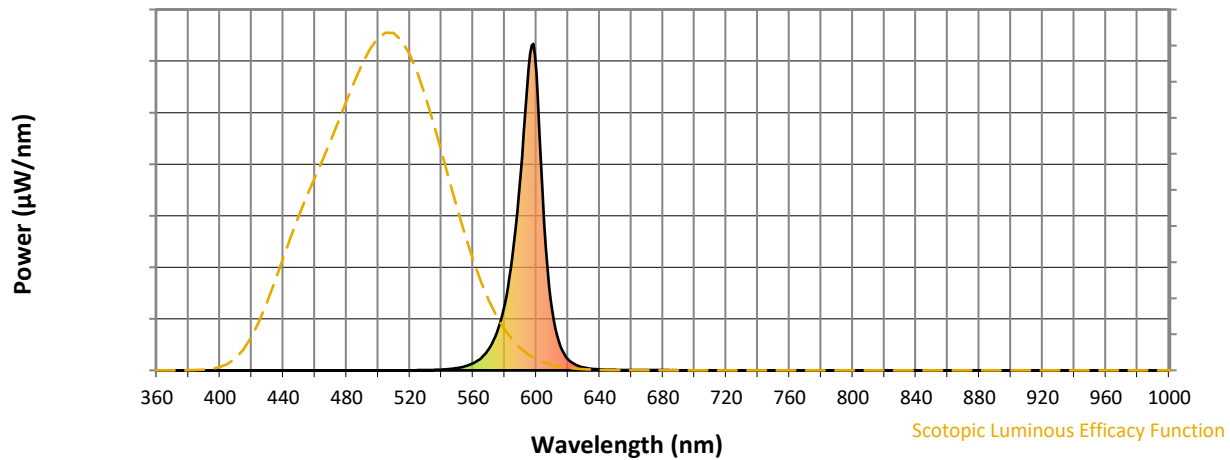


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2511-597-9

Scotopic Flux vs. Wavelength



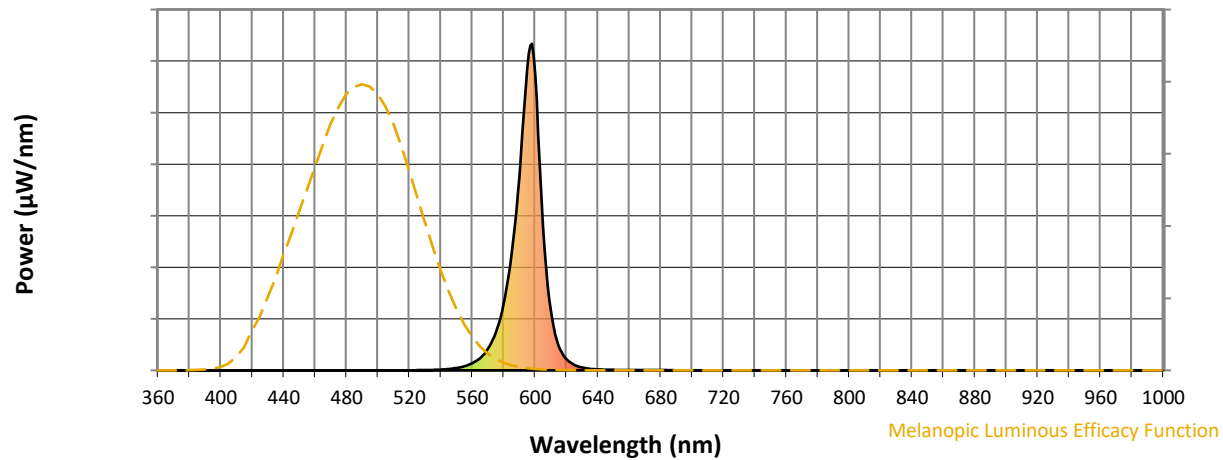
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2511-597-9

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			

REPORT NUMBER: SP1-2511-597-9

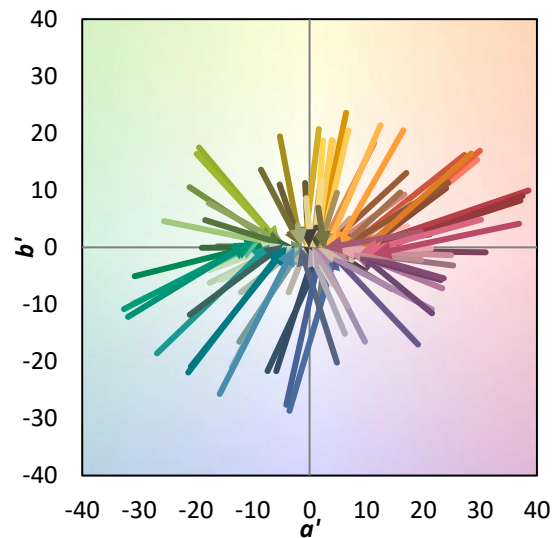
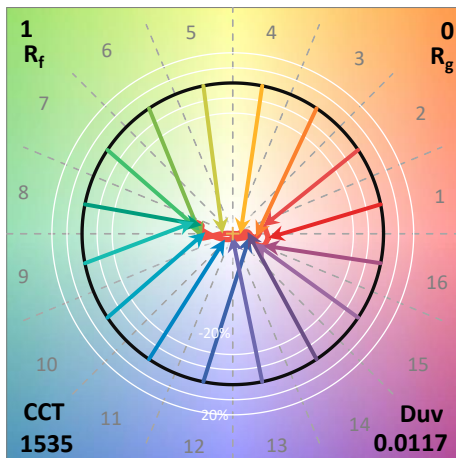
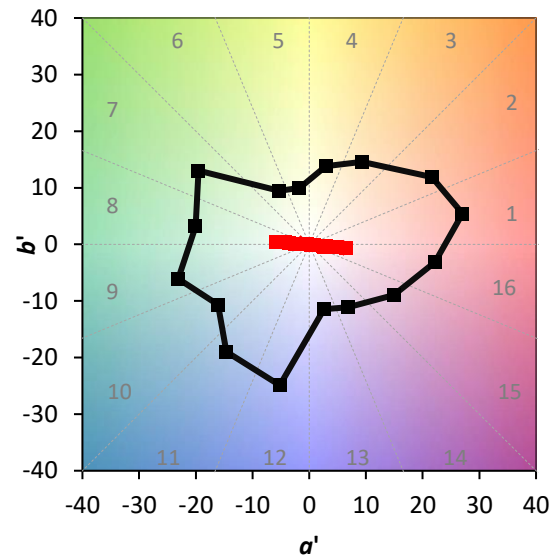
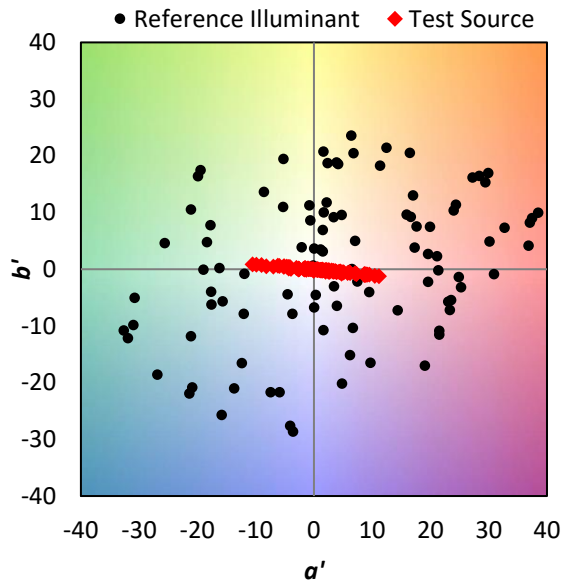
TM-30-18

Summary

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

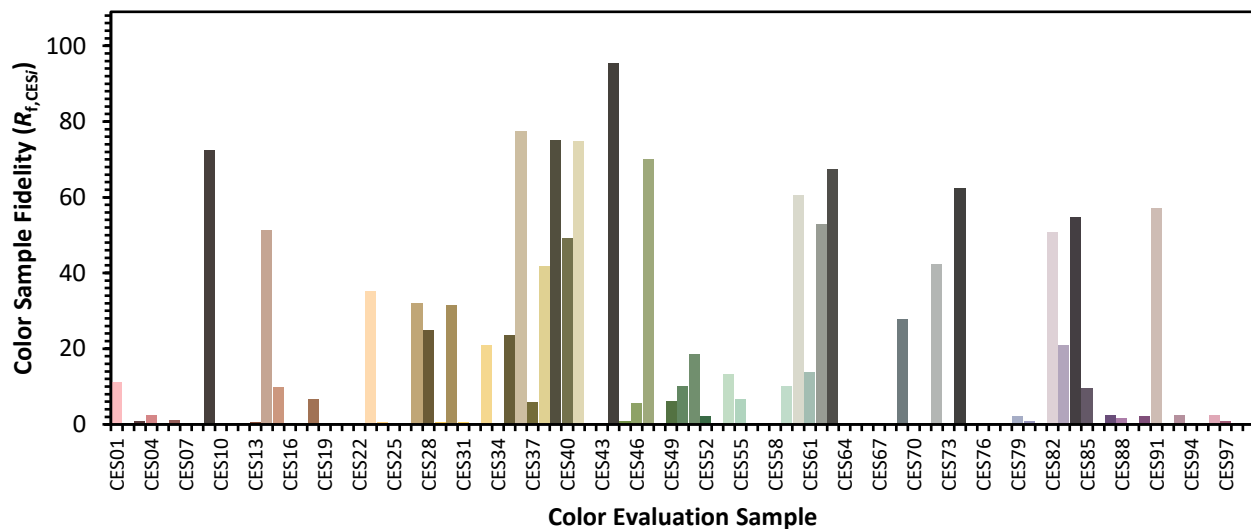


Color Vector Graphics

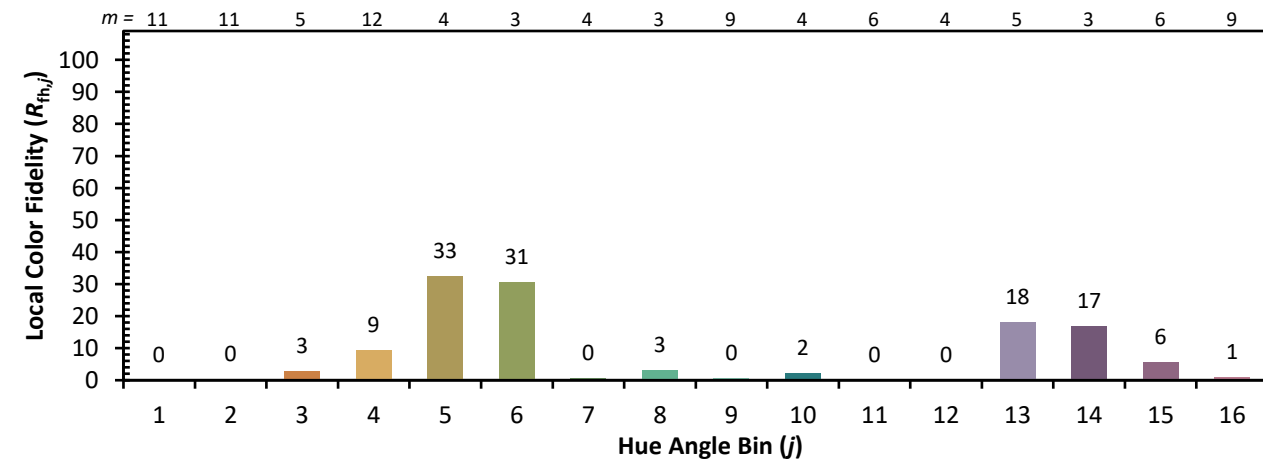
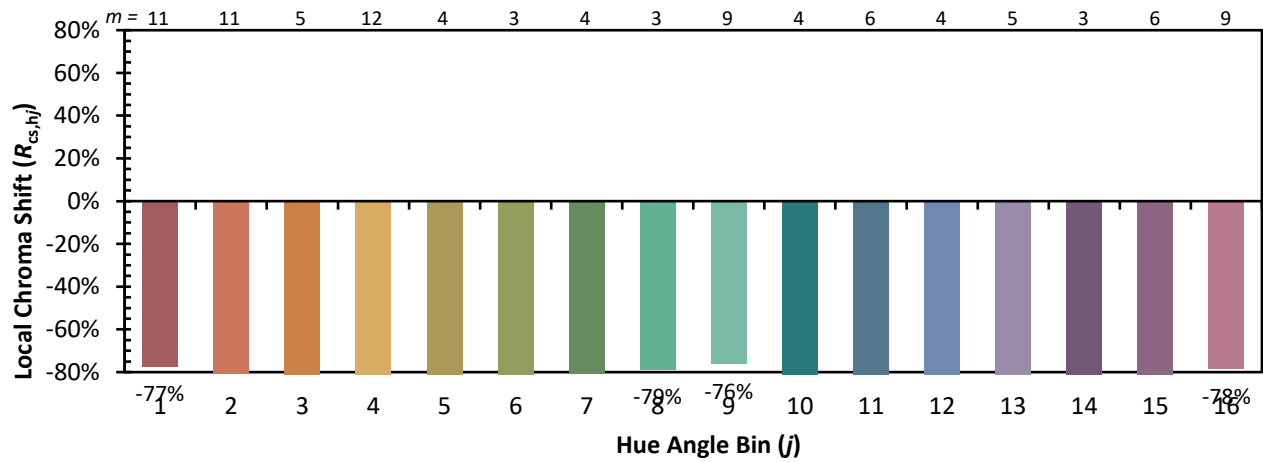


Individual Sample Fidelity Index (R_{fi})

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



REPORT NUMBER: SP1-2511-597-9

TM-30-18

Measure Comparisons



(END OF REPORT)