

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: P1357048

Luminaire Tested: 3ASL4-25VHE-3-A59-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357048
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: 3ASL4-25VHE-3-A59-UNV
Description: 3FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND A59 LEDS 3 ROW
Light Source: -
Ballast/Driver: -

Summary

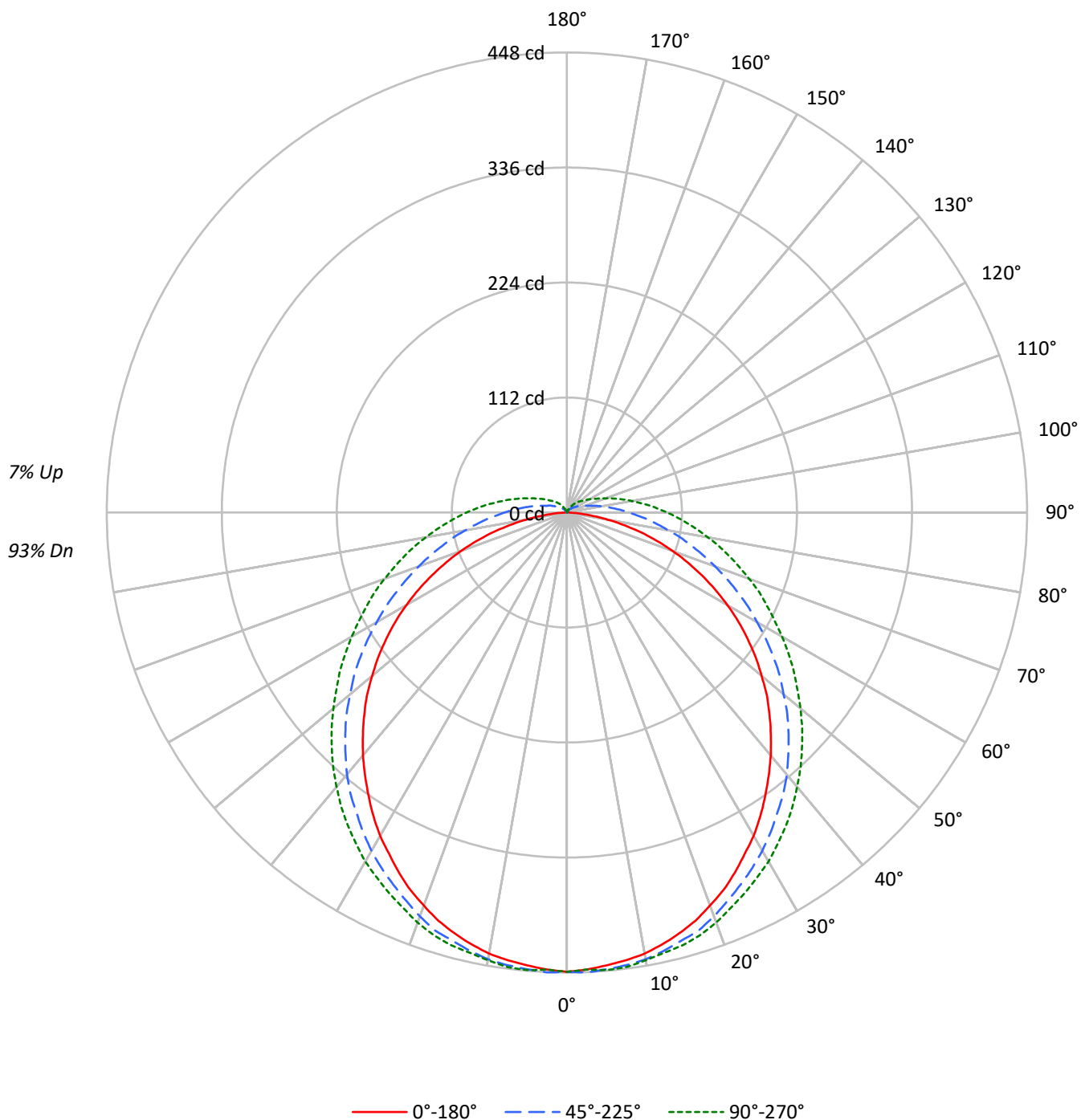
Lumens per Lamp: N/A
Luminaire Lumens: 1521.0 lumens
Efficiency: N/A
Efficacy: 34.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 44.4
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: P1357048

CATALOG NUMBER: 3ASL4-25VHE-3-A59-UNV

Luminous Intensity Polar Plot



TEST NUMBER: P1357048

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4848	4848	4848
5°	4802	4755	4737
10°	4772	4661	4618
15°	4715	4543	4517
20°	4640	4431	4402
25°	4553	4291	4272
30°	4461	4170	4162
35°	4349	4032	4039
40°	4245	3906	3910
45°	4132	3754	3781
50°	4005	3591	3646
55°	3866	3434	3524
60°	3687	3253	3401
65°	3462	3077	3299
70°	3172	2904	3219
75°	2756	2744	3165
80°	2131	2618	3141
85°	1244	2583	3188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4132 cd/sqm

TEST NUMBER: P1357048

CATALOG NUMBER: 3ASL4-25VHE-3-A59-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	2.8
10°-20°	121.8	8.0
20°-30°	184.1	12.1
30°-40°	223.0	14.7
40°-50°	234.2	15.4
50°-60°	218.5	14.4
60°-70°	180.6	11.9
70°-80°	130.0	8.5
80°-90°	80.8	5.3
90°-100°	47.3	3.1
100°-110°	27.1	1.8
110°-120°	15.3	1.0
120°-130°	8.8	0.6
130°-140°	4.7	0.3
140°-150°	2.0	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	348.4	22.9
0°-40°	571.3	37.6
0°-60°	1024.0	67.3
0°-90°	1415.4	93.1
90°-120°	89.7	5.9
90°-150°	105.3	6.9
90°-180°	106.0	7.0
0°-180°	1521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	443	446	446	446	447	42
15°	424	430	432	434	436	120
25°	387	393	400	406	409	178
35°	337	346	357	367	372	211
45°	279	289	305	318	324	215
55°	215	227	246	263	270	192
65°	145	159	183	206	215	144
75°	74	93	126	152	164	79
85°	14	42	79	107	117	17
90°	0	25	60	86	98	1
95°	0	16	46	70	80	0
105°	0	6	25	44	51	0
115°	0	3	15	27	32	0
125°	0	2	9	18	20	0
135°	0	0	6	11	14	0
145°	0	0	3	6	7	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

TEST NUMBER: P1357048

CATALOG NUMBER: 3ASL4-25VHE-3-A59-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	447.3	447.3	447.3	447.3	447.3
2.5°	445.5	448.3	448.3	445.5	445.5
5°	442.7	446.4	446.4	446.4	447.3
7.5°	439.9	444.6	444.6	444.6	446.4
10°	436.2	440.8	441.8	441.8	442.7
12.5°	430.6	436.2	437.1	438.0	439.0
15°	424.1	429.7	431.5	434.3	436.2
17.5°	416.7	423.2	426.9	429.7	431.5
20°	407.4	413.9	418.5	422.2	425.0
22.5°	398.1	403.6	409.2	413.9	416.7
25°	386.9	393.4	399.9	405.5	409.2
27.5°	374.8	382.2	390.6	397.1	400.8
30°	363.6	371.1	380.4	388.8	392.5
32.5°	350.6	359.0	369.2	377.6	382.2
35°	336.7	346.0	357.1	367.4	372.0
37.5°	322.7	332.0	346.0	356.2	360.9
40°	308.8	318.1	333.0	344.1	348.8
42.5°	293.9	303.2	319.0	331.1	336.7
45°	279.0	289.2	305.1	318.1	323.7
47.5°	264.1	274.4	291.1	305.1	310.6
50°	247.4	258.5	275.3	291.1	296.7
52.5°	231.6	242.7	261.3	277.2	282.7
55°	214.8	226.9	245.5	263.2	269.7
57.5°	198.1	210.2	229.7	248.3	255.8
60°	180.4	193.4	213.9	233.4	241.8
62.5°	162.8	176.7	199.0	219.5	227.9
65°	145.1	159.0	183.2	206.5	214.8
67.5°	127.4	142.3	168.3	192.5	202.7
70°	109.7	125.6	153.5	178.6	188.8
72.5°	92.1	108.8	139.5	165.5	175.8
75°	74.4	93.0	125.6	152.5	163.7
77.5°	56.7	78.1	113.5	140.4	151.6
80°	40.9	65.1	100.4	128.3	139.5
82.5°	26.0	52.1	89.3	117.2	128.3
85°	14.0	41.9	79.1	107.0	117.2
87.5°	4.7	32.6	68.8	96.7	107.0
90°	0.0	25.1	60.5	86.5	97.7
92.5°	0.0	19.5	53.0	78.1	88.4
95°	0.0	15.8	45.6	69.8	80.0
97.5°	0.0	13.0	40.0	62.3	71.6
100°	0.0	10.2	34.4	55.8	64.2
102.5°	0.0	8.4	29.8	49.3	57.7
105°	0.0	5.6	25.1	43.7	51.2
107.5°	0.0	4.7	21.4	39.1	45.6
110°	0.0	3.7	19.5	33.5	40.0

TEST NUMBER: P1357048

CATALOG NUMBER: 3ASL4-25VHE-3-A59-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	2.8	17.7	29.8	36.3
115°	0.0	2.8	14.9	27.0	31.6
117.5°	0.0	2.8	13.0	24.2	28.8
120°	0.0	1.9	12.1	21.4	26.0
122.5°	0.0	1.9	10.2	19.5	23.3
125°	0.0	1.9	9.3	17.7	20.5
127.5°	0.0	0.9	8.4	15.8	18.6
130°	0.0	0.9	7.4	14.0	16.7
132.5°	0.0	0.9	6.5	13.0	15.8
135°	0.0	0.0	5.6	11.2	14.0
137.5°	0.0	0.0	4.7	10.2	12.1
140°	0.0	0.0	3.7	8.4	11.2
142.5°	0.0	0.0	2.8	7.4	9.3
145°	0.0	0.0	2.8	6.5	7.4
147.5°	0.0	0.0	1.9	4.7	6.5
150°	0.0	0.0	0.9	3.7	4.7
152.5°	0.0	0.0	0.0	2.8	3.7
155°	0.0	0.0	0.0	1.9	2.8
157.5°	0.0	0.0	0.0	0.0	0.9
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

TEST NUMBER: P1357048

CATALOG NUMBER: 3ASL4-25VHE-3-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	14.81	16.35	15.28	16.80	17.29	16.81	18.35	17.27	18.80	19.28
	3H	16.31	17.71	16.79	18.17	18.70	19.26	20.66	19.74	21.13	21.65
	4H	16.79	18.12	17.29	18.60	19.14	20.44	21.77	20.95	22.26	22.79
	6H	17.06	18.30	17.58	18.80	19.35	21.68	22.92	22.19	23.41	23.97
	8H	17.11	18.30	17.64	18.82	19.38	22.31	23.50	22.84	24.02	24.58
	12H	17.13	18.27	17.66	18.78	19.37	23.00	24.14	23.53	24.65	25.24
4H	2H	15.68	17.01	16.18	17.49	18.03	17.24	18.57	17.74	19.06	19.59
	3H	17.41	18.55	17.93	19.07	19.64	19.92	21.05	20.43	21.58	22.14
	4H	18.02	19.06	18.55	19.59	20.19	21.28	22.31	21.81	22.85	23.44
	6H	18.42	19.33	18.97	19.90	20.50	22.70	23.62	23.26	24.18	24.79
	8H	18.51	19.37	19.07	19.94	20.56	23.44	24.31	24.00	24.87	25.49
	12H	18.56	19.34	19.14	19.93	20.55	24.26	25.04	24.84	25.63	26.25
8H	4H	18.69	19.56	19.25	20.12	20.74	21.49	22.36	22.05	22.92	23.54
	6H	19.27	20.00	19.86	20.61	21.23	23.09	23.82	23.68	24.43	25.05
	8H	19.45	20.11	20.06	20.73	21.37	23.97	24.63	24.58	25.25	25.88
	12H	19.57	20.16	20.18	20.76	21.47	24.97	25.56	25.58	26.16	26.87
12H	4H	18.88	19.67	19.47	20.26	20.88	21.50	22.29	22.08	22.88	23.50
	6H	19.56	20.22	20.17	20.84	21.48	23.13	23.79	23.73	24.41	25.04
	8H	19.84	20.43	20.45	21.03	21.74	24.08	24.67	24.68	25.27	25.98

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

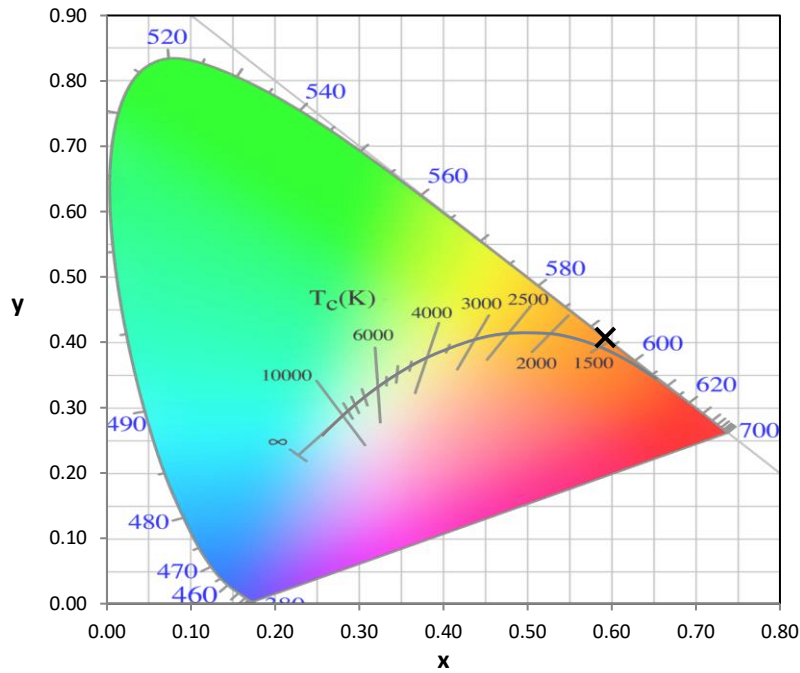
Stabilization Time: 77M
 Operation Time: 2H 17M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2511-597-9

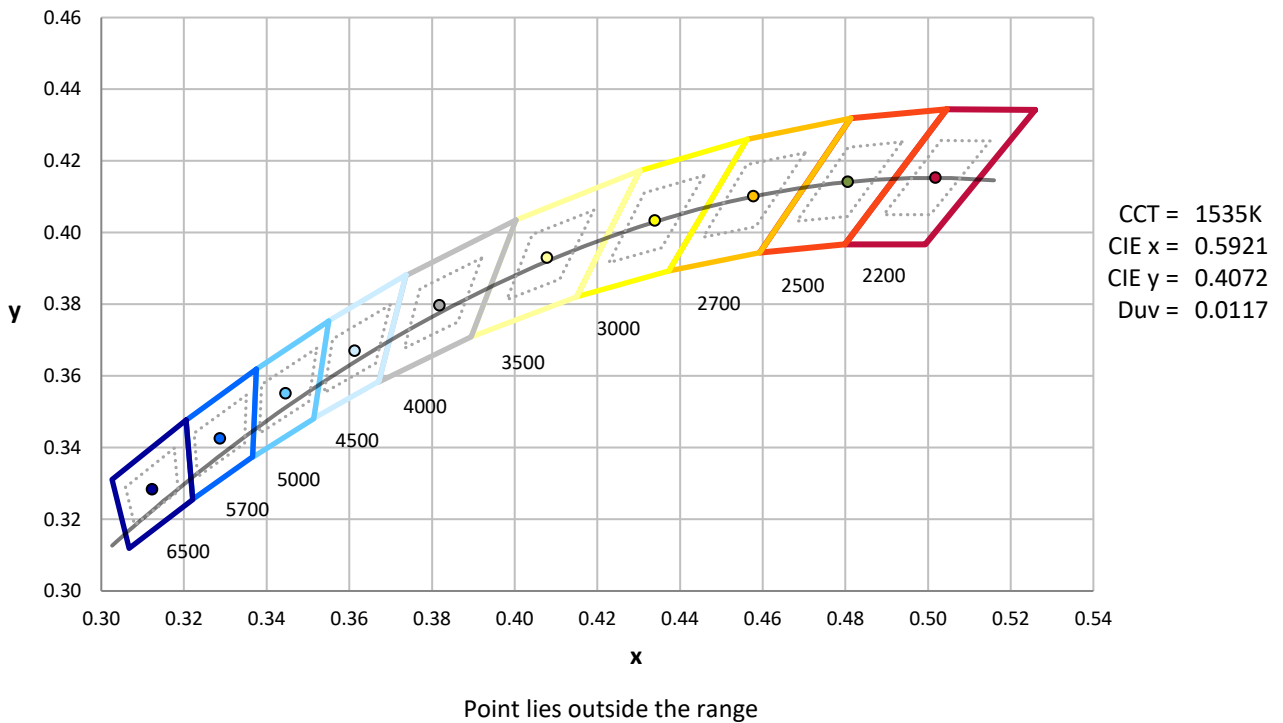
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

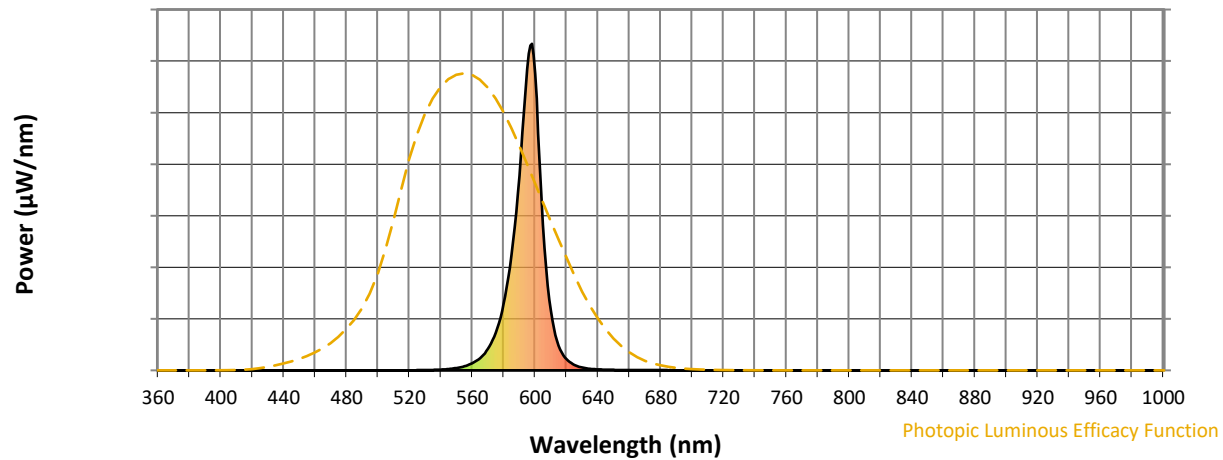
CIE 1931 Chromaticity Diagram



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



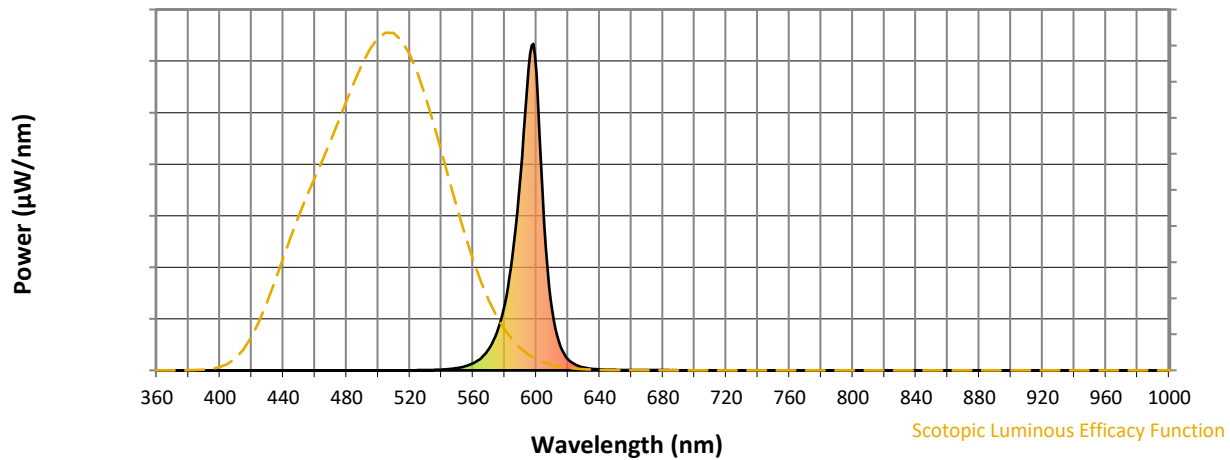
REPORT NUMBER: SP1-2511-597-9

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



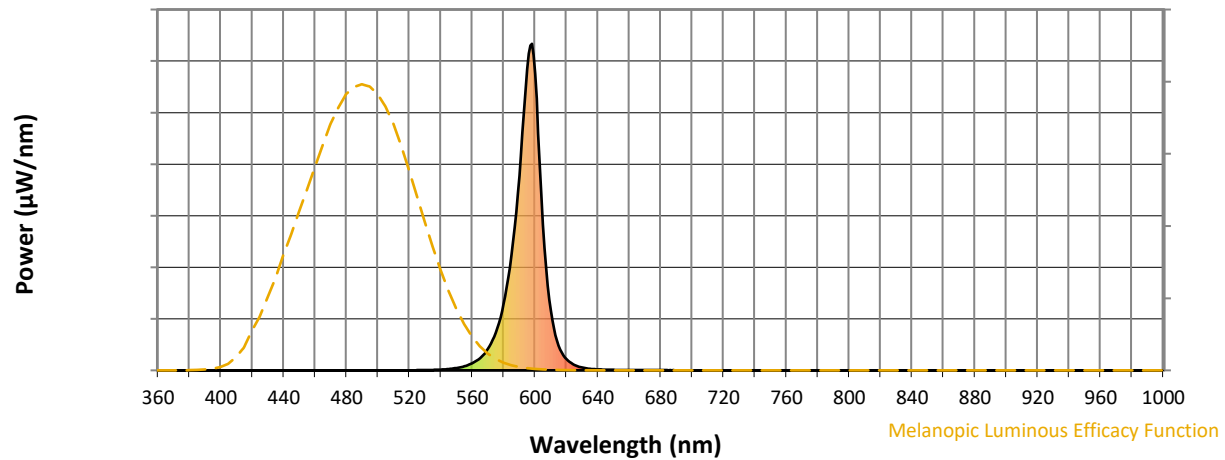
Scotopic Lumens: NR

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

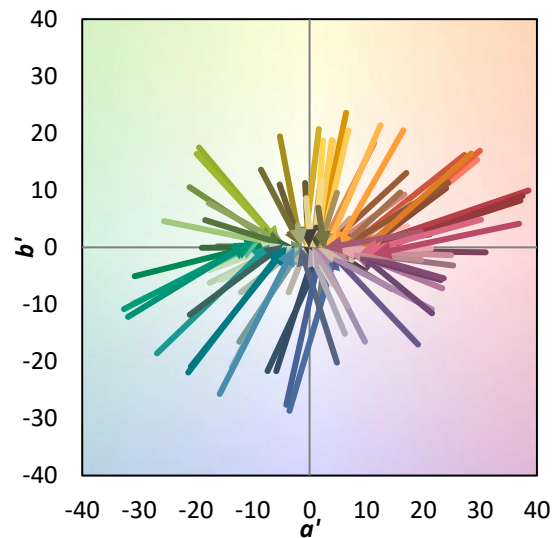
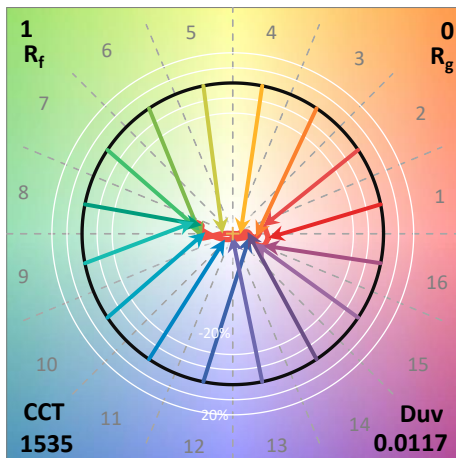
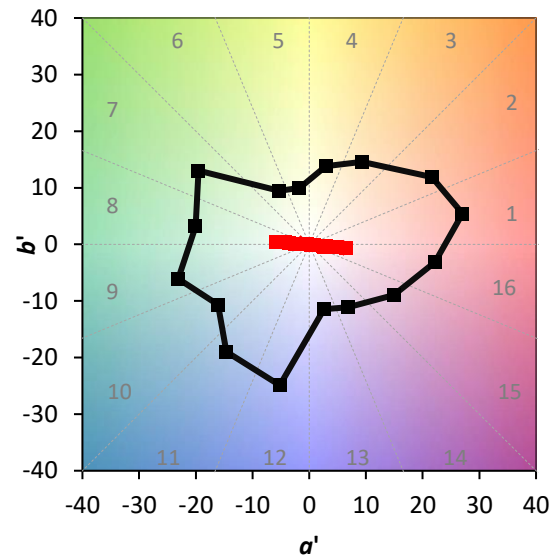
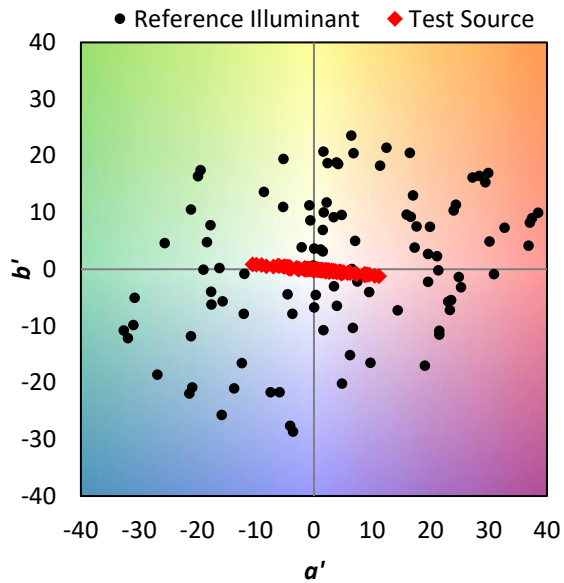
TM-30-18

Summary

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

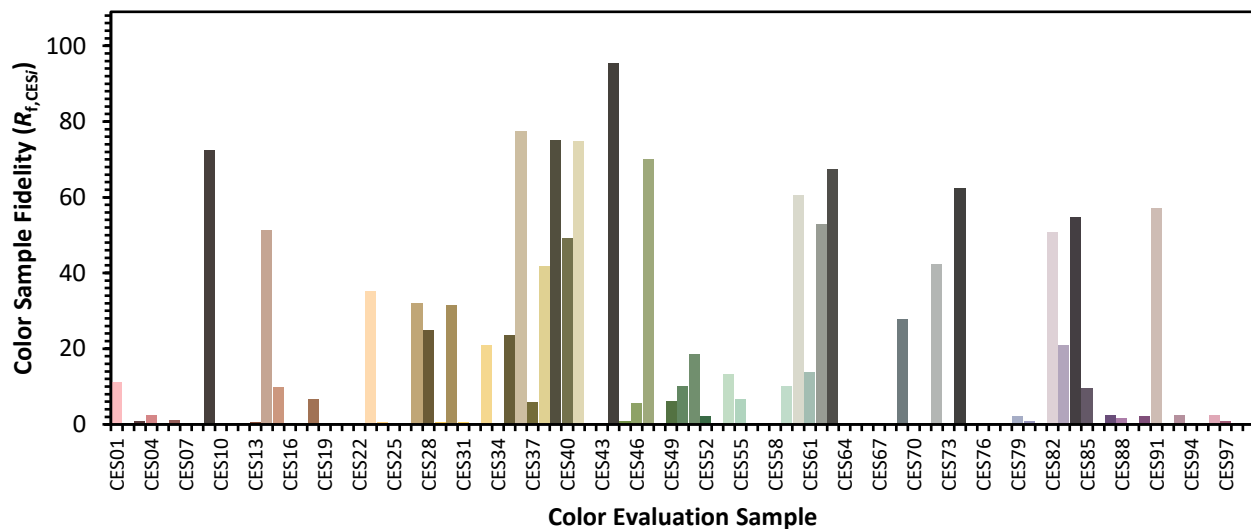


Color Vector Graphics

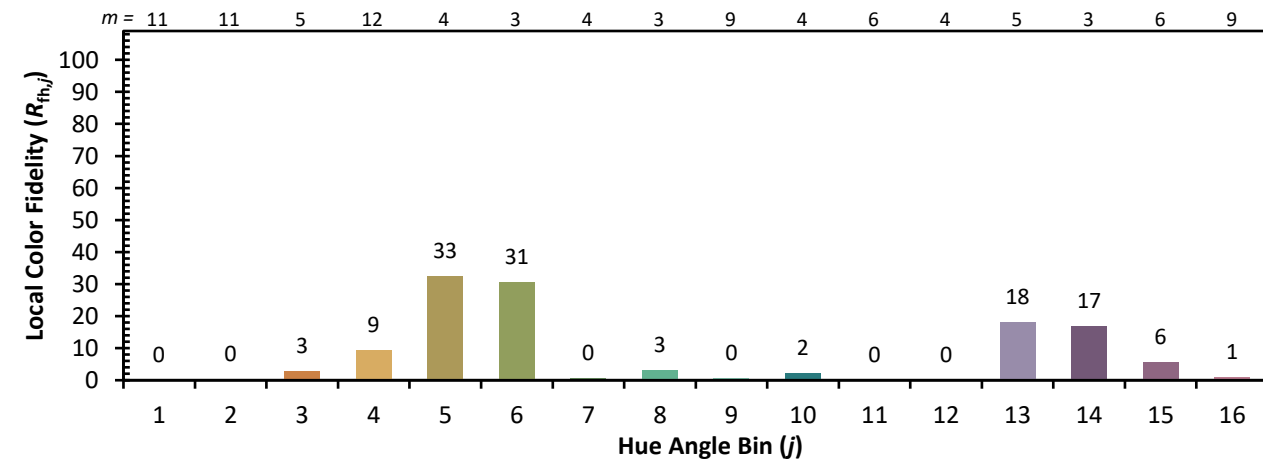
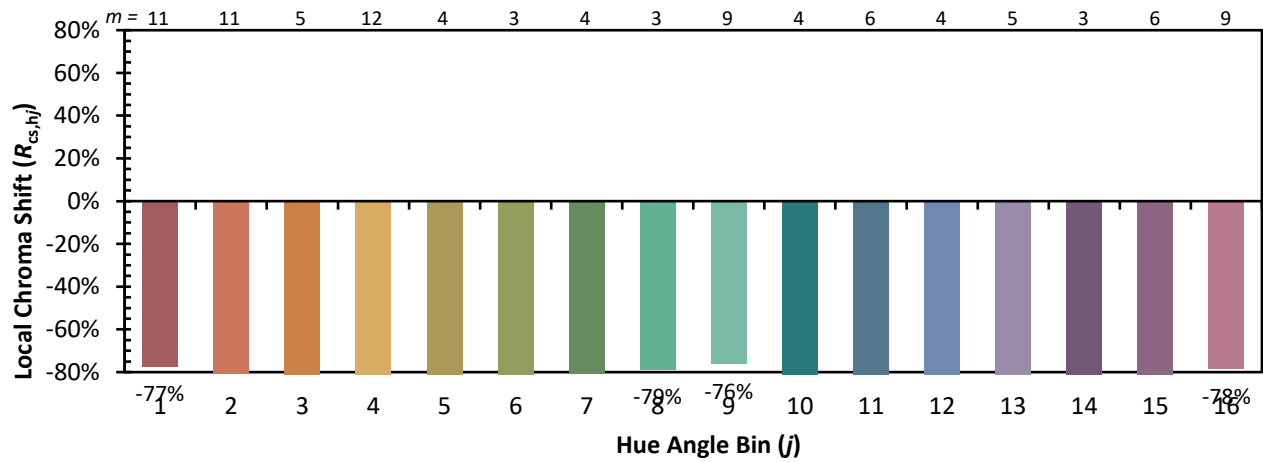


Individual Sample Fidelity Index ($R_{f,i}$)

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



REPORT NUMBER: SP1-2511-597-9

TM-30-18
Measure Comparisons


(END OF REPORT)