

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: P1357085

Luminaire Tested: 3ASL4-5HE-2-G52-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357085
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: 3ASL4-5HE-2-G52-UNV
Description: 3FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

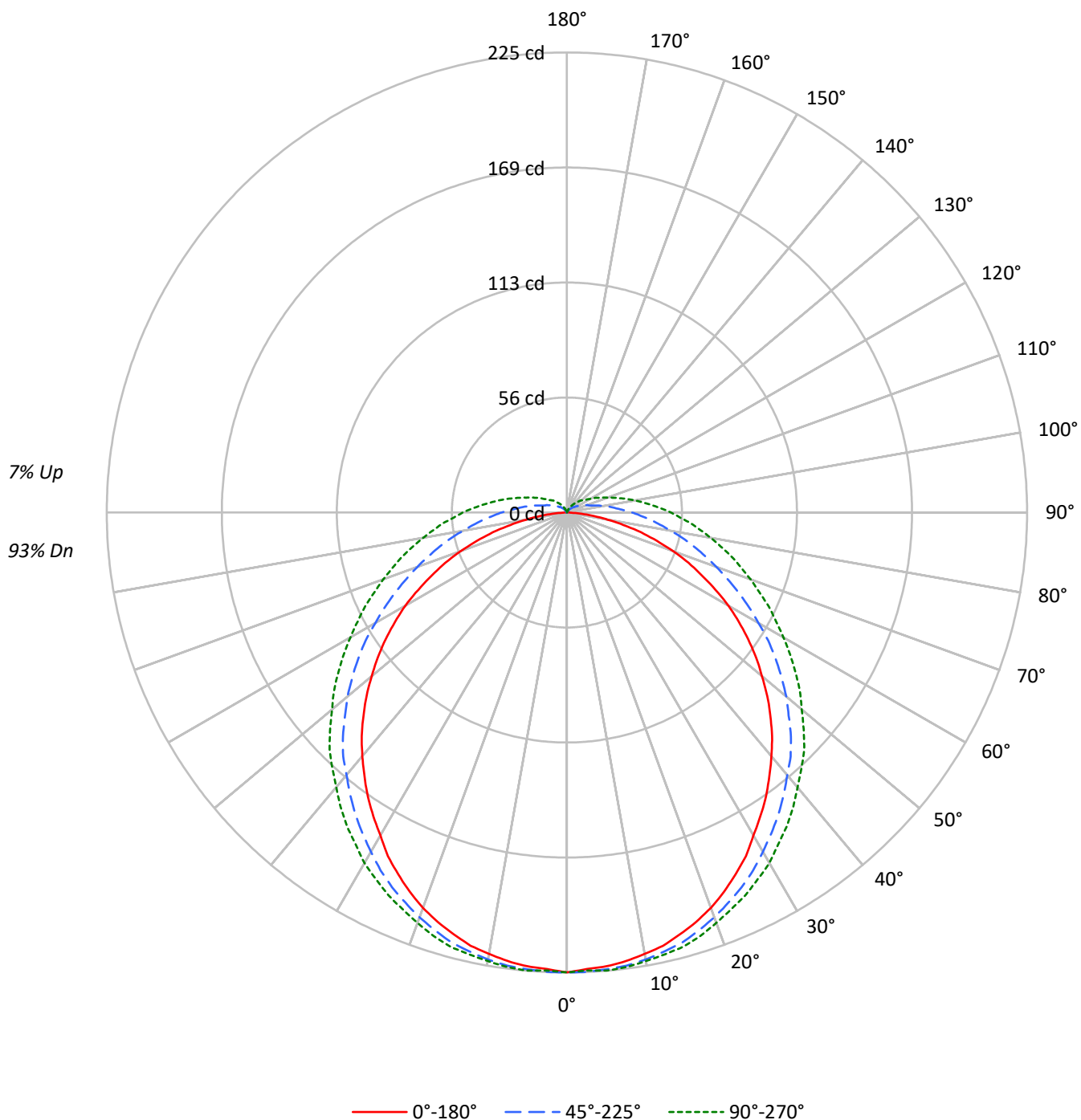
Lumens per Lamp: N/A
Luminaire Lumens: 772.0 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 14.2
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: P1357085

CATALOG NUMBER: 3ASL4-5HE-2-G52-UNV

Luminous Intensity Polar Plot



TEST NUMBER: P1357085

CATALOG NUMBER: 3ASL4-5HE-2-G52-UNV

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	0
RCR																				
0	117	117	117	117	114	114	114	114	107	107	107		101	101	101		95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84		86	83	80		81	79	77	74
2	95	86	79	72	92	84	77	71	79	73	68		74	70	65		70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56		65	59	55		62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48		58	51	46		55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41		52	45	40		49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36		47	40	35		44	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	34	29	41	33	28		39	32	28		37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25		36	29	25		34	29	24	22
10	50	37	29	24	49	36	28	23	35	28	23		33	27	22		32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2438	2438	2438
5°	2417	2388	2382
10°	2398	2342	2324
15°	2375	2293	2277
20°	2344	2231	2212
25°	2297	2170	2156
30°	2238	2100	2099
35°	2192	2036	2035
40°	2139	1966	1966
45°	2084	1906	1917
50°	2015	1826	1842
55°	1947	1742	1784
60°	1864	1645	1720
65°	1737	1555	1672
70°	1596	1472	1628
75°	1389	1407	1612
80°	1068	1346	1608
85°	631	1339	1654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2084 cd/sqm

TEST NUMBER: P1357085

CATALOG NUMBER: 3ASL4-5HE-2-G52-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	2.8
10°-20°	61.3	7.9
20°-30°	92.9	12.0
30°-40°	112.3	14.6
40°-50°	118.4	15.3
50°-60°	110.5	14.3
60°-70°	91.3	11.8
70°-80°	66.2	8.6
80°-90°	41.8	5.4
90°-100°	25.0	3.2
100°-110°	14.3	1.9
110°-120°	8.1	1.1
120°-130°	4.6	0.6
130°-140°	2.5	0.3
140°-150°	1.1	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	175.5	22.7
0°-40°	287.9	37.3
0°-60°	516.8	66.9
0°-90°	716.2	92.8
90°-120°	47.4	6.1
90°-150°	55.6	7.2
90°-180°	56.0	7.3
0°-180°	772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	225	225	225	225	225	
5°	223	225	224	224	225	21
15°	214	216	218	218	220	60
25°	195	198	202	205	206	90
35°	170	174	180	185	187	106
45°	141	146	155	161	164	109
55°	108	115	124	133	136	97
65°	73	81	93	104	109	72
75°	38	47	64	78	83	39
85°	7	22	41	55	61	9
90°	0	13	32	45	51	0
95°	0	8	24	37	42	0
105°	0	3	13	23	27	0
115°	0	1	8	14	17	0
125°	0	1	5	9	11	0
135°	0	0	3	6	7	0
145°	0	0	1	4	4	0
155°	0	0	0	1	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1357085

CATALOG NUMBER: 3ASL4-5HE-2-G52-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	224.9	224.9	224.9	224.9	224.9
2.5°	223.5	225.6	224.9	224.2	224.2
5°	222.8	224.9	224.2	224.2	224.9
7.5°	221.3	223.5	223.5	223.5	224.2
10°	219.2	222.0	222.0	222.0	222.8
12.5°	217.1	219.2	219.9	220.6	221.3
15°	213.6	216.4	217.8	218.5	219.9
17.5°	210.0	212.1	214.3	216.4	217.1
20°	205.8	208.6	210.7	212.9	213.6
22.5°	200.8	203.7	206.5	208.6	210.0
25°	195.2	198.0	202.2	205.1	206.5
27.5°	189.5	192.3	197.3	200.8	202.2
30°	182.4	186.7	191.6	195.9	198.0
32.5°	176.1	180.3	186.0	190.9	192.3
35°	169.7	174.0	180.3	185.3	187.4
37.5°	162.6	167.6	174.0	179.6	181.7
40°	155.6	160.5	167.6	174.0	175.4
42.5°	148.5	153.5	161.9	167.6	169.7
45°	140.7	146.4	154.9	161.2	164.1
47.5°	132.9	138.6	147.1	154.2	157.0
50°	124.5	130.8	140.0	147.1	149.9
52.5°	116.7	123.0	132.2	140.0	143.6
55°	108.2	114.6	124.5	132.9	136.5
57.5°	99.7	106.1	116.7	125.9	129.4
60°	91.2	97.6	108.2	118.8	122.3
62.5°	82.0	89.1	100.4	111.0	115.3
65°	72.8	80.6	92.6	104.0	108.9
67.5°	64.4	72.1	84.9	97.6	101.8
70°	55.2	63.6	77.8	90.5	95.5
72.5°	46.0	55.2	70.7	84.2	89.1
75°	37.5	47.4	64.4	77.8	83.4
77.5°	28.3	40.3	58.0	72.1	77.1
80°	20.5	33.2	51.6	66.5	71.4
82.5°	13.4	26.9	46.0	60.8	65.8
85°	7.1	21.9	41.0	55.2	60.8
87.5°	2.1	17.0	36.1	50.2	55.2
90°	0.0	13.4	31.8	45.3	50.9
92.5°	0.0	10.6	27.6	41.0	46.0
95°	0.0	8.5	24.0	36.8	41.7
97.5°	0.0	7.1	21.2	33.2	37.5
100°	0.0	5.7	18.4	29.7	33.9
102.5°	0.0	4.2	15.6	26.2	30.4
105°	0.0	2.8	13.4	23.3	26.9
107.5°	0.0	2.1	11.3	20.5	24.0
110°	0.0	2.1	10.6	17.7	21.2



TEST NUMBER: P1357085

CATALOG NUMBER: 3ASL4-5HE-2-G52-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.4	9.2	16.3	19.1
115°	0.0	1.4	7.8	14.1	17.0
117.5°	0.0	1.4	7.1	12.7	15.6
120°	0.0	1.4	6.4	11.3	13.4
122.5°	0.0	0.7	5.7	9.9	12.0
125°	0.0	0.7	5.0	9.2	10.6
127.5°	0.0	0.7	4.2	8.5	9.9
130°	0.0	0.7	4.2	7.8	9.2
132.5°	0.0	0.0	3.5	7.1	8.5
135°	0.0	0.0	2.8	5.7	7.1
137.5°	0.0	0.0	2.8	5.0	6.4
140°	0.0	0.0	2.1	5.0	5.7
142.5°	0.0	0.0	1.4	4.2	5.0
145°	0.0	0.0	1.4	3.5	4.2
147.5°	0.0	0.0	0.7	2.8	3.5
150°	0.0	0.0	0.7	2.1	2.8
152.5°	0.0	0.0	0.0	1.4	2.1
155°	0.0	0.0	0.0	0.7	1.4
157.5°	0.0	0.0	0.0	0.0	0.7
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: P1357085

CATALOG NUMBER: 3ASL4-5HE-2-G52-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	12.40	13.93	12.87	14.39	14.88	14.43	15.97	14.90	16.43	16.92
	3H	13.90	15.30	14.39	15.77	16.30	16.87	18.27	17.35	18.74	19.27
	4H	14.38	15.71	14.89	16.20	16.74	18.07	19.39	18.57	19.88	20.43
	6H	14.66	15.89	15.18	16.39	16.96	19.32	20.56	19.84	21.06	21.62
	8H	14.71	15.90	15.24	16.42	16.99	19.97	21.15	20.50	21.68	22.24
	12H	14.73	15.86	15.26	16.38	16.98	20.67	21.81	21.21	22.33	22.92
4H	2H	13.27	14.60	13.78	15.09	15.63	14.86	16.19	15.37	16.68	17.22
	3H	15.01	16.15	15.53	16.68	17.24	17.53	18.66	18.05	19.19	19.76
	4H	15.62	16.66	16.16	17.20	17.80	18.90	19.94	19.44	20.48	21.08
	6H	16.03	16.94	16.58	17.51	18.12	20.36	21.27	20.91	21.84	22.45
	8H	16.12	16.98	16.69	17.55	18.18	21.11	21.97	21.67	22.54	23.16
	12H	16.17	16.95	16.76	17.55	18.18	21.94	22.72	22.53	23.32	23.95
8H	4H	16.31	17.17	16.88	17.74	18.37	19.13	19.99	19.69	20.55	21.18
	6H	16.90	17.63	17.50	18.24	18.87	20.75	21.48	21.35	22.09	22.72
	8H	17.09	17.75	17.70	18.37	19.01	21.65	22.31	22.26	22.93	23.57
	12H	17.21	17.80	17.82	18.41	19.11	22.67	23.26	23.28	23.87	24.58
12H	4H	16.51	17.29	17.10	17.89	18.52	19.13	19.92	19.72	20.51	21.14
	6H	17.20	17.86	17.81	18.48	19.12	20.79	21.45	21.40	22.07	22.72
	8H	17.49	18.08	18.10	18.68	19.39	21.76	22.35	22.37	22.96	23.67

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-8

Test Date: 01/22/2026

Luminaire Tested: 4ASL-2-G520-UNV-OPL-1_600mA

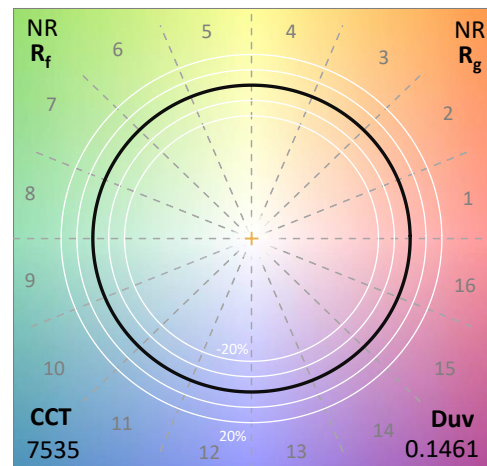
Data in this report applies to families of products including 4ASL

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-8
 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-G520-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND GREEN 520NM LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K):	7535	CRI (Ra):	-11.7		
CIE u':	0.0718	R1:	-30.6	R9:	-351.9
CIE v':	0.5710	R2:	5.1	R10:	-75.5
Duv:	0.1461	R3:	5.6	R11:	-78.0
CIE x:	0.1962	R4:	-51.7	R12:	-14.7
CIE y:	0.6931	R5:	-6.4	R13:	-32.5
CIE z:	0.1107	R6:	-0.6	R14:	52.7
Peak Wavelength (nm):	524	R7:	10.9	R15:	-37.0
Dominant Wavelength (nm):	529	R8:	-25.8		
Purity:	75.95236				
Rf:	NR				
Rg:	NR				



Test Conditions

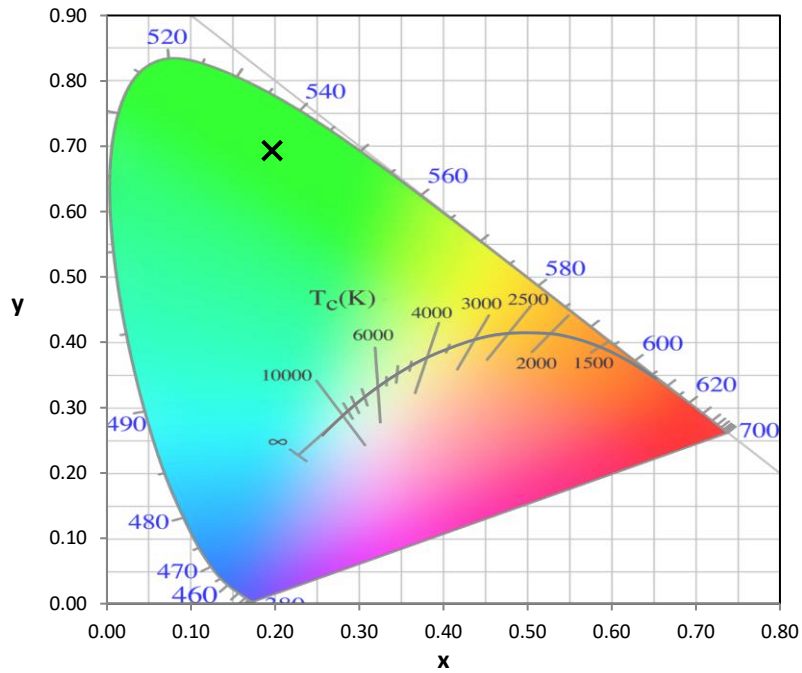
Stabilization Time: 48M
 Operation Time: 1H 48M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2511-597-8

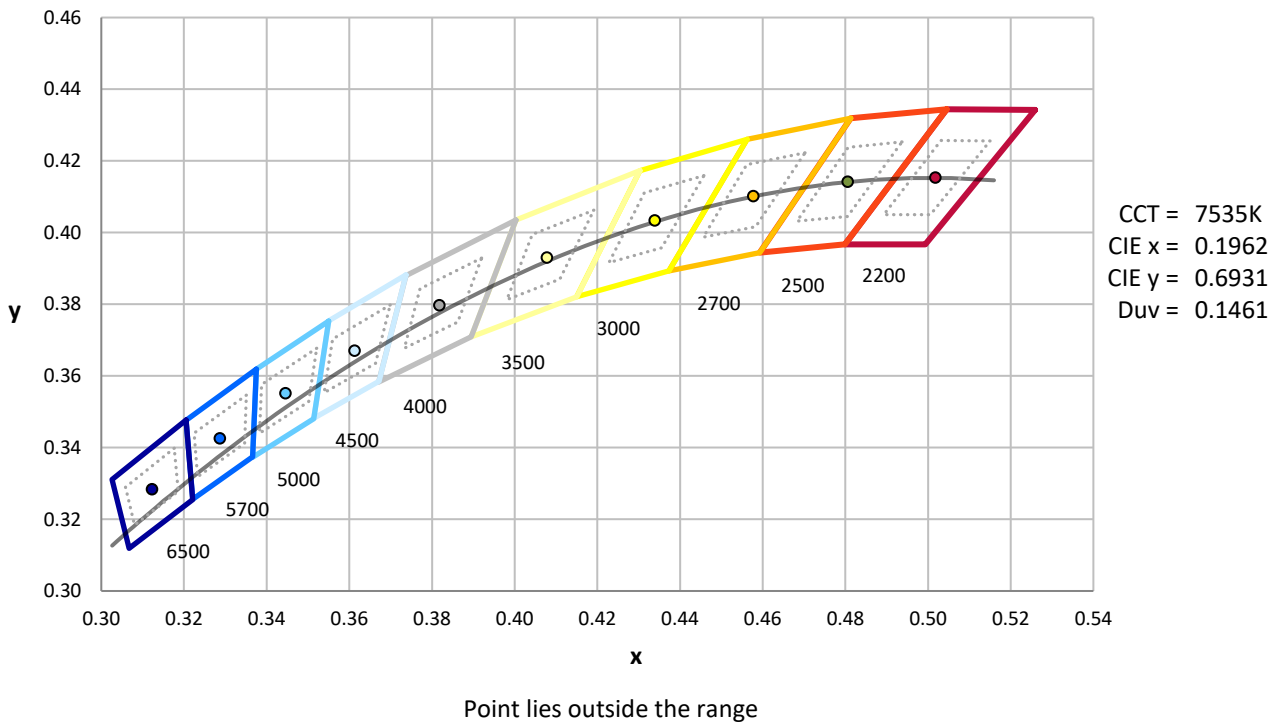
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2511-597-8

CIE 1931 Chromaticity Diagram

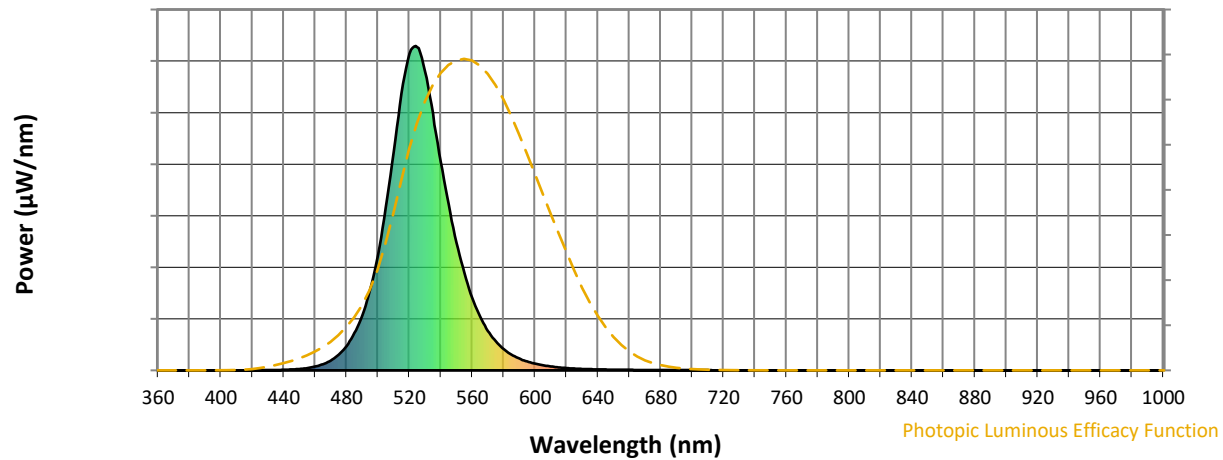


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2511-597-8

Photopic Flux vs. Wavelength

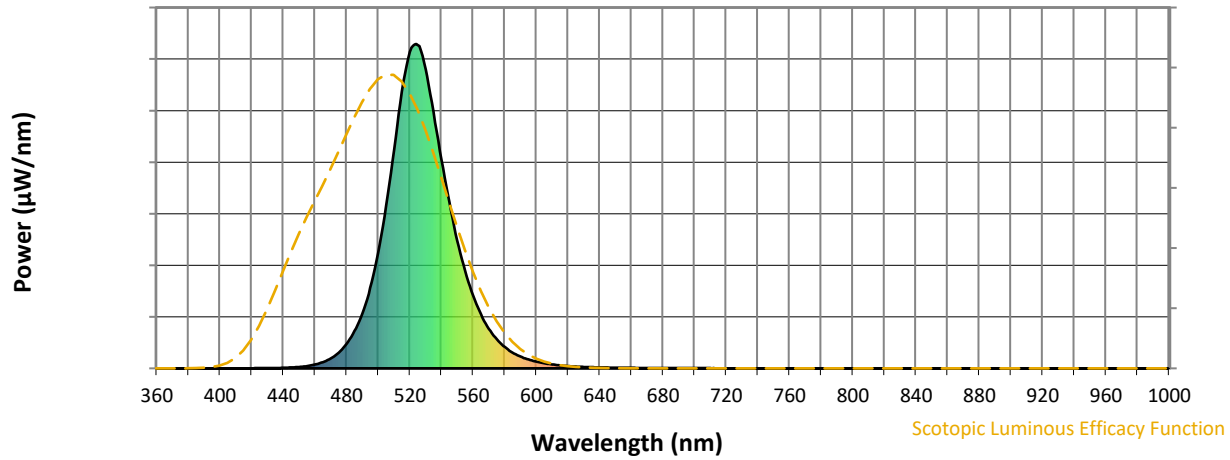


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-8

Scotopic Flux vs. Wavelength



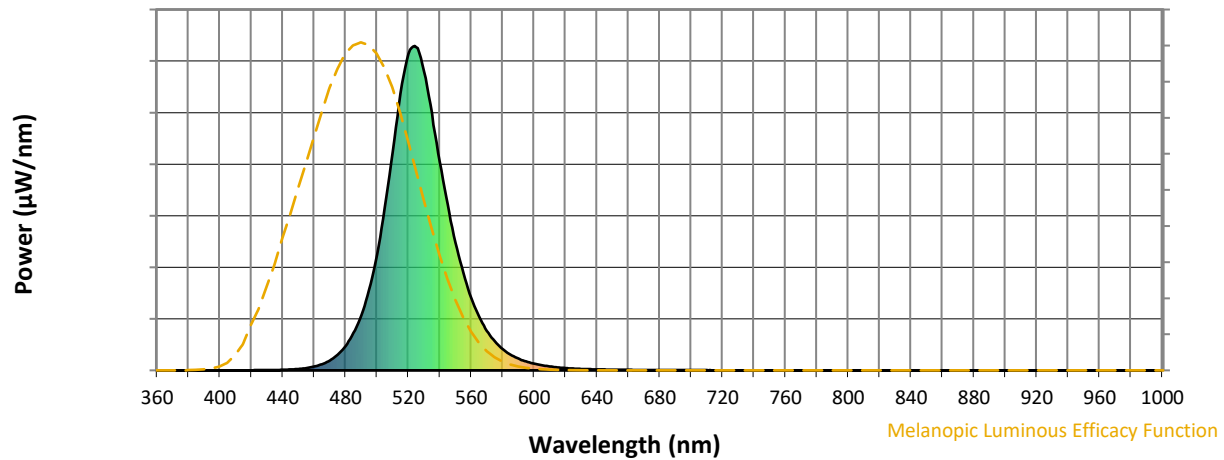
Scotopic Lumens: NR

S/P: 2.63

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.87

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

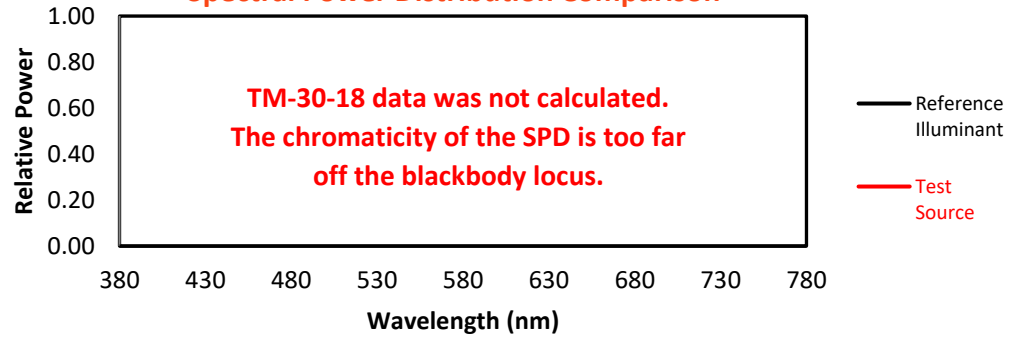
REPORT NUMBER: SP1-2511-597-8

TM-30-18

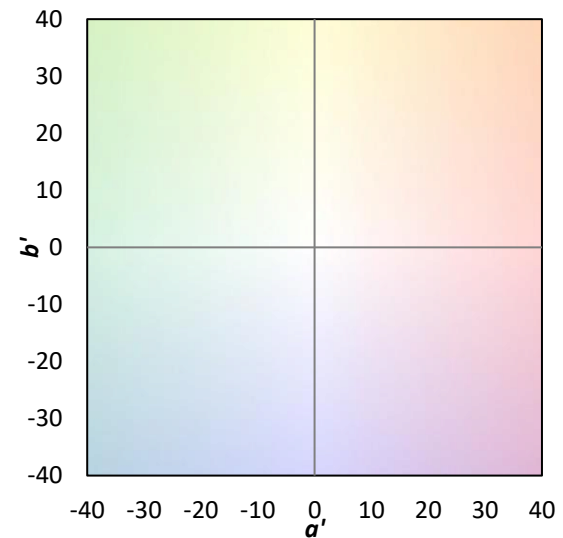
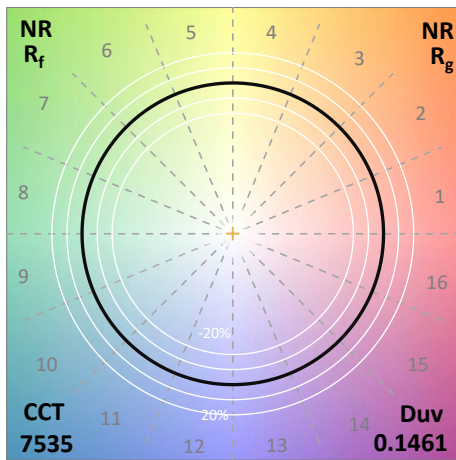
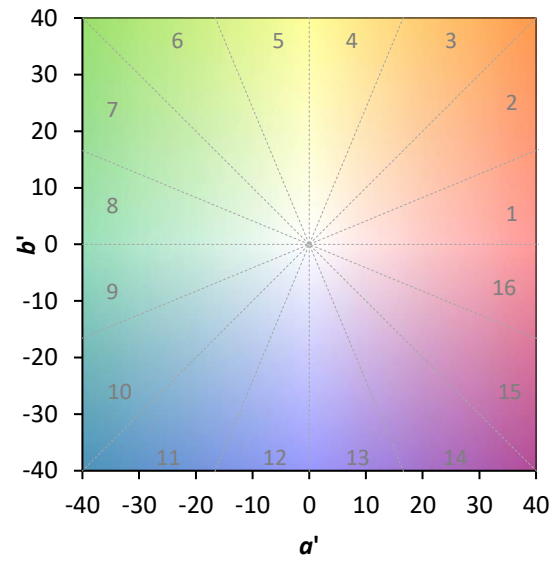
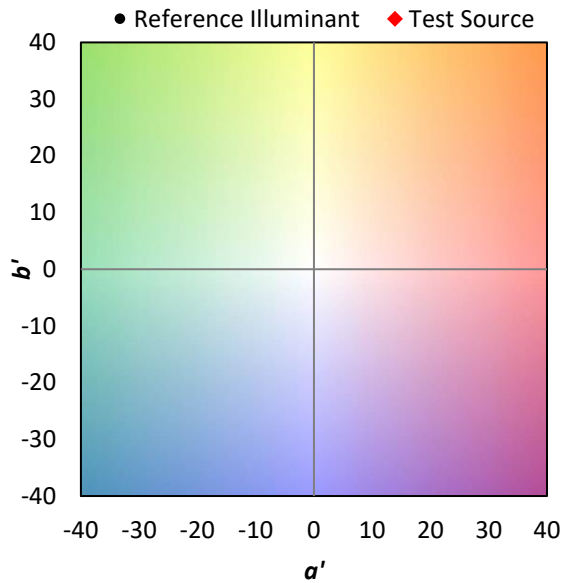
Summary

$R_f = 0$
 $R_g = 0$
 $CIE R_a = -11.7$
 $R_g = -351.9$

Spectral Power Distribution Comparison



Color Vector Graphics

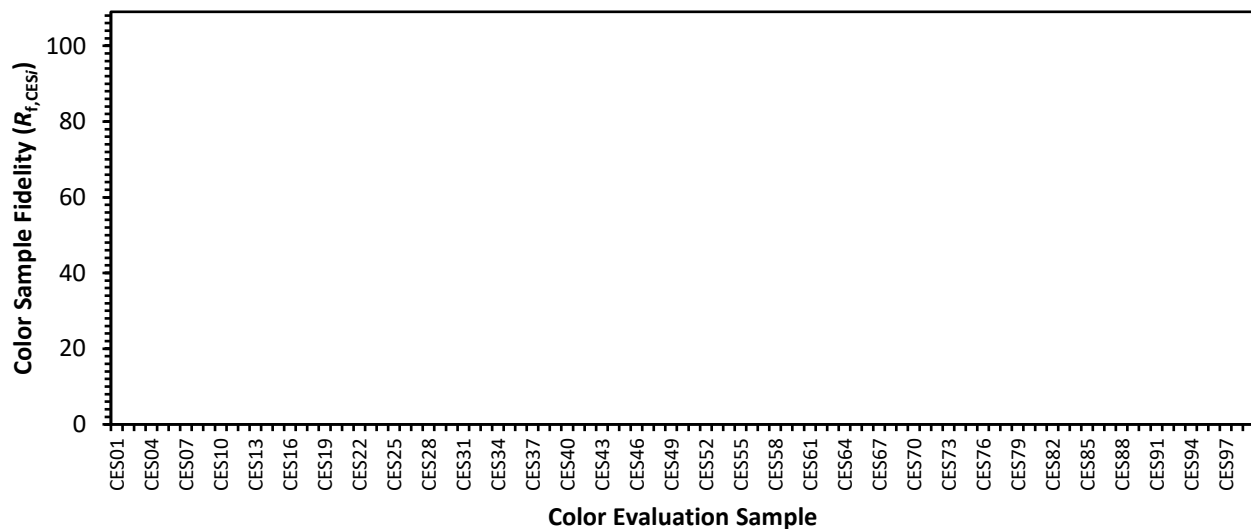


REPORT NUMBER: SP1-2511-597-8

TM-30-18

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

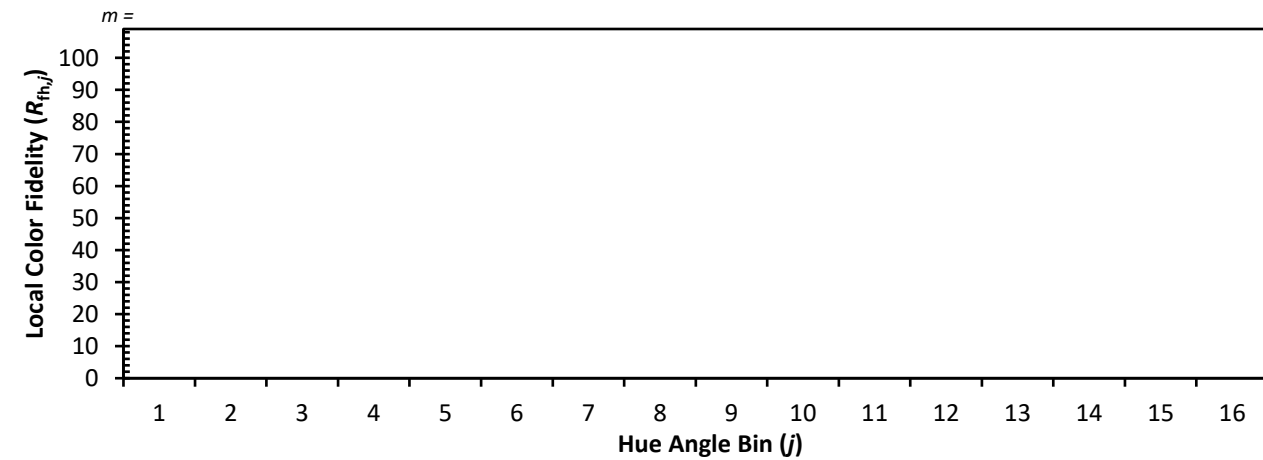
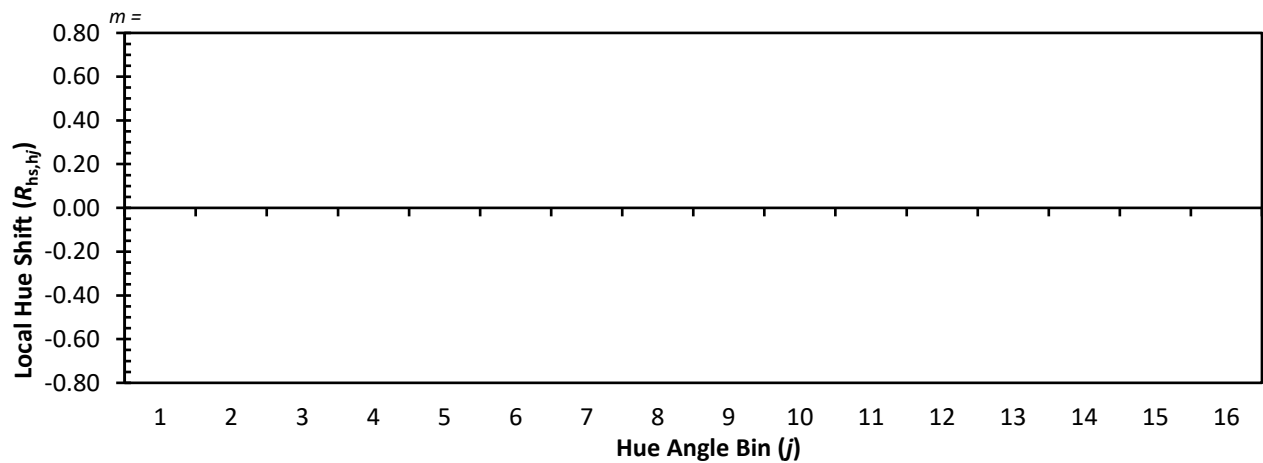
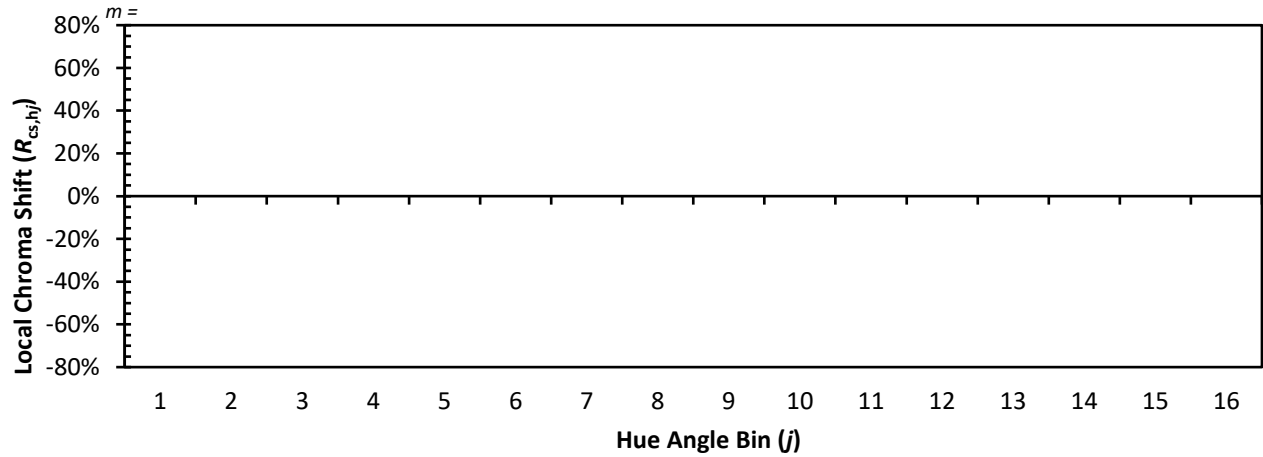
CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 0	CES34 = 0	CES59 = 0	CES84 = 0
CES10 = 0	CES35 = 0	CES60 = 0	CES85 = 0
CES11 = 0	CES36 = 0	CES61 = 0	CES86 = 0
CES12 = 0	CES37 = 0	CES62 = 0	CES87 = 0
CES13 = 0	CES38 = 0	CES63 = 0	CES88 = 0
CES14 = 0	CES39 = 0	CES64 = 0	CES89 = 0
CES15 = 0	CES40 = 0	CES65 = 0	CES90 = 0
CES16 = 0	CES41 = 0	CES66 = 0	CES91 = 0
CES17 = 0	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 0	CES43 = 0	CES68 = 0	CES93 = 0
CES19 = 0	CES44 = 0	CES69 = 0	CES94 = 0
CES20 = 0	CES45 = 0	CES70 = 0	CES95 = 0
CES21 = 0	CES46 = 0	CES71 = 0	CES96 = 0
CES22 = 0	CES47 = 0	CES72 = 0	CES97 = 0
CES23 = 0	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 0	CES49 = 0	CES74 = 0	CES99 = 0
CES25 = 0	CES50 = 0	CES75 = 0	



REPORT NUMBER: SP1-2511-597-8

TM-30-18

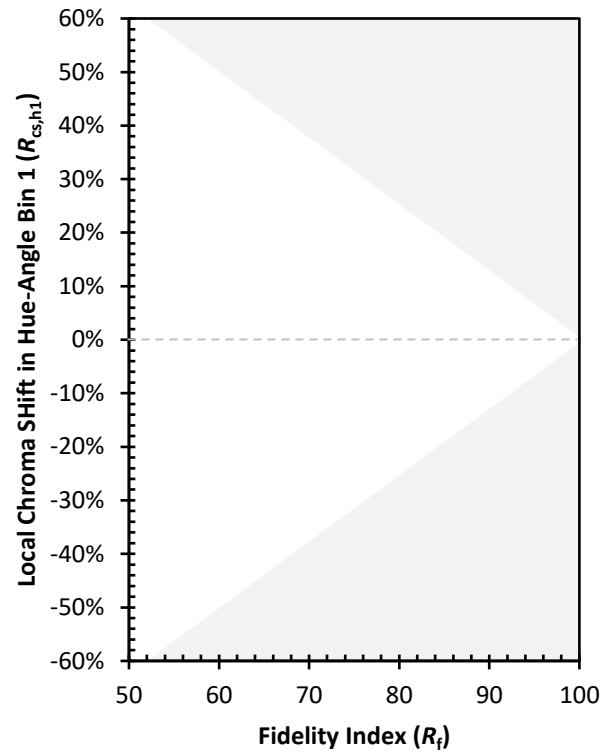
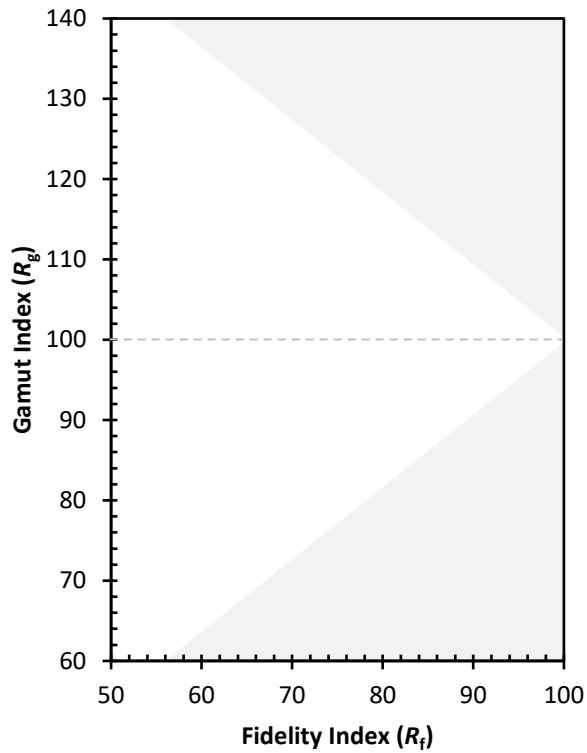
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2511-597-8

TM-30-18

Measure Comparisons



(END OF REPORT)