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: P1356752

Luminaire Tested: 1ASL4-30VHE-3-G52-UNV

Issue Date: 2/17/2026

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1356752
	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:	1ASL4-30VHE-3-G52-UNV
Description:	1FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 3 ROW
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1487.0 lumens
Efficiency:	N/A
Efficacy:	49.1 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.3 / 1.39
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 0.98' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	30.3
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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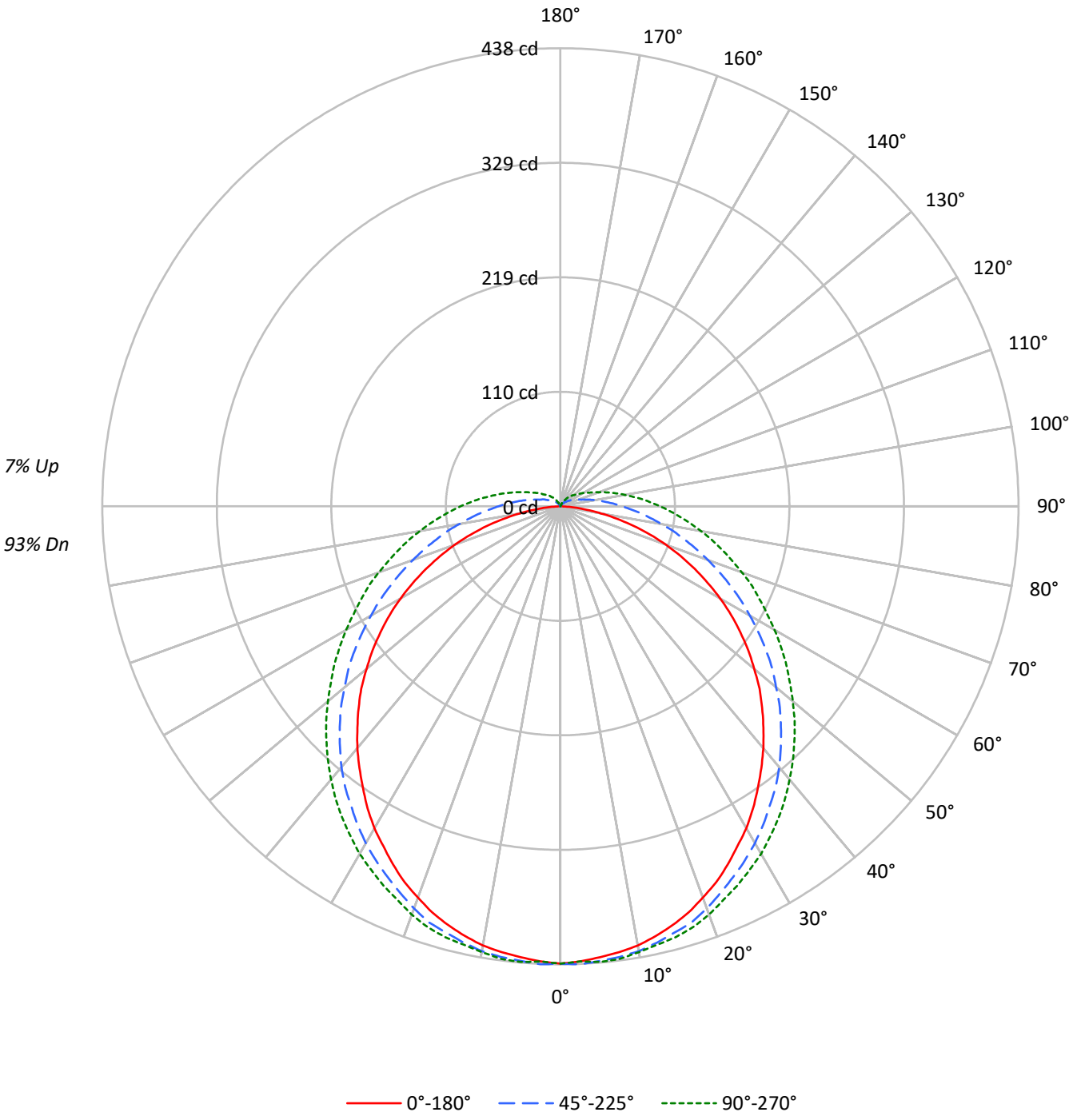
Scaled Data Report

TEST NUMBER: P1356752
CATALOG NUMBER: 1ASL4-30VHE-3-G52-UNV

Luminous Intensity Polar Plot



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TEST NUMBER: P1356752
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	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	35	29	41	34	28	39	32	28	37	32	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14422	14422	14422
5°	14196	14082	14092
10°	14016	13745	13737
15°	13763	13345	13433
20°	13454	12964	13093
25°	13112	12501	12707
30°	12754	12094	12378
35°	12331	11641	12014
40°	11932	11224	11631
45°	11500	10730	11243
50°	11015	10204	10841
55°	10482	9697	10483
60°	9825	9115	10117
65°	9010	8547	9812
70°	8006	7974	9577
75°	6631	7426	9411
80°	4738	6959	9344
85°	2322	6670	9485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 11500 cd/sqm

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TEST NUMBER: P1356752
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	2.8
10°-20°	119.1	8.0
20°-30°	180.0	12.1
30°-40°	218.0	14.7
40°-50°	229.0	15.4
50°-60°	213.6	14.4
60°-70°	176.5	11.9
70°-80°	127.1	8.5
80°-90°	79.0	5.3
90°-100°	46.3	3.1
100°-110°	26.5	1.8
110°-120°	14.9	1.0
120°-130°	8.6	0.6
130°-140°	4.6	0.3
140°-150°	1.9	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	340.6	22.9
0°-40°	558.6	37.6
0°-60°	1001.1	67.3
0°-90°	1383.7	93.1
90°-120°	87.7	5.9
90°-150°	102.9	6.9
90°-180°	103.0	6.9
0°-180°	1487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	433	436	436	436	437	41
15°	415	420	422	425	426	117
25°	378	385	391	396	400	174
35°	329	338	349	359	364	206
45°	273	283	298	311	316	210
55°	210	222	240	257	264	188
65°	142	156	179	202	210	140
75°	73	91	123	149	160	77
85°	14	41	77	105	115	17
90°	0	24	59	85	96	1
95°	0	16	45	68	78	0
105°	0	6	24	43	50	0
115°	0	3	14	26	31	0
125°	0	2	9	17	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	

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TEST NUMBER: P1356752
CATALOG NUMBER: 1ASL4-30VHE-3-G52-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	437.3	*437.3*	437.3	437.3	437.3
2.5°	*435.5*	*438.3*	*438.3*	*435.5*	*435.5*
5°	432.8	*436.4*	436.4	436.4	437.3
7.5°	430.1	*434.6*	434.6	434.6	436.4
10°	426.4	*431.0*	431.9	431.9	432.8
12.5°	421.0	*426.4*	427.3	428.3	429.2
15°	414.6	*420.1*	421.9	424.6	426.4
17.5°	407.3	*413.7*	417.3	420.1	421.9
20°	398.2	*404.6*	409.2	412.8	415.5
22.5°	389.2	*394.6*	400.1	404.6	407.3
25°	378.2	*384.6*	391.0	396.4	400.1
27.5°	366.4	*373.7*	381.9	388.2	391.9
30°	355.5	*362.8*	371.9	380.1	383.7
32.5°	342.8	*351.0*	361.0	369.2	373.7
35°	329.1	*338.2*	349.1	359.2	363.7
37.5°	315.5	*324.6*	338.2	348.2	352.8
40°	301.9	*311.0*	325.5	336.4	341.0
42.5°	287.3	*296.4*	311.9	323.7	329.1
45°	272.8	*282.8*	298.2	311.0	316.4
47.5°	258.2	*268.2*	284.6	298.2	303.7
50°	241.9	*252.8*	269.1	284.6	290.0
52.5°	226.4	*237.3*	255.5	271.0	276.4
55°	210.0	*221.9*	240.0	257.3	263.7
57.5°	193.7	*205.5*	224.6	242.8	250.0
60°	176.4	*189.1*	209.1	228.2	236.4
62.5°	159.1	*172.8*	194.6	214.6	222.8
65°	141.8	*155.5*	179.1	201.9	210.0
67.5°	124.6	*139.1*	164.6	188.2	198.2
70°	107.3	*122.7*	150.0	174.6	184.6
72.5°	90.0	*106.4*	136.4	161.8	171.8
75°	72.7	*90.9*	122.7	149.1	160.0
77.5°	55.5	*76.4*	110.9	137.3	148.2
80°	40.0	*63.6*	98.2	125.5	136.4
82.5°	25.5	*50.9*	87.3	114.6	125.5
85°	13.6	*40.9*	77.3	104.6	114.6
87.5°	4.5	*31.8*	67.3	94.6	104.6
90°	0.0	*24.5*	59.1	84.6	95.5
92.5°	0.0	*19.1*	51.8	76.4	86.4
95°	0.0	*15.5*	44.6	68.2	78.2
97.5°	0.0	*12.7*	39.1	60.9	70.0
100°	0.0	*10.0*	33.6	54.6	62.7
102.5°	0.0	*8.2*	29.1	48.2	56.4
105°	0.0	*5.5*	24.5	42.7	50.0
107.5°	0.0	*4.5*	20.9	38.2	44.6
110°	0.0	*3.6*	19.1	32.7	39.1

TEST NUMBER: P1356752
CATALOG NUMBER: 1ASL4-30VHE-3-G52-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	*2.7*	17.3	29.1	35.5
115°	0.0	*2.7*	14.5	26.4	30.9
117.5°	0.0	*2.7*	12.7	23.6	28.2
120°	0.0	*1.8*	11.8	20.9	25.5
122.5°	0.0	*1.8*	10.0	19.1	22.7
125°	0.0	*1.8*	9.1	17.3	20.0
127.5°	0.0	*0.9*	8.2	15.5	18.2
130°	0.0	*0.9*	7.3	13.6	16.4
132.5°	0.0	*0.9*	6.4	12.7	15.5
135°	0.0	*0.0*	5.5	10.9	13.6
137.5°	0.0	*0.0*	4.5	10.0	11.8
140°	0.0	*0.0*	3.6	8.2	10.9
142.5°	0.0	*0.0*	2.7	7.3	9.1
145°	0.0	*0.0*	2.7	6.4	7.3
147.5°	0.0	*0.0*	1.8	4.5	6.4
150°	0.0	*0.0*	0.9	3.6	4.5
152.5°	0.0	*0.0*	0.0	2.7	3.6
155°	0.0	*0.0*	0.0	1.8	2.7
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

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TEST NUMBER: P1356752
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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	18.51	20.05	18.98	20.51	20.99	20.30	21.84	20.77	22.29	22.78
	3H	20.02	21.42	20.50	21.88	22.41	22.66	24.06	23.14	24.53	25.05
	4H	20.50	21.83	21.00	22.31	22.85	23.78	25.11	24.28	25.59	26.13
	6H	20.78	22.02	21.29	22.51	23.07	24.90	26.14	25.42	26.64	27.19
	8H	20.83	22.02	21.36	22.54	23.10	25.46	26.64	25.98	27.16	27.72
	12H	20.84	21.98	21.38	22.50	23.09	26.03	27.16	26.56	27.68	28.27
4H	2H	19.34	20.67	19.85	21.16	21.69	20.75	22.08	21.25	22.56	23.10
	3H	21.08	22.22	21.60	22.74	23.30	23.33	24.47	23.85	24.99	25.55
	4H	21.69	22.73	22.22	23.26	23.85	24.62	25.66	25.16	26.20	26.79
	6H	22.09	23.01	22.64	23.57	24.17	25.94	26.86	26.50	27.42	28.03
	8H	22.18	23.05	22.74	23.61	24.23	26.60	27.46	27.16	28.02	28.64
	12H	22.23	23.01	22.81	23.60	24.23	27.29	28.07	27.87	28.66	29.29
8H	4H	22.32	23.18	22.88	23.74	24.36	24.85	25.71	25.41	26.27	26.89
	6H	22.89	23.63	23.49	24.23	24.85	26.34	27.07	26.93	27.67	28.30
	8H	23.08	23.74	23.68	24.35	24.99	27.14	27.80	27.74	28.41	29.05
	12H	23.19	23.78	23.80	24.39	25.09	28.01	28.60	28.62	29.20	29.91
12H	4H	22.48	23.27	23.07	23.86	24.48	24.86	25.64	25.44	26.23	26.86
	6H	23.15	23.82	23.76	24.43	25.07	26.38	27.04	26.98	27.66	28.29
	8H	23.43	24.02	24.04	24.62	25.33	27.25	27.84	27.85	28.44	29.15

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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

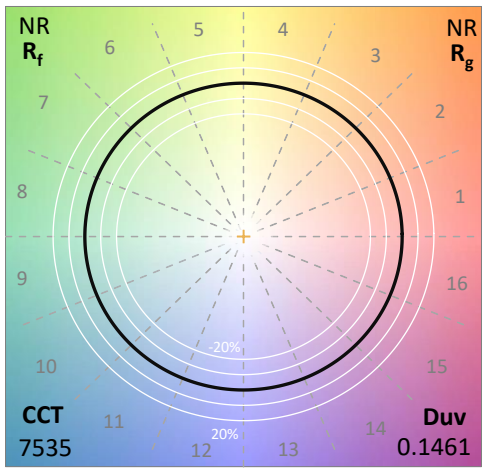
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

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

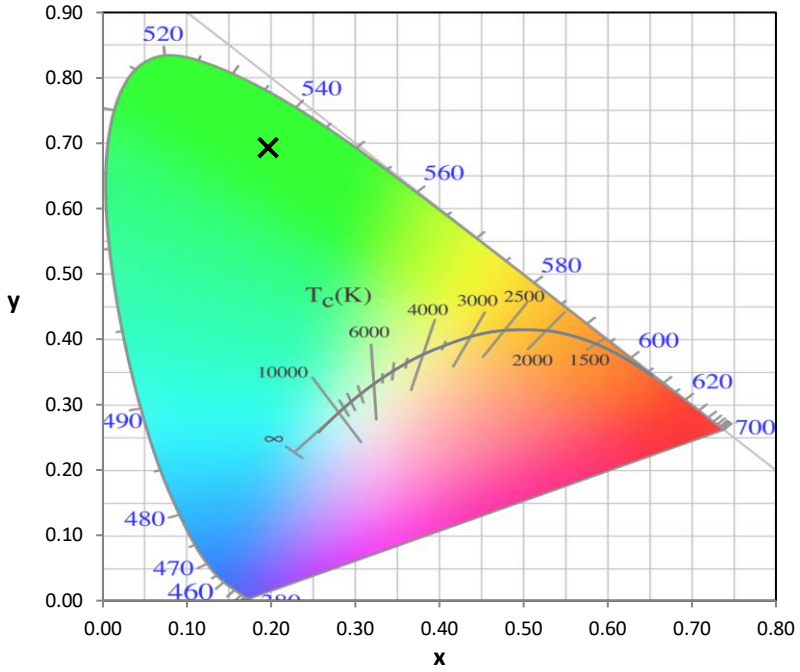
Stabilization Time:	48M
Operation Time:	1H 48M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2511-597-8

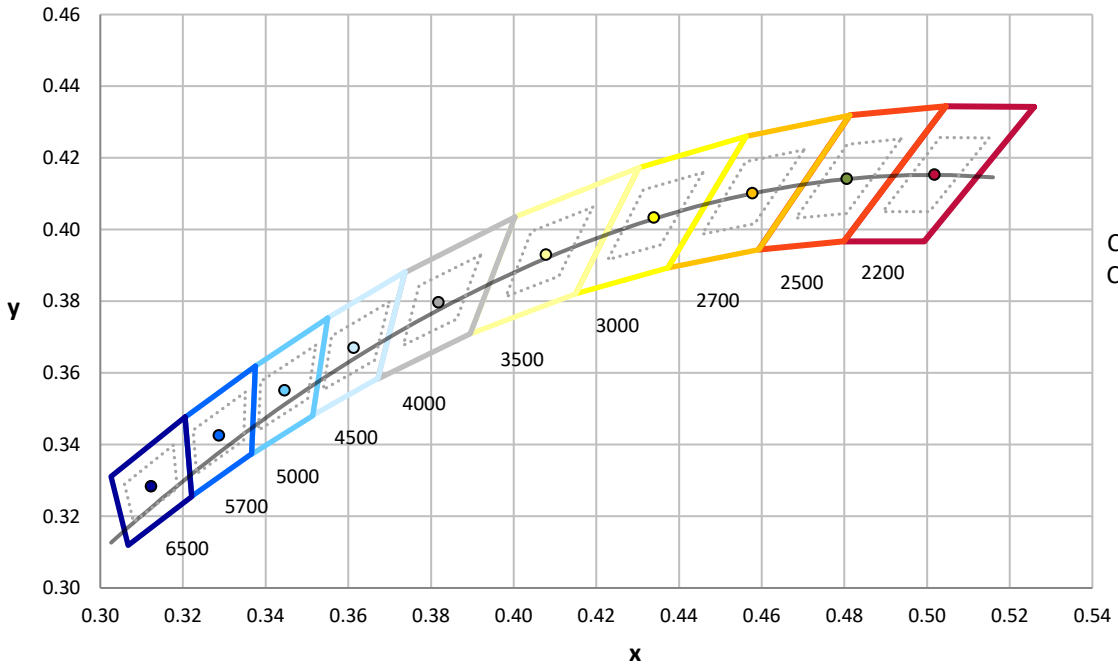
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

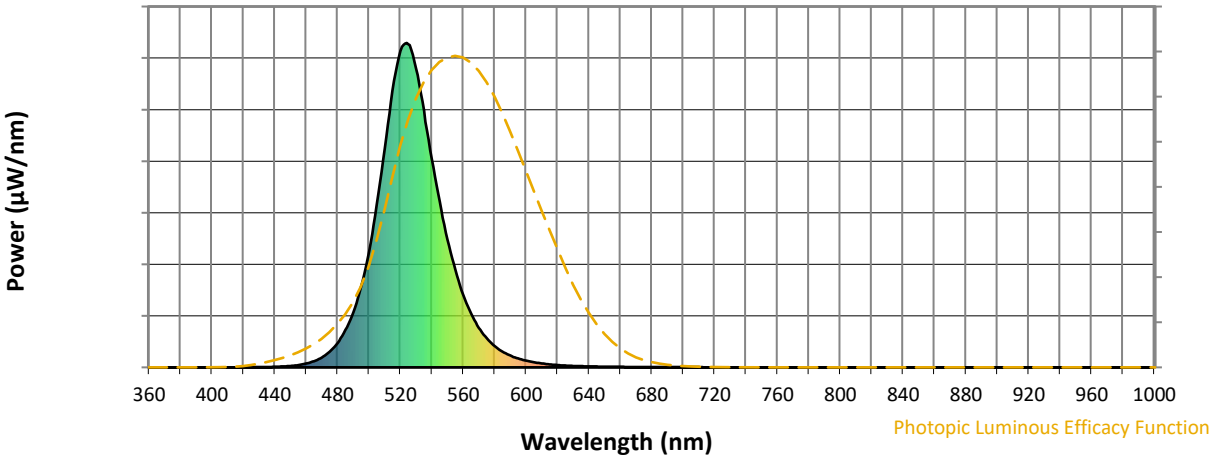


CCT = 7535K
CIE x = 0.1962
CIE y = 0.6931
Duv = 0.1461

Point lies outside the range

REPORT NUMBER: SP1-2511-597-8

Photopic Flux vs. Wavelength

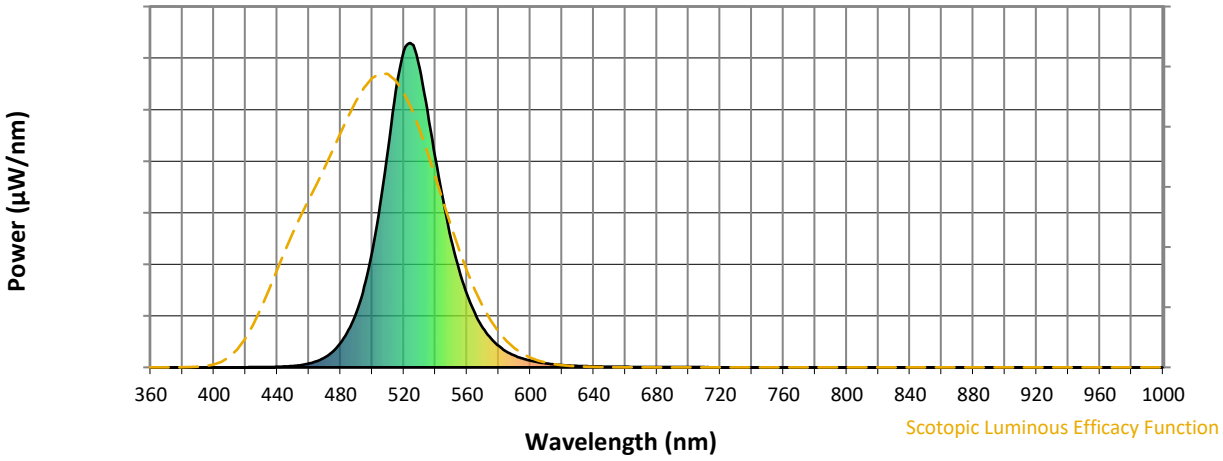


Photopic Lumens: NR

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	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

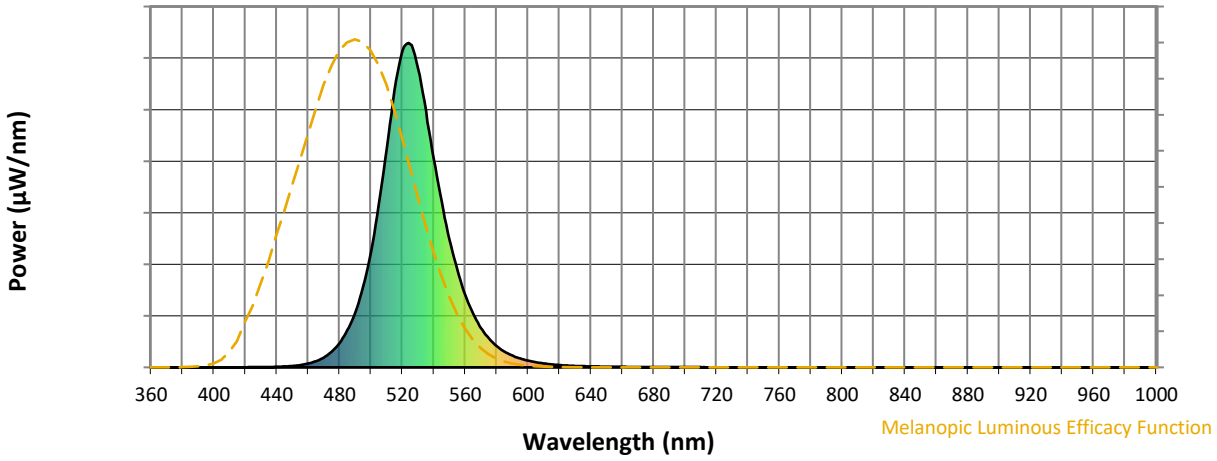


Scotopic Lumens: NR **S/P: 2.63**

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 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			

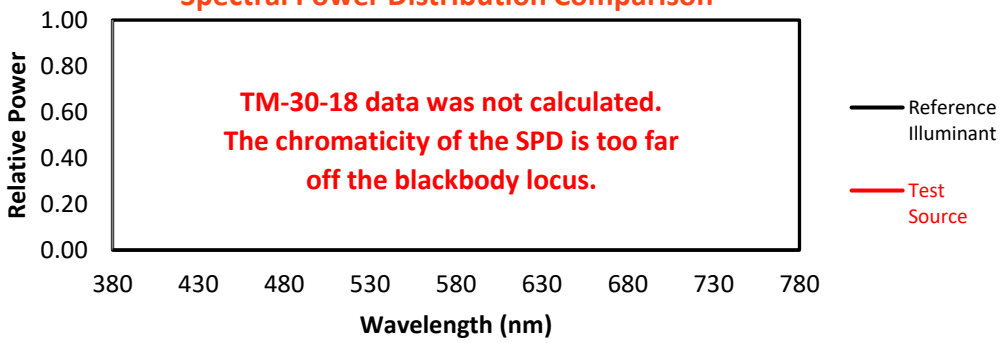
REPORT NUMBER: SP1-2511-597-8

TM-30-18

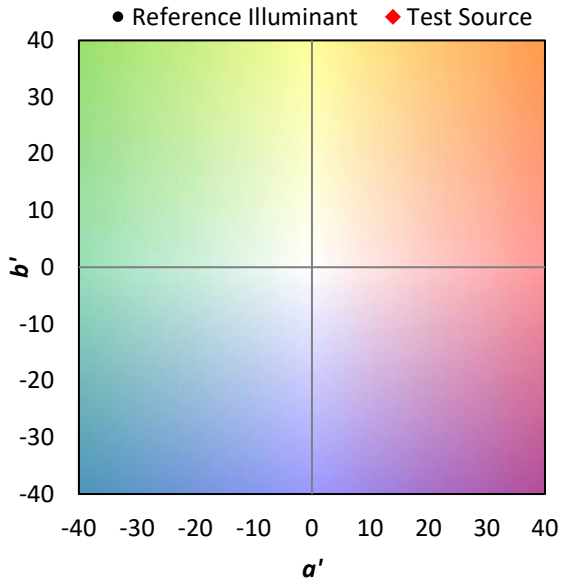
Summary

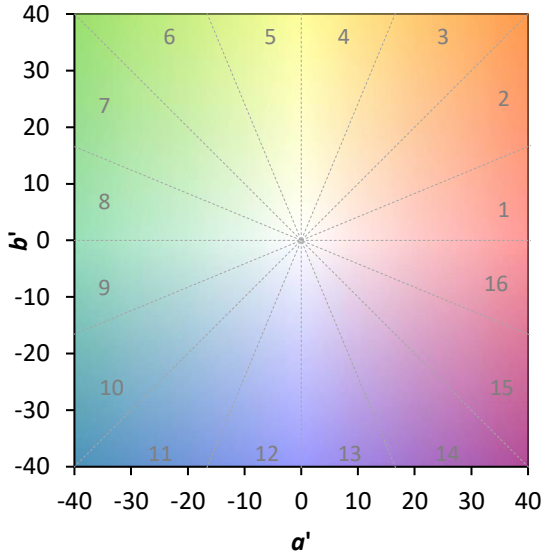
R_f = 0
R_g = 0
CIE R_a = -11.7
R_9 = -351.9

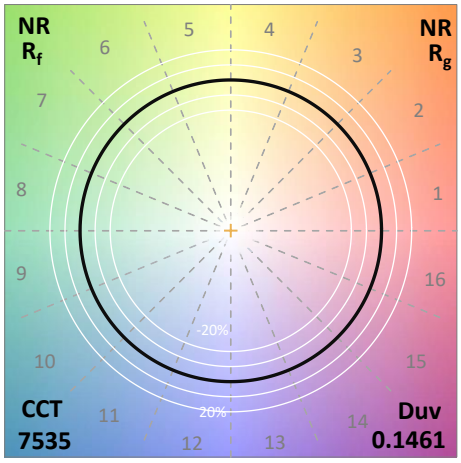
Spectral Power Distribution Comparison

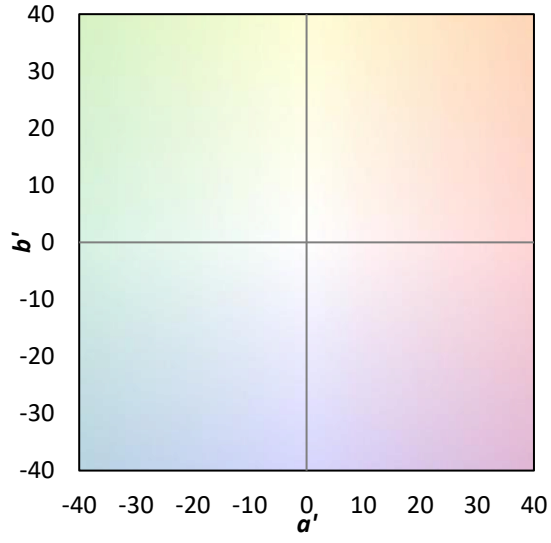


Color Vector Graphics







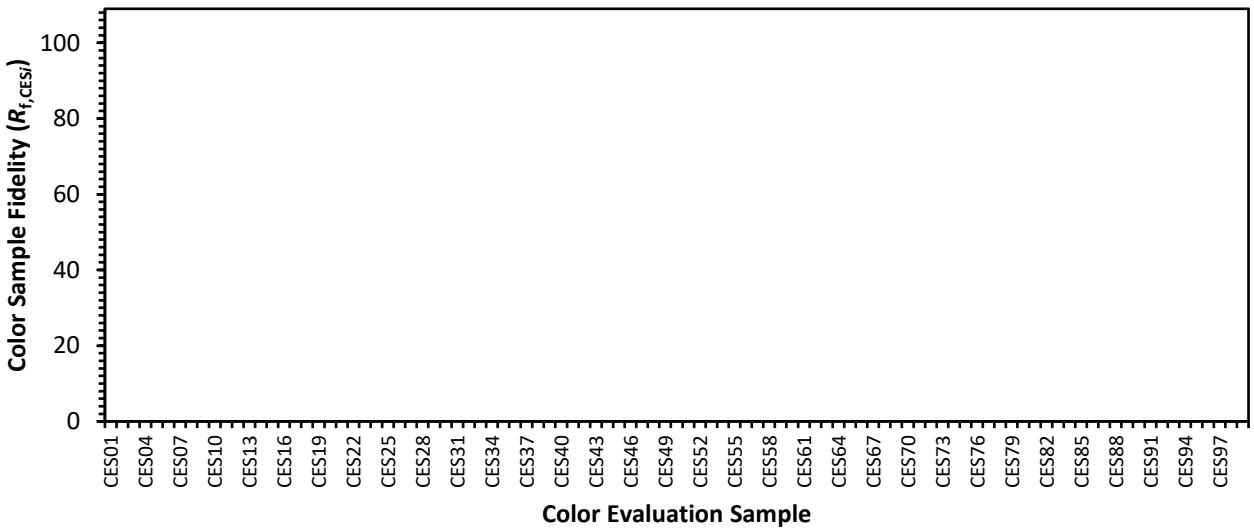


REPORT NUMBER: SP1-2511-597-8

TM-30-18

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

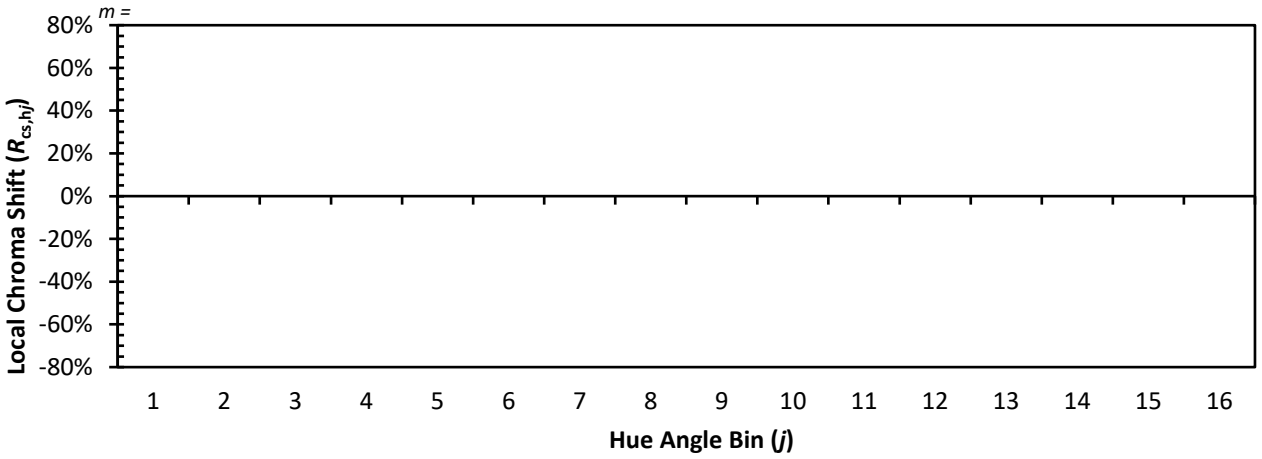
CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 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	

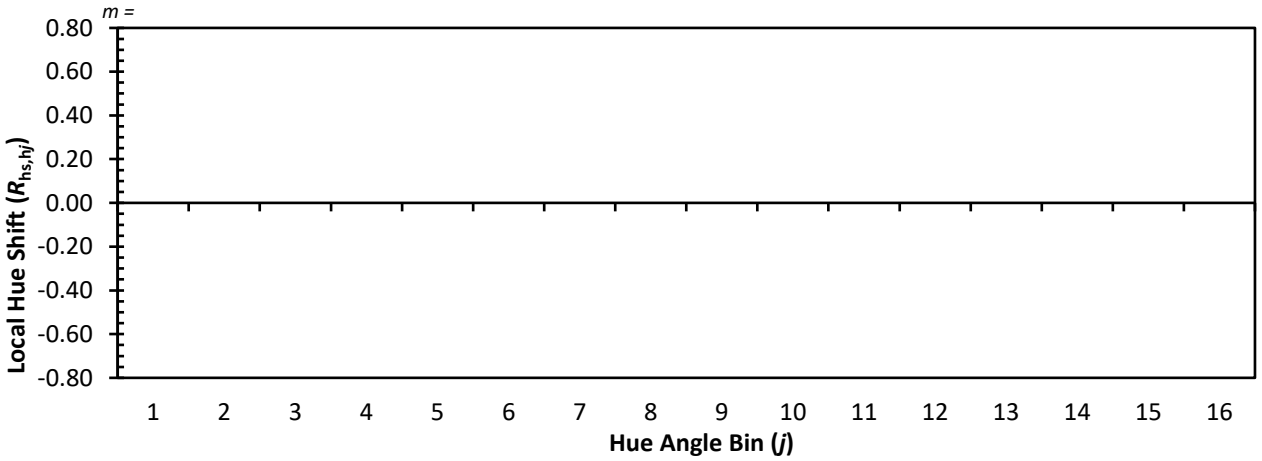


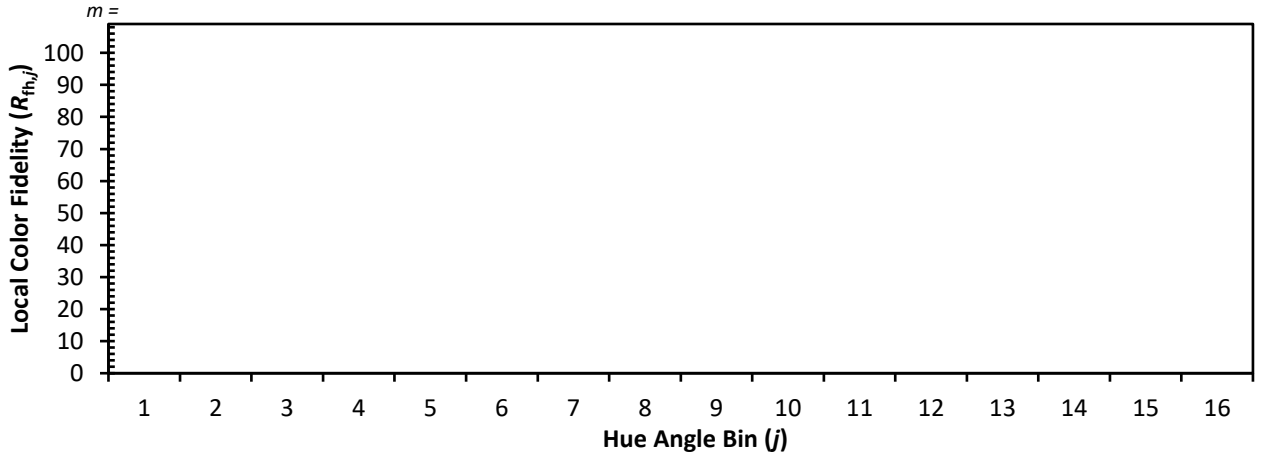
REPORT NUMBER: SP1-2511-597-8

TM-30-18

Color Rendition by Hue-Angle Bin



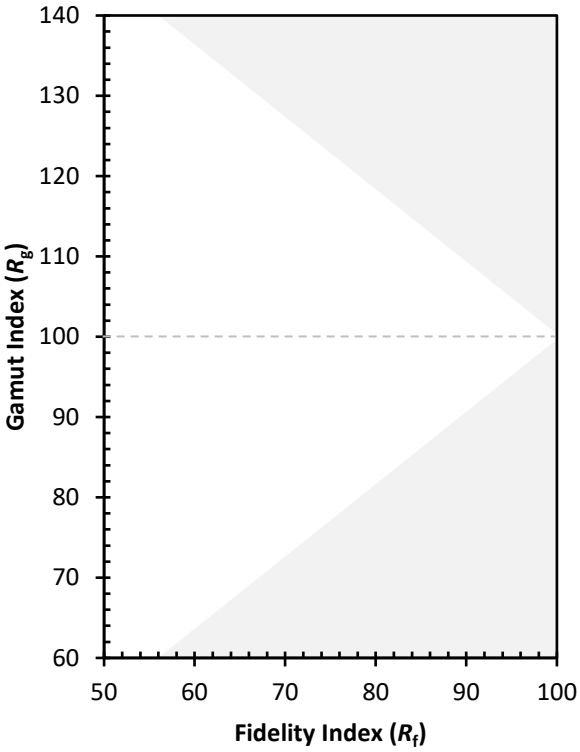


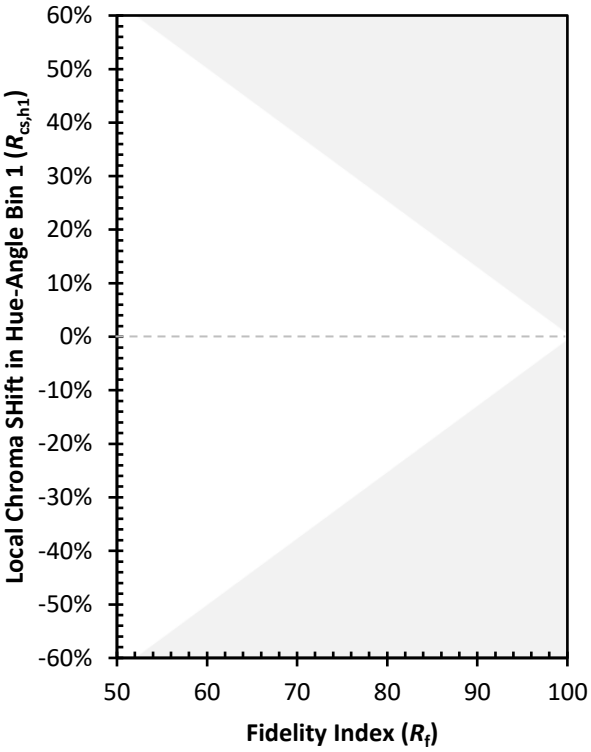


REPORT NUMBER: SP1-2511-597-8

TM-30-18

Measure Comparisons





(END OF REPORT)