

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: P1357382

Luminaire Tested: 6ASL4-5-1-G52-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357382
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: 6ASL4-5-1-G52-UNV
Description: 6FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 1 ROW
Light Source: -
Ballast/Driver: -

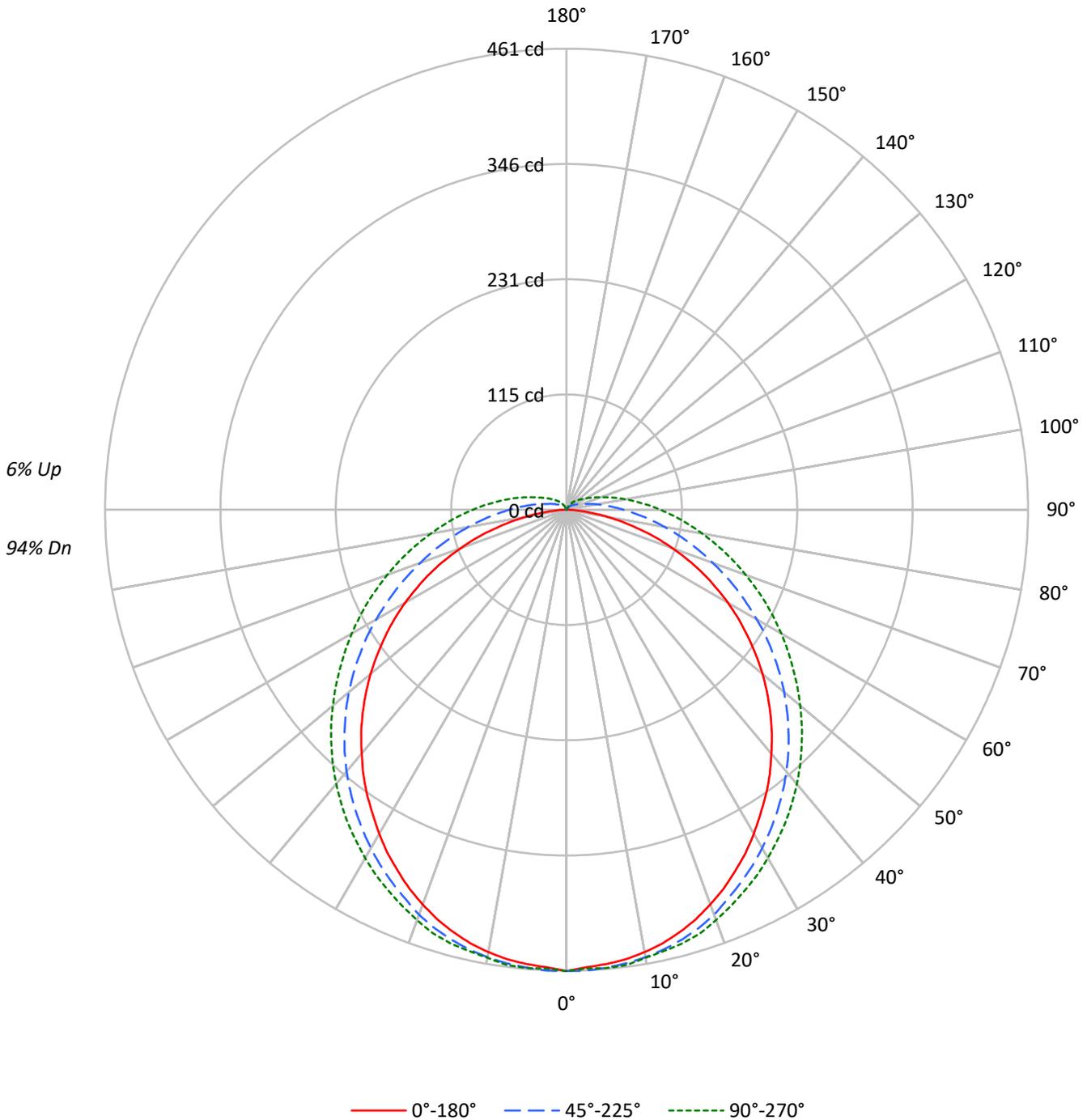
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.0 lumens
Efficiency: N/A
Efficacy: 52.0 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): 29.7
Input Voltage (V): NR
Input Current (A_{in}): 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: P1357382
CATALOG NUMBER: 6ASL4-5-1-G52-UNV

Luminous Intensity Polar Plot





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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	50	30	10	0
RCR																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	82	80	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	71	67	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	62	58	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	56	50	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	50	44	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	38	32	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	32	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2491	2491	2491
5°	2468	2442	2428
10°	2456	2394	2364
15°	2433	2342	2315
20°	2399	2283	2254
25°	2356	2212	2187
30°	2310	2148	2125
35°	2263	2082	2063
40°	2211	2015	1999
45°	2162	1942	1934
50°	2104	1866	1865
55°	2032	1780	1797
60°	1952	1689	1737
65°	1850	1595	1676
70°	1691	1496	1618
75°	1481	1409	1573
80°	1197	1333	1545
85°	729	1288	1556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2162 cd/sqm



TEST NUMBER: P1357382
 CATALOG NUMBER: 6ASL4-5-1-G52-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	2.8
10°-20°	125.4	8.1
20°-30°	189.6	12.3
30°-40°	229.1	14.8
40°-50°	240.9	15.6
50°-60°	224.4	14.5
60°-70°	184.4	11.9
70°-80°	130.9	8.5
80°-90°	78.9	5.1
90°-100°	44.2	2.9
100°-110°	24.5	1.6
110°-120°	13.7	0.9
120°-130°	7.9	0.5
130°-140°	4.3	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°	358.6	23.2
0°-40°	587.7	38.1
0°-60°	1053.0	68.2
0°-90°	1447.2	93.7
90°-120°	82.3	5.3
90°-150°	96.4	6.2
90°-180°	97.0	6.3
0°-180°	1544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	456	460	460	459	460	43
15°	437	443	445	447	449	123
25°	399	406	412	417	420	184
35°	347	356	367	377	381	217
45°	288	298	314	327	332	222
55°	221	234	252	269	276	198
65°	150	164	187	209	219	148
75°	76	95	126	152	163	81
85°	14	41	76	104	115	18
90°	0	24	57	84	93	1
95°	0	14	42	66	75	0
105°	0	5	22	40	47	0
115°	0	3	14	24	29	0
125°	0	2	8	16	18	0
135°	0	0	5	10	12	0
145°	0	0	2	6	7	0
155°	0	0	0	2	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: P1357382
 CATALOG NUMBER: 6ASL4-5-1-G52-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.2	461.2	461.2	461.2	461.2
2.5°	458.0	462.2	461.2	459.1	459.1
5°	456.0	460.1	459.6	459.1	460.1
7.5°	453.4	457.5	457.5	458.0	459.1
10°	449.2	454.4	454.4	454.4	454.9
12.5°	444.0	449.2	450.2	450.7	451.8
15°	437.2	442.9	445.0	447.1	448.7
17.5°	429.4	435.1	438.7	441.4	444.0
20°	420.0	426.2	430.9	434.1	436.7
22.5°	410.1	416.3	421.0	425.7	428.8
25°	398.6	405.9	411.6	417.4	420.5
27.5°	387.1	394.4	401.7	408.5	412.1
30°	374.1	382.4	390.8	398.6	402.2
32.5°	360.5	369.4	379.3	387.6	391.8
35°	347.4	356.3	367.3	376.7	381.4
37.5°	333.4	342.2	354.8	365.2	369.9
40°	318.2	328.1	341.7	352.7	357.9
42.5°	303.6	313.5	328.1	340.1	345.4
45°	288.0	298.4	313.5	326.6	332.3
47.5°	271.8	282.8	298.9	312.5	318.8
50°	255.6	267.1	283.8	298.4	304.7
52.5°	238.4	250.4	268.2	283.8	290.6
55°	221.2	233.7	252.0	268.7	276.0
57.5°	204.0	216.5	236.3	254.1	261.9
60°	186.2	199.3	219.6	238.9	247.8
62.5°	168.0	181.6	202.9	223.8	233.2
65°	150.2	163.8	187.3	209.2	219.1
67.5°	131.5	146.1	171.1	194.1	204.5
70°	112.2	128.9	155.5	180.0	190.4
72.5°	94.9	112.2	140.9	165.9	176.9
75°	75.6	94.9	126.3	152.3	163.3
77.5°	59.0	79.8	112.7	139.3	150.2
80°	42.3	65.2	99.6	126.8	137.7
82.5°	27.1	52.2	87.6	115.3	125.7
85°	14.1	40.7	76.2	104.3	114.8
87.5°	4.2	31.3	65.7	93.4	103.8
90°	0.0	24.0	56.9	83.5	93.4
92.5°	0.0	18.3	49.0	74.6	84.5
95°	0.0	14.1	41.7	65.7	75.1
97.5°	0.0	11.0	36.0	57.9	67.3
100°	0.0	8.9	30.8	51.1	60.0
102.5°	0.0	7.3	26.6	45.4	53.2
105°	0.0	5.2	21.9	39.6	47.0
107.5°	0.0	3.7	19.3	35.0	41.2
110°	0.0	3.1	17.2	30.3	36.5



TEST NUMBER: P1357382
 CATALOG NUMBER: 6ASL4-5-1-G52-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	2.6	15.1	27.1	32.3
115°	0.0	2.6	13.6	24.0	28.7
117.5°	0.0	2.1	11.5	21.4	25.6
120°	0.0	2.1	10.4	19.3	23.0
122.5°	0.0	1.6	9.4	17.2	20.9
125°	0.0	1.6	8.3	15.7	18.3
127.5°	0.0	1.0	7.3	14.1	16.7
130°	0.0	1.0	6.8	12.5	15.1
132.5°	0.0	0.5	6.3	11.5	13.6
135°	0.0	0.5	5.2	9.9	12.5
137.5°	0.0	0.0	4.7	8.9	11.0
140°	0.0	0.0	3.7	7.8	9.9
142.5°	0.5	0.0	3.1	6.8	8.3
145°	0.5	0.0	2.1	5.7	7.3
147.5°	0.5	0.5	1.6	4.7	5.7
150°	0.5	0.5	1.0	3.1	4.7
152.5°	0.5	0.5	0.5	2.1	3.1
155°	0.5	0.5	0.0	1.6	2.1
157.5°	0.5	0.5	0.0	0.5	1.0
160°	0.5	0.5	0.0	0.0	0.5
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	12.59	14.14	13.05	14.58	15.05	14.60	16.15	15.06	16.59	17.06
	3H	14.08	15.49	14.55	15.94	16.45	17.02	18.43	17.49	18.89	19.40
	4H	14.55	15.89	15.04	16.36	16.89	18.20	19.54	18.69	20.01	20.53
	6H	14.83	16.08	15.34	16.56	17.10	19.42	20.67	19.93	21.15	21.69
	8H	14.88	16.08	15.40	16.59	17.13	20.06	21.25	20.57	21.76	22.30
	12H	14.89	16.04	15.42	16.54	17.12	20.76	21.91	21.29	22.41	22.99
4H	2H	13.46	14.80	13.95	15.27	15.79	15.03	16.37	15.52	16.84	17.36
	3H	15.18	16.33	15.69	16.84	17.39	17.68	18.82	18.18	19.33	19.88
	4H	15.78	16.83	16.31	17.35	17.93	19.02	20.06	19.54	20.59	21.17
	6H	16.18	17.10	16.72	17.65	18.24	20.43	21.35	20.98	21.91	22.50
	8H	16.27	17.14	16.82	17.69	18.29	21.17	22.04	21.72	22.59	23.20
	12H	16.31	17.10	16.89	17.68	18.29	22.00	22.79	22.57	23.37	23.98
8H	4H	16.44	17.31	16.99	17.86	18.46	19.23	20.10	19.78	20.65	21.25
	6H	17.01	17.74	17.59	18.34	18.95	20.81	21.54	21.39	22.14	22.75
	8H	17.19	17.85	17.78	18.45	19.08	21.69	22.35	22.28	22.96	23.58
	12H	17.29	17.89	17.89	18.48	19.17	22.70	23.29	23.30	23.88	24.57
12H	4H	16.62	17.41	17.20	17.99	18.60	19.24	20.03	19.81	20.61	21.22
	6H	17.29	17.95	17.88	18.55	19.18	20.84	21.51	21.44	22.11	22.74
	8H	17.56	18.15	18.15	18.74	19.43	21.79	22.38	22.39	22.97	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

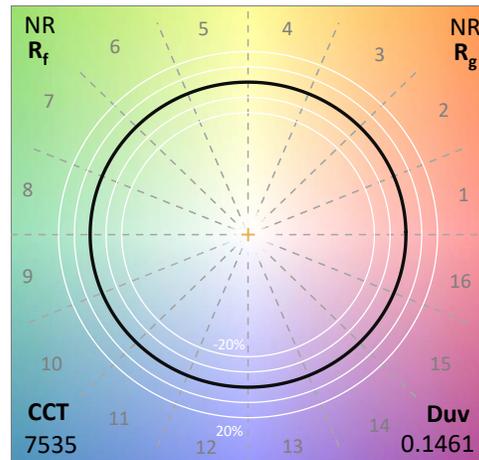
Test Information

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
 CIE u': 0.0718
 CIE v': 0.5710
 Duv: 0.1461
 CIE x: 0.1962
 CIE y: 0.6931
 CIE z: 0.1107
 Peak Wavelength (nm): 524
 Dominant Wavelength (nm): 529
 Purity: 75.95236
 Rf: NR
 Rg: NR

CRI (Ra):	-11.7		
R1:	-30.6	R9:	-351.9
R2:	5.1	R10:	-75.5
R3:	5.6	R11:	-78.0
R4:	-51.7	R12:	-14.7
R5:	-6.4	R13:	-32.5
R6:	-0.6	R14:	52.7
R7:	10.9	R15:	-37.0
R8:	-25.8		



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



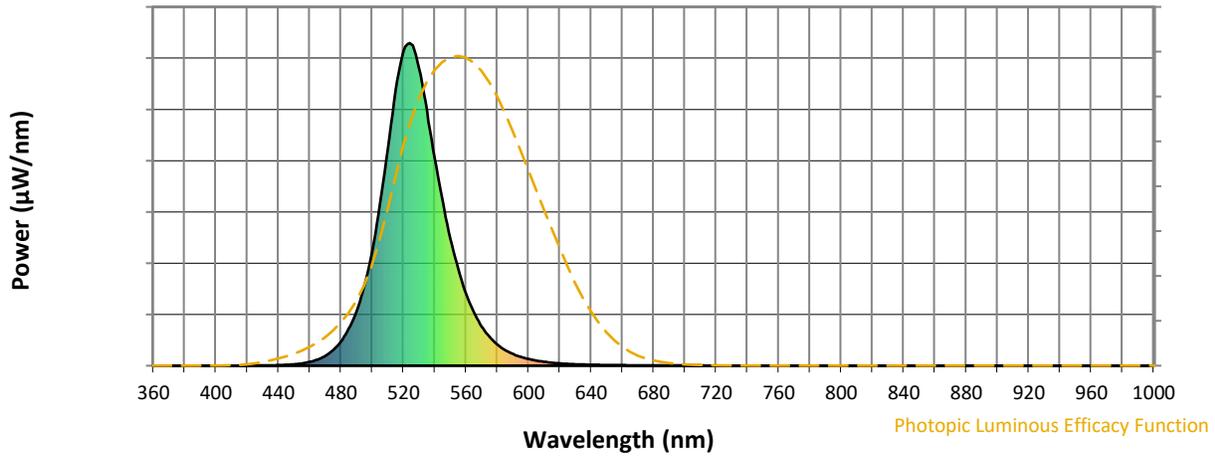
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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



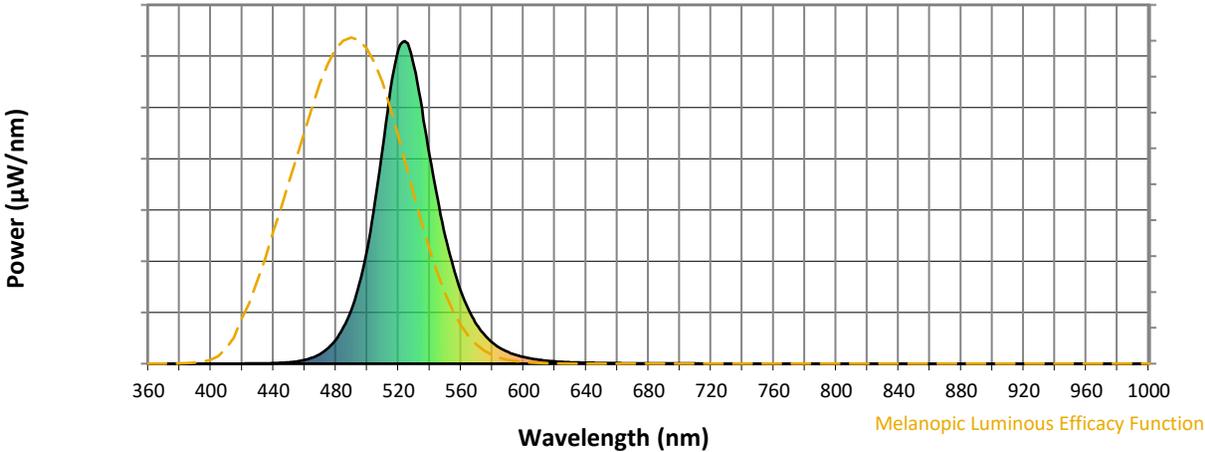
Scotopic Lumens: NR

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 Luminous Efficacy Function

Melanopic Lumens: NR

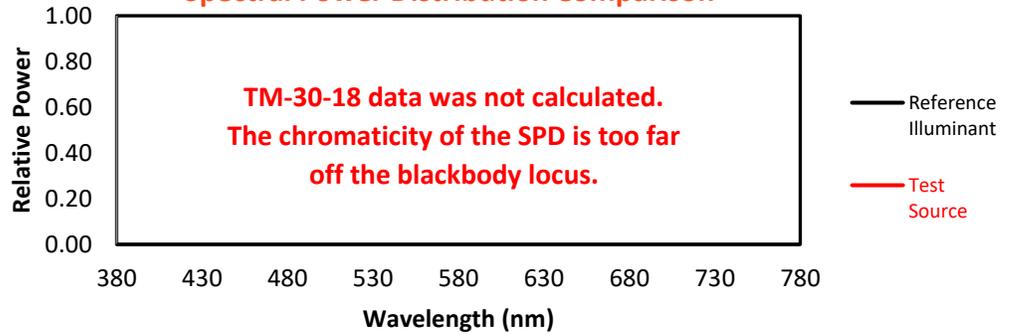
M/P: 4.87

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			

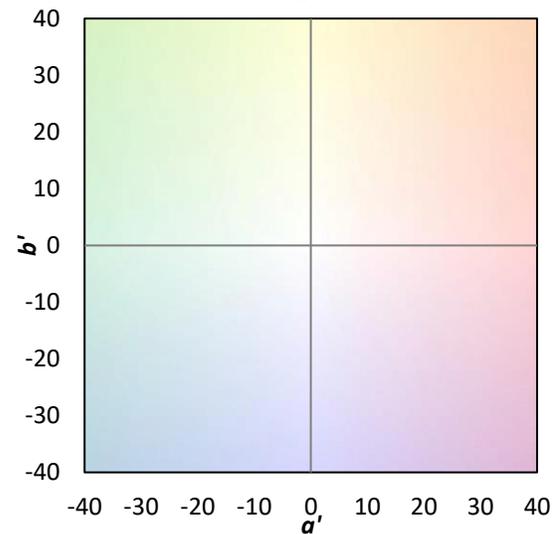
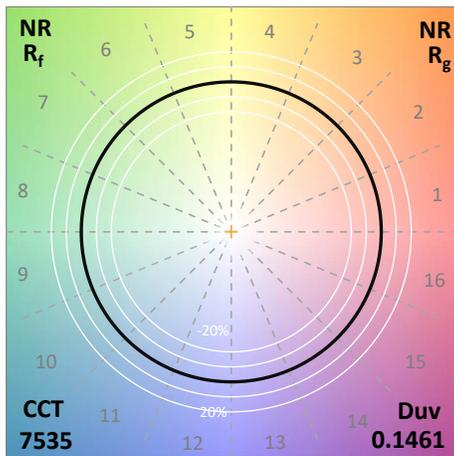
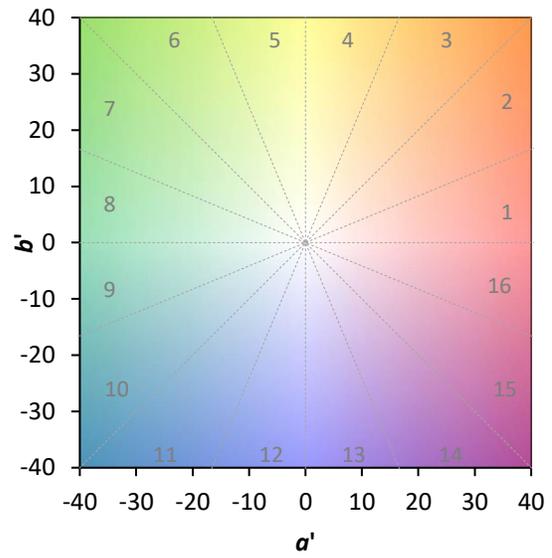
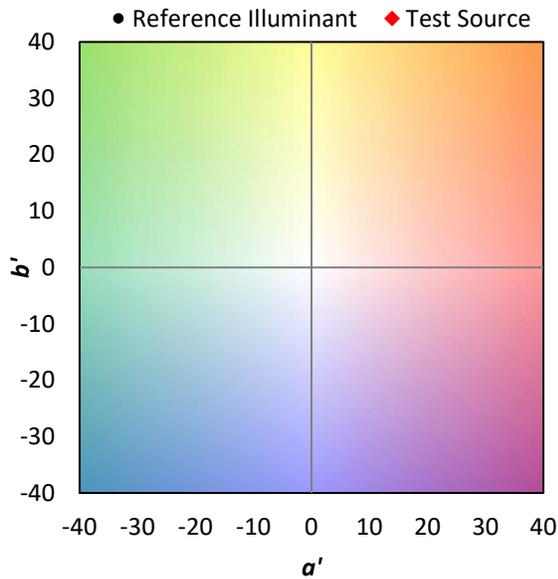
Summary

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

Spectral Power Distribution Comparison



Color Vector Graphics



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

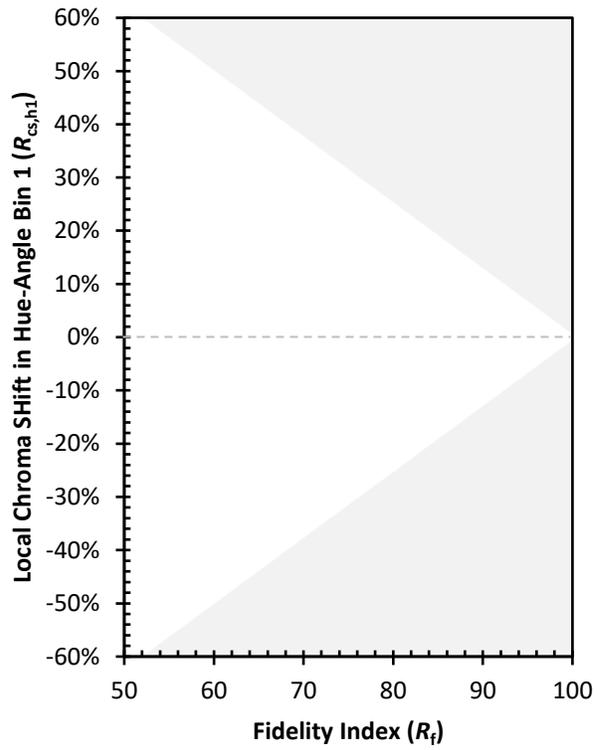
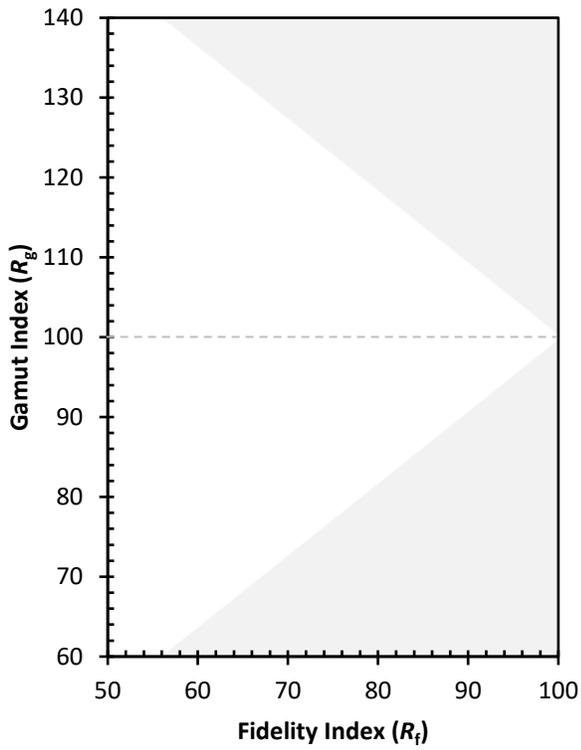
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CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 0	CES34 = 0	CES59 = 0	CES84 = 0
CES10 = 0	CES35 = 0	CES60 = 0	CES85 = 0
CES11 = 0	CES36 = 0	CES61 = 0	CES86 = 0
CES12 = 0	CES37 = 0	CES62 = 0	CES87 = 0
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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
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CES20 = 0	CES45 = 0	CES70 = 0	CES95 = 0
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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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)