

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: P1356680

Luminaire Tested: 1ASL4-10-1-G52-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356680
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: 1ASL4-10-1-G52-UNV
Description: 1FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 1 ROW
Light Source: -
Ballast/Driver: -

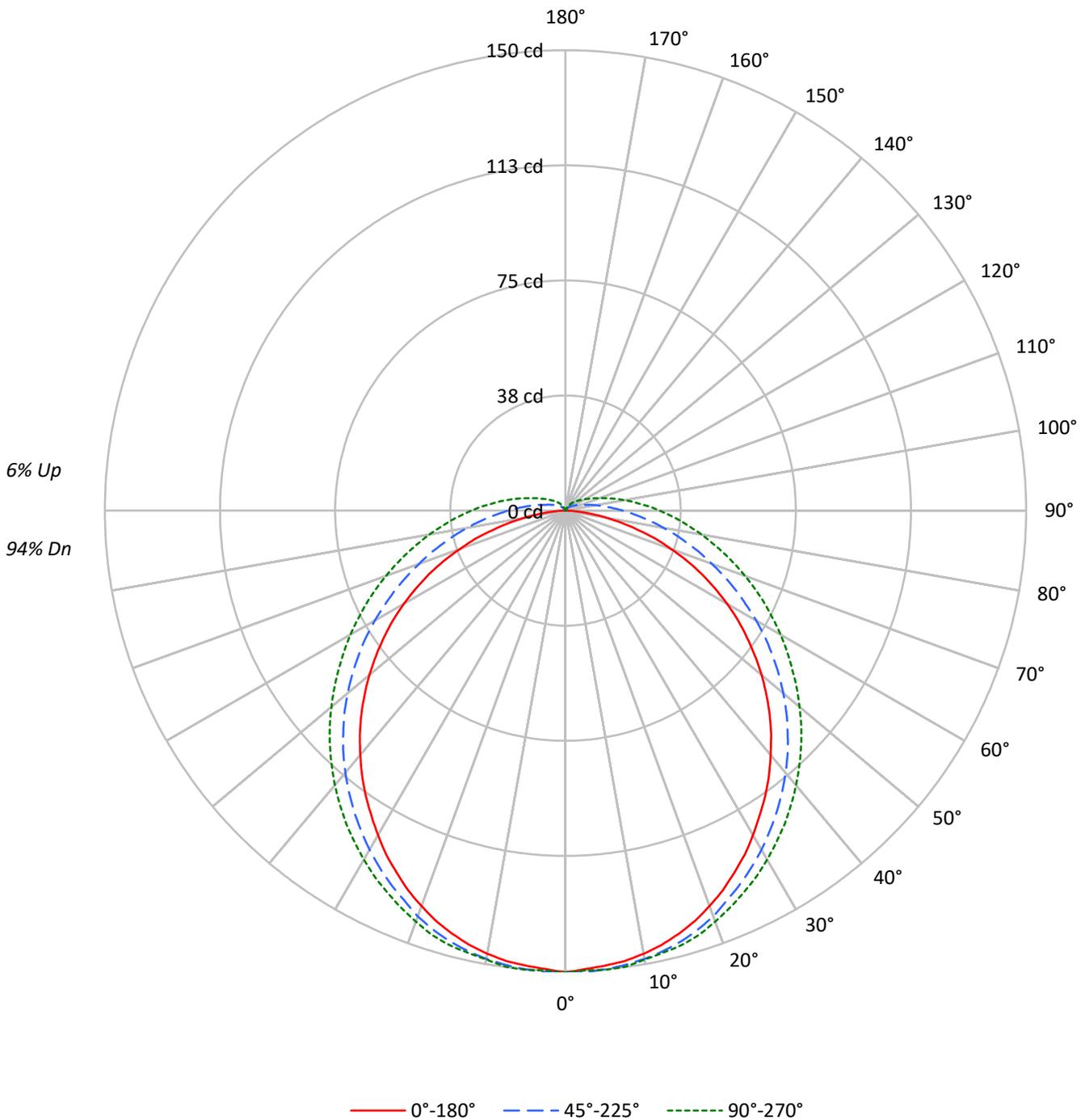
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 504.0 lumens
Efficiency: N/A
Efficacy: 49.9 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): 10.1
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: P1356680
CATALOG NUMBER: 1ASL4-10-1-G52-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1356680
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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°	4963	4963	4963
5°	4881	4840	4840
10°	4819	4720	4713
15°	4737	4596	4615
20°	4632	4457	4490
25°	4510	4297	4361
30°	4381	4150	4236
35°	4249	3998	4112
40°	4106	3845	3984
45°	3963	3681	3856
50°	3797	3511	3720
55°	3604	3325	3582
60°	3386	3126	3462
65°	3113	2916	3341
70°	2731	2695	3227
75°	2253	2493	3135
80°	1635	2303	3083
85°	785	2148	3104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3963 cd/sqm



TEST NUMBER: P1356680
 CATALOG NUMBER: 1ASL4-10-1-G52-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	2.8
10°-20°	40.9	8.1
20°-30°	61.9	12.3
30°-40°	74.8	14.8
40°-50°	78.6	15.6
50°-60°	73.2	14.5
60°-70°	60.2	11.9
70°-80°	42.7	8.5
80°-90°	25.8	5.1
90°-100°	14.4	2.9
100°-110°	8.0	1.6
110°-120°	4.5	0.9
120°-130°	2.6	0.5
130°-140°	1.4	0.3
140°-150°	0.6	0.1
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	117.0	23.2
0°-40°	191.8	38.1
0°-60°	343.7	68.2
0°-90°	472.4	93.7
90°-120°	26.9	5.3
90°-150°	31.5	6.2
90°-180°	32.0	6.3
0°-180°	504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	150	150	150	150	150	
5°	149	150	150	150	150	14
15°	143	145	145	146	146	40
25°	130	132	134	136	137	60
35°	113	116	120	123	124	71
45°	94	97	102	107	108	72
55°	72	76	82	88	90	65
65°	49	54	61	68	72	48
75°	25	31	41	50	53	26
85°	5	13	25	34	38	6
90°	0	8	19	27	30	0
95°	0	5	14	22	24	0
105°	0	2	7	13	15	0
115°	0	1	4	8	9	0
125°	0	0	3	5	6	0
135°	0	0	2	3	4	0
145°	0	0	1	2	2	0
155°	0	0	0	0	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: P1356680

CATALOG NUMBER: 1ASL4-10-1-G52-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	150.5	150.5	150.5	150.5	150.5
2.5°	149.5	150.9	150.5	149.9	149.9
5°	148.8	150.2	150.0	149.9	150.2
7.5°	148.0	149.3	149.3	149.5	149.9
10°	146.6	148.3	148.3	148.3	148.5
12.5°	144.9	146.6	147.0	147.1	147.5
15°	142.7	144.6	145.3	145.9	146.5
17.5°	140.2	142.0	143.2	144.1	144.9
20°	137.1	139.1	140.7	141.7	142.5
22.5°	133.9	135.9	137.4	139.0	140.0
25°	130.1	132.5	134.4	136.2	137.3
27.5°	126.4	128.7	131.1	133.3	134.5
30°	122.1	124.8	127.6	130.1	131.3
32.5°	117.7	120.6	123.8	126.5	127.9
35°	113.4	116.3	119.9	123.0	124.5
37.5°	108.8	111.7	115.8	119.2	120.7
40°	103.9	107.1	111.5	115.1	116.8
42.5°	99.1	102.3	107.1	111.0	112.7
45°	94.0	97.4	102.3	106.6	108.5
47.5°	88.7	92.3	97.6	102.0	104.1
50°	83.4	87.2	92.6	97.4	99.5
52.5°	77.8	81.7	87.5	92.6	94.9
55°	72.2	76.3	82.3	87.7	90.1
57.5°	66.6	70.7	77.1	82.9	85.5
60°	60.8	65.1	71.7	78.0	80.9
62.5°	54.8	59.3	66.2	73.1	76.1
65°	49.0	53.5	61.1	68.3	71.5
67.5°	42.9	47.7	55.9	63.3	66.8
70°	36.6	42.1	50.7	58.8	62.2
72.5°	31.0	36.6	46.0	54.2	57.7
75°	24.7	31.0	41.2	49.7	53.3
77.5°	19.2	26.1	36.8	45.5	49.0
80°	13.8	21.3	32.5	41.4	45.0
82.5°	8.9	17.0	28.6	37.6	41.0
85°	4.6	13.3	24.9	34.1	37.5
87.5°	1.4	10.2	21.5	30.5	33.9
90°	0.0	7.8	18.6	27.2	30.5
92.5°	0.0	6.0	16.0	24.4	27.6
95°	0.0	4.6	13.6	21.5	24.5
97.5°	0.0	3.6	11.8	18.9	22.0
100°	0.0	2.9	10.0	16.7	19.6
102.5°	0.0	2.4	8.7	14.8	17.4
105°	0.0	1.7	7.2	12.9	15.3
107.5°	0.0	1.2	6.3	11.4	13.5
110°	0.0	1.0	5.6	9.9	11.9



TEST NUMBER: P1356680
 CATALOG NUMBER: 1ASL4-10-1-G52-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.9	4.9	8.9	10.6
115°	0.0	0.9	4.4	7.8	9.4
117.5°	0.0	0.7	3.7	7.0	8.3
120°	0.0	0.7	3.4	6.3	7.5
122.5°	0.0	0.5	3.1	5.6	6.8
125°	0.0	0.5	2.7	5.1	6.0
127.5°	0.0	0.3	2.4	4.6	5.4
130°	0.0	0.3	2.2	4.1	4.9
132.5°	0.0	0.2	2.0	3.7	4.4
135°	0.0	0.2	1.7	3.2	4.1
137.5°	0.0	0.0	1.5	2.9	3.6
140°	0.0	0.0	1.2	2.6	3.2
142.5°	0.2	0.0	1.0	2.2	2.7
145°	0.2	0.0	0.7	1.9	2.4
147.5°	0.2	0.2	0.5	1.5	1.9
150°	0.2	0.2	0.3	1.0	1.5
152.5°	0.2	0.2	0.2	0.7	1.0
155°	0.2	0.2	0.0	0.5	0.7
157.5°	0.2	0.2	0.0	0.2	0.3
160°	0.2	0.2	0.0	0.0	0.2
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	14.88	16.43	15.34	16.88	17.34	16.62	18.17	17.08	18.61	19.08
	3H	16.38	17.79	16.85	18.25	18.75	18.93	20.35	19.40	20.80	21.31
	4H	16.86	18.20	17.35	18.67	19.19	20.02	21.36	20.51	21.83	22.35
	6H	17.14	18.38	17.64	18.87	19.41	21.10	22.35	21.61	22.83	23.37
	8H	17.19	18.39	17.71	18.89	19.44	21.63	22.83	22.15	23.33	23.88
	12H	17.20	18.35	17.73	18.85	19.43	22.18	23.32	22.70	23.82	24.40
4H	2H	15.70	17.04	16.19	17.51	18.03	17.06	18.40	17.56	18.88	19.40
	3H	17.43	18.57	17.94	19.09	19.63	19.60	20.74	20.11	21.26	21.80
	4H	18.03	19.08	18.56	19.60	20.18	20.86	21.90	21.38	22.43	23.00
	6H	18.43	19.35	18.98	19.90	20.50	22.13	23.05	22.68	23.60	24.20
	8H	18.53	19.39	19.08	19.94	20.55	22.76	23.63	23.31	24.18	24.78
	12H	18.57	19.36	19.14	19.94	20.55	23.43	24.21	24.00	24.79	25.40
8H	4H	18.63	19.50	19.18	20.05	20.66	21.08	21.95	21.63	22.50	23.10
	6H	19.20	19.93	19.78	20.53	21.14	22.52	23.26	23.10	23.85	24.46
	8H	19.38	20.04	19.97	20.64	21.27	23.29	23.95	23.89	24.56	25.18
	12H	19.49	20.08	20.08	20.67	21.36	24.13	24.73	24.73	25.32	26.01
12H	4H	18.79	19.58	19.36	20.16	20.77	21.09	21.88	21.66	22.46	23.07
	6H	19.44	20.11	20.04	20.71	21.33	22.56	23.22	23.16	23.83	24.45
	8H	19.71	20.30	20.31	20.89	21.58	23.40	23.99	24.00	24.58	25.27

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

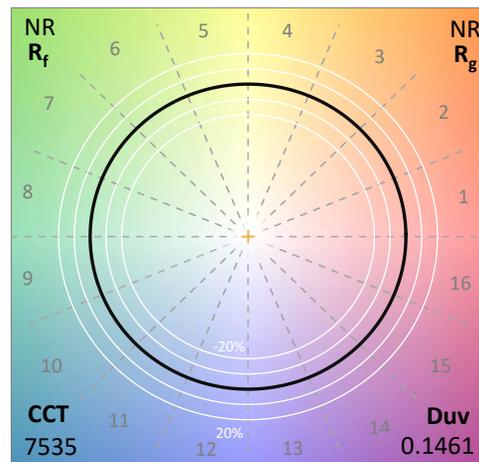
Test Information

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



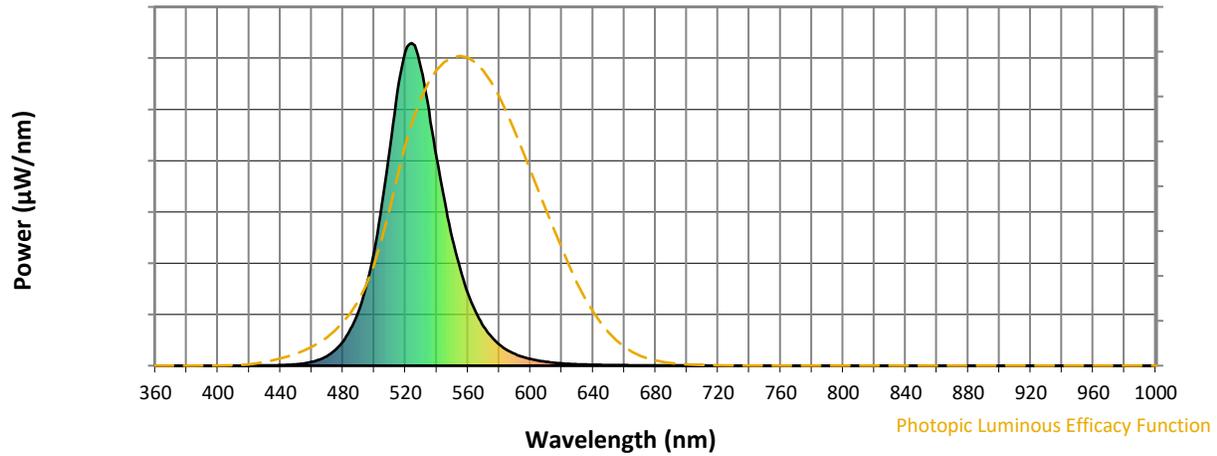
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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



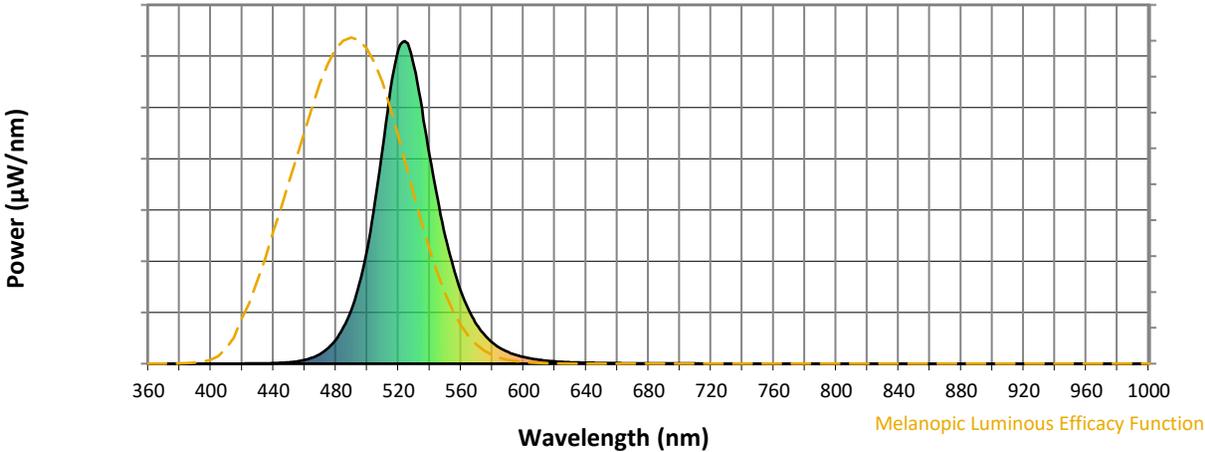
Scotopic Lumens: NR

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 Lumens: NR

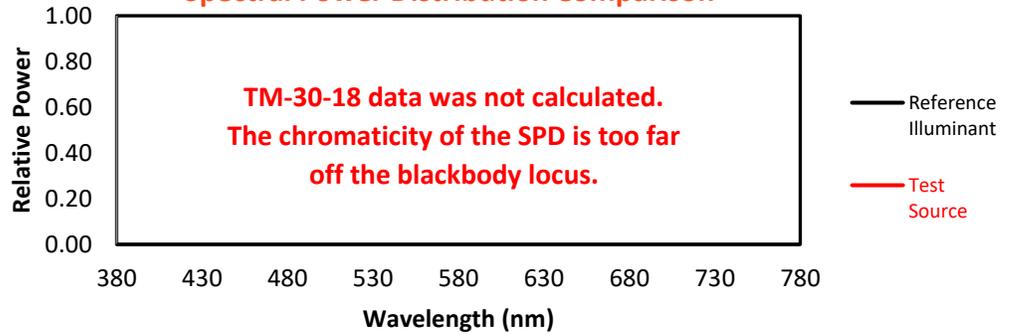
M/P: 4.87

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			

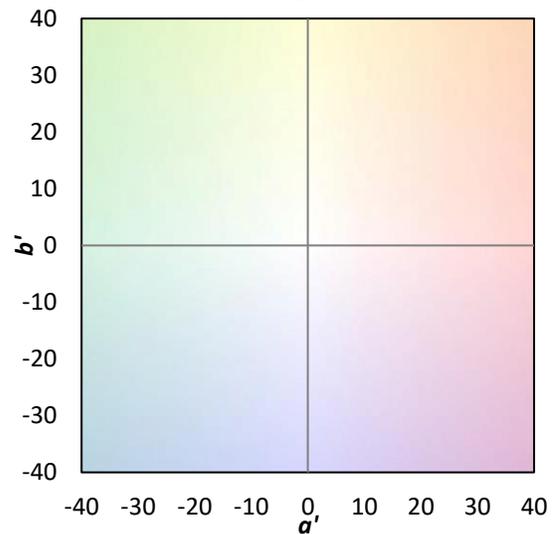
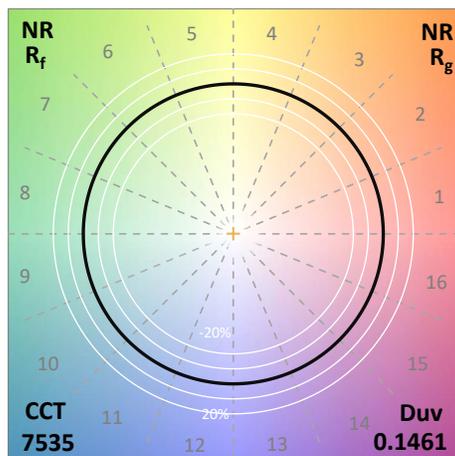
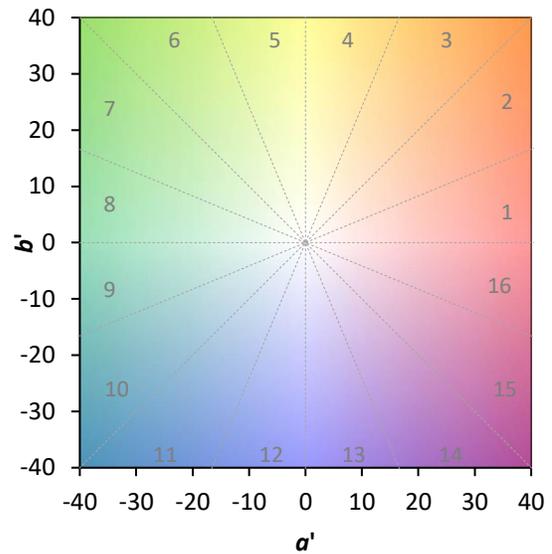
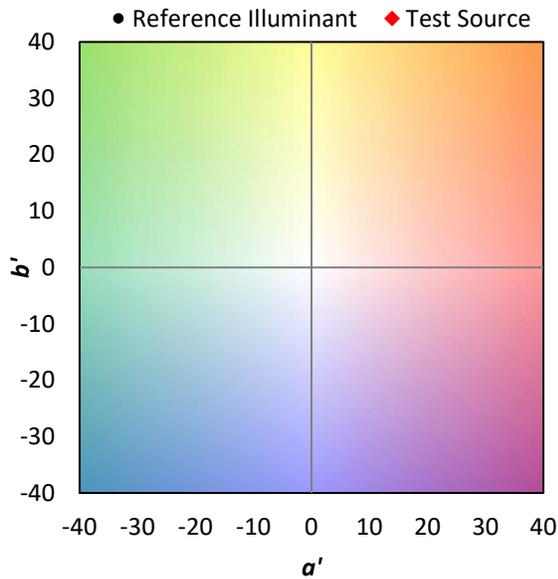
Summary

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

Spectral Power Distribution Comparison

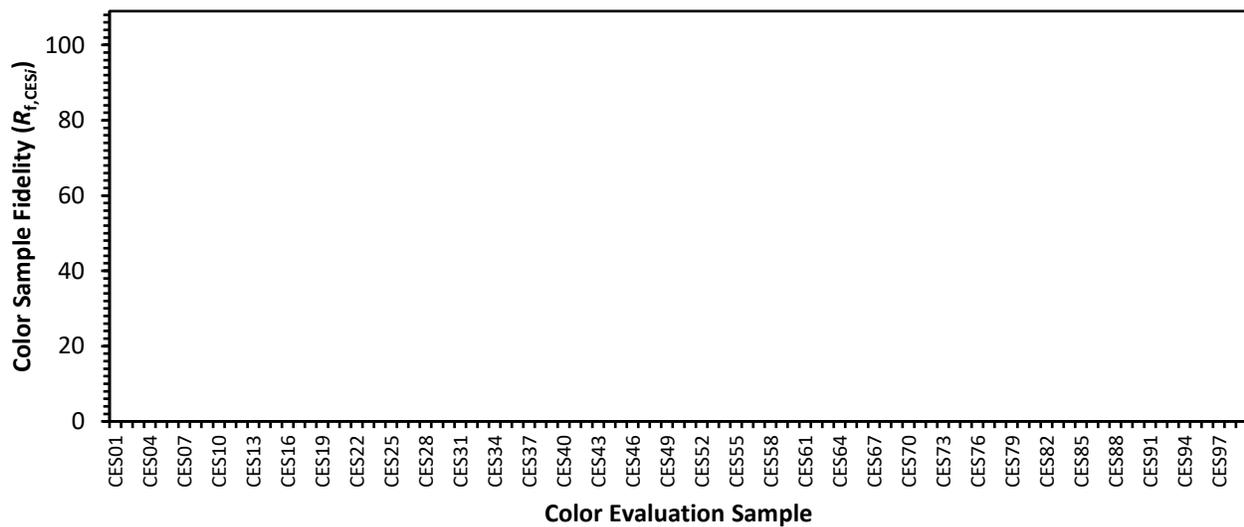


Color Vector Graphics



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

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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)