

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: P1356818

Luminaire Tested: 2ASL4-10HE-2-G52-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356818
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: 2ASL4-10HE-2-G52-UNV
Description: 2FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 2 ROW
Light Source: -
Ballast/Driver: -

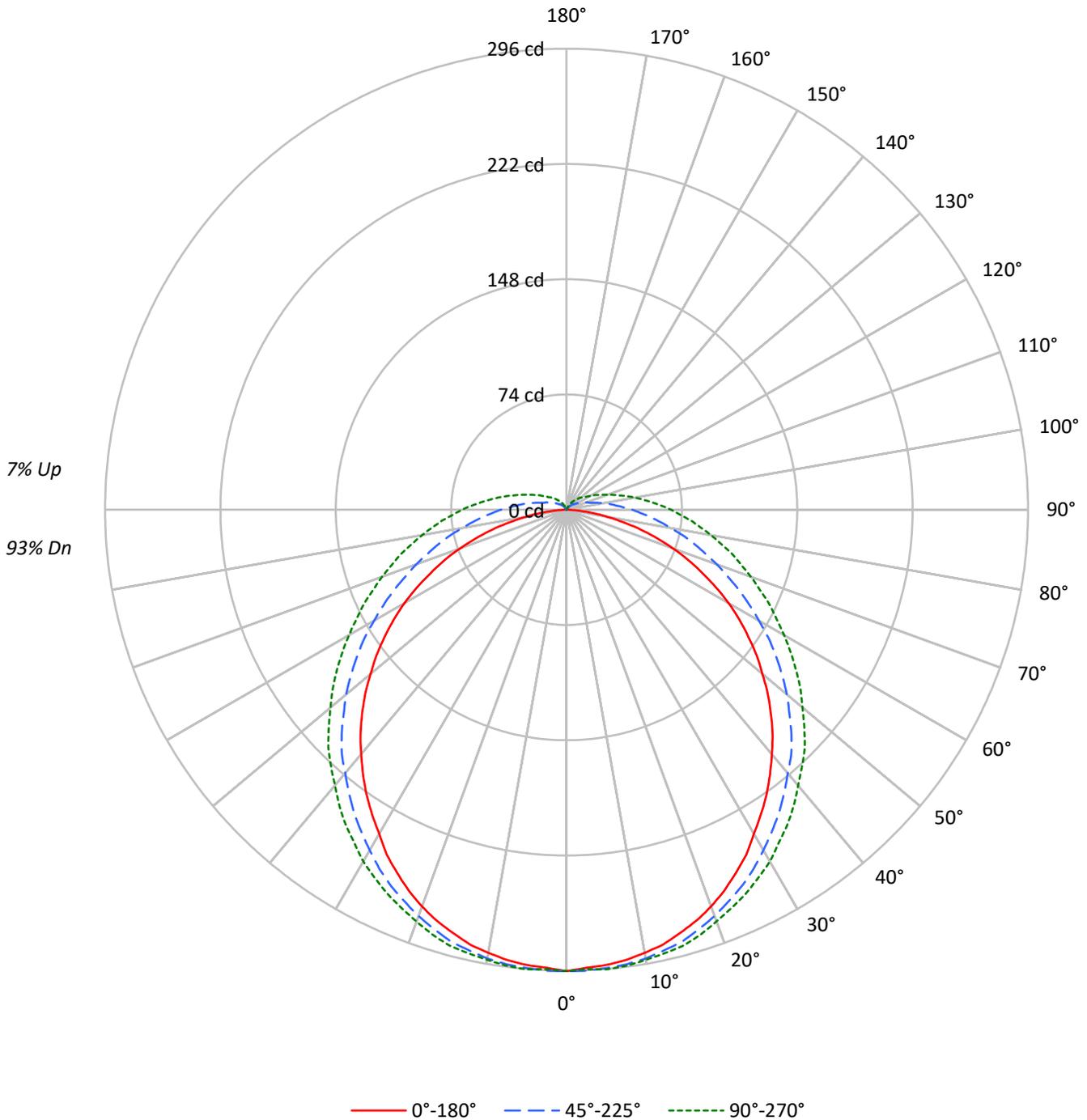
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1017.0 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 19.1
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: P1356818
CATALOG NUMBER: 2ASL4-10HE-2-G52-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1356818
 CATALOG NUMBER: 2ASL4-10HE-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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4833	4833	4833
5°	4783	4730	4722
10°	4741	4635	4607
15°	4686	4533	4515
20°	4619	4406	4385
25°	4518	4281	4274
30°	4394	4140	4162
35°	4295	4008	4035
40°	4180	3865	3898
45°	4064	3741	3799
50°	3917	3581	3653
55°	3770	3408	3536
60°	3595	3213	3413
65°	3330	3032	3317
70°	3030	2861	3229
75°	2603	2722	3198
80°	1954	2593	3189
85°	1087	2559	3280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4064 cd/sqm



TEST NUMBER: P1356818
 CATALOG NUMBER: 2ASL4-10HE-2-G52-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	2.8
10°-20°	80.8	7.9
20°-30°	122.4	12.0
30°-40°	148.0	14.6
40°-50°	156.0	15.3
50°-60°	145.6	14.3
60°-70°	120.2	11.8
70°-80°	87.2	8.6
80°-90°	55.1	5.4
90°-100°	32.9	3.2
100°-110°	18.9	1.9
110°-120°	10.7	1.1
120°-130°	6.1	0.6
130°-140°	3.3	0.3
140°-150°	1.5	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	231.2	22.7
0°-40°	379.2	37.3
0°-60°	680.9	66.9
0°-90°	943.4	92.8
90°-120°	62.5	6.1
90°-150°	73.3	7.2
90°-180°	74.0	7.3
0°-180°	1017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	296	296	296	296	296	
5°	293	296	295	295	296	28
15°	281	285	287	288	290	79
25°	257	261	266	270	272	118
35°	224	229	238	244	247	140
45°	185	193	204	212	216	143
55°	142	151	164	175	180	127
65°	96	106	122	137	144	95
75°	49	62	85	102	110	52
85°	9	29	54	73	80	11
90°	0	18	42	60	67	0
95°	0	11	32	48	55	0
105°	0	4	18	31	35	0
115°	0	2	10	19	22	0
125°	0	1	6	12	14	0
135°	0	0	4	8	9	0
145°	0	0	2	5	6	0
155°	0	0	0	1	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: P1356818

CATALOG NUMBER: 2ASL4-10HE-2-G52-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	296.2	296.2	296.2	296.2	296.2
2.5°	294.4	297.2	296.2	295.3	295.3
5°	293.4	296.2	295.3	295.3	296.2
7.5°	291.6	294.4	294.4	294.4	295.3
10°	288.8	292.5	292.5	292.5	293.4
12.5°	286.0	288.8	289.7	290.7	291.6
15°	281.3	285.1	286.9	287.9	289.7
17.5°	276.7	279.5	282.3	285.1	286.0
20°	271.1	274.8	277.6	280.4	281.3
22.5°	264.6	268.3	272.0	274.8	276.7
25°	257.1	260.8	266.4	270.2	272.0
27.5°	249.7	253.4	259.9	264.6	266.4
30°	240.3	245.9	252.5	258.0	260.8
32.5°	232.0	237.6	245.0	251.5	253.4
35°	223.6	229.2	237.6	244.1	246.9
37.5°	214.3	220.8	229.2	236.6	239.4
40°	204.9	211.5	220.8	229.2	231.0
42.5°	195.6	202.2	213.3	220.8	223.6
45°	185.4	192.8	204.0	212.4	216.1
47.5°	175.1	182.6	193.8	203.1	206.8
50°	164.0	172.3	184.5	193.8	197.5
52.5°	153.7	162.1	174.2	184.5	189.1
55°	142.5	150.9	164.0	175.1	179.8
57.5°	131.4	139.7	153.7	165.8	170.5
60°	120.2	128.6	142.5	156.5	161.2
62.5°	108.1	117.4	132.3	146.3	151.8
65°	96.0	106.2	122.0	136.9	143.5
67.5°	84.8	95.0	111.8	128.6	134.1
70°	72.7	83.8	102.5	119.2	125.8
72.5°	60.6	72.7	93.2	110.9	117.4
75°	49.4	62.4	84.8	102.5	109.9
77.5°	37.3	53.1	76.4	95.0	101.5
80°	27.0	43.8	68.0	87.6	94.1
82.5°	17.7	35.4	60.6	80.1	86.6
85°	9.3	28.9	54.0	72.7	80.1
87.5°	2.8	22.4	47.5	66.1	72.7
90°	0.0	17.7	41.9	59.6	67.1
92.5°	0.0	14.0	36.3	54.0	60.6
95°	0.0	11.2	31.7	48.4	55.0
97.5°	0.0	9.3	27.9	43.8	49.4
100°	0.0	7.5	24.2	39.1	44.7
102.5°	0.0	5.6	20.5	34.5	40.1
105°	0.0	3.7	17.7	30.7	35.4
107.5°	0.0	2.8	14.9	27.0	31.7
110°	0.0	2.8	14.0	23.3	27.9



TEST NUMBER: P1356818
 CATALOG NUMBER: 2ASL4-10HE-2-G52-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.9	12.1	21.4	25.2
115°	0.0	1.9	10.2	18.6	22.4
117.5°	0.0	1.9	9.3	16.8	20.5
120°	0.0	1.9	8.4	14.9	17.7
122.5°	0.0	0.9	7.5	13.0	15.8
125°	0.0	0.9	6.5	12.1	14.0
127.5°	0.0	0.9	5.6	11.2	13.0
130°	0.0	0.9	5.6	10.2	12.1
132.5°	0.0	0.0	4.7	9.3	11.2
135°	0.0	0.0	3.7	7.5	9.3
137.5°	0.0	0.0	3.7	6.5	8.4
140°	0.0	0.0	2.8	6.5	7.5
142.5°	0.0	0.0	1.9	5.6	6.5
145°	0.0	0.0	1.9	4.7	5.6
147.5°	0.0	0.0	0.9	3.7	4.7
150°	0.0	0.0	0.9	2.8	3.7
152.5°	0.0	0.0	0.0	1.9	2.8
155°	0.0	0.0	0.0	0.9	1.9
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: P1356818
 CATALOG NUMBER: 2ASL4-10HE-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	14.75	16.29	15.23	16.75	17.24	16.73	18.27	17.20	18.73	19.22
	3H	16.26	17.66	16.74	18.13	18.66	19.15	20.55	19.63	21.02	21.55
	4H	16.74	18.07	17.25	18.56	19.10	20.33	21.65	20.83	22.14	22.69
	6H	17.02	18.25	17.54	18.75	19.31	21.55	22.78	22.07	23.28	23.85
	8H	17.07	18.26	17.60	18.78	19.35	22.17	23.35	22.70	23.88	24.44
	12H	17.09	18.22	17.62	18.74	19.34	22.84	23.97	23.37	24.49	25.09
4H	2H	15.62	16.95	16.12	17.43	17.98	17.17	18.49	17.67	18.98	19.53
	3H	17.36	18.49	17.88	19.02	19.59	19.81	20.94	20.33	21.47	22.04
	4H	17.97	19.01	18.51	19.55	20.15	21.17	22.20	21.71	22.74	23.34
	6H	18.37	19.29	18.93	19.86	20.47	22.59	23.50	23.15	24.07	24.68
	8H	18.47	19.33	19.04	19.90	20.53	23.31	24.18	23.88	24.74	25.37
	12H	18.52	19.30	19.11	19.90	20.53	24.11	24.89	24.69	25.49	26.12
8H	4H	18.65	19.51	19.21	20.08	20.70	21.39	22.25	21.96	22.82	23.44
	6H	19.23	19.97	19.83	20.57	21.21	22.99	23.72	23.58	24.33	24.96
	8H	19.42	20.08	20.03	20.70	21.34	23.86	24.52	24.47	25.14	25.78
	12H	19.54	20.13	20.15	20.74	21.45	24.84	25.43	25.45	26.04	26.75
12H	4H	18.84	19.62	19.43	20.22	20.85	21.40	22.18	21.99	22.78	23.41
	6H	19.53	20.19	20.13	20.81	21.45	23.03	23.69	23.64	24.31	24.95
	8H	19.81	20.40	20.42	21.01	21.72	23.97	24.56	24.58	25.17	25.88

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

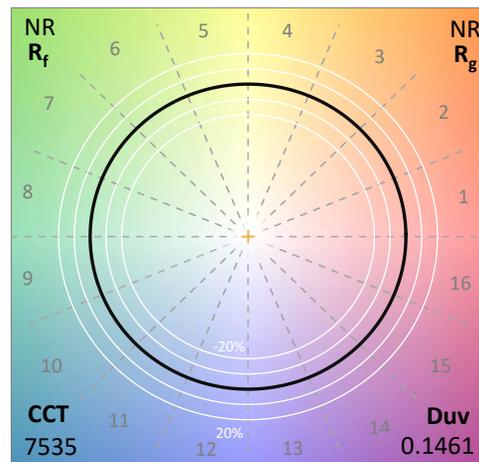
Test Information

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



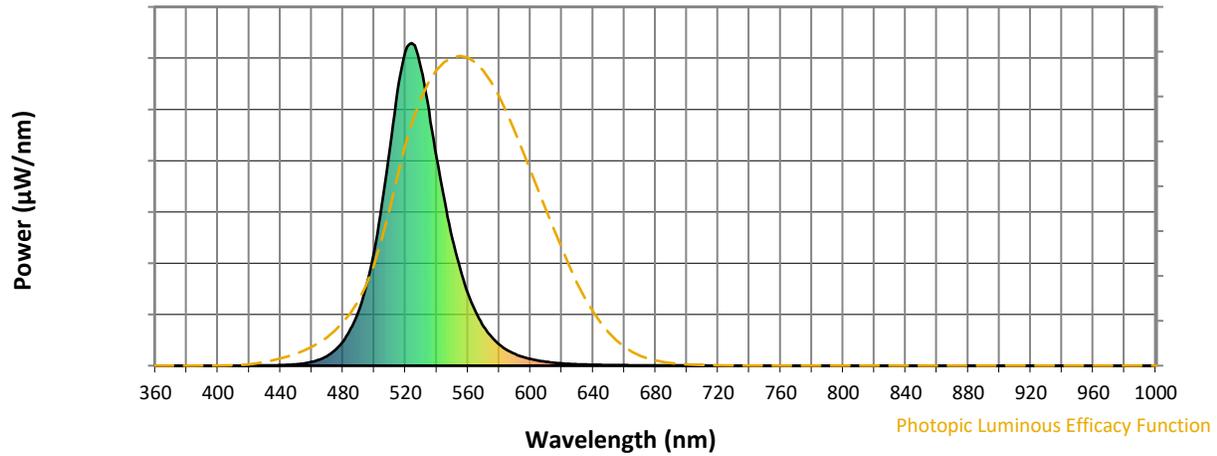
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies outside the range

REPORT NUMBER: SP1-2511-597-8

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/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



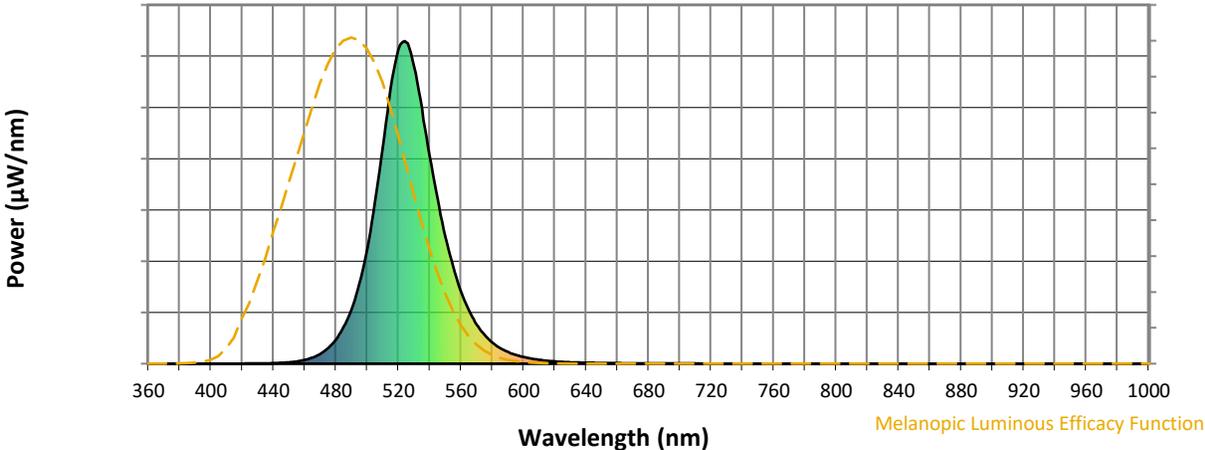
Scotopic Lumens: NR

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



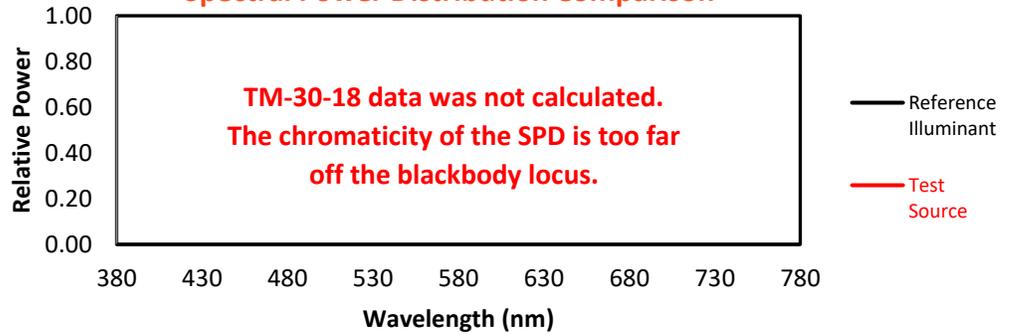
Melanopic Lumens: NR M/P: 4.87

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			

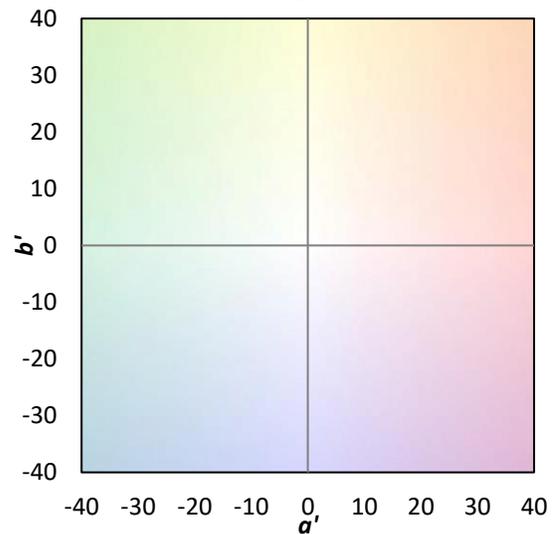
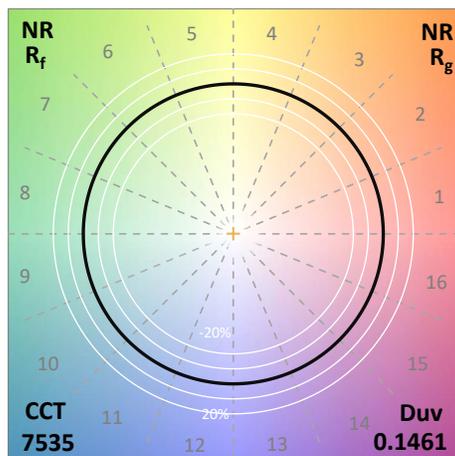
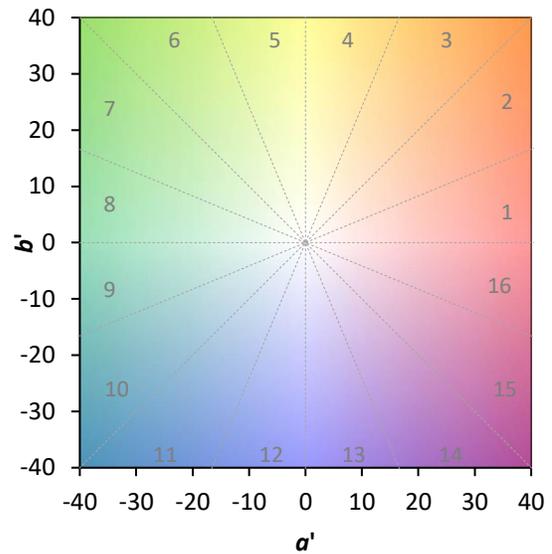
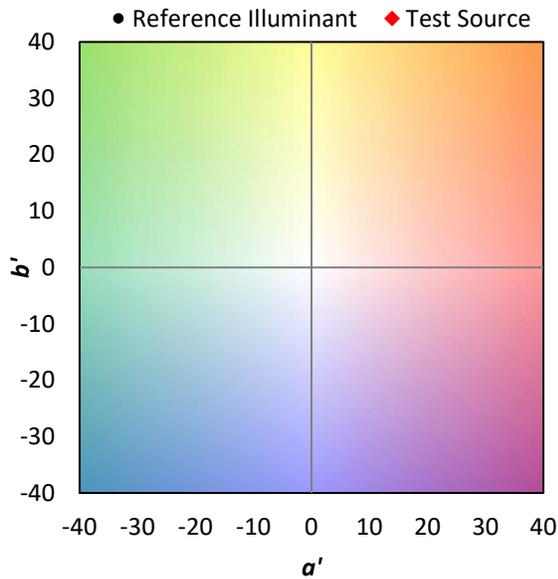
Summary

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

Spectral Power Distribution Comparison

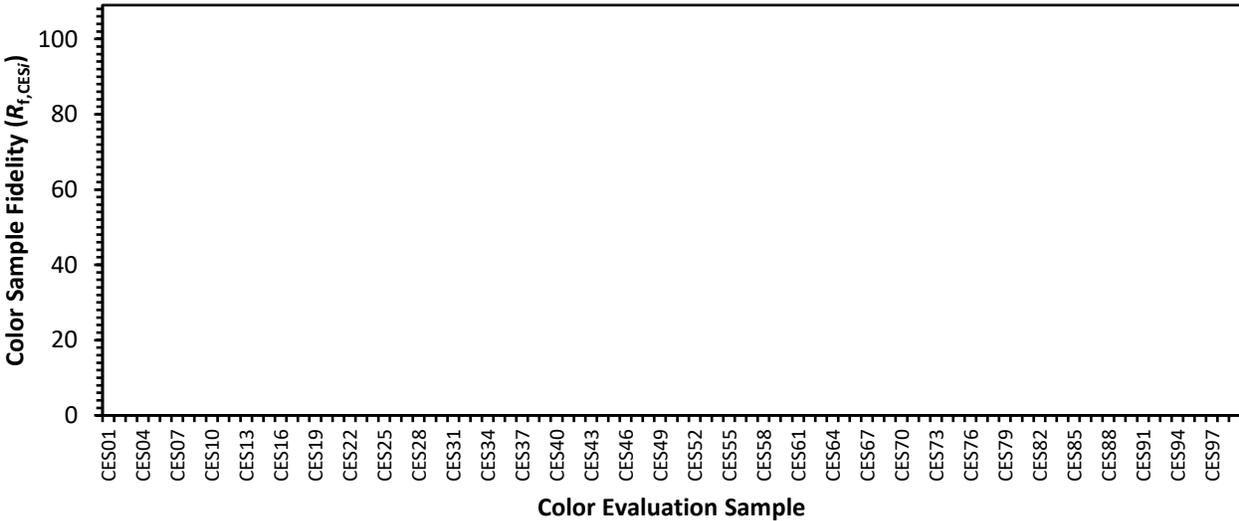


Color Vector Graphics

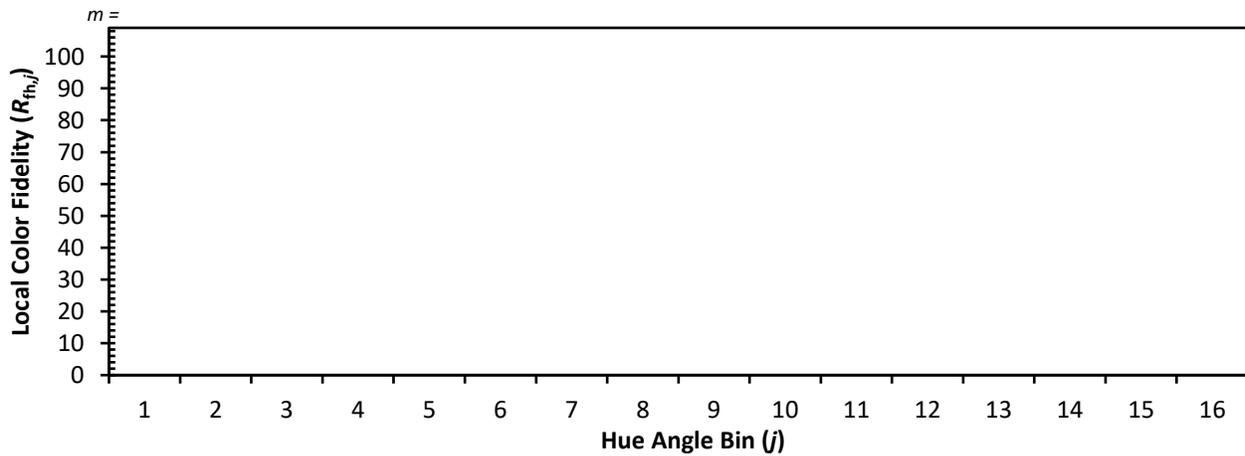


Individual Sample Fidelity Index ($R_{f,i}$)

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)