

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: P1357346

Luminaire Tested: 6ASL4-20VHE-3-G52-UNV

Issue Date: 2/17/2026

**Test Information**

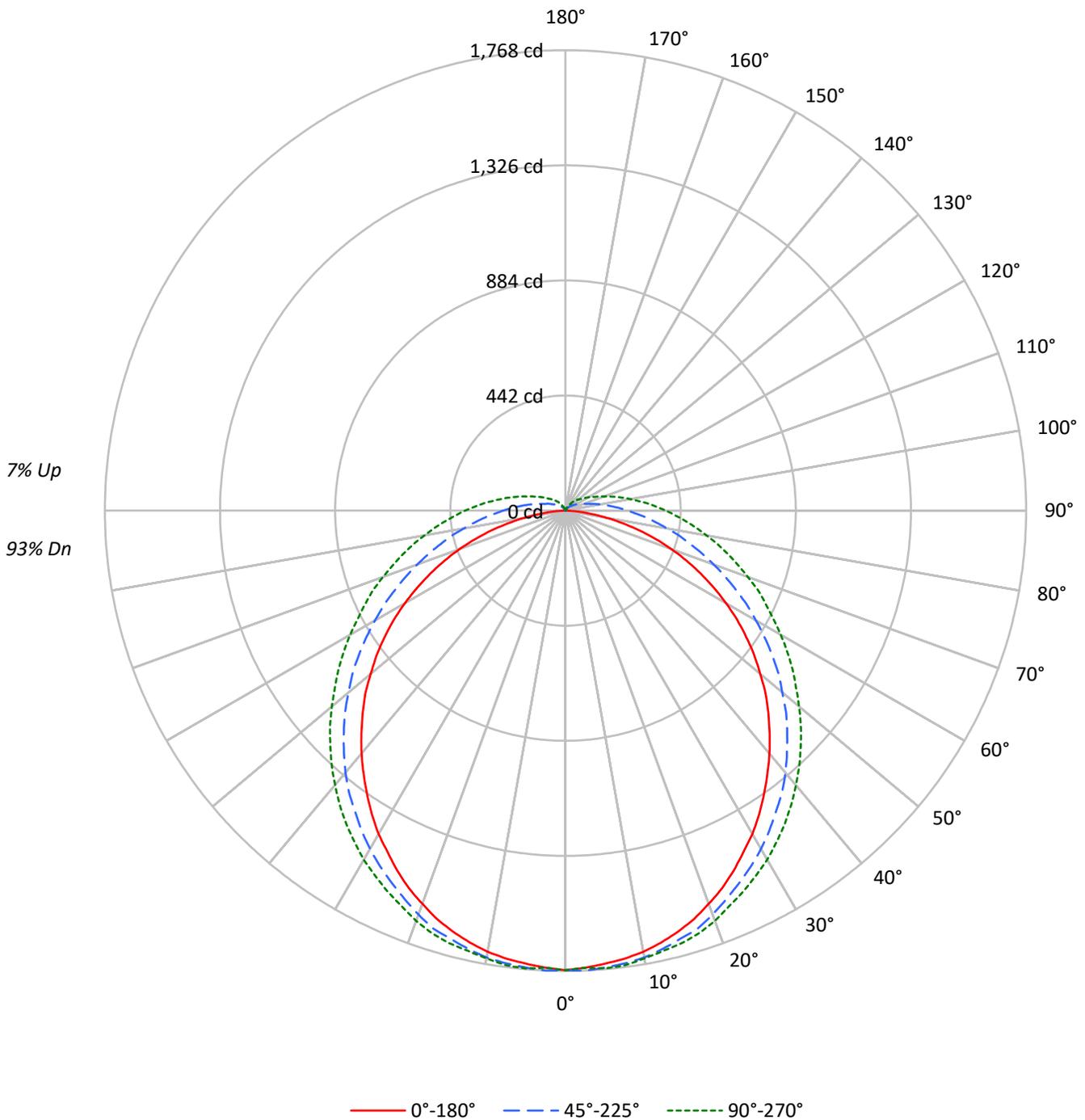
Test Method: LM-79-2019  
Report Number: P1357346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 6ASL4-20VHE-3-G52-UNV  
Description: 6FT 2000 LUMEN 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: 6000.0 lumens  
Efficiency: N/A  
Efficacy: 51.7 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): 116.1  
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: P1357346  
CATALOG NUMBER: 6ASL4-20VHE-3-G52-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P1357346

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	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	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9531	9531	9531
5°	9453	9356	9313
10°	9408	9179	9077
15°	9311	8958	8878
20°	9177	8746	8652
25°	9021	8479	8396
30°	8857	8247	8179
35°	8651	7984	7938
40°	8463	7744	7685
45°	8262	7453	7429
50°	8033	7140	7165
55°	7786	6841	6926
60°	7462	6491	6685
65°	7050	6156	6485
70°	6524	5825	6328
75°	5751	5525	6220
80°	4568	5304	6174
85°	2842	5270	6266

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8262 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.3	2.8
10°-20°	480.5	8.0
20°-30°	726.4	12.1
30°-40°	879.6	14.7
40°-50°	923.8	15.4
50°-60°	861.9	14.4
60°-70°	712.3	11.9
70°-80°	512.9	8.5
80°-90°	318.7	5.3
90°-100°	186.8	3.1
100°-110°	106.8	1.8
110°-120°	60.3	1.0
120°-130°	34.7	0.6
130°-140°	18.7	0.3
140°-150°	7.9	0.1
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1374.2	22.9
0°-40°	2253.8	37.6
0°-60°	4039.5	67.3
0°-90°	5583.4	93.1
90°-120°	353.9	5.9
90°-150°	415.2	6.9
90°-180°	417.0	7.0
0°-180°	6000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1746	1761	1761	1761	1765	166
15°	1673	1695	1702	1713	1721	472
25°	1526	1552	1578	1600	1614	703
35°	1328	1365	1409	1449	1468	831
45°	1101	1141	1203	1255	1277	849
55°	848	895	969	1038	1064	757
65°	572	627	723	814	848	566
75°	294	367	495	602	646	310
85°	55	165	312	422	462	67
90°	0	99	238	341	385	3
95°	0	62	180	275	316	0
105°	0	22	99	172	202	0
115°	0	11	59	106	125	0
125°	0	7	37	70	81	0
135°	0	0	22	44	55	0
145°	0	0	11	26	29	0
155°	0	0	0	7	11	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357346  
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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1757.3	1768.3	1768.3	1757.3	1757.3
5°	1746.3	1761.0	1761.0	1761.0	1764.7
7.5°	1735.3	1753.7	1753.7	1753.7	1761.0
10°	1720.7	1739.0	1742.7	1742.7	1746.3
12.5°	1698.6	1720.7	1724.3	1728.0	1731.7
15°	1673.0	1695.0	1702.3	1713.3	1720.7
17.5°	1643.6	1669.3	1684.0	1695.0	1702.3
20°	1606.9	1632.6	1650.9	1665.6	1676.6
22.5°	1570.2	1592.2	1614.3	1632.6	1643.6
25°	1526.2	1551.9	1577.6	1599.6	1614.3
27.5°	1478.5	1507.9	1540.9	1566.6	1581.2
30°	1434.5	1463.8	1500.5	1533.5	1548.2
32.5°	1383.1	1416.1	1456.5	1489.5	1507.9
35°	1328.1	1364.8	1408.8	1449.2	1467.5
37.5°	1273.1	1309.8	1364.8	1405.1	1423.5
40°	1218.0	1254.7	1313.4	1357.4	1375.8
42.5°	1159.3	1196.0	1258.4	1306.1	1328.1
45°	1100.6	1141.0	1203.4	1254.7	1276.7
47.5°	1041.9	1082.3	1148.3	1203.4	1225.4
50°	975.9	1019.9	1086.0	1148.3	1170.3
52.5°	913.5	957.6	1030.9	1093.3	1115.3
55°	847.5	895.2	968.6	1038.3	1063.9
57.5°	781.4	829.1	906.2	979.6	1008.9
60°	711.7	763.1	843.8	920.9	953.9
62.5°	642.0	697.1	785.1	865.8	898.8
65°	572.3	627.4	722.7	814.5	847.5
67.5°	502.6	561.3	664.0	759.4	799.8
70°	432.9	495.3	605.3	704.4	744.8
72.5°	363.2	429.2	550.3	653.0	693.4
75°	293.5	366.9	495.3	601.7	645.7
77.5°	223.8	308.2	447.6	554.0	598.0
80°	161.4	256.8	396.2	506.3	550.3
82.5°	102.7	205.5	352.2	462.3	506.3
85°	55.0	165.1	311.8	421.9	462.3
87.5°	18.3	128.4	271.5	381.6	421.9
90°	0.0	99.1	238.5	341.2	385.2
92.5°	0.0	77.0	209.1	308.2	348.5
95°	0.0	62.4	179.8	275.2	315.5
97.5°	0.0	51.4	157.8	245.8	282.5
100°	0.0	40.4	135.7	220.1	253.1
102.5°	0.0	33.0	117.4	194.4	227.5
105°	0.0	22.0	99.1	172.4	201.8
107.5°	0.0	18.3	84.4	154.1	179.8
110°	0.0	14.7	77.0	132.1	157.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.0	69.7	117.4	143.1
115°	0.0	11.0	58.7	106.4	124.7
117.5°	0.0	11.0	51.4	95.4	113.7
120°	0.0	7.3	47.7	84.4	102.7
122.5°	0.0	7.3	40.4	77.0	91.7
125°	0.0	7.3	36.7	69.7	80.7
127.5°	0.0	3.7	33.0	62.4	73.4
130°	0.0	3.7	29.4	55.0	66.0
132.5°	0.0	3.7	25.7	51.4	62.4
135°	0.0	0.0	22.0	44.0	55.0
137.5°	0.0	0.0	18.3	40.4	47.7
140°	0.0	0.0	14.7	33.0	44.0
142.5°	0.0	0.0	11.0	29.4	36.7
145°	0.0	0.0	11.0	25.7	29.4
147.5°	0.0	0.0	7.3	18.3	25.7
150°	0.0	0.0	3.7	14.7	18.3
152.5°	0.0	0.0	0.0	11.0	14.7
155°	0.0	0.0	0.0	7.3	11.0
157.5°	0.0	0.0	0.0	0.0	3.7
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



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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	17.18	18.72	17.64	19.17	19.65	19.23	20.77	19.70	21.23	21.71
	3H	18.67	20.08	19.15	20.54	21.07	21.71	23.11	22.19	23.58	24.10
	4H	19.15	20.48	19.65	20.97	21.50	22.91	24.25	23.42	24.73	25.27
	6H	19.43	20.67	19.94	21.16	21.72	24.19	25.43	24.70	25.92	26.47
	8H	19.48	20.67	20.01	21.19	21.75	24.85	26.04	25.37	26.55	27.11
	12H	19.49	20.63	20.03	21.15	21.74	25.58	26.72	26.11	27.23	27.82
4H	2H	18.06	19.39	18.56	19.87	20.41	19.66	21.00	20.17	21.48	22.02
	3H	19.79	20.93	20.31	21.45	22.01	22.36	23.50	22.88	24.02	24.59
	4H	20.40	21.44	20.93	21.97	22.56	23.74	24.78	24.28	25.32	25.91
	6H	20.79	21.71	21.35	22.27	22.88	25.21	26.12	25.76	26.69	27.29
	8H	20.89	21.75	21.45	22.31	22.93	25.97	26.84	26.53	27.40	28.02
	12H	20.93	21.72	21.52	22.31	22.93	26.83	27.62	27.41	28.21	28.83
8H	4H	21.08	21.95	21.64	22.51	23.13	23.96	24.82	24.52	25.38	26.00
	6H	21.66	22.40	22.26	23.00	23.62	25.59	26.32	26.18	26.93	27.55
	8H	21.84	22.51	22.45	23.12	23.76	26.50	27.16	27.10	27.77	28.41
	12H	21.96	22.55	22.57	23.15	23.86	27.54	28.13	28.15	28.74	29.44
12H	4H	21.28	22.06	21.86	22.66	23.28	23.97	24.75	24.55	25.34	25.97
	6H	21.96	22.62	22.57	23.24	23.87	25.63	26.29	26.23	26.90	27.54
	8H	22.24	22.83	22.85	23.43	24.14	26.60	27.19	27.21	27.80	28.50

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

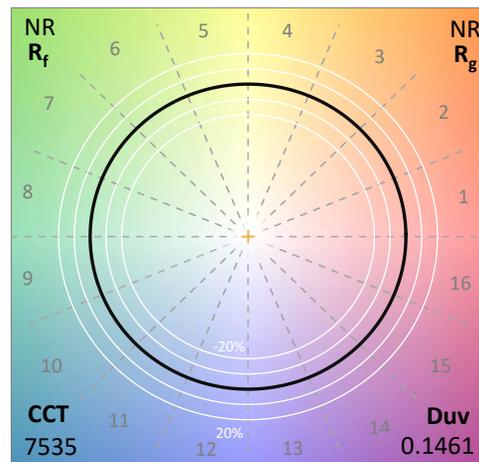
**Test Information**

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

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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

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CIE 1931 Chromaticity Diagram



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

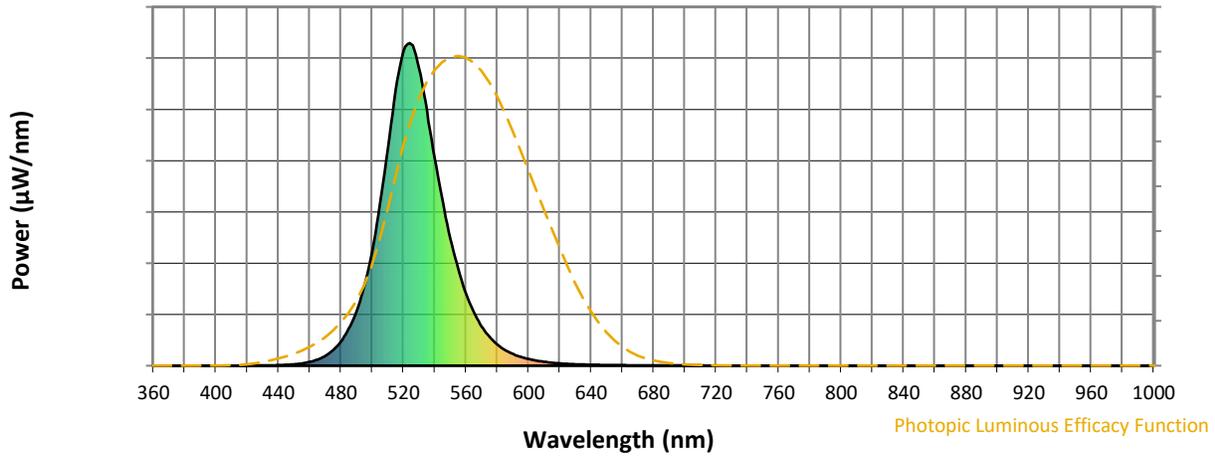


CCT = 7535K  
 CIE x = 0.1962  
 CIE y = 0.6931  
 Duv = 0.1461

Point lies outside the range

REPORT NUMBER: SP1-2511-597-8

**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			

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**Scotopic Flux vs. Wavelength**



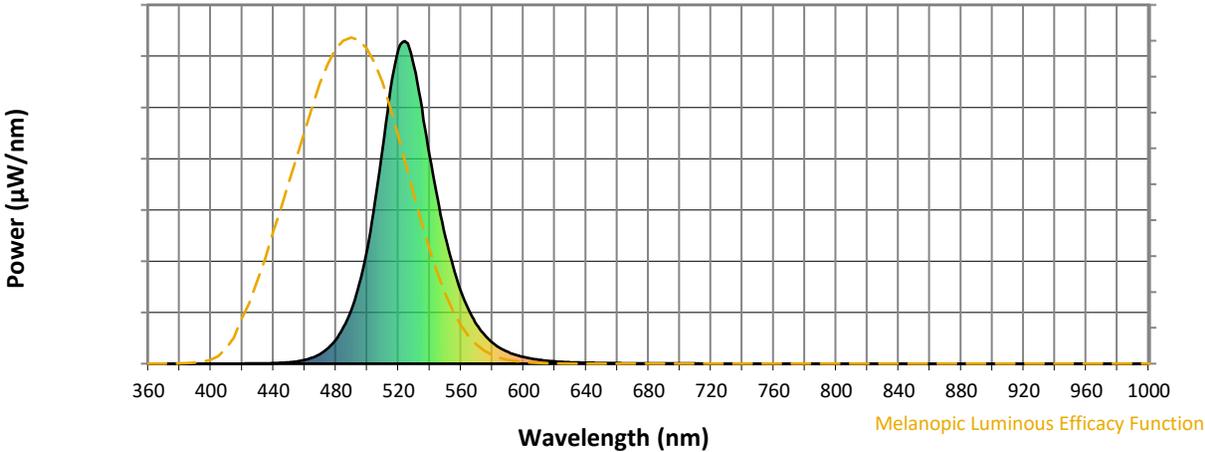
**Scotopic Lumens: NR**

**S/P: 2.63**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

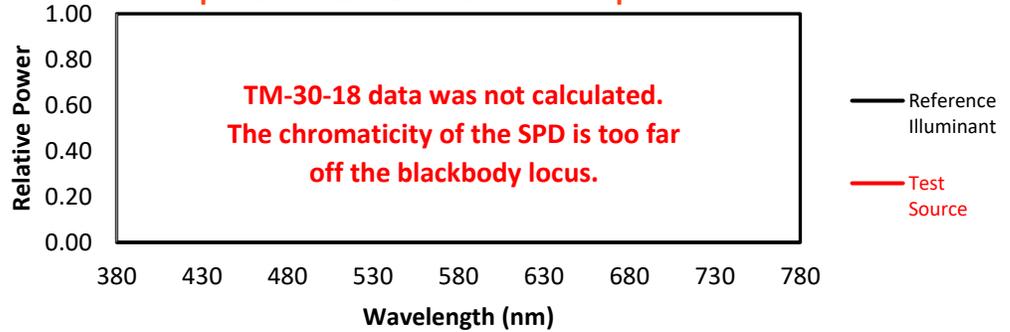
M/P: 4.87

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			

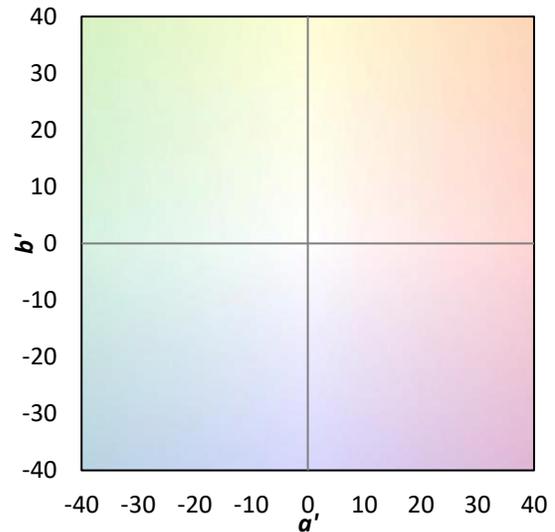
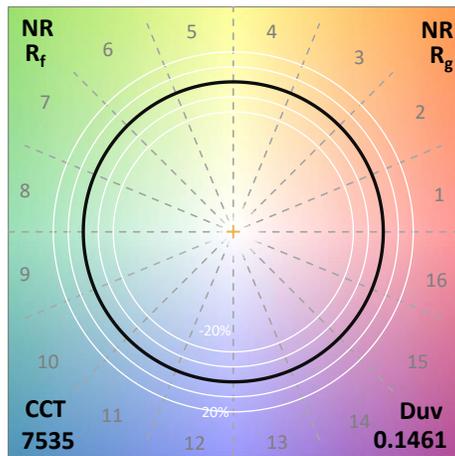
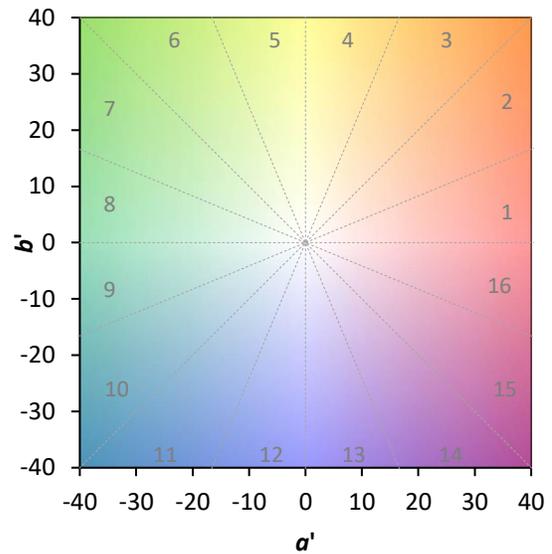
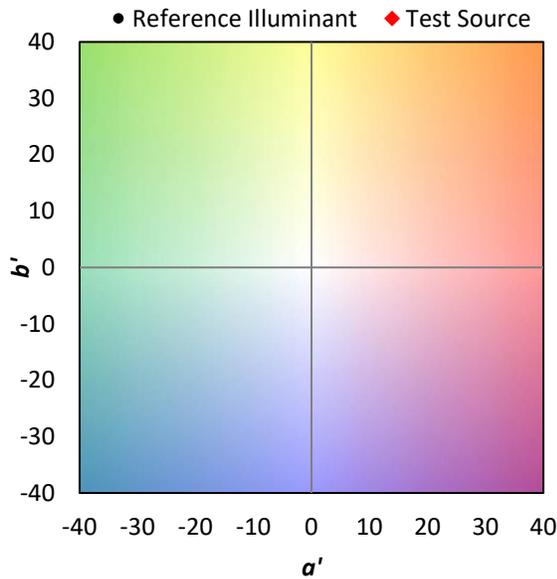
**Summary**

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

**Spectral Power Distribution Comparison**



**Color Vector Graphics**

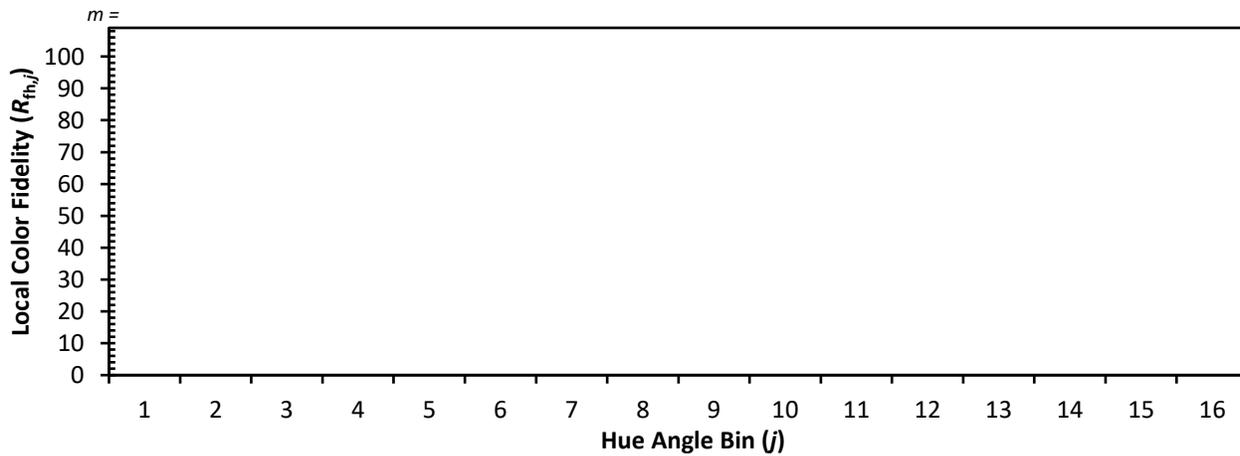


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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)