

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: P1356797

Luminaire Tested: 2ASL4-10-1-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356797  
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: 2ASL4-10-1-92765-UNV\_3000K  
Description: 2FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

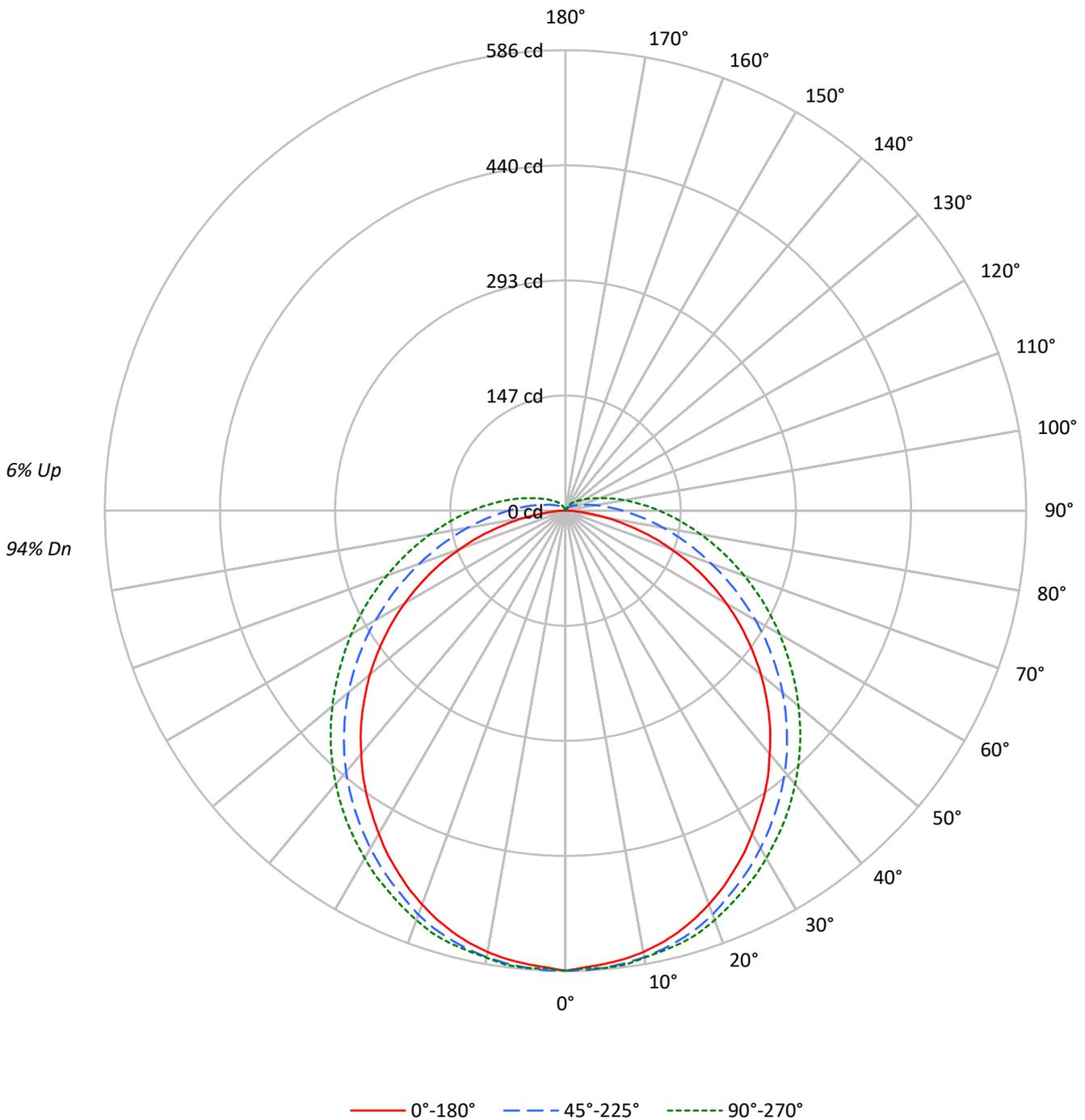
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1961.1 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 18  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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### Luminous Intensity Polar Plot





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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	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	78	78	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	64	64	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	54	54	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	46	46	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	40	40	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	35	35	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	31	31	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	27	27	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	25	25	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	22	22	22	21

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

	0°	45°	90°
0°	9556	9556	9556
5°	9441	9349	9317
10°	9365	9145	9073
15°	9249	8929	8881
20°	9087	8687	8646
25°	8895	8400	8392
30°	8687	8137	8154
35°	8477	7869	7916
40°	8245	7598	7669
45°	8019	7303	7421
50°	7755	6997	7158
55°	7432	6650	6894
60°	7073	6291	6663
65°	6619	5911	6433
70°	5939	5512	6206
75°	5064	5146	6035
80°	3886	4827	5928
85°	2092	4582	5970

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8019 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	2.8
10°-20°	159.2	8.1
20°-30°	240.7	12.3
30°-40°	291.0	14.8
40°-50°	306.0	15.6
50°-60°	285.0	14.5
60°-70°	234.2	11.9
70°-80°	166.2	8.5
80°-90°	100.2	5.1
90°-100°	56.1	2.9
100°-110°	31.1	1.6
110°-120°	17.3	0.9
120°-130°	10.0	0.5
130°-140°	5.5	0.3
140°-150°	2.4	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	455.4	23.2
0°-40°	746.4	38.1
0°-60°	1337.4	68.2
0°-90°	1838.0	93.7
90°-120°	104.6	5.3
90°-150°	122.5	6.2
90°-180°	123.0	6.3
0°-180°	1961.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	579	584	584	583	584	55
15°	555	562	565	568	570	157
25°	506	516	523	530	534	233
35°	441	453	466	478	484	276
45°	366	379	398	415	422	282
55°	281	297	320	341	350	251
65°	191	208	238	266	278	188
75°	96	121	160	194	207	103
85°	18	52	97	132	146	22
90°	0	30	72	106	119	1
95°	0	18	53	84	95	0
105°	0	7	28	50	60	0
115°	0	3	17	30	36	0
125°	0	2	11	20	23	0
135°	0	1	7	13	16	0
145°	1	0	3	7	9	0
155°	1	1	0	2	3	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	585.7	585.7	585.7	585.7	585.7
2.5°	581.8	587.1	585.7	583.1	583.1
5°	579.1	584.4	583.7	583.1	584.4
7.5°	575.8	581.1	581.1	581.8	583.1
10°	570.5	577.1	577.1	577.1	577.8
12.5°	563.9	570.5	571.8	572.5	573.8
15°	555.3	562.5	565.2	567.8	569.8
17.5°	545.3	552.6	557.2	560.6	563.9
20°	533.4	541.3	547.3	551.3	554.6
22.5°	520.8	528.8	534.7	540.7	544.7
25°	506.2	515.5	522.8	530.1	534.1
27.5°	491.6	500.9	510.2	518.8	523.5
30°	475.1	485.7	496.3	506.2	510.9
32.5°	457.9	469.1	481.7	492.3	497.6
35°	441.3	452.6	466.5	478.4	484.4
37.5°	423.4	434.7	450.6	463.8	469.8
40°	404.2	416.8	434.0	447.9	454.5
42.5°	385.6	398.2	416.8	432.0	438.6
45°	365.8	379.0	398.2	414.8	422.1
47.5°	345.2	359.1	379.7	396.9	404.8
50°	324.7	339.2	360.5	379.0	387.0
52.5°	302.8	318.0	340.6	360.5	369.1
55°	280.9	296.8	320.0	341.2	350.5
57.5°	259.1	275.0	300.2	322.7	332.6
60°	236.5	253.1	279.0	303.5	314.7
62.5°	213.4	230.6	257.7	284.3	296.2
65°	190.8	208.1	237.9	265.7	278.3
67.5°	167.0	185.5	217.3	246.5	259.7
70°	142.5	163.7	197.5	228.6	241.8
72.5°	120.6	142.5	178.9	210.7	224.6
75°	96.1	120.6	160.3	193.5	207.4
77.5°	74.9	101.4	143.1	176.9	190.8
80°	53.7	82.8	126.6	161.0	174.9
82.5°	34.5	66.3	111.3	146.4	159.7
85°	17.9	51.7	96.7	132.5	145.8
87.5°	5.3	39.8	83.5	118.6	131.9
90°	0.0	30.5	72.2	106.0	118.6
92.5°	0.0	23.2	62.3	94.8	107.3
95°	0.0	17.9	53.0	83.5	95.4
97.5°	0.0	13.9	45.7	73.5	85.5
100°	0.0	11.3	39.1	64.9	76.2
102.5°	0.0	9.3	33.8	57.6	67.6
105°	0.0	6.6	27.8	50.4	59.6
107.5°	0.0	4.6	24.5	44.4	52.3
110°	0.0	4.0	21.9	38.4	46.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.3	19.2	34.5	41.1
115°	0.0	3.3	17.2	30.5	36.4
117.5°	0.0	2.7	14.6	27.2	32.5
120°	0.0	2.7	13.3	24.5	29.2
122.5°	0.0	2.0	11.9	21.9	26.5
125°	0.0	2.0	10.6	19.9	23.2
127.5°	0.0	1.3	9.3	17.9	21.2
130°	0.0	1.3	8.6	15.9	19.2
132.5°	0.0	0.7	8.0	14.6	17.2
135°	0.0	0.7	6.6	12.6	15.9
137.5°	0.0	0.0	6.0	11.3	13.9
140°	0.0	0.0	4.6	9.9	12.6
142.5°	0.7	0.0	4.0	8.6	10.6
145°	0.7	0.0	2.7	7.3	9.3
147.5°	0.7	0.7	2.0	6.0	7.3
150°	0.7	0.7	1.3	4.0	6.0
152.5°	0.7	0.7	0.7	2.7	4.0
155°	0.7	0.7	0.0	2.0	2.7
157.5°	0.7	0.7	0.0	0.7	1.3
160°	0.7	0.7	0.0	0.0	0.7
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	17.22	18.77	17.68	19.21	19.68	19.12	20.67	19.57	21.11	21.58
	3H	18.71	20.12	19.18	20.58	21.09	21.49	22.90	21.96	23.36	23.87
	4H	19.19	20.53	19.68	21.00	21.52	22.63	23.97	23.12	24.44	24.96
	6H	19.47	20.71	19.97	21.20	21.74	23.79	25.03	24.29	25.52	26.06
	8H	19.52	20.71	20.04	21.22	21.77	24.37	25.57	24.89	26.07	26.62
	12H	19.53	20.68	20.06	21.18	21.76	24.99	26.14	25.52	26.64	27.22
4H	2H	18.07	19.41	18.56	19.88	20.40	19.55	20.90	20.05	21.37	21.89
	3H	19.80	20.94	20.30	21.45	22.00	22.15	23.29	22.66	23.81	24.35
	4H	20.40	21.44	20.92	21.96	22.54	23.46	24.50	23.98	25.03	25.60
	6H	20.79	21.71	21.34	22.27	22.86	24.81	25.73	25.35	26.28	26.87
	8H	20.89	21.75	21.44	22.30	22.91	25.49	26.36	26.05	26.91	27.52
	12H	20.93	21.72	21.50	22.30	22.91	26.24	27.03	26.81	27.61	28.22
8H	4H	21.03	21.89	21.58	22.45	23.05	23.67	24.54	24.22	25.09	25.70
	6H	21.60	22.33	22.18	22.92	23.53	25.19	25.92	25.77	26.52	27.13
	8H	21.77	22.44	22.37	23.04	23.66	26.02	26.68	26.61	27.28	27.91
	12H	21.88	22.47	22.48	23.07	23.76	26.95	27.54	27.54	28.13	28.82
12H	4H	21.20	21.99	21.77	22.57	23.18	23.68	24.47	24.25	25.05	25.66
	6H	21.86	22.52	22.45	23.13	23.75	25.23	25.89	25.82	26.49	27.12
	8H	22.13	22.72	22.73	23.31	24.00	26.12	26.71	26.72	27.31	28.00