

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: P1356944

Luminaire Tested: 2ASL4-5-1-92765-UNV\_5000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356944  
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: 2ASL4-5-1-92765-UNV\_5000K  
Description: 2FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 5000K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

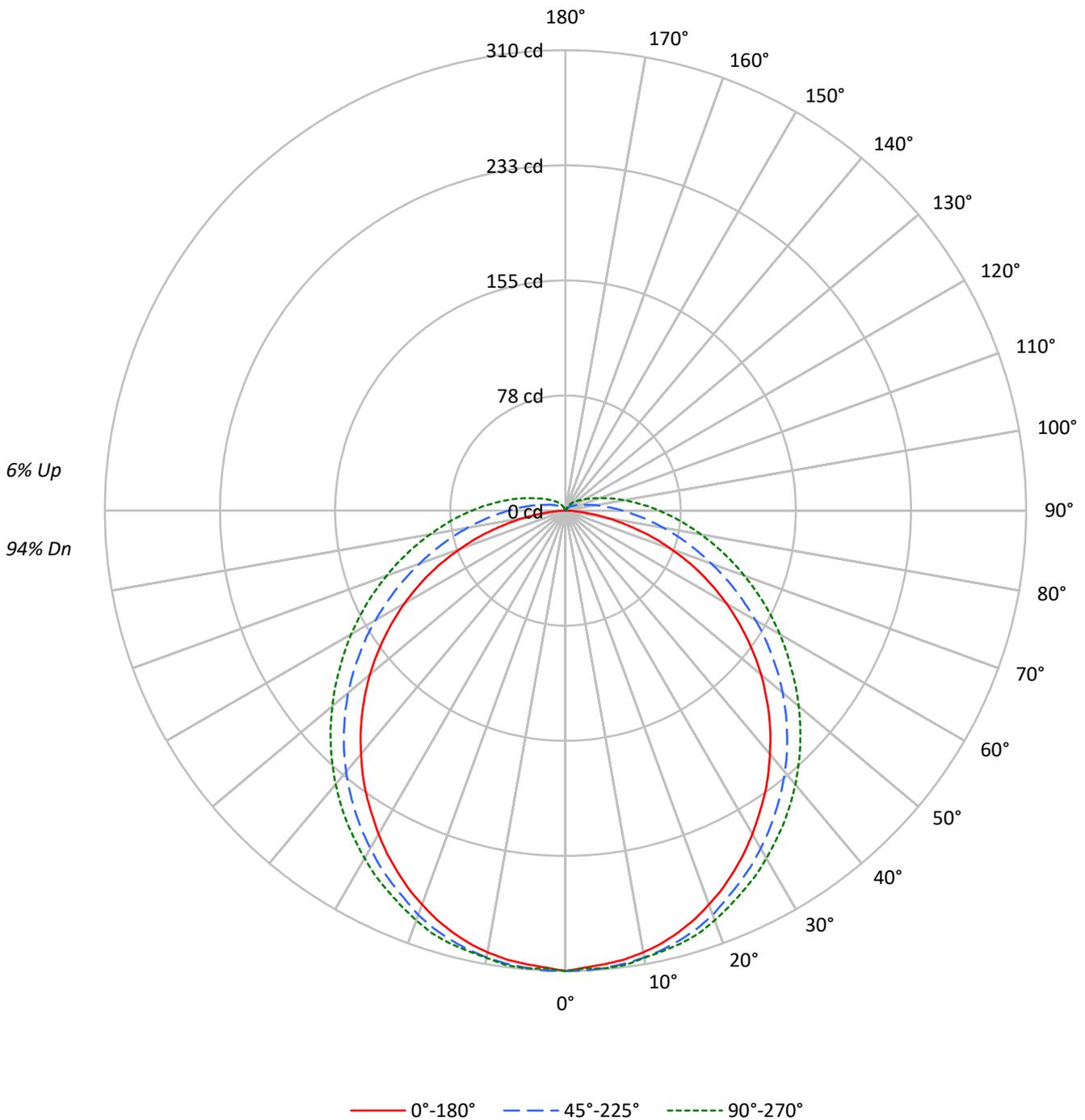
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1038.1 lumens  
Efficiency: N/A  
Efficacy: 120.7 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): 8.6  
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°	5058	5058	5058
5°	4997	4949	4931
10°	4957	4841	4802
15°	4895	4727	4701
20°	4809	4598	4577
25°	4709	4446	4442
30°	4599	4307	4316
35°	4487	4165	4190
40°	4363	4021	4060
45°	4244	3866	3927
50°	4106	3704	3788
55°	3934	3521	3648
60°	3744	3330	3527
65°	3504	3128	3405
70°	3143	2916	3285
75°	2682	2726	3195
80°	2055	2555	3138
85°	1110	2426	3161

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4244 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.4	2.8
10°-20°	84.3	8.1
20°-30°	127.4	12.3
30°-40°	154.0	14.8
40°-50°	162.0	15.6
50°-60°	150.9	14.5
60°-70°	123.9	11.9
70°-80°	88.0	8.5
80°-90°	53.0	5.1
90°-100°	29.7	2.9
100°-110°	16.5	1.6
110°-120°	9.2	0.9
120°-130°	5.3	0.5
130°-140°	2.9	0.3
140°-150°	1.3	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<b>0°-30°</b>	<b>241.1</b>	<b>23.2</b>
<b>0°-40°</b>	<b>395.1</b>	<b>38.1</b>
<b>0°-60°</b>	<b>707.9</b>	<b>68.2</b>
<b>0°-90°</b>	<b>972.9</b>	<b>93.7</b>
90°-120°	55.4	5.3
90°-150°	64.9	6.2
<b>90°-180°</b>	<b>65.0</b>	<b>6.3</b>
<b>0°-180°</b>	<b>1038.1</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	310	310	310	310	310	
5°	306	309	309	309	309	29
15°	294	298	299	301	302	83
25°	268	273	277	281	283	123
35°	234	240	247	253	256	146
45°	194	201	211	220	223	149
55°	149	157	169	181	186	133
65°	101	110	126	141	147	100
75°	51	64	85	102	110	54
85°	10	27	51	70	77	12
90°	0	16	38	56	63	0
95°	0	10	28	44	50	0
105°	0	4	15	27	32	0
115°	0	2	9	16	19	0
125°	0	1	6	10	12	0
135°	0	0	4	7	8	0
145°	0	0	1	4	5	0
155°	0	0	0	1	1	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°	310.0	310.0	310.0	310.0	310.0
2.5°	307.9	310.7	310.0	308.6	308.6
5°	306.5	309.3	309.0	308.6	309.3
7.5°	304.8	307.6	307.6	307.9	308.6
10°	302.0	305.5	305.5	305.5	305.8
12.5°	298.5	302.0	302.7	303.0	303.7
15°	293.9	297.8	299.2	300.6	301.6
17.5°	288.6	292.5	295.0	296.7	298.5
20°	282.3	286.5	289.7	291.8	293.6
22.5°	275.7	279.9	283.0	286.2	288.3
25°	268.0	272.9	276.7	280.6	282.7
27.5°	260.2	265.1	270.1	274.6	277.1
30°	251.5	257.1	262.7	268.0	270.4
32.5°	242.4	248.3	255.0	260.6	263.4
35°	233.6	239.5	246.9	253.2	256.4
37.5°	224.1	230.1	238.5	245.5	248.7
40°	213.9	220.6	229.7	237.1	240.6
42.5°	204.1	210.8	220.6	228.7	232.2
45°	193.6	200.6	210.8	219.6	223.4
47.5°	182.7	190.1	201.0	210.1	214.3
50°	171.9	179.6	190.8	200.6	204.8
52.5°	160.3	168.3	180.3	190.8	195.4
55°	148.7	157.1	169.4	180.6	185.5
57.5°	137.1	145.6	158.9	170.8	176.1
60°	125.2	134.0	147.7	160.6	166.6
62.5°	112.9	122.1	136.4	150.5	156.8
65°	101.0	110.1	125.9	140.6	147.3
67.5°	88.4	98.2	115.0	130.5	137.5
70°	75.4	86.6	104.5	121.0	128.0
72.5°	63.8	75.4	94.7	111.5	118.9
75°	50.9	63.8	84.9	102.4	109.8
77.5°	39.6	53.7	75.8	93.6	101.0
80°	28.4	43.8	67.0	85.2	92.6
82.5°	18.2	35.1	58.9	77.5	84.5
85°	9.5	27.4	51.2	70.1	77.2
87.5°	2.8	21.0	44.2	62.8	69.8
90°	0.0	16.1	38.2	56.1	62.8
92.5°	0.0	12.3	33.0	50.2	56.8
95°	0.0	9.5	28.1	44.2	50.5
97.5°	0.0	7.4	24.2	38.9	45.2
100°	0.0	6.0	20.7	34.4	40.3
102.5°	0.0	4.9	17.9	30.5	35.8
105°	0.0	3.5	14.7	26.7	31.6
107.5°	0.0	2.5	13.0	23.5	27.7
110°	0.0	2.1	11.6	20.3	24.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.8	10.2	18.2	21.7
115°	0.0	1.8	9.1	16.1	19.3
117.5°	0.0	1.4	7.7	14.4	17.2
120°	0.0	1.4	7.0	13.0	15.4
122.5°	0.0	1.1	6.3	11.6	14.0
125°	0.0	1.1	5.6	10.5	12.3
127.5°	0.0	0.7	4.9	9.5	11.2
130°	0.0	0.7	4.6	8.4	10.2
132.5°	0.0	0.4	4.2	7.7	9.1
135°	0.0	0.4	3.5	6.7	8.4
137.5°	0.0	0.0	3.2	6.0	7.4
140°	0.0	0.0	2.5	5.3	6.7
142.5°	0.4	0.0	2.1	4.6	5.6
145°	0.4	0.0	1.4	3.9	4.9
147.5°	0.4	0.4	1.1	3.2	3.9
150°	0.4	0.4	0.7	2.1	3.2
152.5°	0.4	0.4	0.4	1.4	2.1
155°	0.4	0.4	0.0	1.1	1.4
157.5°	0.4	0.4	0.0	0.4	0.7
160°	0.4	0.4	0.0	0.0	0.4
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	15.01	16.56	15.47	17.00	17.47	16.90	18.46	17.36	18.90	19.37
	3H	16.50	17.91	16.97	18.37	18.88	19.28	20.69	19.75	21.15	21.66
	4H	16.98	18.32	17.47	18.79	19.31	20.42	21.76	20.91	22.23	22.75
	6H	17.25	18.50	17.76	18.99	19.53	21.58	22.82	22.08	23.31	23.85
	8H	17.31	18.50	17.83	19.01	19.56	22.16	23.36	22.68	23.86	24.41
	12H	17.32	18.47	17.84	18.97	19.54	22.78	23.93	23.31	24.43	25.01
4H	2H	15.86	17.20	16.35	17.67	18.19	17.34	18.68	17.84	19.15	19.68
	3H	17.58	18.73	18.09	19.24	19.79	19.94	21.08	20.45	21.60	22.14
	4H	18.18	19.23	18.71	19.75	20.33	21.25	22.29	21.77	22.82	23.39
	6H	18.58	19.50	19.13	20.05	20.65	22.60	23.52	23.14	24.07	24.66
	8H	18.67	19.54	19.23	20.09	20.70	23.28	24.15	23.83	24.70	25.31
	12H	18.72	19.50	19.29	20.08	20.69	24.03	24.82	24.60	25.40	26.01
8H	4H	18.82	19.68	19.37	20.24	20.84	21.46	22.33	22.01	22.88	23.49
	6H	19.38	20.12	19.97	20.71	21.32	22.98	23.71	23.56	24.31	24.92
	8H	19.56	20.22	20.16	20.83	21.45	23.81	24.47	24.40	25.07	25.70
	12H	19.67	20.26	20.27	20.86	21.55	24.73	25.33	25.33	25.92	26.61
12H	4H	18.99	19.78	19.56	20.36	20.97	21.47	22.26	22.04	22.84	23.45
	6H	19.65	20.31	20.24	20.92	21.54	23.02	23.68	23.61	24.28	24.91
	8H	19.92	20.51	20.51	21.10	21.79	23.91	24.50	24.51	25.10	25.79