

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: P1356801

Luminaire Tested: 2ASL4-10-1-92765-UNV\_6500K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356801  
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\_6500K  
Description: 2FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

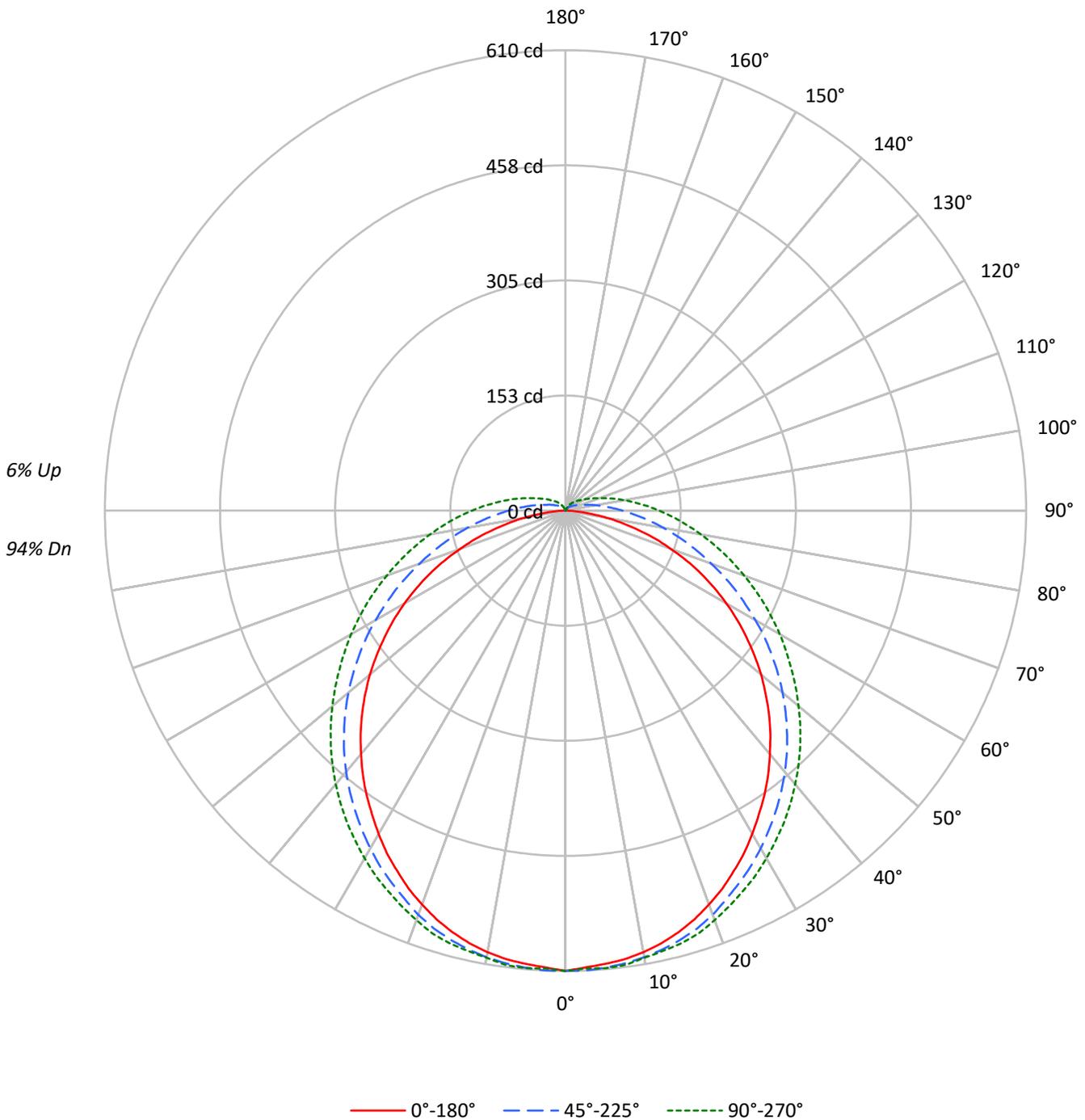
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2042.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 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				
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°	9951	9951	9951
5°	9831	9736	9701
10°	9752	9524	9447
15°	9631	9297	9249
20°	9462	9045	9003
25°	9262	8747	8738
30°	9045	8473	8491
35°	8827	8193	8243
40°	8586	7911	7987
45°	8350	7605	7727
50°	8076	7285	7452
55°	7739	6927	7179
60°	7366	6550	6938
65°	6893	6155	6699
70°	6181	5738	6463
75°	5269	5361	6286
80°	4045	5025	6175
85°	2174	4771	6216

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8350 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	2.8
10°-20°	165.8	8.1
20°-30°	250.7	12.3
30°-40°	303.0	14.8
40°-50°	318.6	15.6
50°-60°	296.8	14.5
60°-70°	243.8	11.9
70°-80°	173.1	8.5
80°-90°	104.3	5.1
90°-100°	58.4	2.9
100°-110°	32.4	1.6
110°-120°	18.0	0.9
120°-130°	10.4	0.5
130°-140°	5.7	0.3
140°-150°	2.5	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	474.2	23.2
0°-40°	777.3	38.1
0°-60°	1392.7	68.2
0°-90°	1913.9	93.7
90°-120°	108.9	5.3
90°-150°	127.5	6.2
90°-180°	128.0	6.3
0°-180°	2042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	603	608	608	607	608	57
15°	578	586	588	591	593	163
25°	527	537	544	552	556	243
35°	460	471	486	498	504	287
45°	381	395	415	432	440	294
55°	292	309	333	355	365	262
65°	199	217	248	277	290	196
75°	100	126	167	202	216	107
85°	19	54	101	138	152	23
90°	0	32	75	110	124	1
95°	0	19	55	87	99	0
105°	0	7	29	52	62	0
115°	0	3	18	32	38	0
125°	0	2	11	21	24	0
135°	0	1	7	13	17	0
145°	1	0	3	8	10	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°	609.9	609.9	609.9	609.9	609.9
2.5°	605.8	611.3	609.9	607.2	607.2
5°	603.0	608.5	607.9	607.2	608.5
7.5°	599.6	605.1	605.1	605.8	607.2
10°	594.1	601.0	601.0	601.0	601.6
12.5°	587.2	594.1	595.4	596.1	597.5
15°	578.2	585.8	588.5	591.3	593.4
17.5°	567.8	575.4	580.3	583.7	587.2
20°	555.4	563.7	569.9	574.1	577.5
22.5°	542.3	550.6	556.8	563.0	567.2
25°	527.1	536.8	544.4	552.0	556.1
27.5°	512.0	521.6	531.3	540.2	545.1
30°	494.7	505.7	516.8	527.1	532.0
32.5°	476.8	488.5	501.6	512.6	518.2
35°	459.5	471.2	485.7	498.2	504.4
37.5°	440.9	452.6	469.2	483.0	489.2
40°	420.9	434.0	451.9	466.4	473.3
42.5°	401.6	414.7	434.0	449.9	456.8
45°	380.9	394.7	414.7	431.9	439.5
47.5°	359.5	374.0	395.3	413.3	421.6
50°	338.1	353.3	375.3	394.7	402.9
52.5°	315.3	331.2	354.6	375.3	384.3
55°	292.5	309.1	333.3	355.3	365.0
57.5°	269.8	286.3	312.6	336.0	346.4
60°	246.3	263.6	290.5	316.0	327.7
62.5°	222.2	240.1	268.4	296.0	308.4
65°	198.7	216.6	247.7	276.7	289.8
67.5°	173.9	193.2	226.3	256.7	270.5
70°	148.3	170.4	205.6	238.0	251.8
72.5°	125.6	148.3	186.3	219.4	233.9
75°	100.0	125.6	167.0	201.5	216.0
77.5°	78.0	105.6	149.0	184.2	198.7
80°	55.9	86.2	131.8	167.7	182.2
82.5°	35.9	69.0	115.9	152.5	166.3
85°	18.6	53.8	100.7	138.0	151.8
87.5°	5.5	41.4	86.9	123.5	137.3
90°	0.0	31.7	75.2	110.4	123.5
92.5°	0.0	24.1	64.9	98.7	111.8
95°	0.0	18.6	55.2	86.9	99.4
97.5°	0.0	14.5	47.6	76.6	89.0
100°	0.0	11.7	40.7	67.6	79.3
102.5°	0.0	9.7	35.2	60.0	70.4
105°	0.0	6.9	29.0	52.4	62.1
107.5°	0.0	4.8	25.5	46.2	54.5
110°	0.0	4.1	22.8	40.0	48.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.4	20.0	35.9	42.8
115°	0.0	3.4	17.9	31.7	37.9
117.5°	0.0	2.8	15.2	28.3	33.8
120°	0.0	2.8	13.8	25.5	30.4
122.5°	0.0	2.1	12.4	22.8	27.6
125°	0.0	2.1	11.0	20.7	24.1
127.5°	0.0	1.4	9.7	18.6	22.1
130°	0.0	1.4	9.0	16.6	20.0
132.5°	0.0	0.7	8.3	15.2	17.9
135°	0.0	0.7	6.9	13.1	16.6
137.5°	0.0	0.0	6.2	11.7	14.5
140°	0.0	0.0	4.8	10.3	13.1
142.5°	0.7	0.0	4.1	9.0	11.0
145°	0.7	0.0	2.8	7.6	9.7
147.5°	0.7	0.7	2.1	6.2	7.6
150°	0.7	0.7	1.4	4.1	6.2
152.5°	0.7	0.7	0.7	2.8	4.1
155°	0.7	0.7	0.0	2.1	2.8
157.5°	0.7	0.7	0.0	0.7	1.4
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	17.36	18.91	17.82	19.35	19.82	19.26	20.81	19.72	21.25	21.72
	3H	18.85	20.26	19.32	20.72	21.23	21.63	23.05	22.10	23.50	24.01
	4H	19.33	20.67	19.82	21.14	21.66	22.77	24.11	23.26	24.58	25.10
	6H	19.61	20.85	20.11	21.34	21.88	23.93	25.18	24.43	25.66	26.20
	8H	19.66	20.85	20.18	21.36	21.91	24.51	25.71	25.03	26.22	26.76
	12H	19.67	20.82	20.20	21.32	21.89	25.14	26.28	25.66	26.78	27.36
4H	2H	18.21	19.55	18.70	20.02	20.54	19.70	21.04	20.19	21.51	22.03
	3H	19.94	21.08	20.44	21.59	22.14	22.29	23.43	22.80	23.95	24.49
	4H	20.53	21.58	21.06	22.10	22.68	23.60	24.64	24.12	25.17	25.75
	6H	20.93	21.85	21.48	22.41	23.00	24.95	25.87	25.49	26.42	27.01
	8H	21.03	21.89	21.58	22.44	23.05	25.64	26.50	26.19	27.05	27.66
	12H	21.07	21.86	21.64	22.44	23.05	26.38	27.17	26.96	27.75	28.36
8H	4H	21.17	22.03	21.72	22.59	23.19	23.81	24.68	24.37	25.23	25.84
	6H	21.74	22.47	22.32	23.06	23.67	25.33	26.07	25.91	26.66	27.27
	8H	21.91	22.58	22.51	23.18	23.80	26.16	26.82	26.75	27.43	28.05
	12H	22.02	22.61	22.62	23.21	23.90	27.09	27.68	27.68	28.27	28.96
12H	4H	21.34	22.13	21.91	22.71	23.32	23.82	24.61	24.40	25.19	25.80
	6H	22.00	22.66	22.59	23.27	23.89	25.37	26.03	25.96	26.64	27.26
	8H	22.27	22.86	22.87	23.45	24.14	26.26	26.85	26.86	27.45	28.14