

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: P1357247

Luminaire Tested: 4ASL4-5-1-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357247  
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: 4ASL4-5-1-92765-UNV\_3000K  
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

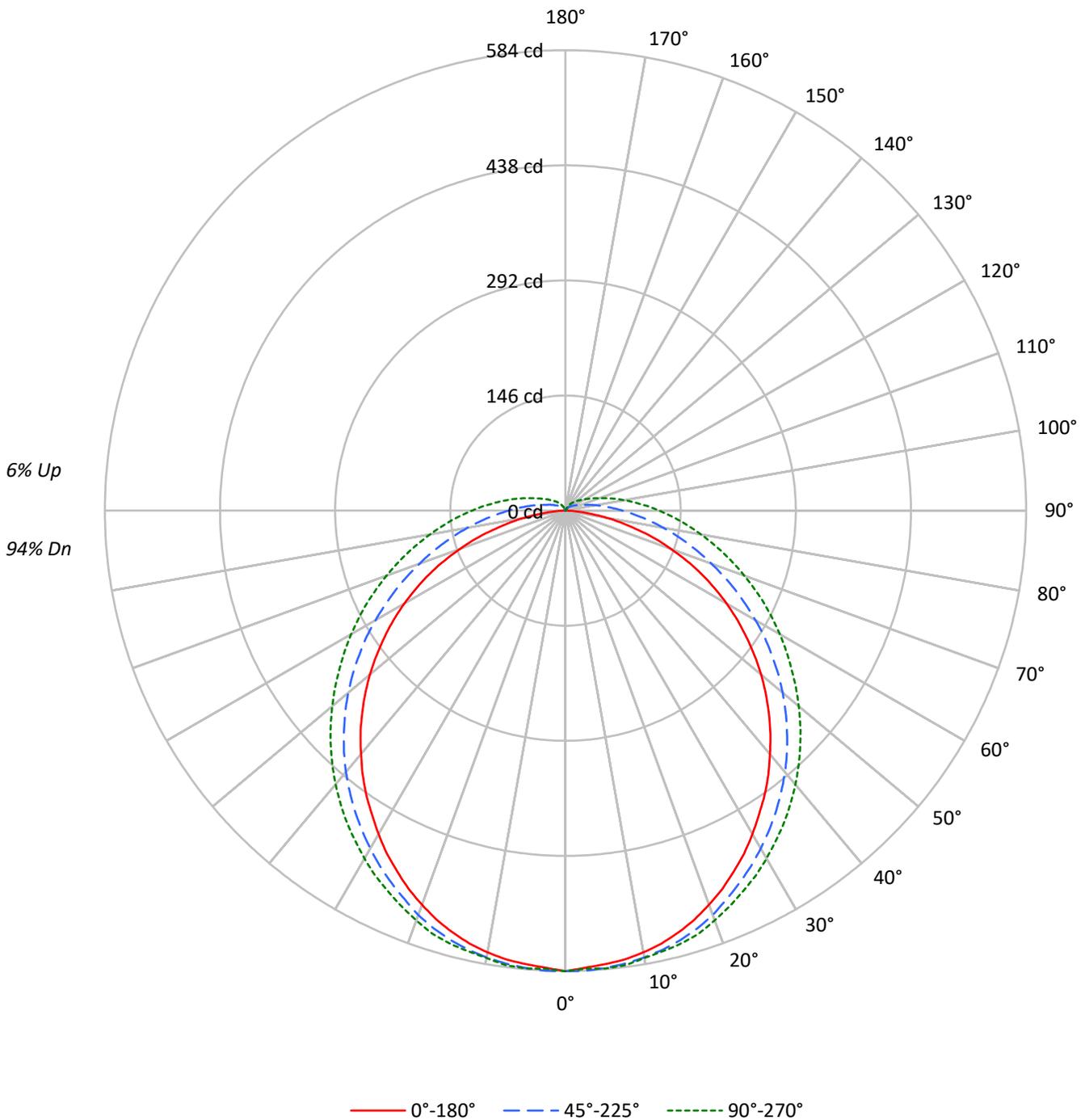
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1956.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 17.1  
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°	4741	4741	4741
5°	4695	4646	4622
10°	4667	4551	4501
15°	4620	4451	4406
20°	4551	4336	4290
25°	4466	4201	4163
30°	4375	4075	4045
35°	4283	3948	3927
40°	4180	3819	3805
45°	4080	3678	3681
50°	3964	3531	3551
55°	3822	3365	3420
60°	3663	3192	3306
65°	3460	3011	3192
70°	3145	2818	3079
75°	2736	2647	2995
80°	2177	2501	2942
85°	1276	2404	2961

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4080 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	2.8
10°-20°	158.8	8.1
20°-30°	240.1	12.3
30°-40°	290.3	14.8
40°-50°	305.2	15.6
50°-60°	284.3	14.5
60°-70°	233.6	11.9
70°-80°	165.8	8.5
80°-90°	100.0	5.1
90°-100°	56.0	2.9
100°-110°	31.0	1.6
110°-120°	17.3	0.9
120°-130°	10.0	0.5
130°-140°	5.4	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°	454.3	23.2
0°-40°	744.5	38.1
0°-60°	1334.0	68.2
0°-90°	1833.3	93.7
90°-120°	104.3	5.3
90°-150°	122.1	6.2
90°-180°	123.0	6.3
0°-180°	1956.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	578	583	582	582	583	55
15°	554	561	564	566	568	156
25°	505	514	522	529	533	233
35°	440	451	465	477	483	275
45°	365	378	397	414	421	281
55°	280	296	319	340	350	251
65°	190	208	237	265	278	188
75°	96	120	160	193	207	102
85°	18	52	96	132	145	22
90°	0	30	72	106	118	1
95°	0	18	53	83	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°	584.2	584.2	584.2	584.2	584.2
2.5°	580.3	585.6	584.2	581.6	581.6
5°	577.6	582.9	582.3	581.6	582.9
7.5°	574.3	579.6	579.6	580.3	581.6
10°	569.0	575.6	575.6	575.6	576.3
12.5°	562.4	569.0	570.4	571.0	572.3
15°	553.8	561.1	563.8	566.4	568.4
17.5°	543.9	551.2	555.8	559.1	562.4
20°	532.0	540.0	545.9	549.9	553.2
22.5°	519.5	527.4	533.4	539.3	543.3
25°	504.9	514.2	521.5	528.7	532.7
27.5°	490.4	499.6	508.9	517.5	522.1
30°	473.9	484.4	495.0	504.9	509.6
32.5°	456.7	467.9	480.5	491.1	496.3
35°	440.2	451.4	465.3	477.2	483.1
37.5°	422.3	433.6	449.4	462.6	468.6
40°	403.2	415.7	432.9	446.8	453.4
42.5°	384.6	397.2	415.7	430.9	437.5
45°	364.8	378.0	397.2	413.7	421.0
47.5°	344.3	358.2	378.7	395.9	403.8
50°	323.8	338.4	359.5	378.0	386.0
52.5°	302.0	317.2	339.7	359.5	368.1
55°	280.2	296.1	319.2	340.4	349.6
57.5°	258.4	274.3	299.4	321.9	331.8
60°	235.9	252.5	278.2	302.7	313.9
62.5°	212.8	230.0	257.1	283.5	295.4
65°	190.3	207.5	237.3	265.0	277.6
67.5°	166.5	185.1	216.8	245.9	259.1
70°	142.1	163.2	196.9	228.0	241.2
72.5°	120.3	142.1	178.4	210.2	224.0
75°	95.8	120.3	159.9	193.0	206.9
77.5°	74.7	101.1	142.8	176.5	190.3
80°	53.5	82.6	126.2	160.6	174.5
82.5°	34.4	66.1	111.0	146.1	159.3
85°	17.8	51.6	96.5	132.2	145.4
87.5°	5.3	39.7	83.3	118.3	131.5
90°	0.0	30.4	72.0	105.7	118.3
92.5°	0.0	23.1	62.1	94.5	107.1
95°	0.0	17.8	52.9	83.3	95.2
97.5°	0.0	13.9	45.6	73.4	85.3
100°	0.0	11.2	39.0	64.8	76.0
102.5°	0.0	9.3	33.7	57.5	67.4
105°	0.0	6.6	27.8	50.2	59.5
107.5°	0.0	4.6	24.5	44.3	52.2
110°	0.0	4.0	21.8	38.3	46.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.3	19.2	34.4	41.0
115°	0.0	3.3	17.2	30.4	36.3
117.5°	0.0	2.6	14.5	27.1	32.4
120°	0.0	2.6	13.2	24.5	29.1
122.5°	0.0	2.0	11.9	21.8	26.4
125°	0.0	2.0	10.6	19.8	23.1
127.5°	0.0	1.3	9.3	17.8	21.1
130°	0.0	1.3	8.6	15.9	19.2
132.5°	0.0	0.7	7.9	14.5	17.2
135°	0.0	0.7	6.6	12.6	15.9
137.5°	0.0	0.0	5.9	11.2	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	2.6	7.3	9.3
147.5°	0.7	0.7	2.0	5.9	7.3
150°	0.7	0.7	1.3	4.0	5.9
152.5°	0.7	0.7	0.7	2.6	4.0
155°	0.7	0.7	0.0	2.0	2.6
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	14.81	16.36	15.27	16.81	17.27	16.79	18.35	17.25	18.79	19.26
	3H	16.30	17.72	16.78	18.17	18.68	19.20	20.62	19.68	21.07	21.58
	4H	16.78	18.12	17.27	18.59	19.11	20.37	21.71	20.86	22.18	22.70
	6H	17.06	18.30	17.56	18.79	19.33	21.58	22.83	22.08	23.31	23.85
	8H	17.11	18.30	17.63	18.81	19.36	22.20	23.39	22.72	23.90	24.45
	12H	17.12	18.27	17.65	18.77	19.35	22.88	24.03	23.41	24.53	25.11
4H	2H	15.68	17.02	16.17	17.49	18.01	17.23	18.57	17.72	19.04	19.56
	3H	17.41	18.55	17.91	19.06	19.61	19.86	21.00	20.37	21.52	22.06
	4H	18.00	19.05	18.53	19.57	20.15	21.20	22.24	21.72	22.77	23.34
	6H	18.40	19.32	18.95	19.87	20.47	22.59	23.51	23.14	24.07	24.66
	8H	18.49	19.36	19.04	19.91	20.52	23.32	24.18	23.87	24.74	25.34
	12H	18.54	19.32	19.11	19.90	20.51	24.12	24.91	24.70	25.49	26.10
8H	4H	18.65	19.52	19.21	20.07	20.68	21.41	22.28	21.96	22.83	23.43
	6H	19.22	19.96	19.81	20.55	21.16	22.97	23.71	23.56	24.30	24.91
	8H	19.40	20.06	20.00	20.67	21.29	23.84	24.50	24.43	25.10	25.73
	12H	19.51	20.10	20.11	20.69	21.38	24.82	25.42	25.42	26.01	26.70
12H	4H	18.84	19.62	19.41	20.20	20.81	21.42	22.20	21.99	22.78	23.39
	6H	19.50	20.16	20.09	20.77	21.39	23.01	23.67	23.60	24.28	24.90
	8H	19.77	20.36	20.36	20.95	21.64	23.94	24.53	24.54	25.12	25.81