

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: P1356945

Luminaire Tested: 2ASL4-5-1-92765-UNV\_6500K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356945  
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\_6500K  
Description: 2FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

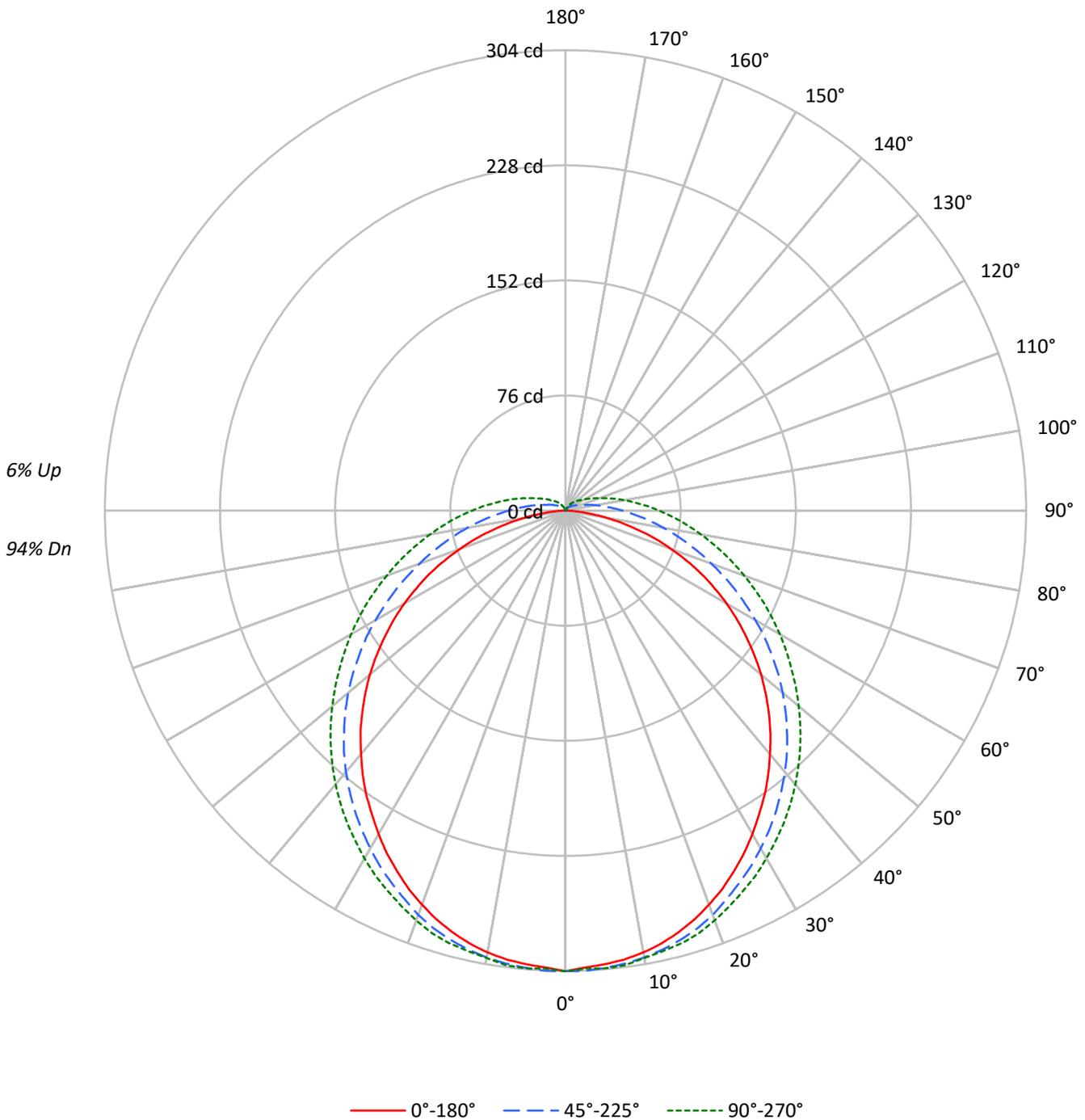
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1017.9 lumens  
Efficiency: N/A  
Efficacy: 118.4 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): 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°	4962	4962	4962
5°	4901	4853	4837
10°	4862	4748	4709
15°	4800	4635	4610
20°	4717	4509	4488
25°	4618	4361	4356
30°	4509	4224	4233
35°	4401	4086	4108
40°	4280	3944	3982
45°	4163	3791	3852
50°	4025	3632	3716
55°	3857	3452	3580
60°	3672	3265	3460
65°	3438	3069	3340
70°	3084	2861	3221
75°	2629	2671	3134
80°	2019	2505	3077
85°	1087	2378	3100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4163 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	2.8
10°-20°	82.7	8.1
20°-30°	125.0	12.3
30°-40°	151.1	14.8
40°-50°	158.8	15.6
50°-60°	147.9	14.5
60°-70°	121.6	11.9
70°-80°	86.3	8.5
80°-90°	52.0	5.1
90°-100°	29.1	2.9
100°-110°	16.1	1.6
110°-120°	9.0	0.9
120°-130°	5.2	0.5
130°-140°	2.8	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
0°-30°	236.4	23.2
0°-40°	387.5	38.1
0°-60°	694.3	68.2
0°-90°	954.1	93.7
90°-120°	54.3	5.3
90°-150°	63.5	6.2
90°-180°	64.0	6.3
0°-180°	1017.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	301	303	303	303	303	29
15°	288	292	293	295	296	81
25°	263	268	271	275	277	121
35°	229	235	242	248	251	143
45°	190	197	207	215	219	146
55°	146	154	166	177	182	130
65°	99	108	124	138	144	98
75°	50	63	83	100	108	53
85°	9	27	50	69	76	12
90°	0	16	38	55	62	0
95°	0	9	28	43	50	0
105°	0	3	14	26	31	0
115°	0	2	9	16	19	0
125°	0	1	6	10	12	0
135°	0	0	3	6	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°	304.1	304.1	304.1	304.1	304.1
2.5°	302.0	304.8	304.1	302.7	302.7
5°	300.6	303.4	303.0	302.7	303.4
7.5°	298.9	301.7	301.7	302.0	302.7
10°	296.2	299.6	299.6	299.6	299.9
12.5°	292.7	296.2	296.8	297.2	297.9
15°	288.2	292.0	293.4	294.8	295.8
17.5°	283.1	286.9	289.3	291.0	292.7
20°	276.9	281.0	284.1	286.2	287.9
22.5°	270.4	274.5	277.6	280.7	282.7
25°	262.8	267.6	271.4	275.2	277.2
27.5°	255.2	260.0	264.9	269.3	271.7
30°	246.6	252.1	257.6	262.8	265.2
32.5°	237.7	243.5	250.1	255.6	258.3
35°	229.1	234.9	242.2	248.3	251.4
37.5°	219.8	225.6	233.9	240.8	243.9
40°	209.8	216.4	225.3	232.5	236.0
42.5°	200.2	206.7	216.4	224.3	227.7
45°	189.9	196.7	206.7	215.3	219.1
47.5°	179.2	186.4	197.1	206.0	210.2
50°	168.5	176.1	187.1	196.7	200.9
52.5°	157.2	165.1	176.8	187.1	191.6
55°	145.8	154.1	166.1	177.1	182.0
57.5°	134.5	142.7	155.8	167.5	172.7
60°	122.8	131.4	144.8	157.5	163.4
62.5°	110.8	119.7	133.8	147.6	153.8
65°	99.1	108.0	123.5	137.9	144.5
67.5°	86.7	96.3	112.8	128.0	134.8
70°	74.0	85.0	102.5	118.7	125.5
72.5°	62.6	74.0	92.9	109.4	116.6
75°	49.9	62.6	83.2	100.4	107.7
77.5°	38.9	52.6	74.3	91.8	99.1
80°	27.9	43.0	65.7	83.6	90.8
82.5°	17.9	34.4	57.8	76.0	82.9
85°	9.3	26.8	50.2	68.8	75.7
87.5°	2.8	20.6	43.3	61.6	68.4
90°	0.0	15.8	37.5	55.0	61.6
92.5°	0.0	12.0	32.3	49.2	55.7
95°	0.0	9.3	27.5	43.3	49.5
97.5°	0.0	7.2	23.7	38.2	44.4
100°	0.0	5.8	20.3	33.7	39.6
102.5°	0.0	4.8	17.5	29.9	35.1
105°	0.0	3.4	14.4	26.1	31.0
107.5°	0.0	2.4	12.7	23.0	27.2
110°	0.0	2.1	11.4	20.0	24.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.7	10.0	17.9	21.3
115°	0.0	1.7	8.9	15.8	18.9
117.5°	0.0	1.4	7.6	14.1	16.9
120°	0.0	1.4	6.9	12.7	15.1
122.5°	0.0	1.0	6.2	11.4	13.8
125°	0.0	1.0	5.5	10.3	12.0
127.5°	0.0	0.7	4.8	9.3	11.0
130°	0.0	0.7	4.5	8.3	10.0
132.5°	0.0	0.3	4.1	7.6	8.9
135°	0.0	0.3	3.4	6.5	8.3
137.5°	0.0	0.0	3.1	5.8	7.2
140°	0.0	0.0	2.4	5.2	6.5
142.5°	0.3	0.0	2.1	4.5	5.5
145°	0.3	0.0	1.4	3.8	4.8
147.5°	0.3	0.3	1.0	3.1	3.8
150°	0.3	0.3	0.7	2.1	3.1
152.5°	0.3	0.3	0.3	1.4	2.1
155°	0.3	0.3	0.0	1.0	1.4
157.5°	0.3	0.3	0.0	0.3	0.7
160°	0.3	0.3	0.0	0.0	0.3
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	14.94	16.49	15.40	16.93	17.40	16.84	18.39	17.30	18.83	19.30
	3H	16.43	17.85	16.90	18.30	18.81	19.21	20.63	19.68	21.08	21.59
	4H	16.91	18.25	17.40	18.72	19.24	20.35	21.69	20.84	22.16	22.68
	6H	17.19	18.44	17.69	18.92	19.46	21.51	22.76	22.02	23.24	23.78
	8H	17.24	18.44	17.76	18.94	19.49	22.09	23.29	22.61	23.80	24.34
	12H	17.25	18.40	17.78	18.90	19.48	22.72	23.87	23.24	24.37	24.94
4H	2H	15.79	17.13	16.28	17.60	18.12	17.28	18.62	17.77	19.09	19.61
	3H	17.52	18.66	18.02	19.17	19.72	19.88	21.02	20.38	21.53	22.08
	4H	18.12	19.16	18.64	19.69	20.26	21.18	22.22	21.71	22.75	23.33
	6H	18.52	19.44	19.06	19.99	20.58	22.53	23.45	23.08	24.00	24.59
	8H	18.61	19.48	19.16	20.03	20.63	23.22	24.08	23.77	24.64	25.24
	12H	18.65	19.44	19.22	20.02	20.63	23.96	24.75	24.54	25.33	25.94
8H	4H	18.75	19.62	19.30	20.17	20.77	21.40	22.26	21.95	22.81	23.42
	6H	19.32	20.05	19.90	20.65	21.26	22.91	23.65	23.50	24.24	24.85
	8H	19.50	20.16	20.09	20.76	21.39	23.74	24.40	24.33	25.01	25.63
	12H	19.61	20.20	20.20	20.79	21.48	24.67	25.26	25.27	25.85	26.54
12H	4H	18.92	19.71	19.49	20.29	20.90	21.40	22.19	21.98	22.77	23.38
	6H	19.58	20.24	20.18	20.85	21.47	22.95	23.61	23.54	24.22	24.84
	8H	19.85	20.44	20.45	21.03	21.72	23.84	24.44	24.44	25.03	25.72