

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: P1356956

Luminaire Tested: 2ASL4-5HE-2-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 2ASL4-5HE-2-92765-UNV\_3000K  
Description: 2FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

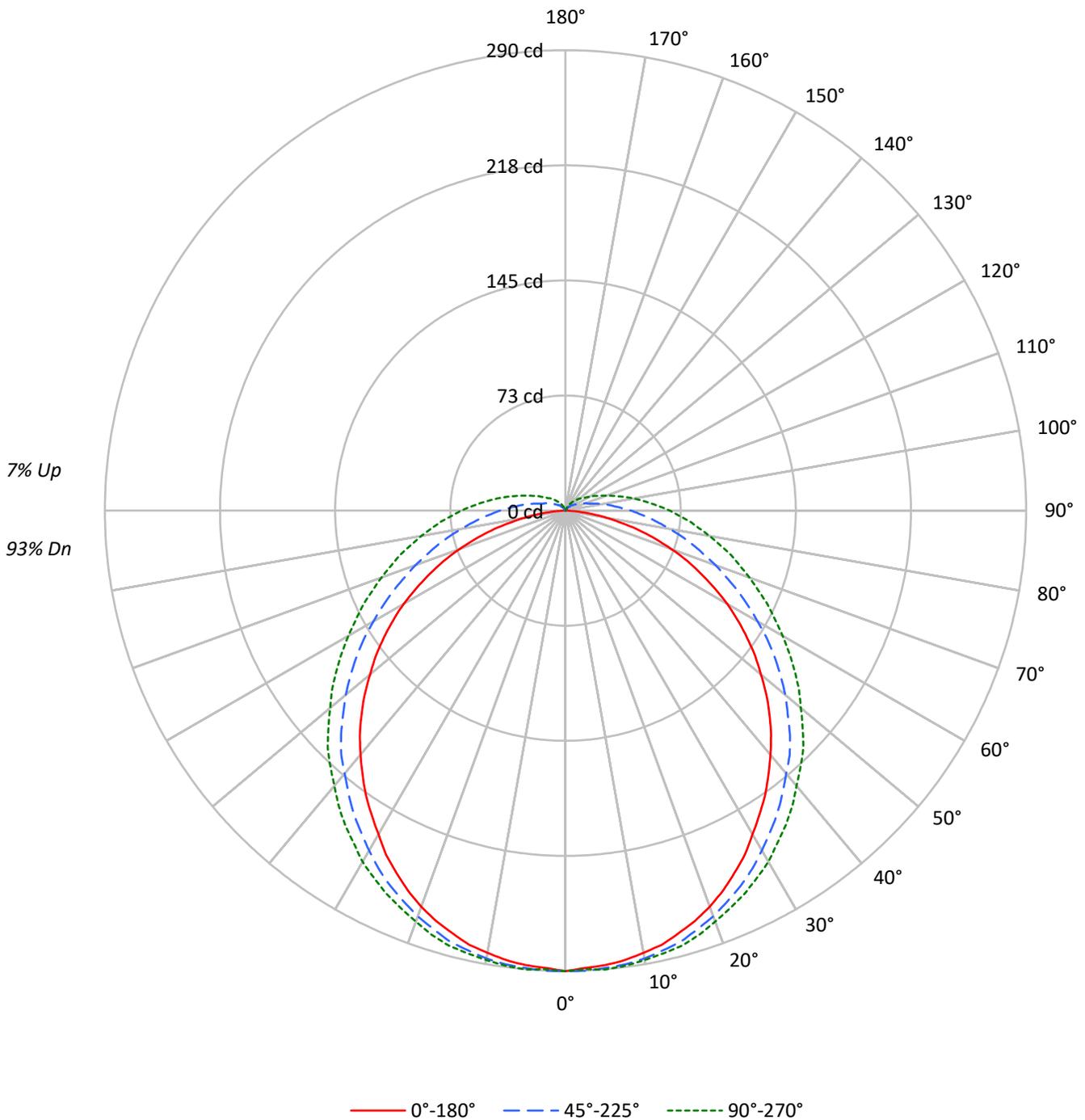
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 996.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

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

	0°	45°	90°
0°	4733	4733	4733
5°	4686	4632	4625
10°	4642	4540	4513
15°	4589	4439	4422
20°	4523	4315	4295
25°	4424	4192	4186
30°	4304	4053	4078
35°	4207	3924	3952
40°	4094	3785	3819
45°	3981	3664	3722
50°	3836	3506	3577
55°	3693	3338	3464
60°	3520	3148	3341
65°	3261	2969	3248
70°	2967	2802	3162
75°	2550	2665	3134
80°	1918	2539	3121
85°	1064	2506	3214

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3981 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	2.8
10°-20°	79.1	7.9
20°-30°	119.8	12.0
30°-40°	144.9	14.6
40°-50°	152.8	15.3
50°-60°	142.6	14.3
60°-70°	117.8	11.8
70°-80°	85.4	8.6
80°-90°	54.0	5.4
90°-100°	32.2	3.2
100°-110°	18.5	1.9
110°-120°	10.5	1.1
120°-130°	6.0	0.6
130°-140°	3.2	0.3
140°-150°	1.4	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	226.4	22.7
0°-40°	371.4	37.3
0°-60°	666.8	66.9
0°-90°	923.9	92.8
90°-120°	61.2	6.1
90°-150°	71.8	7.2
90°-180°	72.0	7.2
0°-180°	996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	290	290	290	290	290	
5°	287	290	289	289	290	27
15°	276	279	281	282	284	78
25°	252	256	261	265	266	116
35°	219	224	233	239	242	137
45°	182	189	200	208	212	140
55°	140	148	161	172	176	125
65°	94	104	120	134	140	93
75°	48	61	83	100	108	51
85°	9	28	53	71	78	11
90°	0	17	41	58	66	0
95°	0	11	31	47	54	0
105°	0	4	17	30	35	0
115°	0	2	10	18	22	0
125°	0	1	6	12	14	0
135°	0	0	4	7	9	0
145°	0	0	2	5	6	0
155°	0	0	0	1	2	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°	290.1	290.1	290.1	290.1	290.1
2.5°	288.3	291.0	290.1	289.2	289.2
5°	287.4	290.1	289.2	289.2	290.1
7.5°	285.6	288.3	288.3	288.3	289.2
10°	282.8	286.5	286.5	286.5	287.4
12.5°	280.1	282.8	283.7	284.7	285.6
15°	275.5	279.2	281.0	281.9	283.7
17.5°	271.0	273.7	276.4	279.2	280.1
20°	265.5	269.1	271.9	274.6	275.5
22.5°	259.1	262.8	266.4	269.1	271.0
25°	251.8	255.5	260.9	264.6	266.4
27.5°	244.5	248.2	254.5	259.1	260.9
30°	235.4	240.9	247.2	252.7	255.5
32.5°	227.2	232.6	239.9	246.3	248.2
35°	219.0	224.4	232.6	239.0	241.8
37.5°	209.8	216.2	224.4	231.7	234.5
40°	200.7	207.1	216.2	224.4	226.3
42.5°	191.6	198.0	208.9	216.2	219.0
45°	181.6	188.9	199.8	208.0	211.7
47.5°	171.5	178.8	189.8	198.9	202.5
50°	160.6	168.8	180.6	189.8	193.4
52.5°	150.5	158.7	170.6	180.6	185.2
55°	139.6	147.8	160.6	171.5	176.1
57.5°	128.6	136.9	150.5	162.4	167.0
60°	117.7	125.9	139.6	153.3	157.8
62.5°	105.8	115.0	129.6	143.2	148.7
65°	94.0	104.0	119.5	134.1	140.5
67.5°	83.0	93.1	109.5	125.9	131.4
70°	71.2	82.1	100.4	116.8	123.2
72.5°	59.3	71.2	91.2	108.6	115.0
75°	48.4	61.1	83.0	100.4	107.7
77.5°	36.5	52.0	74.8	93.1	99.4
80°	26.5	42.9	66.6	85.8	92.1
82.5°	17.3	34.7	59.3	78.5	84.8
85°	9.1	28.3	52.9	71.2	78.5
87.5°	2.7	21.9	46.5	64.8	71.2
90°	0.0	17.3	41.1	58.4	65.7
92.5°	0.0	13.7	35.6	52.9	59.3
95°	0.0	10.9	31.0	47.4	53.8
97.5°	0.0	9.1	27.4	42.9	48.4
100°	0.0	7.3	23.7	38.3	43.8
102.5°	0.0	5.5	20.1	33.8	39.2
105°	0.0	3.6	17.3	30.1	34.7
107.5°	0.0	2.7	14.6	26.5	31.0
110°	0.0	2.7	13.7	22.8	27.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.8	11.9	21.0	24.6
115°	0.0	1.8	10.0	18.2	21.9
117.5°	0.0	1.8	9.1	16.4	20.1
120°	0.0	1.8	8.2	14.6	17.3
122.5°	0.0	0.9	7.3	12.8	15.5
125°	0.0	0.9	6.4	11.9	13.7
127.5°	0.0	0.9	5.5	10.9	12.8
130°	0.0	0.9	5.5	10.0	11.9
132.5°	0.0	0.0	4.6	9.1	10.9
135°	0.0	0.0	3.6	7.3	9.1
137.5°	0.0	0.0	3.6	6.4	8.2
140°	0.0	0.0	2.7	6.4	7.3
142.5°	0.0	0.0	1.8	5.5	6.4
145°	0.0	0.0	1.8	4.6	5.5
147.5°	0.0	0.0	0.9	3.6	4.6
150°	0.0	0.0	0.9	2.7	3.6
152.5°	0.0	0.0	0.0	1.8	2.7
155°	0.0	0.0	0.0	0.9	1.8
157.5°	0.0	0.0	0.0	0.0	0.9
160°	0.0	0.0	0.0	0.0	0.0
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	14.68	16.22	15.16	16.68	17.17	16.66	18.20	17.13	18.66	19.15
	3H	16.19	17.59	16.67	18.06	18.59	19.07	20.48	19.56	20.95	21.48
	4H	16.67	18.00	17.18	18.49	19.03	20.26	21.58	20.76	22.07	22.61
	6H	16.95	18.18	17.46	18.68	19.24	21.48	22.71	21.99	23.21	23.77
	8H	17.00	18.19	17.53	18.71	19.28	22.10	23.28	22.63	23.81	24.37
	12H	17.01	18.15	17.55	18.67	19.27	22.76	23.90	23.30	24.42	25.02
4H	2H	15.55	16.88	16.05	17.36	17.91	17.09	18.42	17.60	18.91	19.45
	3H	17.29	18.42	17.81	18.95	19.52	19.74	20.87	20.26	21.40	21.97
	4H	17.90	18.94	18.44	19.48	20.08	21.10	22.13	21.63	22.67	23.27
	6H	18.30	19.22	18.86	19.79	20.40	22.52	23.43	23.07	24.00	24.61
	8H	18.40	19.26	18.97	19.83	20.45	23.24	24.11	23.81	24.67	25.30
	12H	18.45	19.23	19.03	19.83	20.46	24.04	24.82	24.62	25.41	26.04
8H	4H	18.58	19.44	19.14	20.00	20.63	21.32	22.18	21.88	22.75	23.37
	6H	19.16	19.89	19.76	20.50	21.13	22.92	23.65	23.51	24.26	24.89
	8H	19.35	20.01	19.96	20.63	21.27	23.79	24.45	24.40	25.07	25.71
	12H	19.47	20.06	20.08	20.67	21.38	24.77	25.36	25.38	25.97	26.68
12H	4H	18.77	19.55	19.35	20.15	20.78	21.33	22.11	21.91	22.71	23.34
	6H	19.45	20.12	20.06	20.73	21.38	22.96	23.62	23.56	24.24	24.88
	8H	19.74	20.33	20.35	20.94	21.65	23.90	24.49	24.51	25.10	25.81