

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: P1357261

Luminaire Tested: 4ASL4-5HE-2-92765-UNV\_2700K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357261  
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: 4ASL4-5HE-2-92765-UNV\_2700K  
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

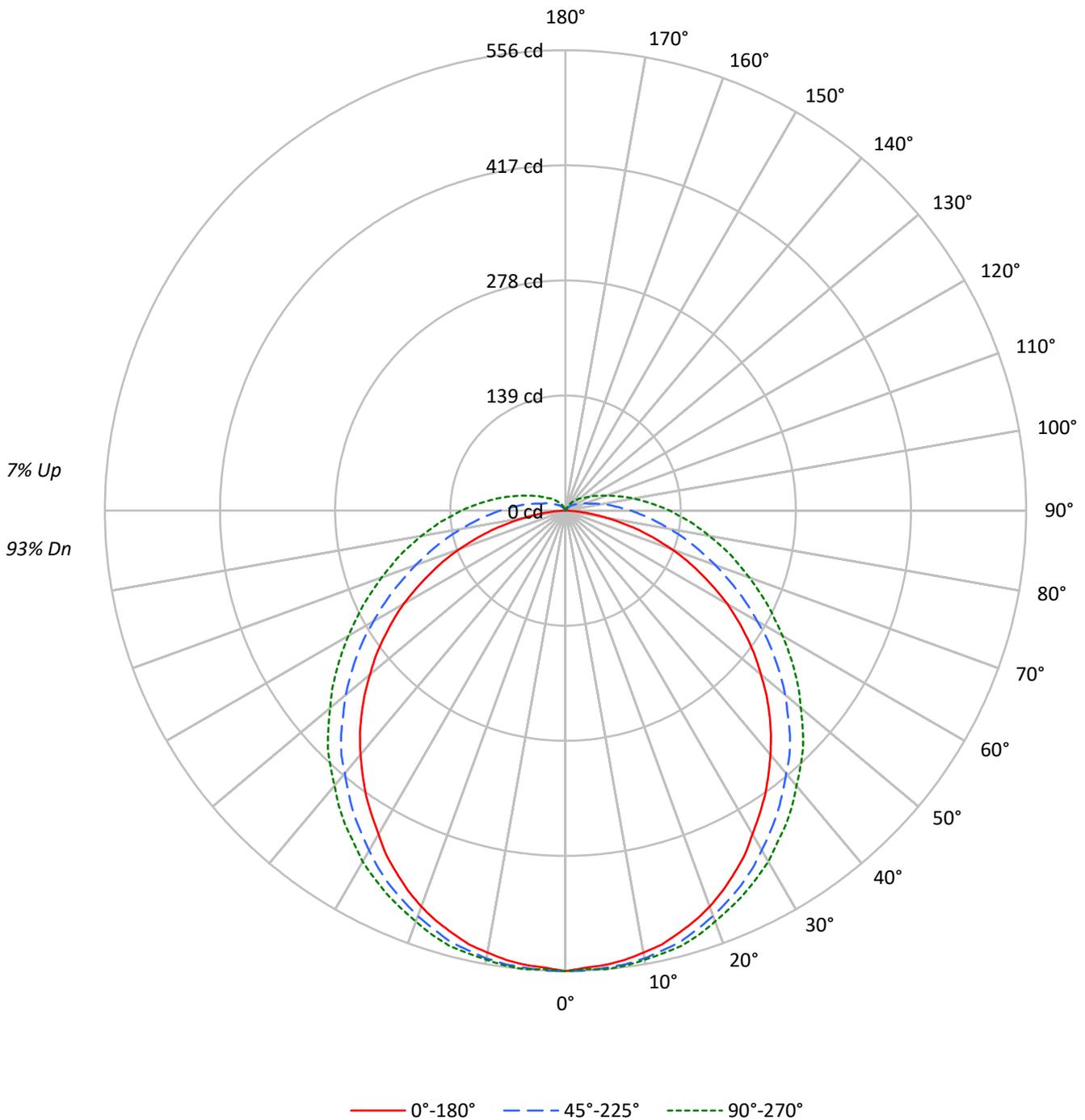
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1909.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4  
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	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°	4513	4513	4513
5°	4477	4423	4410
10°	4447	4342	4302
15°	4406	4252	4216
20°	4353	4139	4095
25°	4269	4028	3991
30°	4165	3901	3887
35°	4083	3783	3767
40°	3988	3655	3640
45°	3892	3546	3548
50°	3768	3400	3410
55°	3648	3245	3302
60°	3503	3069	3186
65°	3275	2907	3096
70°	3019	2753	3014
75°	2648	2634	2986
80°	2063	2531	2977
85°	1254	2526	3063

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3892 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.7	2.8
10°-20°	151.6	7.9
20°-30°	229.7	12.0
30°-40°	277.8	14.6
40°-50°	292.9	15.3
50°-60°	273.3	14.3
60°-70°	225.7	11.8
70°-80°	163.7	8.6
80°-90°	103.4	5.4
90°-100°	61.7	3.2
100°-110°	35.4	1.9
110°-120°	20.1	1.1
120°-130°	11.5	0.6
130°-140°	6.2	0.3
140°-150°	2.7	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	434.0	22.7
0°-40°	711.8	37.3
0°-60°	1278.0	66.9
0°-90°	1770.9	92.8
90°-120°	117.2	6.1
90°-150°	137.6	7.2
90°-180°	138.0	7.2
0°-180°	1909.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	551	556	554	554	556	52
15°	528	535	539	540	544	149
25°	483	490	500	507	511	222
35°	420	430	446	458	463	262
45°	348	362	383	399	406	268
55°	268	283	308	329	338	239
65°	180	199	229	257	269	179
75°	93	117	159	192	206	97
85°	18	54	101	136	150	21
90°	0	33	79	112	126	1
95°	0	21	60	91	103	0
105°	0	7	33	58	66	0
115°	0	4	19	35	42	0
125°	0	2	12	23	26	0
135°	0	0	7	14	18	0
145°	0	0	4	9	10	0
155°	0	0	0	2	4	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°	556.1	556.1	556.1	556.1	556.1
2.5°	552.6	557.8	556.1	554.3	554.3
5°	550.8	556.1	554.3	554.3	556.1
7.5°	547.3	552.6	552.6	552.6	554.3
10°	542.1	549.1	549.1	549.1	550.8
12.5°	536.8	542.1	543.8	545.6	547.3
15°	528.1	535.1	538.6	540.3	543.8
17.5°	519.4	524.6	529.8	535.1	536.8
20°	508.9	515.9	521.1	526.3	528.1
22.5°	496.6	503.6	510.6	515.9	519.4
25°	482.6	489.6	500.1	507.1	510.6
27.5°	468.6	475.6	487.9	496.6	500.1
30°	451.2	461.6	473.9	484.4	489.6
32.5°	435.4	445.9	459.9	472.1	475.6
35°	419.7	430.2	445.9	458.1	463.4
37.5°	402.2	414.4	430.2	444.2	449.4
40°	384.7	396.9	414.4	430.2	433.7
42.5°	367.2	379.5	400.4	414.4	419.7
45°	348.0	362.0	383.0	398.7	405.7
47.5°	328.7	342.7	363.7	381.2	388.2
50°	307.8	323.5	346.2	363.7	370.7
52.5°	288.5	304.3	327.0	346.2	355.0
55°	267.5	283.3	307.8	328.7	337.5
57.5°	246.6	262.3	288.5	311.3	320.0
60°	225.6	241.3	267.5	293.8	302.5
62.5°	202.8	220.3	248.3	274.5	285.0
65°	180.1	199.3	229.1	257.1	269.3
67.5°	159.1	178.4	209.8	241.3	251.8
70°	136.4	157.4	192.4	223.8	236.1
72.5°	113.7	136.4	174.9	208.1	220.3
75°	92.7	117.2	159.1	192.4	206.3
77.5°	69.9	99.7	143.4	178.4	190.6
80°	50.7	82.2	127.7	164.4	176.6
82.5°	33.2	66.4	113.7	150.4	162.6
85°	17.5	54.2	101.4	136.4	150.4
87.5°	5.2	42.0	89.2	124.2	136.4
90°	0.0	33.2	78.7	111.9	125.9
92.5°	0.0	26.2	68.2	101.4	113.7
95°	0.0	21.0	59.5	90.9	103.2
97.5°	0.0	17.5	52.5	82.2	92.7
100°	0.0	14.0	45.5	73.4	83.9
102.5°	0.0	10.5	38.5	64.7	75.2
105°	0.0	7.0	33.2	57.7	66.4
107.5°	0.0	5.2	28.0	50.7	59.5
110°	0.0	5.2	26.2	43.7	52.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.5	22.7	40.2	47.2
115°	0.0	3.5	19.2	35.0	42.0
117.5°	0.0	3.5	17.5	31.5	38.5
120°	0.0	3.5	15.7	28.0	33.2
122.5°	0.0	1.7	14.0	24.5	29.7
125°	0.0	1.7	12.2	22.7	26.2
127.5°	0.0	1.7	10.5	21.0	24.5
130°	0.0	1.7	10.5	19.2	22.7
132.5°	0.0	0.0	8.7	17.5	21.0
135°	0.0	0.0	7.0	14.0	17.5
137.5°	0.0	0.0	7.0	12.2	15.7
140°	0.0	0.0	5.2	12.2	14.0
142.5°	0.0	0.0	3.5	10.5	12.2
145°	0.0	0.0	3.5	8.7	10.5
147.5°	0.0	0.0	1.7	7.0	8.7
150°	0.0	0.0	1.7	5.2	7.0
152.5°	0.0	0.0	0.0	3.5	5.2
155°	0.0	0.0	0.0	1.7	3.5
157.5°	0.0	0.0	0.0	0.0	1.7
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	14.55	16.08	15.02	16.54	17.03	16.61	18.14	17.08	18.60	19.09
	3H	16.05	17.45	16.54	17.92	18.45	19.06	20.46	19.54	20.93	21.46
	4H	16.53	17.86	17.04	18.35	18.89	20.27	21.60	20.77	22.08	22.63
	6H	16.81	18.04	17.32	18.54	19.10	21.54	22.78	22.06	23.28	23.84
	8H	16.86	18.04	17.39	18.57	19.13	22.20	23.38	22.73	23.91	24.47
	12H	16.87	18.01	17.41	18.53	19.13	22.93	24.06	23.46	24.58	25.18
4H	2H	15.43	16.76	15.93	17.24	17.79	17.04	18.37	17.55	18.85	19.40
	3H	17.17	18.30	17.69	18.83	19.40	19.72	20.85	20.24	21.38	21.95
	4H	17.78	18.82	18.32	19.36	19.96	21.10	22.14	21.64	22.68	23.28
	6H	18.18	19.10	18.74	19.66	20.28	22.57	23.49	23.13	24.05	24.67
	8H	18.28	19.14	18.84	19.71	20.33	23.34	24.20	23.90	24.77	25.39
	12H	18.33	19.11	18.91	19.70	20.33	24.19	24.98	24.78	25.57	26.20
8H	4H	18.47	19.34	19.04	19.90	20.53	21.32	22.19	21.89	22.75	23.38
	6H	19.06	19.79	19.66	20.40	21.03	22.97	23.70	23.56	24.31	24.94
	8H	19.25	19.91	19.86	20.53	21.17	23.88	24.54	24.49	25.16	25.80
	12H	19.37	19.96	19.98	20.57	21.28	24.92	25.51	25.53	26.12	26.83
12H	4H	18.68	19.46	19.26	20.05	20.68	21.33	22.12	21.92	22.71	23.34
	6H	19.36	20.03	19.97	20.64	21.29	23.01	23.67	23.61	24.29	24.93
	8H	19.65	20.24	20.26	20.85	21.56	23.99	24.58	24.60	25.18	25.89