

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: P1357572

Luminaire Tested: 8ASL4-5HE-2-92765-UNV\_6500K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357572  
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: 8ASL4-5HE-2-92765-UNV\_6500K  
Description: 8FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

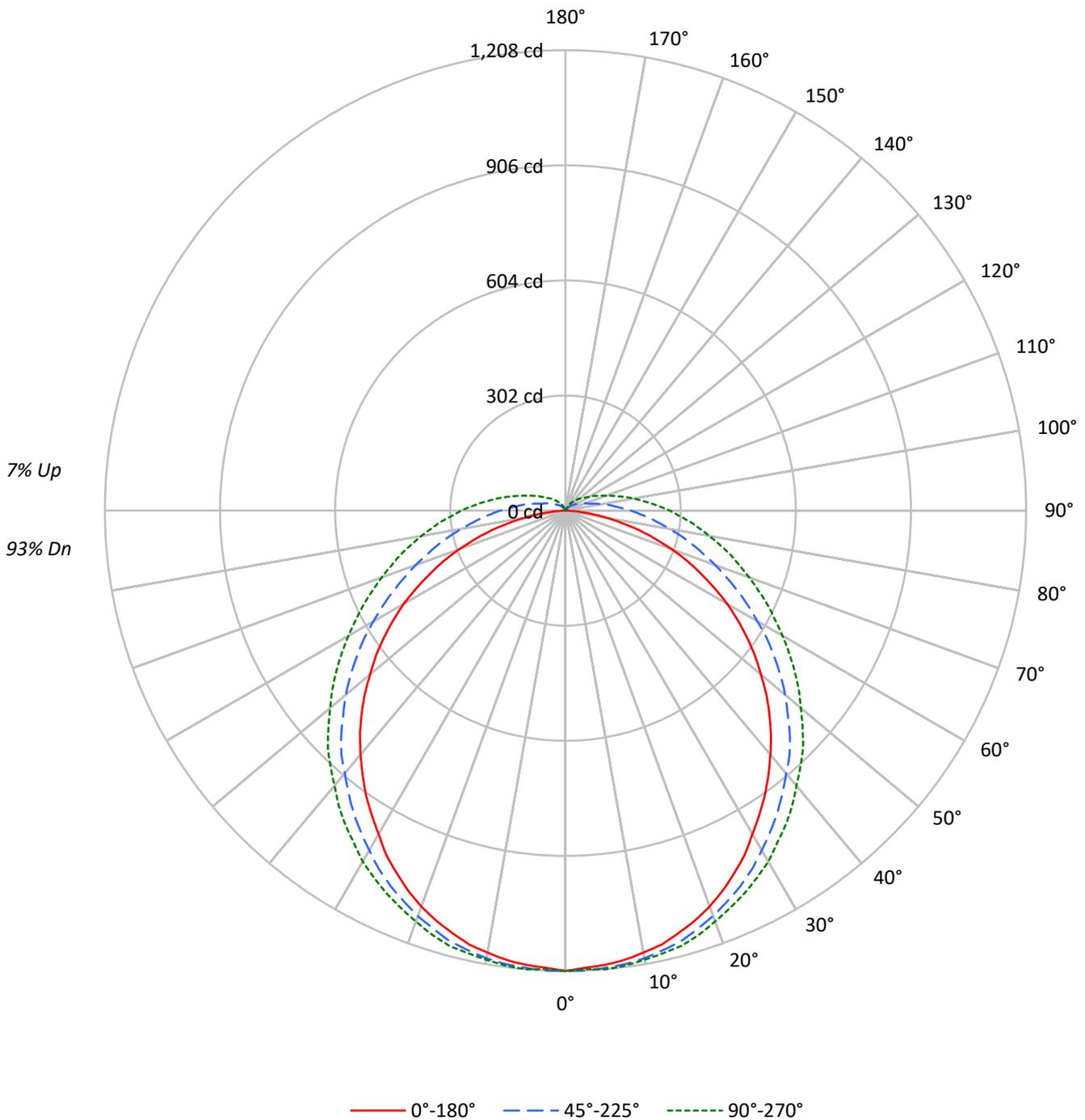
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4147.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 34.2  
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°	4889	4889	4889
5°	4856	4795	4777
10°	4828	4711	4661
15°	4790	4617	4567
20°	4738	4498	4436
25°	4653	4381	4323
30°	4546	4246	4211
35°	4463	4122	4080
40°	4367	3986	3943
45°	4271	3870	3843
50°	4145	3716	3694
55°	4026	3550	3576
60°	3878	3363	3451
65°	3645	3190	3354
70°	3385	3029	3265
75°	3001	2908	3235
80°	2391	2803	3226
85°	1535	2817	3318

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4271 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	2.8
10°-20°	329.3	7.9
20°-30°	499.0	12.0
30°-40°	603.5	14.6
40°-50°	636.2	15.3
50°-60°	593.8	14.3
60°-70°	490.2	11.8
70°-80°	355.6	8.6
80°-90°	224.7	5.4
90°-100°	134.1	3.2
100°-110°	76.9	1.9
110°-120°	43.7	1.1
120°-130°	24.9	0.6
130°-140°	13.5	0.3
140°-150°	5.9	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	942.8	22.7
0°-40°	1546.3	37.3
0°-60°	2776.4	66.9
0°-90°	3847.0	92.8
90°-120°	254.7	6.1
90°-150°	299.0	7.2
90°-180°	300.0	7.2
0°-180°	4147.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1197	1208	1204	1204	1208	114
15°	1147	1162	1170	1174	1181	324
25°	1048	1064	1086	1102	1109	483
35°	912	934	969	995	1007	570
45°	756	786	832	866	881	583
55°	581	615	669	714	733	519
65°	391	433	498	558	585	389
75°	201	254	346	418	448	212
85°	38	118	220	296	327	46
90°	0	72	171	243	274	2
95°	0	46	129	198	224	0
105°	0	15	72	125	144	0
115°	0	8	42	76	91	0
125°	0	4	27	49	57	0
135°	0	0	15	30	38	0
145°	0	0	8	19	23	0
155°	0	0	0	4	8	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°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1200.4	1211.8	1208.0	1204.2	1204.2
5°	1196.6	1208.0	1204.2	1204.2	1208.0
7.5°	1189.0	1200.4	1200.4	1200.4	1204.2
10°	1177.6	1192.8	1192.8	1192.8	1196.6
12.5°	1166.2	1177.6	1181.4	1185.2	1189.0
15°	1147.2	1162.4	1170.0	1173.8	1181.4
17.5°	1128.2	1139.6	1151.0	1162.4	1166.2
20°	1105.4	1120.6	1132.0	1143.4	1147.2
22.5°	1078.8	1094.0	1109.2	1120.6	1128.2
25°	1048.4	1063.6	1086.4	1101.6	1109.2
27.5°	1018.0	1033.2	1059.8	1078.8	1086.4
30°	980.1	1002.8	1029.4	1052.2	1063.6
32.5°	945.9	968.7	999.1	1025.6	1033.2
35°	911.7	934.5	968.7	995.3	1006.6
37.5°	873.7	900.3	934.5	964.9	976.3
40°	835.7	862.3	900.3	934.5	942.1
42.5°	797.7	824.3	869.9	900.3	911.7
45°	755.9	786.3	831.9	866.1	881.3
47.5°	714.2	744.5	790.1	828.1	843.3
50°	668.6	702.8	752.1	790.1	805.3
52.5°	626.8	661.0	710.4	752.1	771.1
55°	581.2	615.4	668.6	714.2	733.1
57.5°	535.6	569.8	626.8	676.2	695.2
60°	490.0	524.2	581.2	638.2	657.2
62.5°	440.6	478.6	539.4	596.4	619.2
65°	391.3	433.0	497.6	558.4	585.0
67.5°	345.7	387.5	455.8	524.2	547.0
70°	296.3	341.9	417.9	486.2	512.8
72.5°	246.9	296.3	379.9	452.0	478.6
75°	201.3	254.5	345.7	417.9	448.2
77.5°	151.9	216.5	311.5	387.5	414.1
80°	110.2	178.5	277.3	357.1	383.7
82.5°	72.2	144.3	246.9	326.7	353.3
85°	38.0	117.8	220.3	296.3	326.7
87.5°	11.4	91.2	193.7	269.7	296.3
90°	0.0	72.2	170.9	243.1	273.5
92.5°	0.0	57.0	148.1	220.3	246.9
95°	0.0	45.6	129.2	197.5	224.1
97.5°	0.0	38.0	114.0	178.5	201.3
100°	0.0	30.4	98.8	159.5	182.3
102.5°	0.0	22.8	83.6	140.6	163.3
105°	0.0	15.2	72.2	125.4	144.3
107.5°	0.0	11.4	60.8	110.2	129.2
110°	0.0	11.4	57.0	95.0	114.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.6	49.4	87.4	102.6
115°	0.0	7.6	41.8	76.0	91.2
117.5°	0.0	7.6	38.0	68.4	83.6
120°	0.0	7.6	34.2	60.8	72.2
122.5°	0.0	3.8	30.4	53.2	64.6
125°	0.0	3.8	26.6	49.4	57.0
127.5°	0.0	3.8	22.8	45.6	53.2
130°	0.0	3.8	22.8	41.8	49.4
132.5°	0.0	0.0	19.0	38.0	45.6
135°	0.0	0.0	15.2	30.4	38.0
137.5°	0.0	0.0	15.2	26.6	34.2
140°	0.0	0.0	11.4	26.6	30.4
142.5°	0.0	0.0	7.6	22.8	26.6
145°	0.0	0.0	7.6	19.0	22.8
147.5°	0.0	0.0	3.8	15.2	19.0
150°	0.0	0.0	3.8	11.4	15.2
152.5°	0.0	0.0	0.0	7.6	11.4
155°	0.0	0.0	0.0	3.8	7.6
157.5°	0.0	0.0	0.0	0.0	3.8
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	14.84	16.38	15.31	16.84	17.33	16.94	18.48	17.42	18.94	19.43
	3H	16.34	17.74	16.83	18.21	18.74	19.41	20.81	19.90	21.28	21.81
	4H	16.82	18.15	17.33	18.64	19.18	20.64	21.97	21.15	22.45	23.00
	6H	17.10	18.33	17.62	18.83	19.39	21.94	23.18	22.46	23.68	24.24
	8H	17.15	18.34	17.68	18.86	19.43	22.62	23.81	23.15	24.33	24.90
	12H	17.17	18.30	17.70	18.82	19.42	23.39	24.52	23.93	25.04	25.64
4H	2H	15.73	17.06	16.24	17.54	18.09	17.37	18.70	17.88	19.19	19.73
	3H	17.47	18.60	17.99	19.13	19.70	20.07	21.20	20.59	21.73	22.30
	4H	18.08	19.12	18.62	19.66	20.26	21.47	22.51	22.01	23.05	23.65
	6H	18.48	19.40	19.04	19.96	20.58	22.97	23.88	23.53	24.45	25.06
	8H	18.58	19.44	19.14	20.01	20.63	23.76	24.62	24.32	25.19	25.81
	12H	18.62	19.41	19.21	20.00	20.63	24.65	25.43	25.24	26.03	26.66
8H	4H	18.78	19.65	19.35	20.21	20.84	21.69	22.55	22.25	23.12	23.74
	6H	19.37	20.10	19.97	20.71	21.34	23.36	24.09	23.96	24.70	25.33
	8H	19.56	20.22	20.17	20.84	21.48	24.29	24.95	24.90	25.57	26.22
	12H	19.68	20.27	20.29	20.88	21.59	25.37	25.96	25.98	26.57	27.28
12H	4H	18.99	19.77	19.58	20.37	21.00	21.70	22.48	22.28	23.08	23.71
	6H	19.68	20.34	20.29	20.96	21.60	23.40	24.06	24.01	24.68	25.32
	8H	19.97	20.56	20.58	21.17	21.88	24.40	24.99	25.01	25.60	26.31