

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: P1357515

Luminaire Tested: 8ASL4-25VHE-3-92765-UNV\_3500K

Issue Date: 2/17/2026

**Test Information**

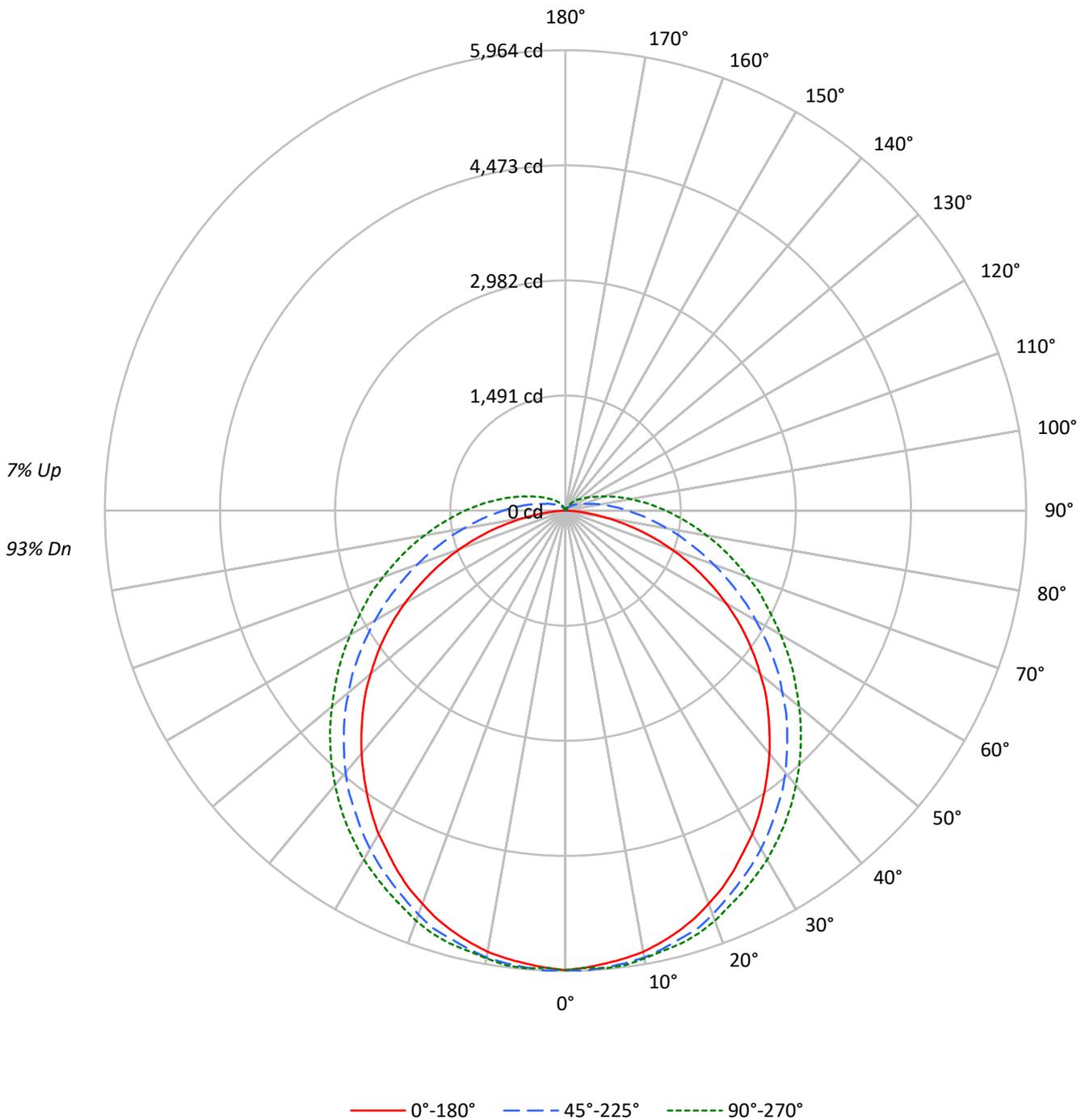
Test Method: LM-79-2019  
Report Number: P1357515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-25VHE-3-92765-UNV\_3500K  
Description: 8FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20237.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 184.2  
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	96	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	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	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

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

	0°	45°	90°
0°	24088	24088	24088
5°	23901	23653	23537
10°	23795	23212	22941
15°	23559	22659	22437
20°	23232	22128	21868
25°	22848	21457	21220
30°	22441	20876	20673
35°	21930	20217	20064
40°	21469	19615	19422
45°	20973	18883	18778
50°	20406	18097	18109
55°	19799	17347	17507
60°	19001	16470	16896
65°	17982	15628	16389
70°	16680	14799	15993
75°	14760	14050	15720
80°	11815	13509	15604
85°	7499	13450	15835

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20973 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.4	2.8
10°-20°	1620.5	8.0
20°-30°	2450.1	12.1
30°-40°	2966.7	14.7
40°-50°	3115.9	15.4
50°-60°	2907.0	14.4
60°-70°	2402.5	11.9
70°-80°	1729.8	8.5
80°-90°	1074.9	5.3
90°-100°	629.9	3.1
100°-110°	360.3	1.8
110°-120°	203.4	1.0
120°-130°	117.1	0.6
130°-140°	63.1	0.3
140°-150°	26.5	0.1
150°-160°	4.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4635.0	22.9
0°-40°	7601.7	37.6
0°-60°	13624.6	67.3
0°-90°	18831.8	93.1
90°-120°	1193.6	5.9
90°-150°	1400.3	6.9
90°-180°	1405.0	6.9
0°-180°	20237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5952	5952	5952	5952	5952	
5°	5890	5940	5940	5940	5952	560
15°	5643	5717	5742	5779	5804	1591
25°	5148	5234	5321	5395	5445	2371
35°	4479	4603	4752	4888	4950	2804
45°	3712	3848	4059	4232	4306	2864
55°	2858	3019	3267	3502	3588	2554
65°	1930	2116	2438	2747	2858	1910
75°	990	1237	1670	2029	2178	1047
85°	186	557	1052	1423	1559	227
90°	0	334	804	1151	1299	8
95°	0	210	606	928	1064	0
105°	0	74	334	582	681	0
115°	0	37	198	359	421	0
125°	0	25	124	235	272	0
135°	0	0	74	148	186	0
145°	0	0	37	87	99	0
155°	0	0	0	25	37	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°	5952.0	5952.0	5952.0	5952.0	5952.0
2.5°	5927.2	5964.3	5964.3	5927.2	5927.2
5°	5890.1	5939.6	5939.6	5939.6	5952.0
7.5°	5853.0	5914.9	5914.9	5914.9	5939.6
10°	5803.5	5865.4	5877.7	5877.7	5890.1
12.5°	5729.2	5803.5	5815.9	5828.2	5840.6
15°	5642.6	5716.9	5741.6	5778.7	5803.5
17.5°	5543.6	5630.2	5679.7	5716.9	5741.6
20°	5419.9	5506.5	5568.4	5617.9	5655.0
22.5°	5296.1	5370.4	5444.6	5506.5	5543.6
25°	5147.7	5234.3	5320.9	5395.1	5444.6
27.5°	4986.8	5085.8	5197.1	5283.8	5333.3
30°	4838.3	4937.3	5061.0	5172.4	5221.9
32.5°	4665.1	4776.4	4912.5	5023.9	5085.8
35°	4479.4	4603.2	4751.7	4887.8	4949.7
37.5°	4293.8	4417.6	4603.2	4739.3	4801.2
40°	4108.2	4232.0	4430.0	4578.4	4640.3
42.5°	3910.2	4034.0	4244.3	4405.2	4479.4
45°	3712.2	3848.4	4058.7	4232.0	4306.2
47.5°	3514.3	3650.4	3873.1	4058.7	4133.0
50°	3291.5	3440.0	3662.8	3873.1	3947.4
52.5°	3081.2	3229.7	3477.1	3687.5	3761.7
55°	2858.4	3019.3	3266.8	3501.9	3588.5
57.5°	2635.7	2796.6	3056.4	3303.9	3402.9
60°	2400.6	2573.8	2846.1	3105.9	3217.3
62.5°	2165.5	2351.1	2648.1	2920.3	3031.7
65°	1930.4	2116.0	2437.7	2747.1	2858.4
67.5°	1695.3	1893.2	2239.7	2561.5	2697.6
70°	1460.2	1670.5	2041.7	2375.8	2512.0
72.5°	1225.0	1447.8	1856.1	2202.6	2338.7
75°	989.9	1237.4	1670.5	2029.4	2177.9
77.5°	754.8	1039.4	1509.6	1868.5	2017.0
80°	544.5	866.2	1336.4	1707.6	1856.1
82.5°	346.5	693.0	1187.9	1559.1	1707.6
85°	185.6	556.8	1051.8	1423.0	1559.1
87.5°	61.9	433.1	915.7	1286.9	1423.0
90°	0.0	334.1	804.3	1150.8	1299.3
92.5°	0.0	259.9	705.3	1039.4	1175.5
95°	0.0	210.4	606.3	928.1	1064.2
97.5°	0.0	173.2	532.1	829.1	952.8
100°	0.0	136.1	457.8	742.4	853.8
102.5°	0.0	111.4	396.0	655.8	767.2
105°	0.0	74.2	334.1	581.6	680.6
107.5°	0.0	61.9	284.6	519.7	606.3
110°	0.0	49.5	259.9	445.5	532.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	37.1	235.1	396.0	482.6
115°	0.0	37.1	198.0	358.9	420.7
117.5°	0.0	37.1	173.2	321.7	383.6
120°	0.0	24.7	160.9	284.6	346.5
122.5°	0.0	24.7	136.1	259.9	309.4
125°	0.0	24.7	123.7	235.1	272.2
127.5°	0.0	12.4	111.4	210.4	247.5
130°	0.0	12.4	99.0	185.6	222.7
132.5°	0.0	12.4	86.6	173.2	210.4
135°	0.0	0.0	74.2	148.5	185.6
137.5°	0.0	0.0	61.9	136.1	160.9
140°	0.0	0.0	49.5	111.4	148.5
142.5°	0.0	0.0	37.1	99.0	123.7
145°	0.0	0.0	37.1	86.6	99.0
147.5°	0.0	0.0	24.7	61.9	86.6
150°	0.0	0.0	12.4	49.5	61.9
152.5°	0.0	0.0	0.0	37.1	49.5
155°	0.0	0.0	0.0	24.7	37.1
157.5°	0.0	0.0	0.0	0.0	12.4
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	20.40	21.94	20.87	22.40	22.88	22.47	24.01	22.94	24.47	24.95
	3H	21.90	23.30	22.38	23.77	24.29	24.95	26.36	25.44	26.82	27.35
	4H	22.38	23.71	22.88	24.19	24.73	26.17	27.50	26.67	27.98	28.52
	6H	22.65	23.89	23.17	24.39	24.94	27.45	28.69	27.96	29.18	29.74
	8H	22.71	23.89	23.23	24.41	24.97	28.12	29.31	28.64	29.83	30.38
	12H	22.72	23.86	23.25	24.37	24.96	28.86	30.00	29.40	30.52	31.11
4H	2H	21.29	22.62	21.79	23.10	23.64	22.90	24.24	23.41	24.72	25.26
	3H	23.02	24.16	23.54	24.68	25.24	25.61	26.75	26.13	27.27	27.83
	4H	23.63	24.66	24.16	25.20	25.79	27.00	28.03	27.53	28.57	29.16
	6H	24.02	24.94	24.58	25.50	26.11	28.47	29.38	29.02	29.95	30.55
	8H	24.12	24.98	24.68	25.54	26.16	29.24	30.11	29.80	30.67	31.29
	12H	24.16	24.95	24.74	25.54	26.16	30.11	30.90	30.70	31.49	32.11
8H	4H	24.32	25.18	24.88	25.74	26.36	27.21	28.07	27.77	28.64	29.25
	6H	24.90	25.63	25.49	26.23	26.86	28.85	29.58	29.44	30.19	30.81
	8H	25.08	25.74	25.68	26.35	26.99	29.77	30.43	30.37	31.04	31.68
	12H	25.19	25.78	25.80	26.39	27.09	30.82	31.41	31.43	32.02	32.72
12H	4H	24.52	25.30	25.10	25.89	26.51	27.22	28.00	27.80	28.59	29.22
	6H	25.20	25.86	25.80	26.47	27.11	28.89	29.55	29.49	30.16	30.80
	8H	25.48	26.07	26.08	26.67	27.37	29.87	30.46	30.48	31.06	31.77