

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: P1357208

Luminaire Tested: 4ASL4-25VHE-3-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357208  
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: 4ASL4-25VHE-3-92765-UNV\_3000K  
Description: 4FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

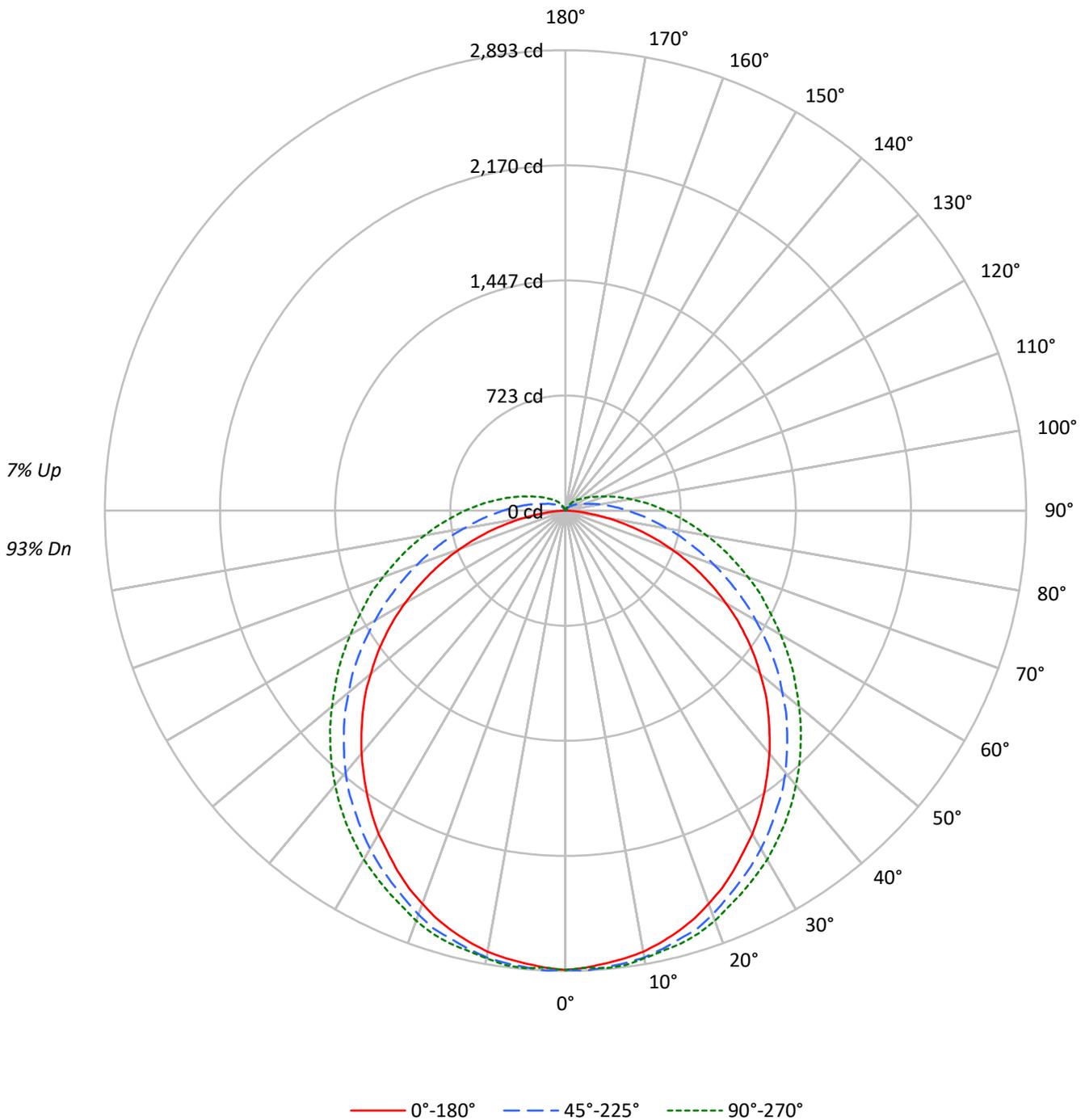
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9814.9 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 92.1  
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				
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°	23426	23426	23426
5°	23218	22985	22890
10°	23088	22539	22311
15°	22832	21985	21821
20°	22487	21454	21267
25°	22086	20786	20638
30°	21662	20207	20105
35°	21135	19553	19513
40°	20654	18952	18889
45°	20137	18227	18262
50°	19545	17448	17612
55°	18907	16704	17026
60°	18078	15835	16432
65°	17022	15000	15939
70°	15676	14171	15553
75°	13714	13414	15289
80°	10747	12846	15175
85°	6450	12709	15401

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20137 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.7	2.8
10°-20°	786.0	8.0
20°-30°	1188.3	12.1
30°-40°	1438.8	14.7
40°-50°	1511.2	15.4
50°-60°	1409.9	14.4
60°-70°	1165.2	11.9
70°-80°	839.0	8.5
80°-90°	521.4	5.3
90°-100°	305.5	3.1
100°-110°	174.7	1.8
110°-120°	98.7	1.0
120°-130°	56.8	0.6
130°-140°	30.6	0.3
140°-150°	12.9	0.1
150°-160°	2.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2248.0	22.9
0°-40°	3686.8	37.6
0°-60°	6607.9	67.3
0°-90°	9133.5	93.1
90°-120°	578.9	5.9
90°-150°	679.1	6.9
90°-180°	681.0	6.9
0°-180°	9814.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2887	2887	2887	2887	2887	
5°	2857	2881	2881	2881	2887	271
15°	2737	2773	2785	2803	2815	772
25°	2497	2539	2581	2617	2641	1150
35°	2172	2233	2305	2371	2401	1360
45°	1800	1866	1968	2052	2088	1389
55°	1386	1464	1584	1698	1740	1239
65°	936	1026	1182	1332	1386	926
75°	480	600	810	984	1056	508
85°	90	270	510	690	756	110
90°	0	162	390	558	630	4
95°	0	102	294	450	516	0
105°	0	36	162	282	330	0
115°	0	18	96	174	204	0
125°	0	12	60	114	132	0
135°	0	0	36	72	90	0
145°	0	0	18	42	48	0
155°	0	0	0	12	18	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°	2886.7	2886.7	2886.7	2886.7	2886.7
2.5°	2874.7	2892.7	2892.7	2874.7	2874.7
5°	2856.7	2880.7	2880.7	2880.7	2886.7
7.5°	2838.7	2868.7	2868.7	2868.7	2880.7
10°	2814.7	2844.7	2850.7	2850.7	2856.7
12.5°	2778.7	2814.7	2820.7	2826.7	2832.7
15°	2736.7	2772.7	2784.7	2802.7	2814.7
17.5°	2688.7	2730.7	2754.7	2772.7	2784.7
20°	2628.7	2670.7	2700.7	2724.7	2742.7
22.5°	2568.6	2604.7	2640.7	2670.7	2688.7
25°	2496.6	2538.6	2580.6	2616.7	2640.7
27.5°	2418.6	2466.6	2520.6	2562.6	2586.6
30°	2346.6	2394.6	2454.6	2508.6	2532.6
32.5°	2262.6	2316.6	2382.6	2436.6	2466.6
35°	2172.5	2232.6	2304.6	2370.6	2400.6
37.5°	2082.5	2142.5	2232.6	2298.6	2328.6
40°	1992.5	2052.5	2148.5	2220.6	2250.6
42.5°	1896.5	1956.5	2058.5	2136.5	2172.5
45°	1800.5	1866.5	1968.5	2052.5	2088.5
47.5°	1704.4	1770.4	1878.5	1968.5	2004.5
50°	1596.4	1668.4	1776.4	1878.5	1914.5
52.5°	1494.4	1566.4	1686.4	1788.4	1824.5
55°	1386.3	1464.4	1584.4	1698.4	1740.4
57.5°	1278.3	1356.3	1482.4	1602.4	1650.4
60°	1164.3	1248.3	1380.3	1506.4	1560.4
62.5°	1050.3	1140.3	1284.3	1416.4	1470.4
65°	936.2	1026.3	1182.3	1332.3	1386.3
67.5°	822.2	918.2	1086.3	1242.3	1308.3
70°	708.2	810.2	990.2	1152.3	1218.3
72.5°	594.1	702.2	900.2	1068.3	1134.3
75°	480.1	600.2	810.2	984.2	1056.3
77.5°	366.1	504.1	732.2	906.2	978.2
80°	264.1	420.1	648.2	828.2	900.2
82.5°	168.0	336.1	576.1	756.2	828.2
85°	90.0	270.1	510.1	690.2	756.2
87.5°	30.0	210.1	444.1	624.2	690.2
90°	0.0	162.0	390.1	558.1	630.2
92.5°	0.0	126.0	342.1	504.1	570.1
95°	0.0	102.0	294.1	450.1	516.1
97.5°	0.0	84.0	258.1	402.1	462.1
100°	0.0	66.0	222.1	360.1	414.1
102.5°	0.0	54.0	192.0	318.1	372.1
105°	0.0	36.0	162.0	282.1	330.1
107.5°	0.0	30.0	138.0	252.1	294.1
110°	0.0	24.0	126.0	216.1	258.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	18.0	114.0	192.0	234.1
115°	0.0	18.0	96.0	174.0	204.1
117.5°	0.0	18.0	84.0	156.0	186.0
120°	0.0	12.0	78.0	138.0	168.0
122.5°	0.0	12.0	66.0	126.0	150.0
125°	0.0	12.0	60.0	114.0	132.0
127.5°	0.0	6.0	54.0	102.0	120.0
130°	0.0	6.0	48.0	90.0	108.0
132.5°	0.0	6.0	42.0	84.0	102.0
135°	0.0	0.0	36.0	72.0	90.0
137.5°	0.0	0.0	30.0	66.0	78.0
140°	0.0	0.0	24.0	54.0	72.0
142.5°	0.0	0.0	18.0	48.0	60.0
145°	0.0	0.0	18.0	42.0	48.0
147.5°	0.0	0.0	12.0	30.0	42.0
150°	0.0	0.0	6.0	24.0	30.0
152.5°	0.0	0.0	0.0	18.0	24.0
155°	0.0	0.0	0.0	12.0	18.0
157.5°	0.0	0.0	0.0	0.0	6.0
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	20.29	21.83	20.76	22.29	22.77	22.32	23.86	22.79	24.31	24.80
	3H	21.79	23.19	22.27	23.66	24.18	24.78	26.18	25.26	26.65	27.17
	4H	22.27	23.60	22.77	24.08	24.62	25.98	27.31	26.48	27.79	28.33
	6H	22.54	23.78	23.06	24.28	24.83	27.23	28.47	27.74	28.97	29.52
	8H	22.60	23.78	23.12	24.30	24.86	27.88	29.06	28.40	29.58	30.14
	12H	22.61	23.75	23.14	24.26	24.85	28.59	29.73	29.12	30.24	30.83
4H	2H	21.17	22.50	21.67	22.98	23.52	22.75	24.08	23.25	24.57	25.10
	3H	22.90	24.04	23.42	24.56	25.12	25.44	26.57	25.95	27.10	27.66
	4H	23.51	24.54	24.04	25.08	25.67	26.81	27.85	27.34	28.38	28.98
	6H	23.90	24.82	24.46	25.38	25.99	28.25	29.17	28.81	29.73	30.34
	8H	24.00	24.86	24.56	25.42	26.04	29.01	29.87	29.57	30.43	31.05
	12H	24.04	24.83	24.63	25.42	26.04	29.84	30.62	30.42	31.21	31.84
8H	4H	24.19	25.05	24.75	25.61	26.23	27.02	27.89	27.59	28.45	29.07
	6H	24.77	25.50	25.36	26.10	26.73	28.64	29.37	29.23	29.97	30.60
	8H	24.95	25.61	25.55	26.22	26.86	29.53	30.19	30.14	30.81	31.45
	12H	25.06	25.65	25.67	26.26	26.96	30.55	31.14	31.16	31.75	32.45
12H	4H	24.38	25.16	24.96	25.76	26.38	27.03	27.82	27.62	28.41	29.03
	6H	25.06	25.72	25.66	26.34	26.97	28.68	29.34	29.28	29.95	30.59
	8H	25.34	25.93	25.95	26.53	27.24	29.64	30.23	30.25	30.83	31.54