

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: P1357207

Luminaire Tested: 4ASL4-25VHE-3-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357207
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_2700K
Description: 4FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

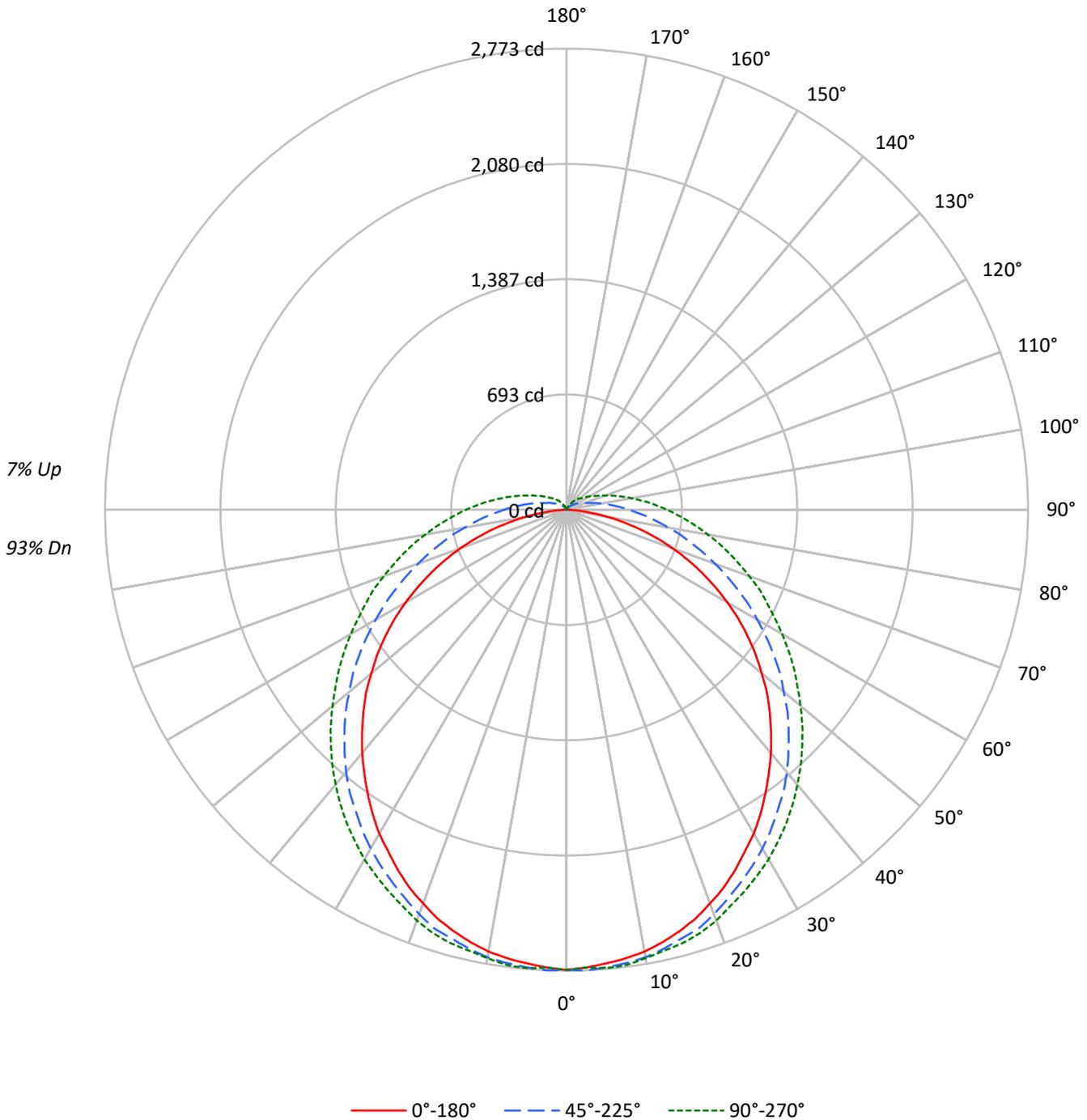
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9410.0 lumens
Efficiency: N/A
Efficacy: 102.2 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_{in}): 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°	22460	22460	22460
5°	22260	22037	21946
10°	22136	21610	21390
15°	21890	21078	20921
20°	21559	20568	20389
25°	21174	19929	19786
30°	20768	19373	19275
35°	20264	18746	18707
40°	19802	18171	18109
45°	19306	17475	17508
50°	18738	16728	16885
55°	18127	16014	16323
60°	17331	15182	15754
65°	16320	14380	15281
70°	15030	13587	14911
75°	13148	12861	14658
80°	10303	12315	14550
85°	6185	12186	14765

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19306 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	2.8
10°-20°	753.5	8.0
20°-30°	1139.3	12.1
30°-40°	1379.5	14.7
40°-50°	1448.9	15.4
50°-60°	1351.7	14.4
60°-70°	1117.1	11.9
70°-80°	804.3	8.5
80°-90°	499.8	5.3
90°-100°	292.9	3.1
100°-110°	167.5	1.8
110°-120°	94.6	1.0
120°-130°	54.4	0.6
130°-140°	29.3	0.3
140°-150°	12.3	0.1
150°-160°	2.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2155.2	22.9
0°-40°	3534.7	37.6
0°-60°	6335.3	67.3
0°-90°	8756.6	93.1
90°-120°	555.0	5.9
90°-150°	651.1	6.9
90°-180°	653.0	6.9
0°-180°	9410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2768	2768	2768	2768	2768	
5°	2739	2762	2762	2762	2768	260
15°	2624	2658	2670	2687	2699	740
25°	2394	2434	2474	2509	2532	1103
35°	2083	2140	2210	2273	2302	1304
45°	1726	1790	1887	1968	2002	1332
55°	1329	1404	1519	1628	1669	1188
65°	898	984	1134	1277	1329	888
75°	460	575	777	944	1013	487
85°	86	259	489	662	725	106
90°	0	155	374	535	604	4
95°	0	98	282	432	495	0
105°	0	34	155	270	316	0
115°	0	17	92	167	196	0
125°	0	12	58	109	127	0
135°	0	0	34	69	86	0
145°	0	0	17	40	46	0
155°	0	0	0	12	17	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°	2767.6	2767.6	2767.6	2767.6	2767.6
2.5°	2756.1	2773.4	2773.4	2756.1	2756.1
5°	2738.8	2761.9	2761.9	2761.9	2767.6
7.5°	2721.6	2750.3	2750.3	2750.3	2761.9
10°	2698.6	2727.3	2733.1	2733.1	2738.8
12.5°	2664.0	2698.6	2704.3	2710.1	2715.8
15°	2623.8	2658.3	2669.8	2687.1	2698.6
17.5°	2577.7	2618.0	2641.0	2658.3	2669.8
20°	2520.2	2560.5	2589.2	2612.3	2629.5
22.5°	2462.7	2497.2	2531.7	2560.5	2577.7
25°	2393.6	2433.9	2474.2	2508.7	2531.7
27.5°	2318.8	2364.8	2416.6	2456.9	2479.9
30°	2249.8	2295.8	2353.3	2405.1	2428.1
32.5°	2169.2	2221.0	2284.3	2336.1	2364.8
35°	2082.9	2140.4	2209.5	2272.8	2301.5
37.5°	1996.6	2054.1	2140.4	2203.7	2232.5
40°	1910.3	1967.8	2059.9	2128.9	2157.7
42.5°	1818.2	1875.8	1973.6	2048.4	2082.9
45°	1726.2	1789.5	1887.3	1967.8	2002.3
47.5°	1634.1	1697.4	1801.0	1887.3	1921.8
50°	1530.5	1599.6	1703.1	1801.0	1835.5
52.5°	1432.7	1501.8	1616.8	1714.7	1749.2
55°	1329.1	1403.9	1519.0	1628.3	1668.6
57.5°	1225.6	1300.4	1421.2	1536.3	1582.3
60°	1116.2	1196.8	1323.4	1444.2	1496.0
62.5°	1006.9	1093.2	1231.3	1357.9	1409.7
65°	897.6	983.9	1133.5	1277.4	1329.1
67.5°	788.3	880.3	1041.4	1191.0	1254.3
70°	679.0	776.8	949.4	1104.7	1168.0
72.5°	569.6	673.2	863.1	1024.2	1087.5
75°	460.3	575.4	776.8	943.6	1012.7
77.5°	351.0	483.3	702.0	868.8	937.9
80°	253.2	402.8	621.4	794.0	863.1
82.5°	161.1	322.2	552.4	725.0	794.0
85°	86.3	258.9	489.1	661.7	725.0
87.5°	28.8	201.4	425.8	598.4	661.7
90°	0.0	155.4	374.0	535.1	604.2
92.5°	0.0	120.8	328.0	483.3	546.6
95°	0.0	97.8	281.9	431.5	494.8
97.5°	0.0	80.6	247.4	385.5	443.0
100°	0.0	63.3	212.9	345.2	397.0
102.5°	0.0	51.8	184.1	305.0	356.7
105°	0.0	34.5	155.4	270.4	316.5
107.5°	0.0	28.8	132.3	241.7	281.9
110°	0.0	23.0	120.8	207.1	247.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.3	109.3	184.1	224.4
115°	0.0	17.3	92.1	166.9	195.6
117.5°	0.0	17.3	80.6	149.6	178.4
120°	0.0	11.5	74.8	132.3	161.1
122.5°	0.0	11.5	63.3	120.8	143.8
125°	0.0	11.5	57.5	109.3	126.6
127.5°	0.0	5.8	51.8	97.8	115.1
130°	0.0	5.8	46.0	86.3	103.6
132.5°	0.0	5.8	40.3	80.6	97.8
135°	0.0	0.0	34.5	69.0	86.3
137.5°	0.0	0.0	28.8	63.3	74.8
140°	0.0	0.0	23.0	51.8	69.0
142.5°	0.0	0.0	17.3	46.0	57.5
145°	0.0	0.0	17.3	40.3	46.0
147.5°	0.0	0.0	11.5	28.8	40.3
150°	0.0	0.0	5.8	23.0	28.8
152.5°	0.0	0.0	0.0	17.3	23.0
155°	0.0	0.0	0.0	11.5	17.3
157.5°	0.0	0.0	0.0	0.0	5.8
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	20.14	21.68	20.61	22.14	22.62	22.17	23.71	22.64	24.17	24.65
	3H	21.64	23.05	22.12	23.51	24.03	24.63	26.04	25.11	26.50	27.03
	4H	22.12	23.45	22.62	23.94	24.47	25.83	27.16	26.33	27.64	28.18
	6H	22.40	23.64	22.91	24.13	24.69	27.08	28.32	27.60	28.82	29.37
	8H	22.45	23.64	22.98	24.16	24.72	27.73	28.92	28.26	29.44	30.00
	12H	22.46	23.60	23.00	24.12	24.71	28.44	29.58	28.97	30.09	30.68
4H	2H	21.02	22.35	21.52	22.83	23.37	22.61	23.94	23.11	24.42	24.96
	3H	22.76	23.89	23.27	24.42	24.98	25.29	26.43	25.81	26.95	27.51
	4H	23.36	24.40	23.90	24.93	25.53	26.66	27.70	27.20	28.24	28.83
	6H	23.76	24.68	24.31	25.24	25.84	28.11	29.02	28.66	29.59	30.19
	8H	23.85	24.72	24.41	25.28	25.90	28.86	29.72	29.42	30.28	30.90
	12H	23.90	24.68	24.48	25.27	25.90	29.69	30.48	30.28	31.07	31.69
8H	4H	24.04	24.90	24.60	25.47	26.09	26.88	27.74	27.44	28.30	28.92
	6H	24.62	25.35	25.21	25.96	26.58	28.49	29.22	29.08	29.83	30.45
	8H	24.80	25.46	25.41	26.08	26.71	29.39	30.05	29.99	30.66	31.30
	12H	24.92	25.51	25.52	26.11	26.81	30.41	31.00	31.01	31.60	32.30
12H	4H	24.23	25.02	24.82	25.61	26.23	26.89	27.67	27.47	28.26	28.89
	6H	24.91	25.58	25.52	26.19	26.83	28.53	29.19	29.13	29.81	30.44
	8H	25.19	25.78	25.80	26.39	27.09	29.49	30.08	30.10	30.69	31.39