

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: P1357210

Luminaire Tested: 4ASL4-25VHE-3-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357210
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_4000K
Description: 4FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

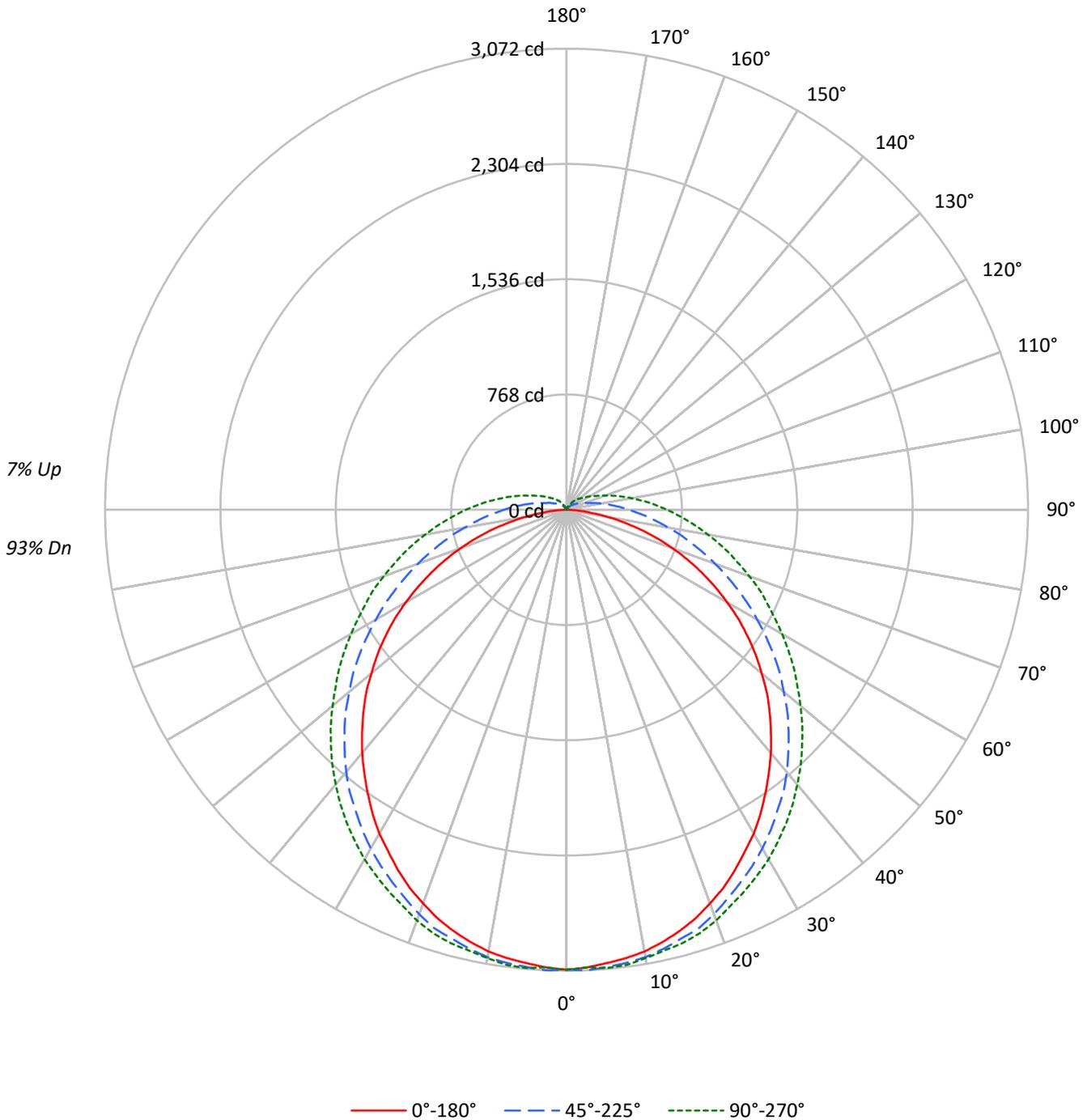
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10422.0 lumens
Efficiency: N/A
Efficacy: 113.2 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				
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°	24876	24876	24876
5°	24654	24407	24306
10°	24516	23933	23691
15°	24244	23345	23170
20°	23878	22780	22582
25°	23451	22072	21914
30°	23001	21457	21349
35°	22443	20762	20720
40°	21931	20125	20057
45°	21381	19354	19392
50°	20753	18527	18701
55°	20077	17737	18079
60°	19195	16814	17448
65°	18074	15927	16925
70°	16646	15048	16516
75°	14562	14244	16234
80°	11410	13639	16114
85°	6851	13496	16354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21381 cd/sqm



TEST NUMBER: P1357210
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.7	2.8
10°-20°	834.6	8.0
20°-30°	1261.8	12.1
30°-40°	1527.8	14.7
40°-50°	1604.7	15.4
50°-60°	1497.1	14.4
60°-70°	1237.3	11.9
70°-80°	890.8	8.5
80°-90°	553.6	5.3
90°-100°	324.4	3.1
100°-110°	185.6	1.8
110°-120°	104.8	1.0
120°-130°	60.3	0.6
130°-140°	32.5	0.3
140°-150°	13.7	0.1
150°-160°	2.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2387.0	22.9
0°-40°	3914.8	37.6
0°-60°	7016.6	67.3
0°-90°	9698.3	93.1
90°-120°	614.7	5.9
90°-150°	721.2	6.9
90°-180°	724.0	6.9
0°-180°	10422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3065	3065	3065	3065	3065	
5°	3033	3059	3059	3059	3065	288
15°	2906	2944	2957	2976	2989	819
25°	2651	2696	2740	2778	2804	1221
35°	2307	2371	2447	2517	2549	1444
45°	1912	1982	2090	2180	2218	1475
55°	1472	1555	1682	1804	1848	1315
65°	994	1090	1255	1415	1472	984
75°	510	637	860	1045	1122	539
85°	96	287	542	733	803	117
90°	0	172	414	593	669	4
95°	0	108	312	478	548	0
105°	0	38	172	300	350	0
115°	0	19	102	185	217	0
125°	0	13	64	121	140	0
135°	0	0	38	76	96	0
145°	0	0	19	45	51	0
155°	0	0	0	13	19	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357210
 CATALOG NUMBER: 4ASL4-25VHE-3-92765-UNV_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3065.3	3065.3	3065.3	3065.3	3065.3
2.5°	3052.5	3071.6	3071.6	3052.5	3052.5
5°	3033.4	3058.9	3058.9	3058.9	3065.3
7.5°	3014.3	3046.1	3046.1	3046.1	3058.9
10°	2988.8	3020.6	3027.0	3027.0	3033.4
12.5°	2950.5	2988.8	2995.2	3001.5	3007.9
15°	2905.9	2944.2	2956.9	2976.0	2988.8
17.5°	2855.0	2899.6	2925.1	2944.2	2956.9
20°	2791.2	2835.8	2867.7	2893.2	2912.3
22.5°	2727.5	2765.7	2804.0	2835.8	2855.0
25°	2651.0	2695.6	2740.2	2778.5	2804.0
27.5°	2568.2	2619.2	2676.5	2721.1	2746.6
30°	2491.7	2542.7	2606.4	2663.8	2689.3
32.5°	2402.5	2459.8	2529.9	2587.3	2619.2
35°	2306.9	2370.6	2447.1	2517.2	2549.1
37.5°	2211.3	2275.0	2370.6	2440.7	2472.6
40°	2115.7	2179.5	2281.4	2357.9	2389.7
42.5°	2013.8	2077.5	2185.8	2268.7	2306.9
45°	1911.8	1981.9	2090.2	2179.5	2217.7
47.5°	1809.8	1879.9	1994.6	2090.2	2128.5
50°	1695.1	1771.6	1886.3	1994.6	2032.9
52.5°	1586.8	1663.3	1790.7	1899.1	1937.3
55°	1472.1	1554.9	1682.4	1803.5	1848.1
57.5°	1357.4	1440.2	1574.0	1701.5	1752.5
60°	1236.3	1325.5	1465.7	1599.5	1656.9
62.5°	1115.2	1210.8	1363.7	1503.9	1561.3
65°	994.1	1089.7	1255.4	1414.7	1472.1
67.5°	873.1	975.0	1153.5	1319.1	1389.2
70°	752.0	860.3	1051.5	1223.6	1293.7
72.5°	630.9	745.6	955.9	1134.3	1204.4
75°	509.8	637.3	860.3	1045.1	1121.6
77.5°	388.7	535.3	777.5	962.3	1038.7
80°	280.4	446.1	688.2	879.4	955.9
82.5°	178.4	356.9	611.8	803.0	879.4
85°	95.6	286.8	541.7	732.9	803.0
87.5°	31.9	223.0	471.6	662.8	732.9
90°	0.0	172.1	414.2	592.7	669.1
92.5°	0.0	133.8	363.2	535.3	605.4
95°	0.0	108.3	312.3	477.9	548.0
97.5°	0.0	89.2	274.0	427.0	490.7
100°	0.0	70.1	235.8	382.4	439.7
102.5°	0.0	57.4	203.9	337.8	395.1
105°	0.0	38.2	172.1	299.5	350.5
107.5°	0.0	31.9	146.6	267.7	312.3
110°	0.0	25.5	133.8	229.4	274.0



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 CATALOG NUMBER: 4ASL4-25VHE-3-92765-UNV_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.1	121.1	203.9	248.5
115°	0.0	19.1	102.0	184.8	216.7
117.5°	0.0	19.1	89.2	165.7	197.6
120°	0.0	12.7	82.8	146.6	178.4
122.5°	0.0	12.7	70.1	133.8	159.3
125°	0.0	12.7	63.7	121.1	140.2
127.5°	0.0	6.4	57.4	108.3	127.5
130°	0.0	6.4	51.0	95.6	114.7
132.5°	0.0	6.4	44.6	89.2	108.3
135°	0.0	0.0	38.2	76.5	95.6
137.5°	0.0	0.0	31.9	70.1	82.8
140°	0.0	0.0	25.5	57.4	76.5
142.5°	0.0	0.0	19.1	51.0	63.7
145°	0.0	0.0	19.1	44.6	51.0
147.5°	0.0	0.0	12.7	31.9	44.6
150°	0.0	0.0	6.4	25.5	31.9
152.5°	0.0	0.0	0.0	19.1	25.5
155°	0.0	0.0	0.0	12.7	19.1
157.5°	0.0	0.0	0.0	0.0	6.4
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	20.50	22.04	20.97	22.49	22.98	22.53	24.07	22.99	24.52	25.00
	3H	22.00	23.40	22.48	23.86	24.39	24.99	26.39	25.47	26.86	27.38
	4H	22.48	23.81	22.98	24.29	24.83	26.19	27.52	26.69	28.00	28.54
	6H	22.75	23.99	23.27	24.49	25.04	27.44	28.68	27.95	29.17	29.73
	8H	22.80	23.99	23.33	24.51	25.07	28.09	29.27	28.61	29.79	30.35
	12H	22.82	23.96	23.35	24.47	25.06	28.79	29.93	29.33	30.45	31.04
4H	2H	21.38	22.71	21.88	23.19	23.73	22.96	24.29	23.46	24.77	25.31
	3H	23.11	24.25	23.63	24.77	25.33	25.65	26.78	26.16	27.31	27.87
	4H	23.71	24.75	24.25	25.29	25.88	27.02	28.06	27.55	28.59	29.18
	6H	24.11	25.03	24.67	25.59	26.20	28.46	29.38	29.02	29.94	30.55
	8H	24.21	25.07	24.77	25.63	26.25	29.21	30.08	29.77	30.64	31.26
	12H	24.25	25.04	24.83	25.63	26.25	30.05	30.83	30.63	31.42	32.05
8H	4H	24.40	25.26	24.96	25.82	26.44	27.23	28.10	27.79	28.66	29.28
	6H	24.97	25.71	25.57	26.31	26.94	28.85	29.58	29.44	30.18	30.81
	8H	25.16	25.82	25.76	26.43	27.07	29.74	30.40	30.35	31.02	31.65
	12H	25.27	25.86	25.88	26.47	27.17	30.76	31.35	31.37	31.95	32.66
12H	4H	24.59	25.37	25.17	25.96	26.59	27.24	28.03	27.82	28.62	29.24
	6H	25.27	25.93	25.87	26.54	27.18	28.88	29.55	29.49	30.16	30.80
	8H	25.55	26.14	26.15	26.74	27.45	29.85	30.44	30.45	31.04	31.74