

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: P1357224

Luminaire Tested: 4ASL4-30VHE-3-92765-UNV_3500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357224
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: 4ASL4-30VHE-3-92765-UNV_3500K
Description: 4FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

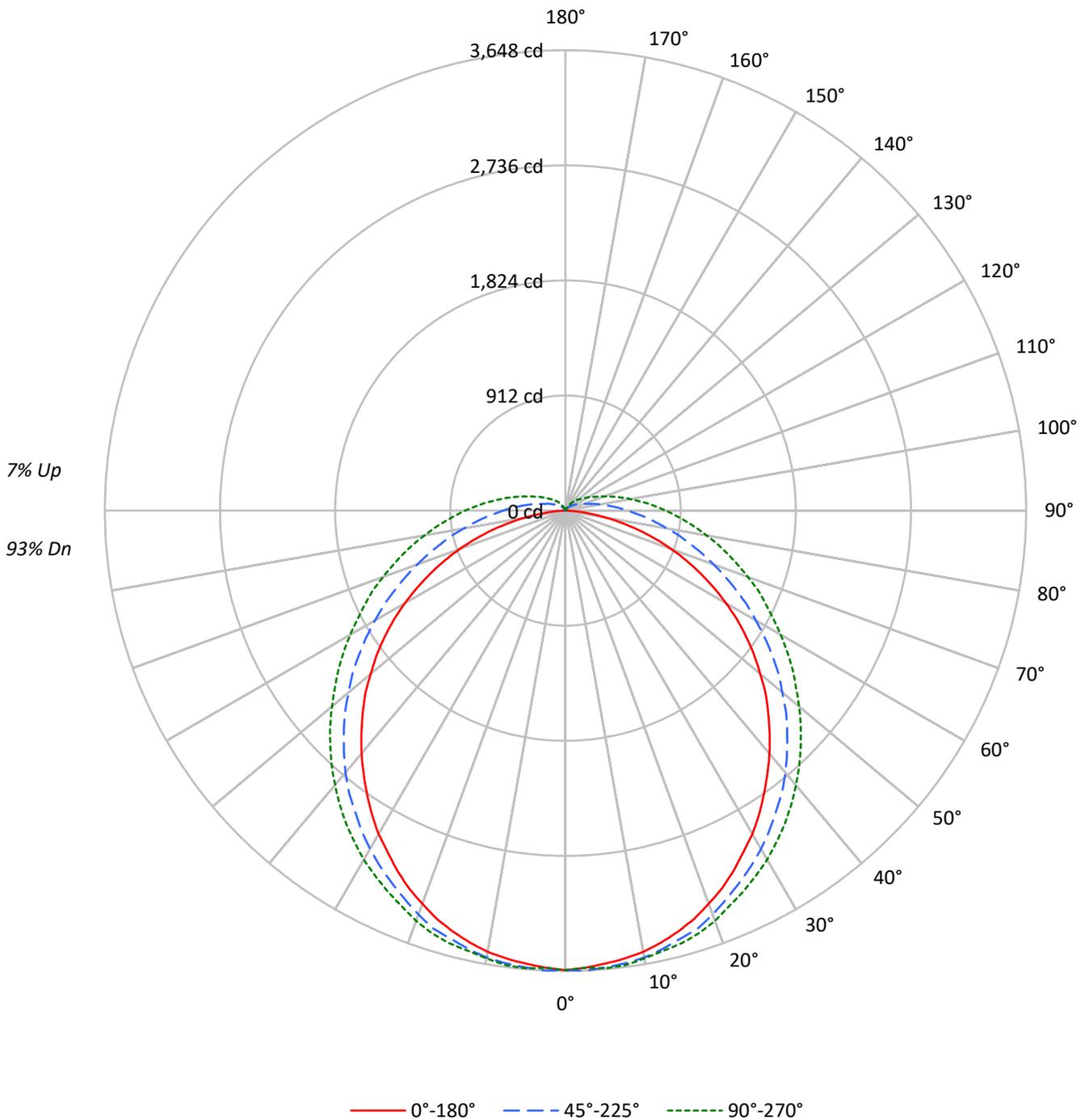
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12379.0 lumens
Efficiency: N/A
Efficacy: 106.2 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): 116.6
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°	29546	29546	29546
5°	29284	28990	28870
10°	29119	28427	28140
15°	28797	27729	27521
20°	28362	27058	26823
25°	27855	26217	26029
30°	27321	25486	25357
35°	26657	24660	24610
40°	26050	23903	23823
45°	25397	22988	23033
50°	24650	22006	22212
55°	23847	21068	21474
60°	22799	19972	20724
65°	21469	18919	20103
70°	19771	17873	19617
75°	17296	16920	19282
80°	13551	16201	19140
85°	8134	16030	19423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	2.8
10°-20°	991.3	8.0
20°-30°	1498.7	12.1
30°-40°	1814.7	14.7
40°-50°	1906.0	15.4
50°-60°	1778.2	14.4
60°-70°	1469.6	11.9
70°-80°	1058.1	8.5
80°-90°	657.5	5.3
90°-100°	385.3	3.1
100°-110°	220.4	1.8
110°-120°	124.4	1.0
120°-130°	71.6	0.6
130°-140°	38.6	0.3
140°-150°	16.2	0.1
150°-160°	3.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2835.2	22.9
0°-40°	4649.9	37.6
0°-60°	8334.2	67.3
0°-90°	11519.4	93.1
90°-120°	730.1	5.9
90°-150°	856.6	6.9
90°-180°	860.0	6.9
0°-180°	12379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3641	3641	3641	3641	3641	
5°	3603	3633	3633	3633	3641	342
15°	3452	3497	3512	3535	3550	973
25°	3149	3202	3255	3300	3330	1450
35°	2740	2816	2907	2990	3028	1715
45°	2271	2354	2483	2589	2634	1752
55°	1748	1847	1998	2142	2195	1562
65°	1181	1294	1491	1680	1748	1168
75°	606	757	1022	1241	1332	640
85°	114	341	643	870	954	139
90°	0	204	492	704	795	5
95°	0	129	371	568	651	0
105°	0	45	204	356	416	0
115°	0	23	121	220	257	0
125°	0	15	76	144	166	0
135°	0	0	45	91	114	0
145°	0	0	23	53	61	0
155°	0	0	0	15	23	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°	3640.8	3640.8	3640.8	3640.8	3640.8
2.5°	3625.7	3648.4	3648.4	3625.7	3625.7
5°	3603.0	3633.3	3633.3	3633.3	3640.8
7.5°	3580.3	3618.1	3618.1	3618.1	3633.3
10°	3550.0	3587.8	3595.4	3595.4	3603.0
12.5°	3504.6	3550.0	3557.6	3565.1	3572.7
15°	3451.6	3497.0	3512.2	3534.9	3550.0
17.5°	3391.0	3444.0	3474.3	3497.0	3512.2
20°	3315.4	3368.3	3406.2	3436.5	3459.2
22.5°	3239.7	3285.1	3330.5	3368.3	3391.0
25°	3148.8	3201.8	3254.8	3300.2	3330.5
27.5°	3050.4	3111.0	3179.1	3232.1	3262.4
30°	2959.6	3020.1	3095.8	3164.0	3194.2
32.5°	2853.6	2921.7	3005.0	3073.1	3111.0
35°	2740.1	2815.8	2906.6	2989.9	3027.7
37.5°	2626.5	2702.2	2815.8	2899.0	2936.9
40°	2513.0	2588.7	2709.8	2800.6	2838.5
42.5°	2391.9	2467.6	2596.3	2694.7	2740.1
45°	2270.8	2354.1	2482.7	2588.7	2634.1
47.5°	2149.7	2232.9	2369.2	2482.7	2528.1
50°	2013.4	2104.3	2240.5	2369.2	2414.6
52.5°	1884.8	1975.6	2127.0	2255.6	2301.1
55°	1748.5	1846.9	1998.3	2142.1	2195.1
57.5°	1612.3	1710.7	1869.6	2021.0	2081.6
60°	1468.4	1574.4	1740.9	1899.9	1968.0
62.5°	1324.6	1438.2	1619.8	1786.4	1854.5
65°	1180.8	1294.3	1491.2	1680.4	1748.5
67.5°	1037.0	1158.1	1370.0	1566.8	1650.1
70°	893.2	1021.9	1248.9	1453.3	1536.6
72.5°	749.4	885.6	1135.4	1347.3	1430.6
75°	605.5	756.9	1021.9	1241.4	1332.2
77.5°	461.7	635.8	923.5	1143.0	1233.8
80°	333.0	529.9	817.5	1044.6	1135.4
82.5°	211.9	423.9	726.7	953.7	1044.6
85°	113.5	340.6	643.4	870.5	953.7
87.5°	37.8	264.9	560.1	787.2	870.5
90°	0.0	204.4	492.0	703.9	794.8
92.5°	0.0	159.0	431.4	635.8	719.1
95°	0.0	128.7	370.9	567.7	651.0
97.5°	0.0	106.0	325.5	507.1	582.8
100°	0.0	83.3	280.1	454.2	522.3
102.5°	0.0	68.1	242.2	401.2	469.3
105°	0.0	45.4	204.4	355.8	416.3
107.5°	0.0	37.8	174.1	317.9	370.9
110°	0.0	30.3	159.0	272.5	325.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.7	143.8	242.2	295.2
115°	0.0	22.7	121.1	219.5	257.4
117.5°	0.0	22.7	106.0	196.8	234.6
120°	0.0	15.1	98.4	174.1	211.9
122.5°	0.0	15.1	83.3	159.0	189.2
125°	0.0	15.1	75.7	143.8	166.5
127.5°	0.0	7.6	68.1	128.7	151.4
130°	0.0	7.6	60.6	113.5	136.2
132.5°	0.0	7.6	53.0	106.0	128.7
135°	0.0	0.0	45.4	90.8	113.5
137.5°	0.0	0.0	37.8	83.3	98.4
140°	0.0	0.0	30.3	68.1	90.8
142.5°	0.0	0.0	22.7	60.6	75.7
145°	0.0	0.0	22.7	53.0	60.6
147.5°	0.0	0.0	15.1	37.8	53.0
150°	0.0	0.0	7.6	30.3	37.8
152.5°	0.0	0.0	0.0	22.7	30.3
155°	0.0	0.0	0.0	15.1	22.7
157.5°	0.0	0.0	0.0	0.0	7.6
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	21.10	22.64	21.57	23.09	23.58	23.12	24.66	23.59	25.12	25.60
	3H	22.59	24.00	23.08	24.46	24.99	25.59	26.99	26.07	27.46	27.98
	4H	23.07	24.41	23.58	24.89	25.43	26.78	28.11	27.29	28.60	29.13
	6H	23.35	24.59	23.87	25.09	25.64	28.04	29.28	28.55	29.77	30.33
	8H	23.40	24.59	23.93	25.11	25.67	28.68	29.87	29.21	30.39	30.95
	12H	23.42	24.56	23.95	25.07	25.66	29.39	30.53	29.93	31.05	31.64
4H	2H	21.97	23.30	22.48	23.79	24.32	23.56	24.89	24.06	25.37	25.91
	3H	23.71	24.84	24.22	25.37	25.93	26.25	27.38	26.76	27.91	28.47
	4H	24.31	25.35	24.85	25.89	26.48	27.61	28.65	28.15	29.19	29.78
	6H	24.71	25.63	25.27	26.19	26.80	29.06	29.98	29.61	30.54	31.15
	8H	24.80	25.67	25.37	26.23	26.85	29.81	30.67	30.37	31.24	31.86
	12H	24.85	25.63	25.43	26.22	26.85	30.65	31.43	31.23	32.02	32.65
8H	4H	24.99	25.86	25.55	26.42	27.04	27.83	28.69	28.39	29.26	29.88
	6H	25.57	26.30	26.17	26.91	27.53	29.45	30.18	30.04	30.78	31.41
	8H	25.75	26.42	26.36	27.03	27.67	30.34	31.00	30.94	31.61	32.25
	12H	25.87	26.46	26.48	27.06	27.77	31.36	31.95	31.97	32.55	33.26
12H	4H	25.19	25.97	25.77	26.56	27.19	27.84	28.62	28.42	29.21	29.84
	6H	25.87	26.53	26.47	27.14	27.78	29.48	30.14	30.09	30.76	31.40
	8H	26.15	26.74	26.75	27.34	28.04	30.45	31.03	31.05	31.64	32.34