

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: P1357226

Luminaire Tested: 4ASL4-30VHE-3-92765-UNV_5000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357226
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_5000K
Description: 4FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 5000K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

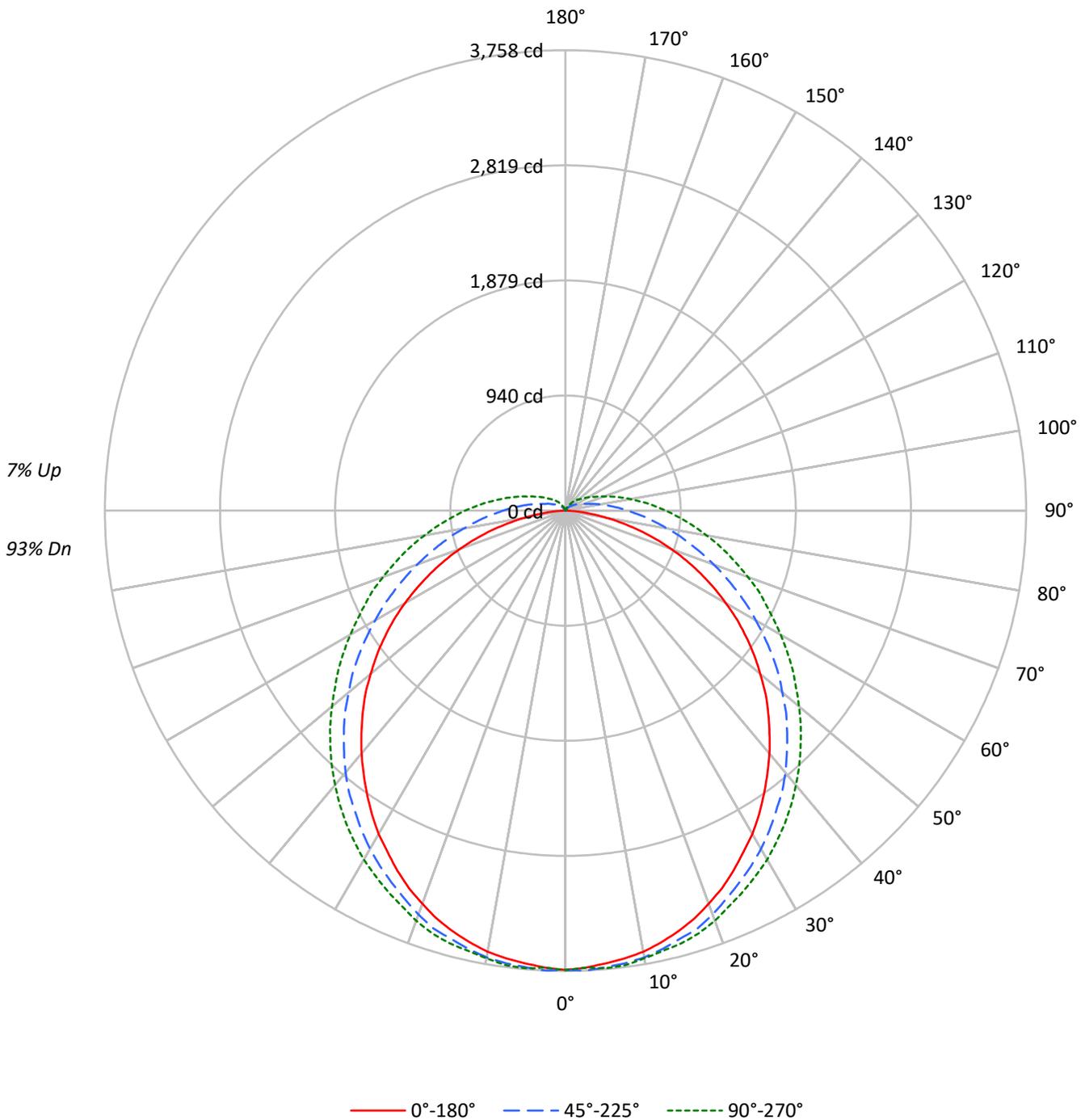
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12750.0 lumens
Efficiency: N/A
Efficacy: 109.3 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				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°	30431	30431	30431
5°	30162	29859	29735
10°	29992	29280	28983
15°	29659	28559	28346
20°	29211	27869	27626
25°	28690	27002	26809
30°	28139	26250	26117
35°	27456	25399	25348
40°	26830	24620	24538
45°	26157	23677	23724
50°	25390	22666	22878
55°	24562	21699	22117
60°	23484	20570	21346
65°	22113	19484	20705
70°	20362	18410	20204
75°	17816	17426	19860
80°	13958	16687	19713
85°	8378	16511	20006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.6	2.8
10°-20°	1021.0	8.0
20°-30°	1543.6	12.1
30°-40°	1869.1	14.7
40°-50°	1963.1	15.4
50°-60°	1831.5	14.4
60°-70°	1513.6	11.9
70°-80°	1089.8	8.5
80°-90°	677.2	5.3
90°-100°	396.8	3.1
100°-110°	227.0	1.8
110°-120°	128.2	1.0
120°-130°	73.8	0.6
130°-140°	39.7	0.3
140°-150°	16.7	0.1
150°-160°	3.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2920.2	22.9
0°-40°	4789.3	37.6
0°-60°	8583.9	67.3
0°-90°	11864.7	93.1
90°-120°	752.0	5.9
90°-150°	882.2	6.9
90°-180°	885.0	6.9
0°-180°	12750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3750	3750	3750	3750	3750	
5°	3711	3742	3742	3742	3750	353
15°	3555	3602	3617	3641	3656	1002
25°	3243	3298	3352	3399	3430	1494
35°	2822	2900	2994	3080	3118	1767
45°	2339	2425	2557	2666	2713	1804
55°	1801	1902	2058	2206	2261	1609
65°	1216	1333	1536	1731	1801	1203
75°	624	780	1052	1279	1372	660
85°	117	351	663	897	982	143
90°	0	210	507	725	819	5
95°	0	132	382	585	670	0
105°	0	47	210	366	429	0
115°	0	23	125	226	265	0
125°	0	16	78	148	172	0
135°	0	0	47	94	117	0
145°	0	0	23	55	62	0
155°	0	0	0	16	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°	3749.9	3749.9	3749.9	3749.9	3749.9
2.5°	3734.4	3757.7	3757.7	3734.4	3734.4
5°	3711.0	3742.2	3742.2	3742.2	3749.9
7.5°	3687.6	3726.6	3726.6	3726.6	3742.2
10°	3656.4	3695.4	3703.2	3703.2	3711.0
12.5°	3609.6	3656.4	3664.2	3672.0	3679.8
15°	3555.0	3601.8	3617.4	3640.8	3656.4
17.5°	3492.7	3547.2	3578.4	3601.8	3617.4
20°	3414.7	3469.3	3508.3	3539.5	3562.8
22.5°	3336.8	3383.5	3430.3	3469.3	3492.7
25°	3243.2	3297.8	3352.3	3399.1	3430.3
27.5°	3141.8	3204.2	3274.4	3329.0	3360.1
30°	3048.3	3110.7	3188.6	3258.8	3290.0
32.5°	2939.1	3009.3	3095.1	3165.2	3204.2
35°	2822.2	2900.2	2993.7	3079.5	3118.5
37.5°	2705.3	2783.2	2900.2	2985.9	3024.9
40°	2588.3	2666.3	2791.0	2884.6	2923.6
42.5°	2463.6	2541.5	2674.1	2775.4	2822.2
45°	2338.8	2424.6	2557.1	2666.3	2713.1
47.5°	2214.1	2299.9	2440.2	2557.1	2603.9
50°	2073.8	2167.3	2307.7	2440.2	2487.0
52.5°	1941.2	2034.8	2190.7	2323.3	2370.0
55°	1800.9	1902.3	2058.2	2206.3	2260.9
57.5°	1660.6	1761.9	1925.6	2081.6	2143.9
60°	1512.5	1621.6	1793.1	1956.8	2027.0
62.5°	1364.3	1481.3	1668.4	1839.9	1910.1
65°	1216.2	1333.1	1535.8	1730.7	1800.9
67.5°	1068.1	1192.8	1411.1	1613.8	1699.6
70°	919.9	1052.5	1286.4	1496.9	1582.6
72.5°	771.8	912.1	1169.4	1387.7	1473.5
75°	623.7	779.6	1052.5	1278.6	1372.1
77.5°	475.6	654.9	951.1	1177.2	1270.8
80°	343.0	545.7	842.0	1075.9	1169.4
82.5°	218.3	436.6	748.4	982.3	1075.9
85°	116.9	350.8	662.7	896.6	982.3
87.5°	39.0	272.9	576.9	810.8	896.6
90°	0.0	210.5	506.7	725.0	818.6
92.5°	0.0	163.7	444.4	654.9	740.6
95°	0.0	132.5	382.0	584.7	670.5
97.5°	0.0	109.1	335.2	522.3	600.3
100°	0.0	85.8	288.5	467.8	537.9
102.5°	0.0	70.2	249.5	413.2	483.4
105°	0.0	46.8	210.5	366.4	428.8
107.5°	0.0	39.0	179.3	327.4	382.0
110°	0.0	31.2	163.7	280.7	335.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.4	148.1	249.5	304.0
115°	0.0	23.4	124.7	226.1	265.1
117.5°	0.0	23.4	109.1	202.7	241.7
120°	0.0	15.6	101.3	179.3	218.3
122.5°	0.0	15.6	85.8	163.7	194.9
125°	0.0	15.6	78.0	148.1	171.5
127.5°	0.0	7.8	70.2	132.5	155.9
130°	0.0	7.8	62.4	116.9	140.3
132.5°	0.0	7.8	54.6	109.1	132.5
135°	0.0	0.0	46.8	93.6	116.9
137.5°	0.0	0.0	39.0	85.8	101.3
140°	0.0	0.0	31.2	70.2	93.6
142.5°	0.0	0.0	23.4	62.4	78.0
145°	0.0	0.0	23.4	54.6	62.4
147.5°	0.0	0.0	15.6	39.0	54.6
150°	0.0	0.0	7.8	31.2	39.0
152.5°	0.0	0.0	0.0	23.4	31.2
155°	0.0	0.0	0.0	15.6	23.4
157.5°	0.0	0.0	0.0	0.0	7.8
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	21.20	22.74	21.67	23.19	23.68	23.23	24.77	23.69	25.22	25.70
	3H	22.70	24.10	23.18	24.57	25.09	25.69	27.09	26.17	27.56	28.08
	4H	23.18	24.51	23.68	24.99	25.53	26.89	28.22	27.39	28.70	29.24
	6H	23.45	24.69	23.97	25.19	25.74	28.14	29.38	28.65	29.87	30.43
	8H	23.50	24.69	24.03	25.21	25.77	28.79	29.97	29.31	30.49	31.05
	12H	23.52	24.66	24.05	25.17	25.76	29.50	30.64	30.03	31.15	31.74
4H	2H	22.08	23.41	22.58	23.89	24.43	23.66	24.99	24.16	25.47	26.01
	3H	23.81	24.95	24.33	25.47	26.03	26.35	27.48	26.86	28.01	28.57
	4H	24.42	25.45	24.95	25.99	26.58	27.72	28.76	28.25	29.29	29.88
	6H	24.81	25.73	25.37	26.29	26.90	29.16	30.08	29.72	30.64	31.25
	8H	24.91	25.77	25.47	26.33	26.95	29.91	30.78	30.47	31.34	31.96
	12H	24.95	25.74	25.53	26.33	26.95	30.75	31.53	31.33	32.12	32.75
8H	4H	25.10	25.96	25.66	26.52	27.14	27.93	28.80	28.49	29.36	29.98
	6H	25.68	26.41	26.27	27.01	27.64	29.55	30.28	30.14	30.88	31.51
	8H	25.86	26.52	26.46	27.13	27.77	30.44	31.10	31.05	31.72	32.35
	12H	25.97	26.56	26.58	27.17	27.87	31.46	32.05	32.07	32.66	33.36
12H	4H	25.29	26.07	25.87	26.66	27.29	27.94	28.73	28.52	29.32	29.94
	6H	25.97	26.63	26.57	27.25	27.88	29.58	30.25	30.19	30.86	31.50
	8H	26.25	26.84	26.86	27.44	28.15	30.55	31.14	31.15	31.74	32.44