

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: P1357223

Luminaire Tested: 4ASL4-30VHE-3-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

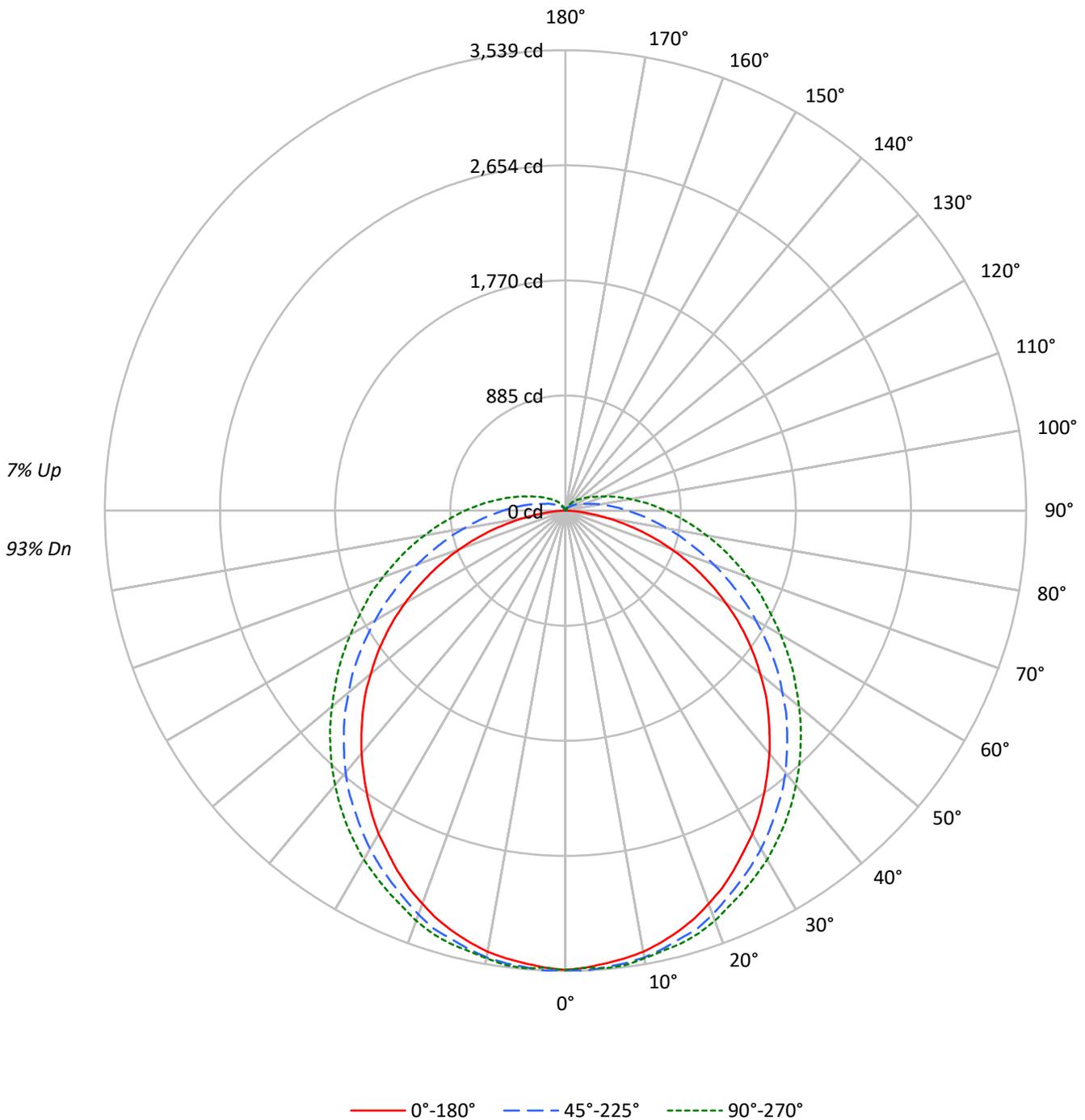
Test Method: LM-79-2019  
Report Number: P1357223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 4ASL4-30VHE-3-92765-UNV\_3000K  
Description: 4FT 3000 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: 12007.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 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<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°	28658	28658	28658
5°	28404	28119	28002
10°	28244	27573	27294
15°	27932	26895	26694
20°	27509	26244	26017
25°	27018	25429	25247
30°	26500	24720	24596
35°	25856	23920	23870
40°	25267	23185	23107
45°	24633	22297	22341
50°	23910	21345	21544
55°	23131	20434	20828
60°	22114	19372	20102
65°	20823	18349	19499
70°	19176	17336	19027
75°	16776	16410	18703
80°	13144	15714	18565
85°	7891	15549	18841

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24633 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.9	2.8
10°-20°	961.5	8.0
20°-30°	1453.7	12.1
30°-40°	1760.2	14.7
40°-50°	1848.7	15.4
50°-60°	1724.8	14.4
60°-70°	1425.4	11.9
70°-80°	1026.3	8.5
80°-90°	637.8	5.3
90°-100°	373.7	3.1
100°-110°	213.8	1.8
110°-120°	120.7	1.0
120°-130°	69.5	0.6
130°-140°	37.4	0.3
140°-150°	15.7	0.1
150°-160°	2.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2750.0	22.9
0°-40°	4510.2	37.6
0°-60°	8083.7	67.3
0°-90°	11173.3	93.1
90°-120°	708.2	5.9
90°-150°	830.8	6.9
90°-180°	834.0	6.9
0°-180°	12007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3531	3531	3531	3531	3531	
5°	3495	3524	3524	3524	3531	332
15°	3348	3392	3407	3429	3443	944
25°	3054	3106	3157	3201	3230	1407
35°	2658	2731	2819	2900	2937	1664
45°	2202	2283	2408	2511	2555	1699
55°	1696	1791	1938	2078	2129	1515
65°	1145	1256	1446	1630	1696	1133
75°	587	734	991	1204	1292	621
85°	110	330	624	844	925	135
90°	0	198	477	683	771	5
95°	0	125	360	551	631	0
105°	0	44	198	345	404	0
115°	0	22	118	213	250	0
125°	0	15	73	140	162	0
135°	0	0	44	88	110	0
145°	0	0	22	51	59	0
155°	0	0	0	15	22	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°	3531.4	3531.4	3531.4	3531.4	3531.4
2.5°	3516.7	3538.8	3538.8	3516.7	3516.7
5°	3494.7	3524.1	3524.1	3524.1	3531.4
7.5°	3472.7	3509.4	3509.4	3509.4	3524.1
10°	3443.3	3480.0	3487.4	3487.4	3494.7
12.5°	3399.3	3443.3	3450.7	3458.0	3465.3
15°	3347.9	3391.9	3406.6	3428.6	3443.3
17.5°	3289.1	3340.5	3369.9	3391.9	3406.6
20°	3215.7	3267.1	3303.8	3333.2	3355.2
22.5°	3142.3	3186.4	3230.4	3267.1	3289.1
25°	3054.2	3105.6	3157.0	3201.0	3230.4
27.5°	2958.8	3017.5	3083.6	3135.0	3164.3
30°	2870.7	2929.4	3002.8	3068.9	3098.3
32.5°	2767.9	2833.9	2914.7	2980.8	3017.5
35°	2657.7	2731.2	2819.3	2900.0	2936.7
37.5°	2547.6	2621.0	2731.2	2811.9	2848.6
40°	2437.5	2510.9	2628.4	2716.5	2753.2
42.5°	2320.0	2393.4	2518.2	2613.7	2657.7
45°	2202.5	2283.3	2408.1	2510.9	2555.0
47.5°	2085.1	2165.8	2298.0	2408.1	2452.2
50°	1952.9	2041.0	2173.2	2298.0	2342.0
52.5°	1828.1	1916.2	2063.1	2187.9	2231.9
55°	1696.0	1791.4	1938.2	2077.7	2129.1
57.5°	1563.8	1659.3	1813.4	1960.3	2019.0
60°	1424.3	1527.1	1688.6	1842.8	1908.9
62.5°	1284.8	1394.9	1571.2	1732.7	1798.7
65°	1145.3	1255.5	1446.3	1629.9	1696.0
67.5°	1005.8	1123.3	1328.9	1519.8	1600.5
70°	866.3	991.1	1211.4	1409.6	1490.4
72.5°	726.8	859.0	1101.3	1306.8	1387.6
75°	587.3	734.2	991.1	1204.1	1292.2
77.5°	447.9	616.7	895.7	1108.6	1196.7
80°	323.0	513.9	792.9	1013.2	1101.3
82.5°	205.6	411.1	704.8	925.1	1013.2
85°	110.1	330.4	624.1	844.3	925.1
87.5°	36.7	257.0	543.3	763.6	844.3
90°	0.0	198.2	477.2	682.8	770.9
92.5°	0.0	154.2	418.5	616.7	697.5
95°	0.0	124.8	359.7	550.6	631.4
97.5°	0.0	102.8	315.7	491.9	565.3
100°	0.0	80.8	271.6	440.5	506.6
102.5°	0.0	66.1	234.9	389.1	455.2
105°	0.0	44.1	198.2	345.1	403.8
107.5°	0.0	36.7	168.9	308.4	359.7
110°	0.0	29.4	154.2	264.3	315.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.0	139.5	234.9	286.3
115°	0.0	22.0	117.5	212.9	249.6
117.5°	0.0	22.0	102.8	190.9	227.6
120°	0.0	14.7	95.4	168.9	205.6
122.5°	0.0	14.7	80.8	154.2	183.5
125°	0.0	14.7	73.4	139.5	161.5
127.5°	0.0	7.3	66.1	124.8	146.8
130°	0.0	7.3	58.7	110.1	132.2
132.5°	0.0	7.3	51.4	102.8	124.8
135°	0.0	0.0	44.1	88.1	110.1
137.5°	0.0	0.0	36.7	80.8	95.4
140°	0.0	0.0	29.4	66.1	88.1
142.5°	0.0	0.0	22.0	58.7	73.4
145°	0.0	0.0	22.0	51.4	58.7
147.5°	0.0	0.0	14.7	36.7	51.4
150°	0.0	0.0	7.3	29.4	36.7
152.5°	0.0	0.0	0.0	22.0	29.4
155°	0.0	0.0	0.0	14.7	22.0
157.5°	0.0	0.0	0.0	0.0	7.3
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	20.99	22.53	21.46	22.99	23.47	23.02	24.56	23.49	25.01	25.50
	3H	22.49	23.89	22.97	24.36	24.88	25.48	26.88	25.96	27.35	27.87
	4H	22.97	24.30	23.47	24.78	25.32	26.68	28.01	27.18	28.49	29.03
	6H	23.24	24.48	23.76	24.98	25.53	27.93	29.17	28.45	29.67	30.22
	8H	23.30	24.48	23.82	25.00	25.56	28.58	29.77	29.10	30.29	30.84
	12H	23.31	24.45	23.84	24.96	25.55	29.29	30.43	29.82	30.94	31.53
4H	2H	21.87	23.20	22.37	23.68	24.22	23.45	24.78	23.95	25.27	25.80
	3H	23.60	24.74	24.12	25.26	25.82	26.14	27.27	26.66	27.80	28.36
	4H	24.21	25.25	24.74	25.78	26.37	27.51	28.55	28.04	29.08	29.68
	6H	24.60	25.52	25.16	26.08	26.69	28.95	29.87	29.51	30.43	31.04
	8H	24.70	25.56	25.26	26.12	26.74	29.71	30.57	30.27	31.13	31.75
	12H	24.74	25.53	25.33	26.12	26.74	30.54	31.32	31.12	31.91	32.54
8H	4H	24.89	25.75	25.45	26.31	26.93	27.73	28.59	28.29	29.15	29.77
	6H	25.47	26.20	26.06	26.80	27.43	29.34	30.07	29.93	30.67	31.30
	8H	25.65	26.31	26.25	26.92	27.56	30.23	30.89	30.84	31.51	32.15
	12H	25.76	26.35	26.37	26.96	27.66	31.25	31.84	31.86	32.45	33.15
12H	4H	25.08	25.87	25.66	26.46	27.08	27.73	28.52	28.32	29.11	29.73
	6H	25.76	26.42	26.37	27.04	27.67	29.38	30.04	29.98	30.65	31.29
	8H	26.04	26.63	26.65	27.23	27.94	30.34	30.93	30.95	31.53	32.24