

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: P1357102

Luminaire Tested: 4ASL4-10-1-92765-UNV\_2700K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357102  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 4ASL4-10-1-92765-UNV\_2700K  
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

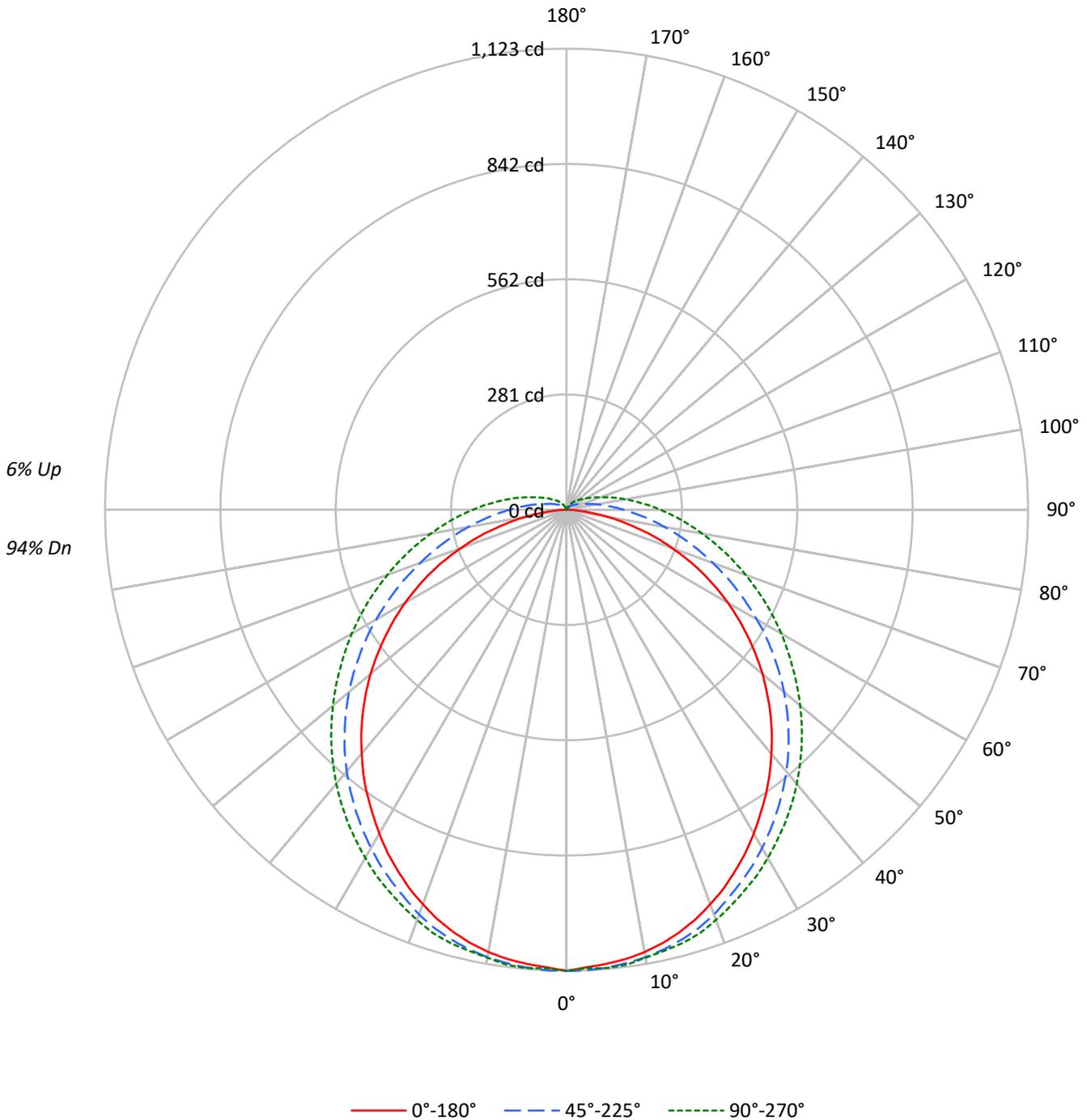
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3760.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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): 36  
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				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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	78	78	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	64	64	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	54	54	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	46	46	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	40	40	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	35	35	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	31	31	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	27	27	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	25	25	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	22	22	22	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9114	9114	9114
5°	9025	8931	8885
10°	8973	8749	8652
15°	8882	8556	8470
20°	8749	8336	8246
25°	8586	8074	8003
30°	8409	7834	7776
35°	8231	7588	7549
40°	8034	7340	7314
45°	7843	7069	7077
50°	7621	6788	6825
55°	7347	6469	6575
60°	7043	6136	6355
65°	6653	5786	6135
70°	6045	5418	5920
75°	5262	5090	5756
80°	4187	4810	5654
85°	2458	4622	5692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7843 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	2.8
10°-20°	305.3	8.1
20°-30°	461.6	12.3
30°-40°	558.0	14.8
40°-50°	586.6	15.6
50°-60°	546.5	14.5
60°-70°	449.0	11.9
70°-80°	318.7	8.5
80°-90°	192.1	5.1
90°-100°	107.6	2.9
100°-110°	59.6	1.6
110°-120°	33.2	0.9
120°-130°	19.1	0.5
130°-140°	10.5	0.3
140°-150°	4.6	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	873.3	23.2
0°-40°	1431.2	38.1
0°-60°	2564.3	68.2
0°-90°	3524.1	93.7
90°-120°	200.5	5.3
90°-150°	234.8	6.2
90°-180°	236.0	6.3
0°-180°	3760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1110	1120	1119	1118	1120	106
15°	1065	1079	1084	1089	1093	300
25°	971	988	1002	1016	1024	447
35°	846	868	894	917	929	529
45°	701	727	764	795	809	541
55°	539	569	614	654	672	482
65°	366	399	456	510	534	361
75°	184	231	307	371	398	197
85°	34	99	186	254	280	43
90°	0	58	138	203	227	1
95°	0	34	102	160	183	0
105°	0	13	53	97	114	0
115°	0	6	33	58	70	0
125°	0	4	20	38	44	0
135°	0	1	13	24	30	0
145°	1	0	5	14	18	1
155°	1	1	0	4	5	1
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°	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1115.5	1125.6	1123.1	1118.0	1118.0
5°	1110.4	1120.5	1119.3	1118.0	1120.5
7.5°	1104.0	1114.2	1114.2	1115.5	1118.0
10°	1093.9	1106.6	1106.6	1106.6	1107.8
12.5°	1081.2	1093.9	1096.4	1097.7	1100.2
15°	1064.6	1078.6	1083.7	1088.8	1092.6
17.5°	1045.6	1059.6	1068.5	1074.8	1081.2
20°	1022.7	1038.0	1049.4	1057.0	1063.4
22.5°	998.6	1013.8	1025.3	1036.7	1044.3
25°	970.6	988.4	1002.4	1016.4	1024.0
27.5°	942.7	960.5	978.2	994.8	1003.7
30°	910.9	931.2	951.6	970.6	979.5
32.5°	877.9	899.5	923.6	943.9	954.1
35°	846.1	867.7	894.4	917.3	928.7
37.5°	811.8	833.4	863.9	889.3	900.8
40°	775.0	799.1	832.1	858.8	871.5
42.5°	739.4	763.5	799.1	828.3	841.0
45°	701.3	726.7	763.5	795.3	809.3
47.5°	661.9	688.6	728.0	761.0	776.2
50°	622.5	650.5	691.1	726.7	741.9
52.5°	580.6	609.8	653.0	691.1	707.6
55°	538.7	569.2	613.6	654.3	672.1
57.5°	496.7	527.2	575.5	618.7	637.8
60°	453.6	485.3	534.9	581.9	603.5
62.5°	409.1	442.1	494.2	545.0	567.9
65°	365.9	398.9	456.1	509.5	533.6
67.5°	320.2	355.7	416.7	472.6	498.0
70°	273.1	313.8	378.6	438.3	463.7
72.5°	231.2	273.1	343.0	404.0	430.7
75°	184.2	231.2	307.4	371.0	397.7
77.5°	143.6	194.4	274.4	339.2	365.9
80°	102.9	158.8	242.7	308.7	335.4
82.5°	66.1	127.0	213.4	280.8	306.2
85°	34.3	99.1	185.5	254.1	279.5
87.5°	10.2	76.2	160.1	227.4	252.8
90°	0.0	58.4	138.5	203.3	227.4
92.5°	0.0	44.5	119.4	181.7	205.8
95°	0.0	34.3	101.6	160.1	182.9
97.5°	0.0	26.7	87.7	141.0	163.9
100°	0.0	21.6	75.0	124.5	146.1
102.5°	0.0	17.8	64.8	110.5	129.6
105°	0.0	12.7	53.4	96.6	114.3
107.5°	0.0	8.9	47.0	85.1	100.4
110°	0.0	7.6	41.9	73.7	88.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	6.4	36.8	66.1	78.8
115°	0.0	6.4	33.0	58.4	69.9
117.5°	0.0	5.1	27.9	52.1	62.3
120°	0.0	5.1	25.4	47.0	55.9
122.5°	0.0	3.8	22.9	41.9	50.8
125°	0.0	3.8	20.3	38.1	44.5
127.5°	0.0	2.5	17.8	34.3	40.7
130°	0.0	2.5	16.5	30.5	36.8
132.5°	0.0	1.3	15.2	27.9	33.0
135°	0.0	1.3	12.7	24.1	30.5
137.5°	0.0	0.0	11.4	21.6	26.7
140°	0.0	0.0	8.9	19.1	24.1
142.5°	1.3	0.0	7.6	16.5	20.3
145°	1.3	0.0	5.1	14.0	17.8
147.5°	1.3	1.3	3.8	11.4	14.0
150°	1.3	1.3	2.5	7.6	11.4
152.5°	1.3	1.3	1.3	5.1	7.6
155°	1.3	1.3	0.0	3.8	5.1
157.5°	1.3	1.3	0.0	1.3	2.5
160°	1.3	1.3	0.0	0.0	1.3
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	17.08	18.63	17.54	19.08	19.54	19.06	20.62	19.52	21.06	21.53
	3H	18.57	19.99	19.05	20.44	20.95	21.47	22.89	21.95	23.34	23.85
	4H	19.05	20.39	19.54	20.86	21.38	22.64	23.98	23.13	24.45	24.97
	6H	19.33	20.57	19.83	21.06	21.60	23.85	25.10	24.35	25.58	26.12
	8H	19.38	20.57	19.90	21.08	21.63	24.47	25.67	24.99	26.17	26.72
	12H	19.39	20.54	19.92	21.04	21.62	25.15	26.30	25.68	26.80	27.38
4H	2H	17.95	19.29	18.44	19.76	20.28	19.50	20.84	19.99	21.31	21.83
	3H	19.68	20.82	20.18	21.33	21.88	22.13	23.27	22.64	23.79	24.33
	4H	20.27	21.32	20.80	21.84	22.42	23.47	24.51	23.99	25.04	25.61
	6H	20.67	21.59	21.22	22.14	22.74	24.86	25.78	25.41	26.34	26.93
	8H	20.76	21.63	21.31	22.18	22.79	25.59	26.46	26.14	27.01	27.61
	12H	20.81	21.59	21.38	22.17	22.78	26.39	27.18	26.97	27.76	28.37
8H	4H	20.92	21.79	21.48	22.34	22.95	23.68	24.55	24.23	25.10	25.70
	6H	21.49	22.23	22.08	22.82	23.43	25.24	25.98	25.83	26.57	27.18
	8H	21.67	22.33	22.27	22.94	23.56	26.11	26.77	26.70	27.37	28.00
	12H	21.78	22.37	22.38	22.96	23.65	27.09	27.69	27.69	28.28	28.97
12H	4H	21.11	21.89	21.68	22.47	23.08	23.69	24.47	24.26	25.05	25.66
	6H	21.77	22.43	22.36	23.04	23.66	25.28	25.94	25.87	26.55	27.17
	8H	22.04	22.63	22.63	23.22	23.91	26.21	26.80	26.81	27.39	28.08