

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: P1357103

Luminaire Tested: 4ASL4-10-1-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357103  
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\_3000K  
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

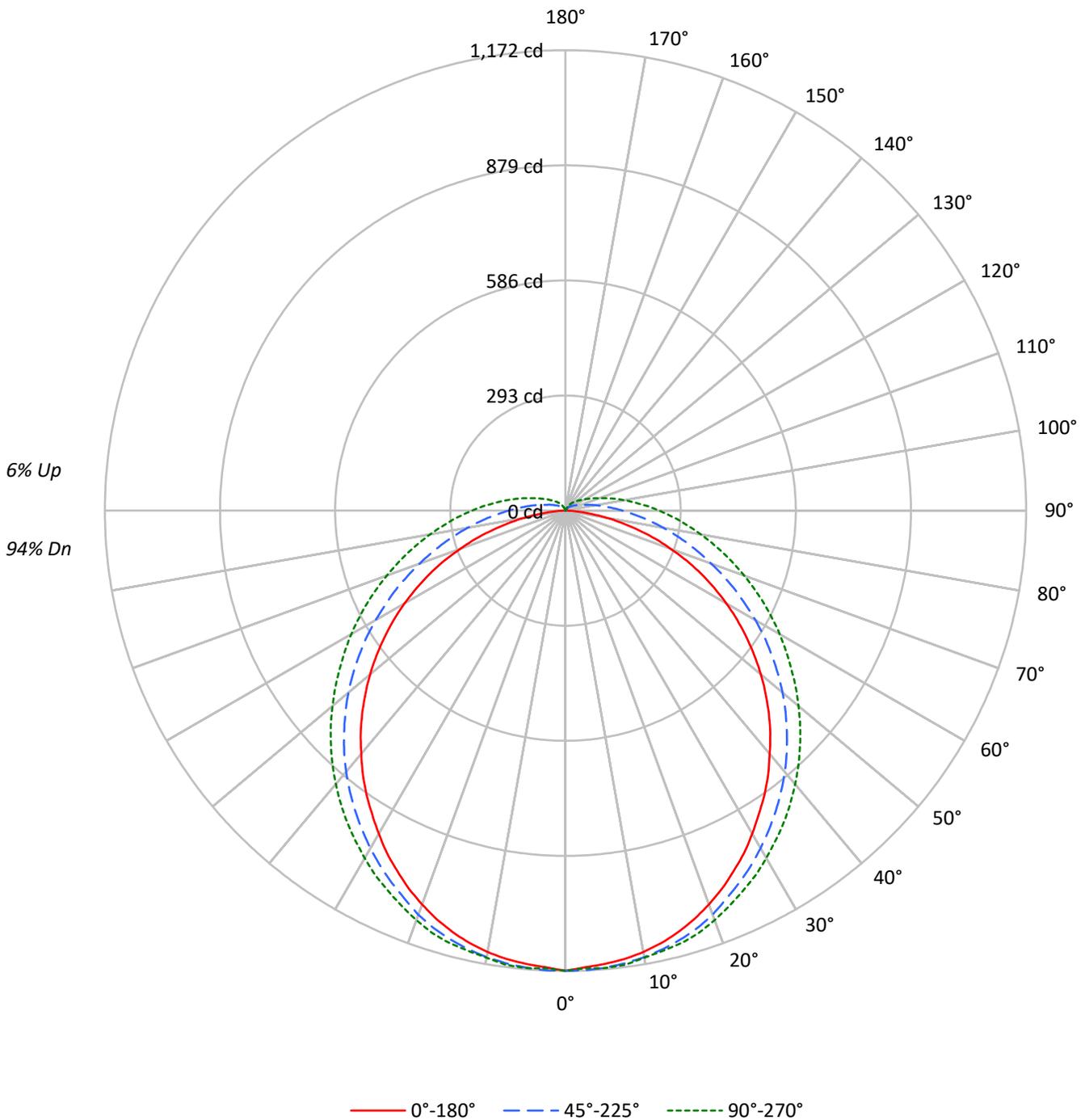
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3922.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 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

TEST NUMBER: P1357103  
CATALOG NUMBER: 4ASL4-10-1-92765-UNV\_3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P1357103  
 CATALOG NUMBER: 4ASL4-10-1-92765-UNV\_3000K

**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°	9507	9507	9507
5°	9413	9316	9268
10°	9359	9126	9025
15°	9265	8924	8835
20°	9126	8695	8601
25°	8956	8422	8348
30°	8771	8172	8111
35°	8586	7915	7874
40°	8380	7657	7630
45°	8181	7374	7381
50°	7949	7081	7119
55°	7664	6748	6858
60°	7346	6400	6629
65°	6940	6035	6399
70°	6306	5651	6175
75°	5490	5310	6004
80°	4366	5016	5898
85°	2566	4821	5937

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8181 cd/sqm



TEST NUMBER: P1357103  
 CATALOG NUMBER: 4ASL4-10-1-92765-UNV\_3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.9	2.8
10°-20°	318.4	8.1
20°-30°	481.5	12.3
30°-40°	582.0	14.8
40°-50°	611.9	15.6
50°-60°	570.0	14.5
60°-70°	468.3	11.9
70°-80°	332.4	8.5
80°-90°	200.4	5.1
90°-100°	112.3	2.9
100°-110°	62.2	1.6
110°-120°	34.7	0.9
120°-130°	20.0	0.5
130°-140°	10.9	0.3
140°-150°	4.8	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	910.9	23.2
0°-40°	1492.9	38.1
0°-60°	2674.8	68.2
0°-90°	3676.0	93.7
90°-120°	209.1	5.3
90°-150°	244.9	6.2
90°-180°	246.0	6.3
0°-180°	3922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1158	1169	1168	1166	1169	110
15°	1110	1125	1130	1136	1140	313
25°	1012	1031	1046	1060	1068	467
35°	883	905	933	957	969	552
45°	732	758	796	830	844	564
55°	562	594	640	682	701	502
65°	382	416	476	531	557	376
75°	192	241	321	387	415	205
85°	36	103	194	265	292	44
90°	0	61	144	212	237	1
95°	0	36	106	167	191	0
105°	0	13	56	101	119	0
115°	0	7	34	61	73	0
125°	0	4	21	40	46	0
135°	0	1	13	25	32	0
145°	1	0	5	15	19	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



TEST NUMBER: P1357103  
 CATALOG NUMBER: 4ASL4-10-1-92765-UNV\_3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1171.5	1171.5	1171.5	1171.5	1171.5
2.5°	1163.5	1174.1	1171.5	1166.2	1166.2
5°	1158.2	1168.8	1167.5	1166.2	1168.8
7.5°	1151.6	1162.2	1162.2	1163.5	1166.2
10°	1141.0	1154.2	1154.2	1154.2	1155.6
12.5°	1127.7	1141.0	1143.6	1145.0	1147.6
15°	1110.5	1125.1	1130.4	1135.7	1139.7
17.5°	1090.6	1105.2	1114.5	1121.1	1127.7
20°	1066.8	1082.7	1094.6	1102.6	1109.2
22.5°	1041.6	1057.5	1069.4	1081.4	1089.3
25°	1012.4	1031.0	1045.6	1060.2	1068.1
27.5°	983.3	1001.8	1020.4	1037.6	1046.9
30°	950.2	971.4	992.6	1012.4	1021.7
32.5°	915.7	938.2	963.4	984.6	995.2
35°	882.6	905.1	932.9	956.8	968.7
37.5°	846.8	869.3	901.1	927.6	939.6
40°	808.4	833.5	868.0	895.8	909.1
42.5°	771.3	796.4	833.5	864.0	877.3
45°	731.5	758.0	796.4	829.6	844.1
47.5°	690.4	718.3	759.3	793.8	809.7
50°	649.3	678.5	720.9	758.0	773.9
52.5°	605.6	636.1	681.1	720.9	738.1
55°	561.9	593.7	640.1	682.5	701.0
57.5°	518.1	550.0	600.3	645.4	665.2
60°	473.1	506.2	557.9	606.9	629.5
62.5°	426.7	461.2	515.5	568.5	592.4
65°	381.7	416.1	475.7	531.4	556.6
67.5°	333.9	371.1	434.7	493.0	519.5
70°	284.9	327.3	394.9	457.2	483.7
72.5°	241.2	284.9	357.8	421.4	449.2
75°	192.2	241.2	320.7	387.0	414.8
77.5°	149.7	202.8	286.2	353.8	381.7
80°	107.3	165.6	253.1	322.0	349.9
82.5°	68.9	132.5	222.6	292.9	319.4
85°	35.8	103.4	193.5	265.0	291.5
87.5°	10.6	79.5	167.0	237.2	263.7
90°	0.0	61.0	144.4	212.0	237.2
92.5°	0.0	46.4	124.6	189.5	214.7
95°	0.0	35.8	106.0	167.0	190.8
97.5°	0.0	27.8	91.4	147.1	170.9
100°	0.0	22.5	78.2	129.9	152.4
102.5°	0.0	18.6	67.6	115.3	135.2
105°	0.0	13.3	55.7	100.7	119.3
107.5°	0.0	9.3	49.0	88.8	104.7
110°	0.0	8.0	43.7	76.9	92.8



TEST NUMBER: P1357103  
 CATALOG NUMBER: 4ASL4-10-1-92765-UNV\_3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	6.6	38.4	68.9	82.2
115°	0.0	6.6	34.5	61.0	72.9
117.5°	0.0	5.3	29.2	54.3	64.9
120°	0.0	5.3	26.5	49.0	58.3
122.5°	0.0	4.0	23.9	43.7	53.0
125°	0.0	4.0	21.2	39.8	46.4
127.5°	0.0	2.7	18.6	35.8	42.4
130°	0.0	2.7	17.2	31.8	38.4
132.5°	0.0	1.3	15.9	29.2	34.5
135°	0.0	1.3	13.3	25.2	31.8
137.5°	0.0	0.0	11.9	22.5	27.8
140°	0.0	0.0	9.3	19.9	25.2
142.5°	1.3	0.0	8.0	17.2	21.2
145°	1.3	0.0	5.3	14.6	18.6
147.5°	1.3	1.3	4.0	11.9	14.6
150°	1.3	1.3	2.7	8.0	11.9
152.5°	1.3	1.3	1.3	5.3	8.0
155°	1.3	1.3	0.0	4.0	5.3
157.5°	1.3	1.3	0.0	1.3	2.7
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



TEST NUMBER: P1357103  
 CATALOG NUMBER: 4ASL4-10-1-92765-UNV\_3000K

**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	17.23	18.78	17.69	19.22	19.69	19.21	20.76	19.67	21.21	21.67
	3H	18.72	20.14	19.19	20.59	21.10	21.62	23.04	22.09	23.49	24.00
	4H	19.20	20.54	19.69	21.01	21.53	22.79	24.13	23.28	24.60	25.12
	6H	19.47	20.72	19.98	21.21	21.74	24.00	25.24	24.50	25.73	26.27
	8H	19.53	20.72	20.04	21.23	21.77	24.62	25.81	25.13	26.32	26.86
	12H	19.54	20.69	20.06	21.19	21.76	25.30	26.45	25.82	26.95	27.52
4H	2H	18.09	19.43	18.59	19.90	20.43	19.65	20.99	20.14	21.46	21.98
	3H	19.82	20.96	20.33	21.48	22.02	22.28	23.42	22.78	23.93	24.48
	4H	20.42	21.47	20.95	21.99	22.57	23.61	24.66	24.14	25.18	25.76
	6H	20.82	21.74	21.36	22.29	22.88	25.01	25.93	25.56	26.48	27.08
	8H	20.91	21.78	21.46	22.33	22.93	25.74	26.60	26.29	27.15	27.76
	12H	20.95	21.74	21.53	22.32	22.93	26.54	27.33	27.11	27.91	28.52
8H	4H	21.07	21.94	21.62	22.49	23.09	23.83	24.69	24.38	25.24	25.85
	6H	21.64	22.37	22.22	22.97	23.58	25.39	26.12	25.97	26.72	27.33
	8H	21.82	22.48	22.41	23.08	23.71	26.25	26.91	26.85	27.52	28.14
	12H	21.93	22.52	22.52	23.11	23.80	27.24	27.83	27.84	28.42	29.12
12H	4H	21.25	22.04	21.83	22.62	23.23	23.83	24.62	24.41	25.20	25.81
	6H	21.91	22.58	22.51	23.18	23.81	25.42	26.09	26.02	26.69	27.32
	8H	22.18	22.78	22.78	23.37	24.06	26.36	26.95	26.95	27.54	28.23