

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: P1357118

Luminaire Tested: 4ASL4-10HE-2-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 4ASL4-10HE-2-92765-UNV\_3000K  
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

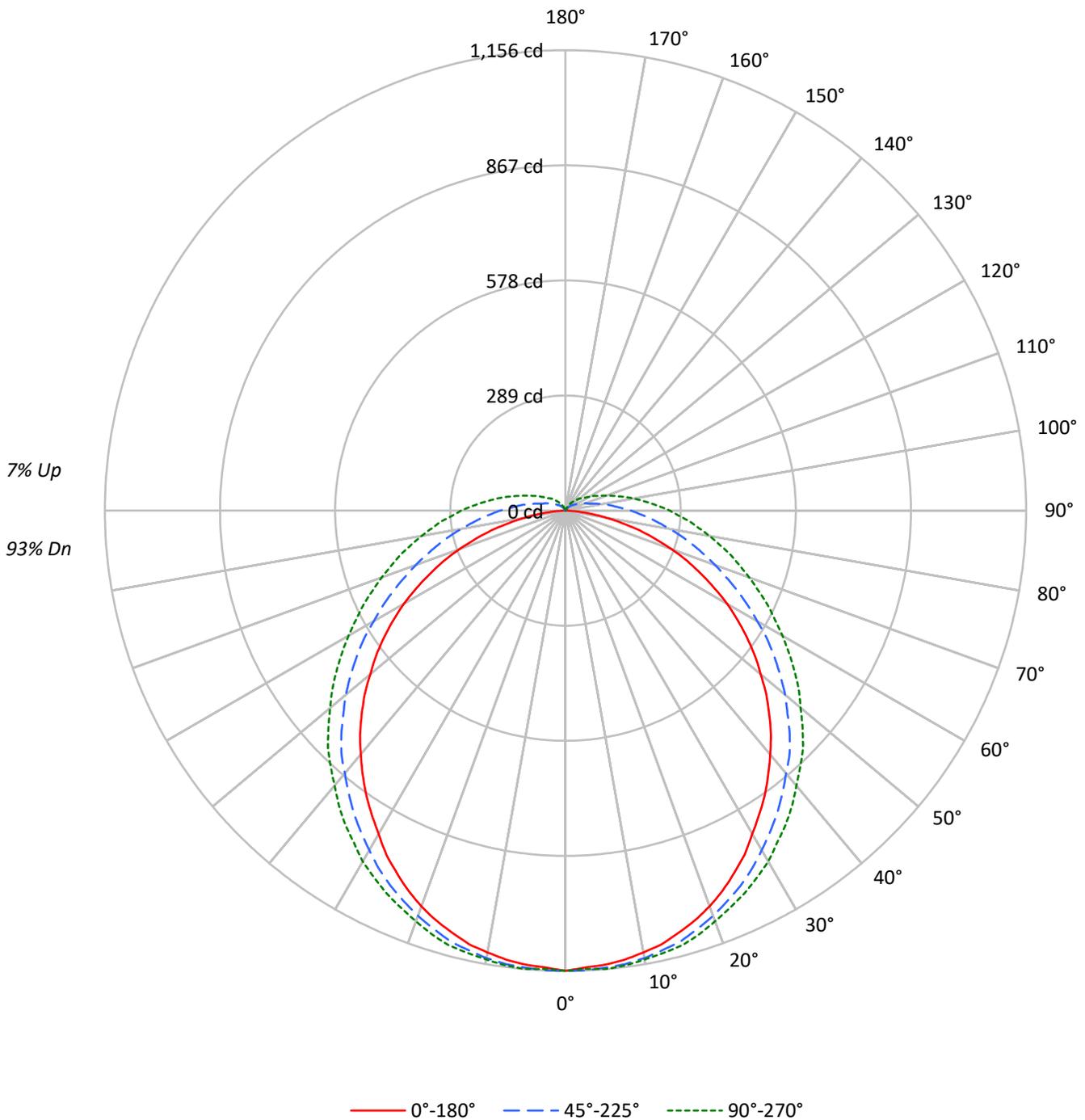
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3967.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 35.1  
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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.6	2.8
10°-20°	315.0	7.9
20°-30°	477.3	12.0
30°-40°	577.3	14.6
40°-50°	608.6	15.3
50°-60°	568.0	14.3
60°-70°	469.0	11.8
70°-80°	340.2	8.6
80°-90°	214.9	5.4
90°-100°	128.3	3.2
100°-110°	73.5	1.9
110°-120°	41.8	1.1
120°-130°	23.8	0.6
130°-140°	12.9	0.3
140°-150°	5.7	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<b>0°-30°</b>	<b>901.9</b>	<b>22.7</b>
<b>0°-40°</b>	<b>1479.2</b>	<b>37.3</b>
<b>0°-60°</b>	<b>2655.9</b>	<b>66.9</b>
<b>0°-90°</b>	<b>3680.0</b>	<b>92.8</b>
<b>90°-120°</b>	<b>243.6</b>	<b>6.1</b>
<b>90°-150°</b>	<b>286.0</b>	<b>7.2</b>
<b>90°-180°</b>	<b>287.0</b>	<b>7.2</b>
<b>0°-180°</b>	<b>3967.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1145	1156	1152	1152	1156	109
15°	1097	1112	1119	1123	1130	310
25°	1003	1018	1039	1054	1061	462
35°	872	894	927	952	963	545
45°	723	752	796	828	843	558
55°	556	589	640	683	701	497
65°	374	414	476	534	560	372
75°	193	244	331	400	429	203
85°	36	113	211	283	312	44
90°	0	69	164	233	262	1
95°	0	44	124	189	214	0
105°	0	14	69	120	138	0
115°	0	7	40	73	87	0
125°	0	4	25	47	54	0
135°	0	0	14	29	36	0
145°	0	0	7	18	22	0
155°	0	0	0	4	7	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°	1155.5	1155.5	1155.5	1155.5	1155.5
2.5°	1148.3	1159.2	1155.5	1151.9	1151.9
5°	1144.6	1155.5	1151.9	1151.9	1155.5
7.5°	1137.4	1148.3	1148.3	1148.3	1151.9
10°	1126.5	1141.0	1141.0	1141.0	1144.6
12.5°	1115.6	1126.5	1130.1	1133.7	1137.4
15°	1097.4	1111.9	1119.2	1122.8	1130.1
17.5°	1079.2	1090.1	1101.0	1111.9	1115.6
20°	1057.4	1072.0	1082.9	1093.8	1097.4
22.5°	1032.0	1046.5	1061.1	1072.0	1079.2
25°	1002.9	1017.5	1039.3	1053.8	1061.1
27.5°	973.9	988.4	1013.8	1032.0	1039.3
30°	937.5	959.3	984.8	1006.6	1017.5
32.5°	904.8	926.6	955.7	981.1	988.4
35°	872.1	893.9	926.6	952.1	963.0
37.5°	835.8	861.2	893.9	923.0	933.9
40°	799.4	824.9	861.2	893.9	901.2
42.5°	763.1	788.5	832.1	861.2	872.1
45°	723.1	752.2	795.8	828.5	843.0
47.5°	683.2	712.2	755.8	792.2	806.7
50°	639.5	672.3	719.5	755.8	770.4
52.5°	599.6	632.3	679.5	719.5	737.7
55°	556.0	588.7	639.5	683.2	701.3
57.5°	512.4	545.1	599.6	646.8	665.0
60°	468.8	501.5	556.0	610.5	628.6
62.5°	421.5	457.9	516.0	570.5	592.3
65°	374.3	414.3	476.0	534.2	559.6
67.5°	330.7	370.6	436.1	501.5	523.3
70°	283.4	327.0	399.7	465.1	490.6
72.5°	236.2	283.4	363.4	432.4	457.9
75°	192.6	243.5	330.7	399.7	428.8
77.5°	145.4	207.1	298.0	370.6	396.1
80°	105.4	170.8	265.3	341.6	367.0
82.5°	69.0	138.1	236.2	312.5	337.9
85°	36.3	112.6	210.8	283.4	312.5
87.5°	10.9	87.2	185.3	258.0	283.4
90°	0.0	69.0	163.5	232.6	261.6
92.5°	0.0	54.5	141.7	210.8	236.2
95°	0.0	43.6	123.5	189.0	214.4
97.5°	0.0	36.3	109.0	170.8	192.6
100°	0.0	29.1	94.5	152.6	174.4
102.5°	0.0	21.8	79.9	134.5	156.3
105°	0.0	14.5	69.0	119.9	138.1
107.5°	0.0	10.9	58.1	105.4	123.5
110°	0.0	10.9	54.5	90.8	109.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.3	47.2	83.6	98.1
115°	0.0	7.3	40.0	72.7	87.2
117.5°	0.0	7.3	36.3	65.4	79.9
120°	0.0	7.3	32.7	58.1	69.0
122.5°	0.0	3.6	29.1	50.9	61.8
125°	0.0	3.6	25.4	47.2	54.5
127.5°	0.0	3.6	21.8	43.6	50.9
130°	0.0	3.6	21.8	40.0	47.2
132.5°	0.0	0.0	18.2	36.3	43.6
135°	0.0	0.0	14.5	29.1	36.3
137.5°	0.0	0.0	14.5	25.4	32.7
140°	0.0	0.0	10.9	25.4	29.1
142.5°	0.0	0.0	7.3	21.8	25.4
145°	0.0	0.0	7.3	18.2	21.8
147.5°	0.0	0.0	3.6	14.5	18.2
150°	0.0	0.0	3.6	10.9	14.5
152.5°	0.0	0.0	0.0	7.3	10.9
155°	0.0	0.0	0.0	3.6	7.3
157.5°	0.0	0.0	0.0	0.0	3.6
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	17.09	18.62	17.56	19.08	19.57	19.15	20.68	19.62	21.14	21.63
	3H	18.59	19.99	19.08	20.46	20.99	21.60	23.00	22.08	23.47	24.00
	4H	19.07	20.40	19.58	20.89	21.43	22.81	24.14	23.31	24.62	25.17
	6H	19.35	20.58	19.87	21.08	21.64	24.08	25.32	24.60	25.82	26.38
	8H	19.40	20.59	19.93	21.11	21.68	24.74	25.92	25.27	26.45	27.01
	12H	19.42	20.55	19.95	21.07	21.67	25.47	26.61	26.01	27.12	27.72
4H	2H	17.97	19.30	18.48	19.78	20.33	19.58	20.91	20.09	21.39	21.94
	3H	19.71	20.84	20.23	21.37	21.94	22.26	23.39	22.78	23.92	24.49
	4H	20.32	21.36	20.86	21.90	22.50	23.64	24.68	24.18	25.22	25.82
	6H	20.72	21.64	21.28	22.20	22.82	25.11	26.03	25.67	26.60	27.21
	8H	20.82	21.68	21.38	22.25	22.87	25.88	26.74	26.44	27.31	27.93
	12H	20.87	21.65	21.45	22.24	22.87	26.73	27.52	27.32	28.11	28.74
8H	4H	21.01	21.88	21.58	22.44	23.07	23.86	24.73	24.43	25.29	25.92
	6H	21.60	22.33	22.20	22.94	23.57	25.51	26.24	26.11	26.85	27.48
	8H	21.79	22.45	22.40	23.07	23.71	26.42	27.08	27.03	27.70	28.34
	12H	21.91	22.50	22.52	23.11	23.82	27.46	28.05	28.07	28.66	29.37
12H	4H	21.22	22.00	21.80	22.59	23.22	23.87	24.66	24.46	25.25	25.88
	6H	21.91	22.57	22.51	23.19	23.83	25.55	26.21	26.16	26.83	27.47
	8H	22.19	22.78	22.80	23.39	24.10	26.53	27.12	27.14	27.73	28.44