

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: P1357122

Luminaire Tested: 4ASL4-10HE-2-92765-UNV\_6500K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357122  
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\_6500K  
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

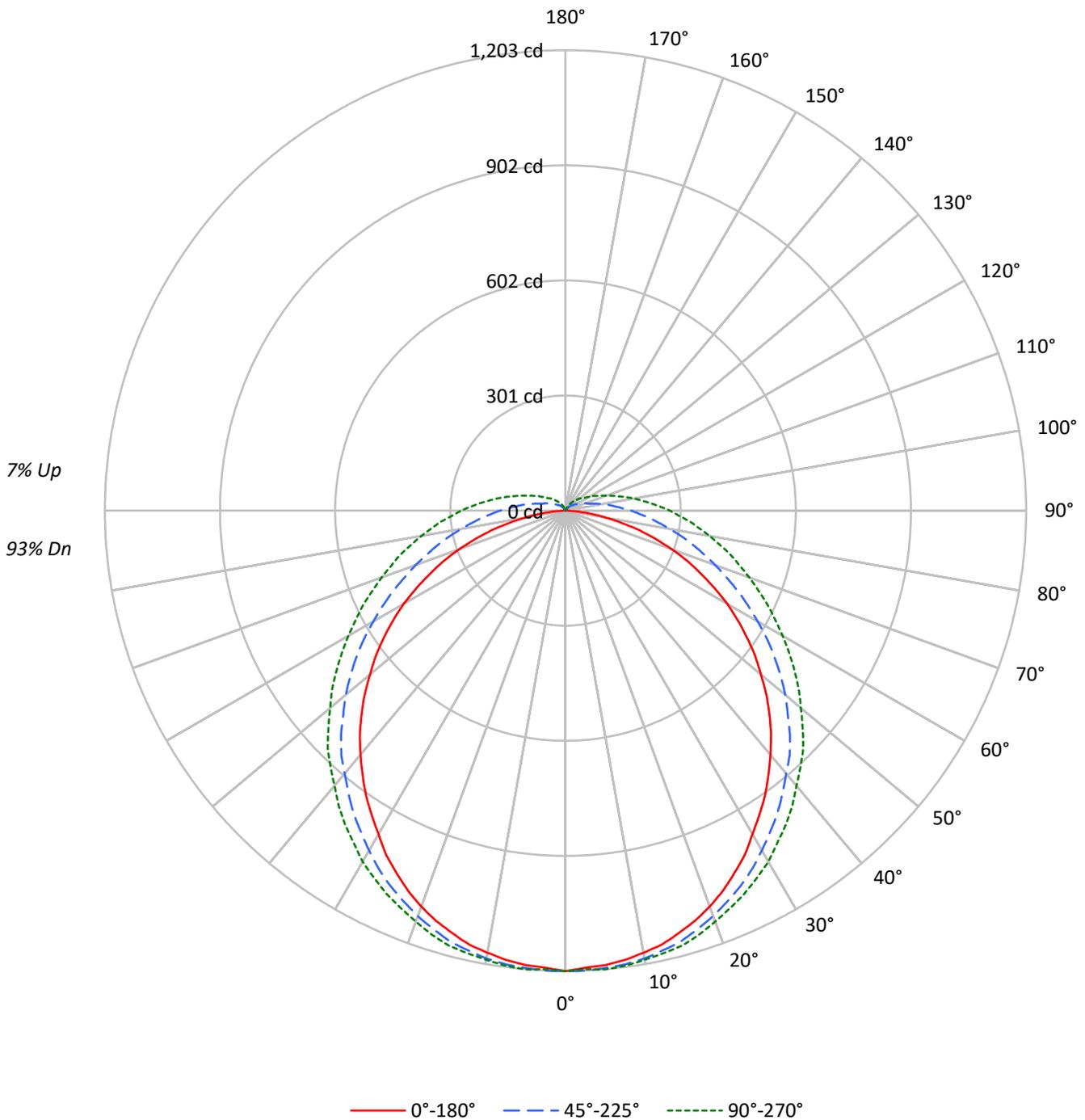
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4131.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 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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**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	95	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	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	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

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

	0°	45°	90°
0°	9765	9765	9765
5°	9688	9571	9542
10°	9622	9395	9310
15°	9534	9202	9123
20°	9419	8957	8861
25°	9239	8717	8635
30°	9012	8442	8411
35°	8836	8186	8151
40°	8630	7911	7876
45°	8422	7673	7676
50°	8154	7359	7380
55°	7897	7021	7144
60°	7579	6642	6893
65°	7087	6289	6699
70°	6534	5956	6521
75°	5730	5701	6463
80°	4464	5474	6443
85°	2709	5469	6627

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8422 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	2.8
10°-20°	328.0	7.9
20°-30°	497.0	12.0
30°-40°	601.2	14.6
40°-50°	633.8	15.3
50°-60°	591.5	14.3
60°-70°	488.4	11.8
70°-80°	354.3	8.6
80°-90°	223.8	5.4
90°-100°	133.6	3.2
100°-110°	76.6	1.9
110°-120°	43.5	1.1
120°-130°	24.8	0.6
130°-140°	13.4	0.3
140°-150°	5.9	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	939.2	22.7
0°-40°	1540.4	37.3
0°-60°	2765.6	66.9
0°-90°	3832.1	92.8
90°-120°	253.7	6.1
90°-150°	297.8	7.2
90°-180°	299.0	7.2
0°-180°	4131.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1192	1203	1200	1200	1203	113
15°	1143	1158	1166	1169	1177	322
25°	1044	1060	1082	1097	1105	481
35°	908	931	965	991	1003	568
45°	753	783	829	863	878	581
55°	579	613	666	711	730	517
65°	390	431	496	556	583	387
75°	201	254	344	416	446	211
85°	38	117	220	295	325	46
90°	0	72	170	242	272	2
95°	0	45	129	197	223	0
105°	0	15	72	125	144	0
115°	0	8	42	76	91	0
125°	0	4	26	49	57	0
135°	0	0	15	30	38	0
145°	0	0	8	19	23	0
155°	0	0	0	4	8	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°	1203.3	1203.3	1203.3	1203.3	1203.3
2.5°	1195.7	1207.1	1203.3	1199.5	1199.5
5°	1192.0	1203.3	1199.5	1199.5	1203.3
7.5°	1184.4	1195.7	1195.7	1195.7	1199.5
10°	1173.0	1188.2	1188.2	1188.2	1192.0
12.5°	1161.7	1173.0	1176.8	1180.6	1184.4
15°	1142.8	1157.9	1165.5	1169.3	1176.8
17.5°	1123.9	1135.2	1146.6	1157.9	1161.7
20°	1101.1	1116.3	1127.6	1139.0	1142.8
22.5°	1074.7	1089.8	1104.9	1116.3	1123.9
25°	1044.4	1059.5	1082.2	1097.4	1104.9
27.5°	1014.1	1029.3	1055.7	1074.7	1082.2
30°	976.3	999.0	1025.5	1048.2	1059.5
32.5°	942.2	964.9	995.2	1021.7	1029.3
35°	908.2	930.9	964.9	991.4	1002.8
37.5°	870.3	896.8	930.9	961.1	972.5
40°	832.5	859.0	896.8	930.9	938.4
42.5°	794.6	821.1	866.5	896.8	908.2
45°	753.0	783.3	828.7	862.8	877.9
47.5°	711.4	741.7	787.1	824.9	840.1
50°	666.0	700.0	749.2	787.1	802.2
52.5°	624.4	658.4	707.6	749.2	768.2
55°	579.0	613.0	666.0	711.4	730.3
57.5°	533.5	567.6	624.4	673.6	692.5
60°	488.1	522.2	579.0	635.7	654.6
62.5°	438.9	476.8	537.3	594.1	616.8
65°	389.8	431.4	495.7	556.3	582.7
67.5°	344.3	386.0	454.1	522.2	544.9
70°	295.2	340.6	416.2	484.4	510.8
72.5°	246.0	295.2	378.4	450.3	476.8
75°	200.6	253.5	344.3	416.2	446.5
77.5°	151.4	215.7	310.3	386.0	412.5
80°	109.7	177.8	276.2	355.7	382.2
82.5°	71.9	143.8	246.0	325.4	351.9
85°	37.8	117.3	219.5	295.2	325.4
87.5°	11.4	90.8	193.0	268.7	295.2
90°	0.0	71.9	170.3	242.2	272.4
92.5°	0.0	56.8	147.6	219.5	246.0
95°	0.0	45.4	128.7	196.8	223.3
97.5°	0.0	37.8	113.5	177.8	200.6
100°	0.0	30.3	98.4	158.9	181.6
102.5°	0.0	22.7	83.2	140.0	162.7
105°	0.0	15.1	71.9	124.9	143.8
107.5°	0.0	11.4	60.5	109.7	128.7
110°	0.0	11.4	56.8	94.6	113.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.6	49.2	87.0	102.2
115°	0.0	7.6	41.6	75.7	90.8
117.5°	0.0	7.6	37.8	68.1	83.2
120°	0.0	7.6	34.1	60.5	71.9
122.5°	0.0	3.8	30.3	53.0	64.3
125°	0.0	3.8	26.5	49.2	56.8
127.5°	0.0	3.8	22.7	45.4	53.0
130°	0.0	3.8	22.7	41.6	49.2
132.5°	0.0	0.0	18.9	37.8	45.4
135°	0.0	0.0	15.1	30.3	37.8
137.5°	0.0	0.0	15.1	26.5	34.1
140°	0.0	0.0	11.4	26.5	30.3
142.5°	0.0	0.0	7.6	22.7	26.5
145°	0.0	0.0	7.6	18.9	22.7
147.5°	0.0	0.0	3.8	15.1	18.9
150°	0.0	0.0	3.8	11.4	15.1
152.5°	0.0	0.0	0.0	7.6	11.4
155°	0.0	0.0	0.0	3.8	7.6
157.5°	0.0	0.0	0.0	0.0	3.8
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	17.23	18.76	17.70	19.22	19.72	19.29	20.82	19.76	21.28	21.78
	3H	18.73	20.13	19.22	20.60	21.13	21.74	23.14	22.23	23.61	24.14
	4H	19.21	20.54	19.72	21.03	21.57	22.95	24.28	23.46	24.77	25.31
	6H	19.49	20.72	20.01	21.22	21.78	24.22	25.46	24.74	25.96	26.52
	8H	19.54	20.73	20.07	21.25	21.82	24.88	26.07	25.41	26.59	27.16
	12H	19.56	20.69	20.09	21.21	21.81	25.61	26.75	26.15	27.26	27.86
4H	2H	18.11	19.44	18.62	19.92	20.47	19.72	21.05	20.23	21.54	22.08
	3H	19.85	20.98	20.37	21.51	22.08	22.40	23.53	22.92	24.06	24.63
	4H	20.46	21.50	21.00	22.04	22.64	23.78	24.82	24.32	25.36	25.96
	6H	20.86	21.78	21.42	22.34	22.96	25.25	26.17	25.81	26.74	27.35
	8H	20.96	21.82	21.52	22.39	23.01	26.02	26.88	26.59	27.45	28.07
	12H	21.01	21.79	21.59	22.38	23.01	26.88	27.66	27.46	28.25	28.88
8H	4H	21.16	22.02	21.72	22.58	23.21	24.01	24.87	24.57	25.43	26.06
	6H	21.74	22.47	22.34	23.08	23.71	25.65	26.38	26.25	26.99	27.62
	8H	21.93	22.59	22.54	23.21	23.85	26.56	27.22	27.17	27.84	28.48
	12H	22.05	22.64	22.66	23.25	23.96	27.60	28.19	28.21	28.80	29.51
12H	4H	21.36	22.14	21.94	22.73	23.36	24.01	24.80	24.60	25.39	26.02
	6H	22.05	22.71	22.65	23.33	23.97	25.69	26.35	26.30	26.97	27.61
	8H	22.33	22.92	22.94	23.53	24.24	26.67	27.26	27.28	27.87	28.58