

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: P1357119

Luminaire Tested: 4ASL4-10HE-2-92765-UNV\_3500K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357119  
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\_3500K  
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

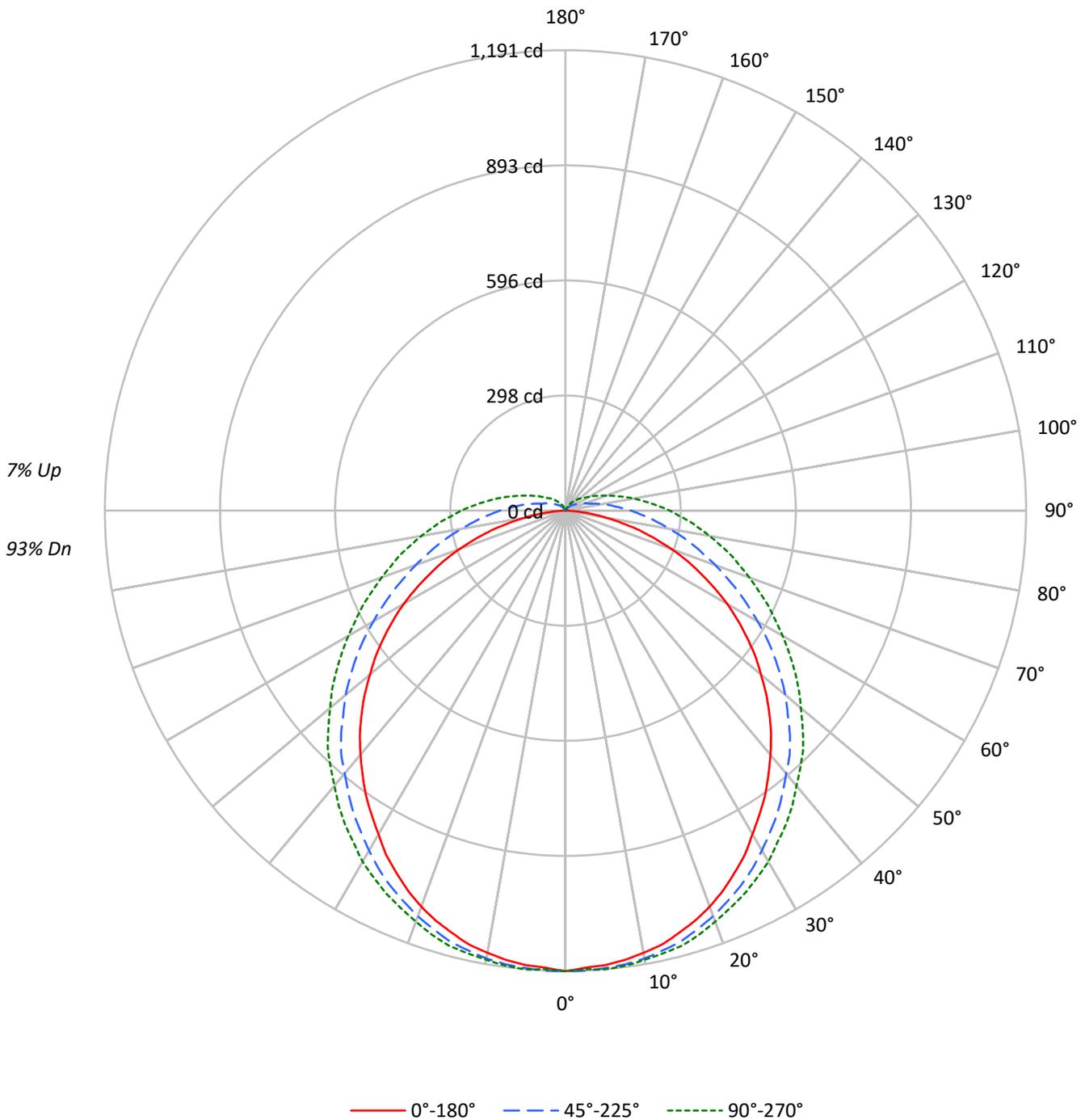
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4090.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 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

TEST NUMBER: P1357119  
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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	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°	9669	9669	9669
5°	9591	9476	9447
10°	9527	9301	9217
15°	9439	9110	9032
20°	9326	8868	8773
25°	9147	8631	8550
30°	8923	8358	8327
35°	8748	8105	8070
40°	8544	7832	7798
45°	8338	7597	7600
50°	8073	7286	7306
55°	7818	6952	7074
60°	7504	6576	6825
65°	7016	6227	6634
70°	6468	5898	6457
75°	5673	5644	6399
80°	4419	5420	6379
85°	2688	5414	6562

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8338 cd/sqm



TEST NUMBER: P1357119  
 CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.0	2.8
10°-20°	324.8	7.9
20°-30°	492.1	12.0
30°-40°	595.2	14.6
40°-50°	627.5	15.3
50°-60°	585.6	14.3
60°-70°	483.5	11.8
70°-80°	350.7	8.6
80°-90°	221.6	5.4
90°-100°	132.3	3.2
100°-110°	75.8	1.9
110°-120°	43.1	1.1
120°-130°	24.6	0.6
130°-140°	13.3	0.3
140°-150°	5.8	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>929.9</b>	<b>22.7</b>
<b>0°-40°</b>	<b>1525.1</b>	<b>37.3</b>
<b>0°-60°</b>	<b>2738.2</b>	<b>66.9</b>
<b>0°-90°</b>	<b>3794.1</b>	<b>92.8</b>
90°-120°	251.2	6.1
90°-150°	294.9	7.2
<b>90°-180°</b>	<b>296.0</b>	<b>7.2</b>
<b>0°-180°</b>	<b>4090.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1180	1191	1188	1188	1191	112
15°	1131	1146	1154	1158	1165	319
25°	1034	1049	1072	1086	1094	476
35°	899	922	955	982	993	562
45°	746	776	820	854	869	575
55°	573	607	659	704	723	512
65°	386	427	491	551	577	383
75°	199	251	341	412	442	209
85°	38	116	217	292	322	46
90°	0	71	169	240	270	2
95°	0	45	127	195	221	0
105°	0	15	71	124	142	0
115°	0	8	41	75	90	0
125°	0	4	26	49	56	0
135°	0	0	15	30	38	0
145°	0	0	8	19	22	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



TEST NUMBER: P1357119

CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1191.4	1191.4	1191.4	1191.4	1191.4
2.5°	1183.9	1195.1	1191.4	1187.6	1187.6
5°	1180.1	1191.4	1187.6	1187.6	1191.4
7.5°	1172.6	1183.9	1183.9	1183.9	1187.6
10°	1161.4	1176.4	1176.4	1176.4	1180.1
12.5°	1150.2	1161.4	1165.1	1168.9	1172.6
15°	1131.4	1146.4	1153.9	1157.7	1165.1
17.5°	1112.7	1123.9	1135.2	1146.4	1150.2
20°	1090.2	1105.2	1116.4	1127.7	1131.4
22.5°	1064.0	1079.0	1094.0	1105.2	1112.7
25°	1034.0	1049.0	1071.5	1086.5	1094.0
27.5°	1004.1	1019.0	1045.3	1064.0	1071.5
30°	966.6	989.1	1015.3	1037.8	1049.0
32.5°	932.9	955.3	985.3	1011.5	1019.0
35°	899.2	921.6	955.3	981.6	992.8
37.5°	861.7	887.9	921.6	951.6	962.8
40°	824.2	850.4	887.9	921.6	929.1
42.5°	786.8	813.0	857.9	887.9	899.2
45°	745.5	775.5	820.5	854.2	869.2
47.5°	704.3	734.3	779.3	816.7	831.7
50°	659.4	693.1	741.8	779.3	794.2
52.5°	618.2	651.9	700.6	741.8	760.5
55°	573.2	606.9	659.4	704.3	723.1
57.5°	528.3	562.0	618.2	666.9	685.6
60°	483.3	517.0	573.2	629.4	648.1
62.5°	434.6	472.1	532.0	588.2	610.7
65°	385.9	427.1	490.8	550.7	577.0
67.5°	340.9	382.1	449.6	517.0	539.5
70°	292.2	337.2	412.1	479.5	505.8
72.5°	243.5	292.2	374.6	445.8	472.1
75°	198.6	251.0	340.9	412.1	442.1
77.5°	149.9	213.5	307.2	382.1	408.4
80°	108.6	176.1	273.5	352.2	378.4
82.5°	71.2	142.4	243.5	322.2	348.4
85°	37.5	116.1	217.3	292.2	322.2
87.5°	11.2	89.9	191.1	266.0	292.2
90°	0.0	71.2	168.6	239.8	269.7
92.5°	0.0	56.2	146.1	217.3	243.5
95°	0.0	45.0	127.4	194.8	221.0
97.5°	0.0	37.5	112.4	176.1	198.6
100°	0.0	30.0	97.4	157.4	179.8
102.5°	0.0	22.5	82.4	138.6	161.1
105°	0.0	15.0	71.2	123.6	142.4
107.5°	0.0	11.2	59.9	108.6	127.4
110°	0.0	11.2	56.2	93.7	112.4



TEST NUMBER: P1357119

CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.5	48.7	86.2	101.2
115°	0.0	7.5	41.2	74.9	89.9
117.5°	0.0	7.5	37.5	67.4	82.4
120°	0.0	7.5	33.7	59.9	71.2
122.5°	0.0	3.7	30.0	52.5	63.7
125°	0.0	3.7	26.2	48.7	56.2
127.5°	0.0	3.7	22.5	45.0	52.5
130°	0.0	3.7	22.5	41.2	48.7
132.5°	0.0	0.0	18.7	37.5	45.0
135°	0.0	0.0	15.0	30.0	37.5
137.5°	0.0	0.0	15.0	26.2	33.7
140°	0.0	0.0	11.2	26.2	30.0
142.5°	0.0	0.0	7.5	22.5	26.2
145°	0.0	0.0	7.5	18.7	22.5
147.5°	0.0	0.0	3.7	15.0	18.7
150°	0.0	0.0	3.7	11.2	15.0
152.5°	0.0	0.0	0.0	7.5	11.2
155°	0.0	0.0	0.0	3.7	7.5
157.5°	0.0	0.0	0.0	0.0	3.7
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	17.19	18.73	17.67	19.19	19.68	19.25	20.79	19.73	21.25	21.74
	3H	18.70	20.10	19.18	20.57	21.10	21.71	23.11	22.19	23.58	24.11
	4H	19.18	20.51	19.68	20.99	21.54	22.92	24.24	23.42	24.73	25.27
	6H	19.45	20.69	19.97	21.19	21.75	24.19	25.42	24.71	25.92	26.48
	8H	19.51	20.69	20.04	21.22	21.78	24.85	26.03	25.38	26.56	27.12
	12H	19.52	20.66	20.06	21.18	21.77	25.57	26.71	26.11	27.23	27.83
4H	2H	18.07	19.40	18.58	19.89	20.43	19.69	21.01	20.19	21.50	22.04
	3H	19.82	20.95	20.34	21.48	22.05	22.37	23.50	22.89	24.03	24.60
	4H	20.43	21.46	20.96	22.00	22.60	23.75	24.79	24.29	25.33	25.93
	6H	20.83	21.74	21.39	22.31	22.92	25.22	26.14	25.78	26.70	27.31
	8H	20.92	21.79	21.49	22.35	22.98	25.99	26.85	26.55	27.41	28.04
	12H	20.97	21.76	21.56	22.35	22.98	26.84	27.62	27.43	28.22	28.85
8H	4H	21.12	21.98	21.68	22.55	23.17	23.97	24.83	24.54	25.40	26.02
	6H	21.71	22.44	22.30	23.05	23.68	25.61	26.35	26.21	26.95	27.59
	8H	21.90	22.56	22.50	23.17	23.82	26.53	27.19	27.13	27.80	28.45
	12H	22.02	22.61	22.63	23.21	23.92	27.57	28.16	28.18	28.76	29.47
12H	4H	21.32	22.10	21.91	22.70	23.33	23.98	24.76	24.57	25.36	25.99
	6H	22.01	22.67	22.62	23.29	23.93	25.65	26.31	26.26	26.93	27.58
	8H	22.30	22.89	22.91	23.50	24.21	26.63	27.22	27.24	27.83	28.54