

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: P1356842

Luminaire Tested: 2ASL4-15HE-2-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356842  
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: 2ASL4-15HE-2-92765-UNV\_3000K  
Description: 2FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

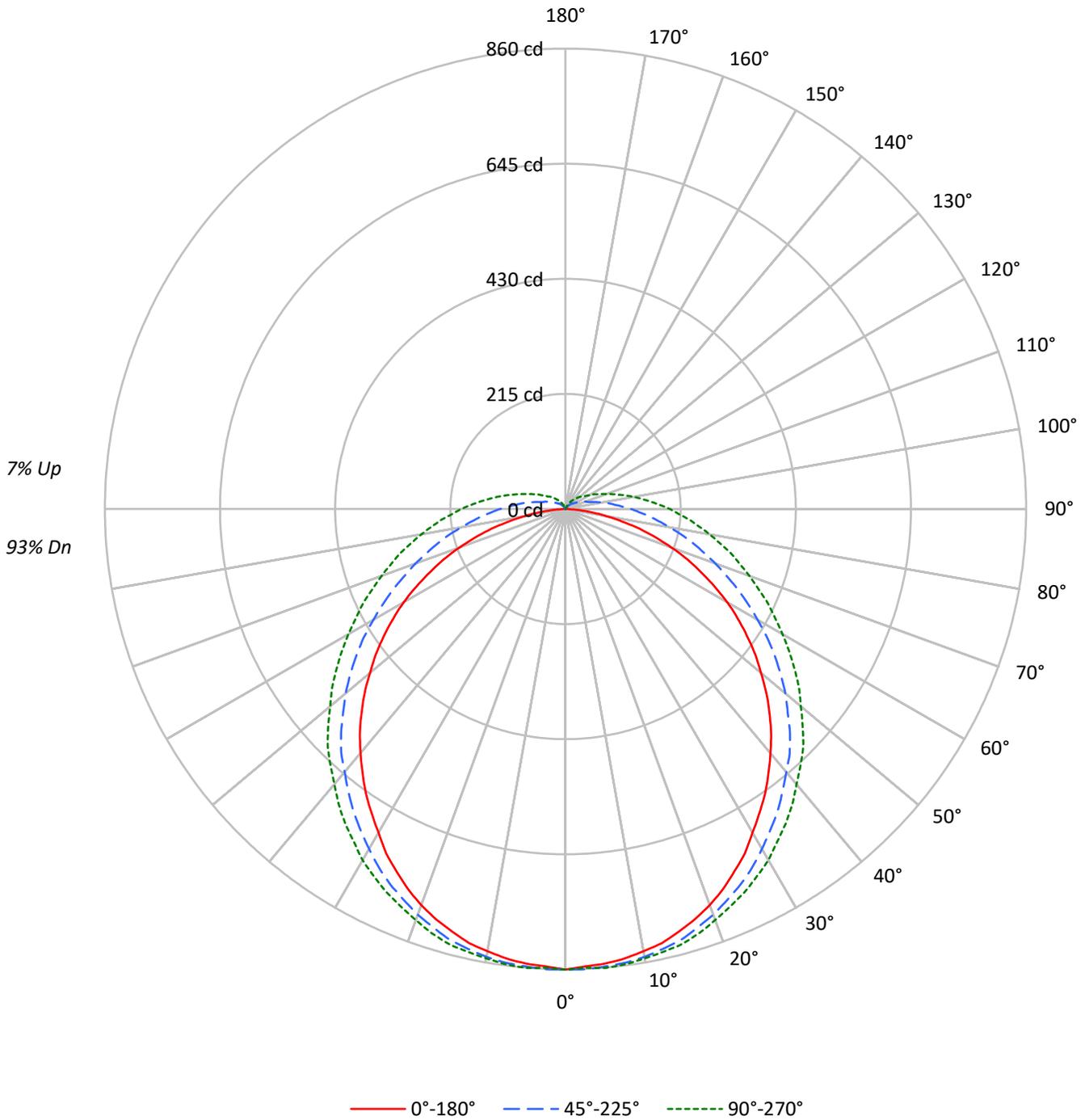
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2954.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 27.1  
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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CATALOG NUMBER: 2ASL4-15HE-2-92765-UNV\_3000K

### 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°	14040	14040	14040
5°	13897	13739	13718
10°	13769	13463	13385
15°	13612	13167	13116
20°	13415	12799	12740
25°	13122	12435	12415
30°	12764	12023	12092
35°	12475	11639	11719
40°	12143	11227	11324
45°	11804	10868	11037
50°	11374	10400	10609
55°	10953	9897	10271
60°	10440	9335	9911
65°	9668	8809	9632
70°	8798	8305	9376
75°	7556	7904	9292
80°	5680	7530	9263
85°	3168	7434	9528

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11804 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	2.8
10°-20°	234.6	7.9
20°-30°	355.4	12.0
30°-40°	429.9	14.6
40°-50°	453.2	15.3
50°-60°	423.0	14.3
60°-70°	349.2	11.8
70°-80°	253.3	8.6
80°-90°	160.1	5.4
90°-100°	95.5	3.2
100°-110°	54.8	1.9
110°-120°	31.1	1.1
120°-130°	17.7	0.6
130°-140°	9.6	0.3
140°-150°	4.2	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	671.6	22.7
0°-40°	1101.5	37.3
0°-60°	1977.6	66.9
0°-90°	2740.3	92.8
90°-120°	181.4	6.1
90°-150°	212.9	7.2
90°-180°	214.0	7.2
0°-180°	2954.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	852	860	858	858	860	81
15°	817	828	833	836	842	231
25°	747	758	774	785	790	344
35°	649	666	690	709	717	406
45°	538	560	593	617	628	415
55°	414	438	476	509	522	370
65°	279	308	354	398	417	277
75°	143	181	246	298	319	151
85°	27	84	157	211	233	33
90°	0	51	122	173	195	1
95°	0	32	92	141	160	0
105°	0	11	51	89	103	0
115°	0	5	30	54	65	0
125°	0	3	19	35	41	0
135°	0	0	11	22	27	0
145°	0	0	5	14	16	0
155°	0	0	0	3	5	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°	860.5	860.5	860.5	860.5	860.5
2.5°	855.1	863.2	860.5	857.8	857.8
5°	852.4	860.5	857.8	857.8	860.5
7.5°	846.9	855.1	855.1	855.1	857.8
10°	838.8	849.6	849.6	849.6	852.4
12.5°	830.7	838.8	841.5	844.2	846.9
15°	817.2	828.0	833.4	836.1	841.5
17.5°	803.6	811.8	819.9	828.0	830.7
20°	787.4	798.2	806.4	814.5	817.2
22.5°	768.5	779.3	790.1	798.2	803.6
25°	746.8	757.6	773.9	784.7	790.1
27.5°	725.2	736.0	754.9	768.5	773.9
30°	698.1	714.4	733.3	749.5	757.6
32.5°	673.8	690.0	711.6	730.6	736.0
35°	649.4	665.6	690.0	708.9	717.1
37.5°	622.4	641.3	665.6	687.3	695.4
40°	595.3	614.2	641.3	665.6	671.1
42.5°	568.2	587.2	619.6	641.3	649.4
45°	538.5	560.1	592.6	616.9	627.8
47.5°	508.7	530.4	562.8	589.9	600.7
50°	476.2	500.6	535.8	562.8	573.6
52.5°	446.5	470.8	506.0	535.8	549.3
55°	414.0	438.4	476.2	508.7	522.2
57.5°	381.5	405.9	446.5	481.6	495.2
60°	349.1	373.4	414.0	454.6	468.1
62.5°	313.9	340.9	384.2	424.8	441.1
65°	278.7	308.5	354.5	397.8	416.7
67.5°	246.2	276.0	324.7	373.4	389.6
70°	211.1	243.5	297.6	346.4	365.3
72.5°	175.9	211.1	270.6	322.0	340.9
75°	143.4	181.3	246.2	297.6	319.3
77.5°	108.2	154.2	221.9	276.0	294.9
80°	78.5	127.2	197.5	254.4	273.3
82.5°	51.4	102.8	175.9	232.7	251.6
85°	27.1	83.9	156.9	211.1	232.7
87.5°	8.1	64.9	138.0	192.1	211.1
90°	0.0	51.4	121.8	173.2	194.8
92.5°	0.0	40.6	105.5	156.9	175.9
95°	0.0	32.5	92.0	140.7	159.6
97.5°	0.0	27.1	81.2	127.2	143.4
100°	0.0	21.6	70.4	113.6	129.9
102.5°	0.0	16.2	59.5	100.1	116.4
105°	0.0	10.8	51.4	89.3	102.8
107.5°	0.0	8.1	43.3	78.5	92.0
110°	0.0	8.1	40.6	67.6	81.2



TEST NUMBER: P1356842  
 CATALOG NUMBER: 2ASL4-15HE-2-92765-UNV\_3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	5.4	35.2	62.2	73.1
115°	0.0	5.4	29.8	54.1	64.9
117.5°	0.0	5.4	27.1	48.7	59.5
120°	0.0	5.4	24.4	43.3	51.4
122.5°	0.0	2.7	21.6	37.9	46.0
125°	0.0	2.7	18.9	35.2	40.6
127.5°	0.0	2.7	16.2	32.5	37.9
130°	0.0	2.7	16.2	29.8	35.2
132.5°	0.0	0.0	13.5	27.1	32.5
135°	0.0	0.0	10.8	21.6	27.1
137.5°	0.0	0.0	10.8	18.9	24.4
140°	0.0	0.0	8.1	18.9	21.6
142.5°	0.0	0.0	5.4	16.2	18.9
145°	0.0	0.0	5.4	13.5	16.2
147.5°	0.0	0.0	2.7	10.8	13.5
150°	0.0	0.0	2.7	8.1	10.8
152.5°	0.0	0.0	0.0	5.4	8.1
155°	0.0	0.0	0.0	2.7	5.4
157.5°	0.0	0.0	0.0	0.0	2.7
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	18.46	20.00	18.93	20.46	20.95	20.44	21.97	20.91	22.43	22.92
	3H	19.96	21.36	20.45	21.83	22.37	22.85	24.25	23.34	24.72	25.25
	4H	20.45	21.77	20.95	22.26	22.81	24.03	25.36	24.54	25.85	26.39
	6H	20.72	21.96	21.24	22.46	23.02	25.25	26.49	25.77	26.99	27.55
	8H	20.78	21.96	21.31	22.49	23.05	25.87	27.06	26.40	27.58	28.15
	12H	20.79	21.93	21.33	22.45	23.04	26.54	27.68	27.08	28.20	28.79
4H	2H	19.32	20.65	19.83	21.14	21.68	20.87	22.20	21.38	22.69	23.23
	3H	21.07	22.20	21.59	22.73	23.30	23.52	24.65	24.04	25.18	25.75
	4H	21.68	22.71	22.22	23.25	23.85	24.87	25.91	25.41	26.45	27.05
	6H	22.08	22.99	22.64	23.56	24.17	26.29	27.21	26.85	27.77	28.39
	8H	22.18	23.04	22.74	23.61	24.23	27.02	27.88	27.58	28.45	29.07
	12H	22.23	23.01	22.81	23.60	24.23	27.81	28.60	28.40	29.19	29.82
8H	4H	22.35	23.21	22.92	23.78	24.41	25.10	25.96	25.66	26.52	27.15
	6H	22.94	23.67	23.54	24.28	24.91	26.69	27.42	27.29	28.03	28.66
	8H	23.13	23.79	23.74	24.41	25.05	27.56	28.22	28.17	28.84	29.49
	12H	23.25	23.84	23.86	24.45	25.16	28.54	29.13	29.15	29.74	30.45
12H	4H	22.54	23.33	23.13	23.92	24.55	25.10	25.89	25.69	26.48	27.11
	6H	23.23	23.89	23.84	24.51	25.15	26.73	27.39	27.34	28.01	28.66
	8H	23.52	24.11	24.13	24.71	25.42	27.68	28.27	28.29	28.87	29.58