

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: P1357456

Luminaire Tested: 8ASL4-15HE-2-92765-UNV\_4000K

Issue Date: 2/17/2026

**Test Information**

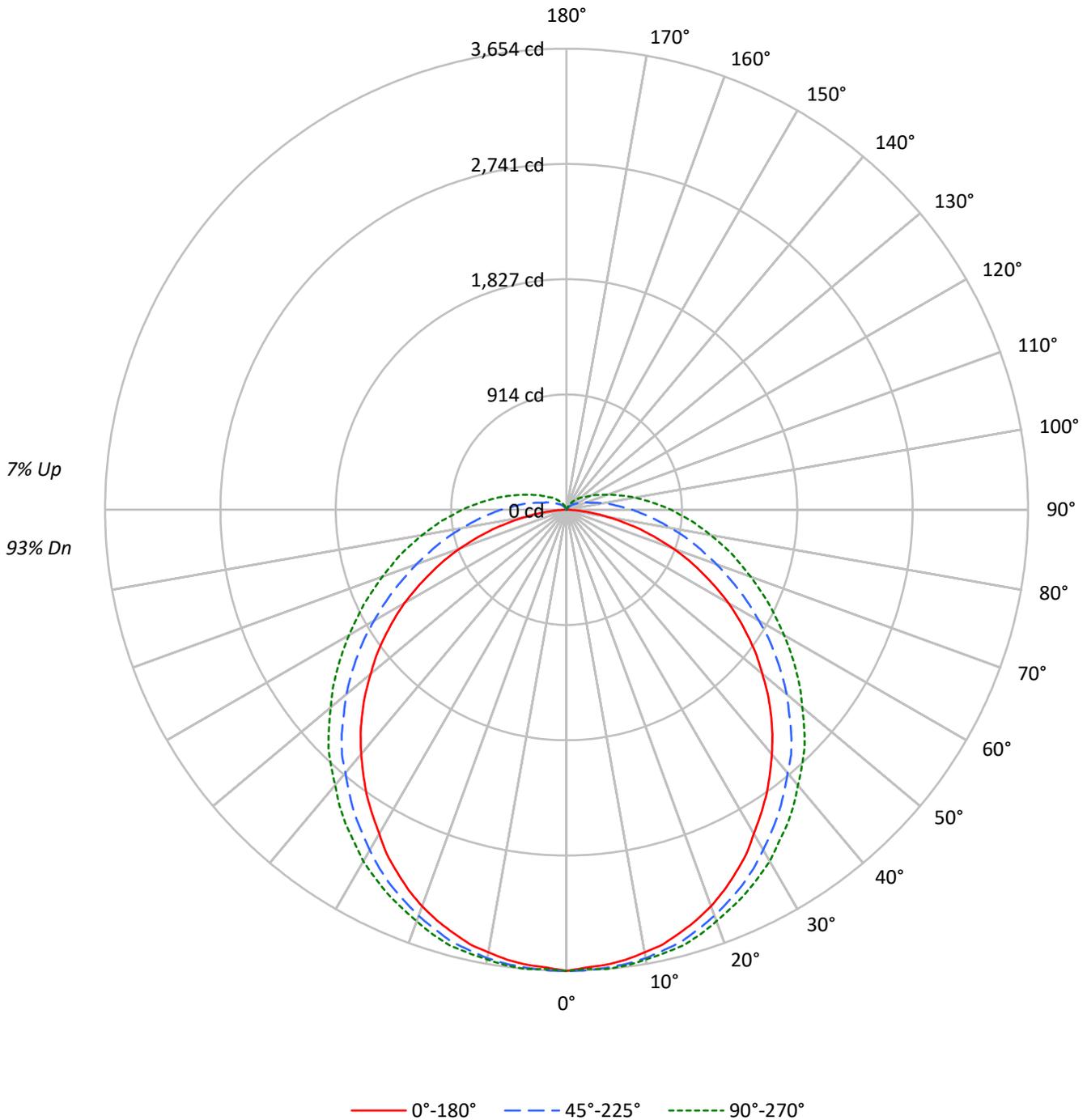
Test Method: LM-79-2019  
Report Number: P1357456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-15HE-2-92765-UNV\_4000K  
Description: 8FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12546.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 108.2  
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°	14790	14790	14790
5°	14689	14508	14451
10°	14607	14251	14099
15°	14490	13969	13818
20°	14335	13609	13421
25°	14078	13254	13079
30°	13752	12847	12739
35°	13503	12468	12345
40°	13212	12060	11929
45°	12920	11709	11626
50°	12539	11242	11177
55°	12179	10740	10821
60°	11734	10175	10441
65°	11027	9652	10147
70°	10240	9163	9877
75°	9082	8796	9789
80°	7232	8480	9758
85°	4643	8523	10038

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12920 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.6	2.8
10°-20°	996.2	7.9
20°-30°	1509.5	12.0
30°-40°	1825.8	14.6
40°-50°	1924.8	15.3
50°-60°	1796.4	14.3
60°-70°	1483.2	11.8
70°-80°	1075.9	8.6
80°-90°	679.8	5.4
90°-100°	405.8	3.2
100°-110°	232.6	1.9
110°-120°	132.1	1.1
120°-130°	75.4	0.6
130°-140°	40.8	0.3
140°-150°	17.9	0.1
150°-160°	3.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2852.4	22.7
0°-40°	4678.1	37.3
0°-60°	8399.4	66.9
0°-90°	11638.3	92.8
90°-120°	770.5	6.1
90°-150°	904.5	7.2
90°-180°	908.0	7.2
0°-180°	12546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3654	3654	3654	3654	3654	
5°	3620	3654	3643	3643	3654	344
15°	3471	3517	3540	3551	3574	979
25°	3172	3218	3287	3333	3356	1461
35°	2758	2827	2930	3011	3045	1724
45°	2287	2379	2517	2620	2666	1764
55°	1758	1862	2023	2160	2218	1572
65°	1184	1310	1506	1689	1770	1176
75°	609	770	1046	1264	1356	641
85°	115	356	666	896	988	141
90°	0	218	517	736	827	5
95°	0	138	391	598	678	0
105°	0	46	218	379	437	0
115°	0	23	126	230	276	0
125°	0	12	80	149	172	0
135°	0	0	46	92	115	0
145°	0	0	23	58	69	0
155°	0	0	0	12	23	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°	3654.5	3654.5	3654.5	3654.5	3654.5
2.5°	3631.5	3666.0	3654.5	3643.0	3643.0
5°	3620.0	3654.5	3643.0	3643.0	3654.5
7.5°	3597.1	3631.5	3631.5	3631.5	3643.0
10°	3562.6	3608.6	3608.6	3608.6	3620.0
12.5°	3528.1	3562.6	3574.1	3585.6	3597.1
15°	3470.6	3516.6	3539.6	3551.1	3574.1
17.5°	3413.2	3447.7	3482.1	3516.6	3528.1
20°	3344.2	3390.2	3424.7	3459.2	3470.6
22.5°	3263.8	3309.8	3355.7	3390.2	3413.2
25°	3171.8	3217.8	3286.8	3332.7	3355.7
27.5°	3079.9	3125.9	3206.3	3263.8	3286.8
30°	2965.0	3033.9	3114.4	3183.3	3217.8
32.5°	2861.6	2930.5	3022.4	3102.9	3125.9
35°	2758.1	2827.1	2930.5	3011.0	3045.4
37.5°	2643.2	2723.7	2827.1	2919.0	2953.5
40°	2528.3	2608.7	2723.7	2827.1	2850.1
42.5°	2413.4	2493.8	2631.7	2723.7	2758.1
45°	2286.9	2378.9	2516.8	2620.2	2666.2
47.5°	2160.5	2252.5	2390.4	2505.3	2551.3
50°	2022.6	2126.1	2275.5	2390.4	2436.3
52.5°	1896.2	1999.6	2149.0	2275.5	2332.9
55°	1758.3	1861.7	2022.6	2160.5	2218.0
57.5°	1620.4	1723.8	1896.2	2045.6	2103.1
60°	1482.5	1585.9	1758.3	1930.7	1988.2
62.5°	1333.1	1448.0	1631.9	1804.3	1873.2
65°	1183.7	1310.1	1505.5	1689.4	1769.8
67.5°	1045.8	1172.2	1379.1	1585.9	1654.9
70°	896.4	1034.3	1264.1	1471.0	1551.4
72.5°	747.0	896.4	1149.2	1367.6	1448.0
75°	609.1	770.0	1045.8	1264.1	1356.1
77.5°	459.7	655.1	942.4	1172.2	1252.6
80°	333.3	540.1	838.9	1080.3	1160.7
82.5°	218.4	436.7	747.0	988.3	1068.8
85°	114.9	356.3	666.5	896.4	988.3
87.5°	34.5	275.8	586.1	815.9	896.4
90°	0.0	218.4	517.1	735.5	827.4
92.5°	0.0	172.4	448.2	666.5	747.0
95°	0.0	137.9	390.7	597.6	678.0
97.5°	0.0	114.9	344.8	540.1	609.1
100°	0.0	91.9	298.8	482.7	551.6
102.5°	0.0	69.0	252.8	425.2	494.2
105°	0.0	46.0	218.4	379.2	436.7
107.5°	0.0	34.5	183.9	333.3	390.7
110°	0.0	34.5	172.4	287.3	344.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.0	149.4	264.3	310.3
115°	0.0	23.0	126.4	229.8	275.8
117.5°	0.0	23.0	114.9	206.9	252.8
120°	0.0	23.0	103.4	183.9	218.4
122.5°	0.0	11.5	91.9	160.9	195.4
125°	0.0	11.5	80.4	149.4	172.4
127.5°	0.0	11.5	69.0	137.9	160.9
130°	0.0	11.5	69.0	126.4	149.4
132.5°	0.0	0.0	57.5	114.9	137.9
135°	0.0	0.0	46.0	91.9	114.9
137.5°	0.0	0.0	46.0	80.4	103.4
140°	0.0	0.0	34.5	80.4	91.9
142.5°	0.0	0.0	23.0	69.0	80.4
145°	0.0	0.0	23.0	57.5	69.0
147.5°	0.0	0.0	11.5	46.0	57.5
150°	0.0	0.0	11.5	34.5	46.0
152.5°	0.0	0.0	0.0	23.0	34.5
155°	0.0	0.0	0.0	11.5	23.0
157.5°	0.0	0.0	0.0	0.0	11.5
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	18.69	20.22	19.16	20.68	21.17	20.79	22.32	21.26	22.78	23.27
	3H	20.19	21.59	20.67	22.06	22.59	23.26	24.66	23.74	25.13	25.66
	4H	20.67	22.00	21.17	22.48	23.03	24.49	25.81	24.99	26.30	26.85
	6H	20.94	22.18	21.46	22.68	23.24	25.78	27.02	26.30	27.52	28.08
	8H	21.00	22.18	21.53	22.71	23.27	26.47	27.65	27.00	28.18	28.74
	12H	21.01	22.15	21.55	22.67	23.26	27.23	28.37	27.77	28.89	29.49
4H	2H	19.57	20.90	20.08	21.39	21.93	21.22	22.55	21.72	23.03	23.58
	3H	21.32	22.45	21.84	22.98	23.55	23.92	25.05	24.44	25.58	26.15
	4H	21.93	22.96	22.46	23.50	24.10	25.32	26.35	25.86	26.89	27.49
	6H	22.33	23.24	22.88	23.81	24.42	26.81	27.73	27.37	28.30	28.91
	8H	22.42	23.29	22.99	23.85	24.48	27.60	28.47	28.17	29.03	29.66
	12H	22.47	23.25	23.06	23.85	24.48	28.50	29.28	29.08	29.87	30.50
8H	4H	22.63	23.49	23.19	24.06	24.68	25.54	26.40	26.10	26.97	27.59
	6H	23.22	23.95	23.81	24.56	25.19	27.21	27.94	27.80	28.55	29.18
	8H	23.40	24.06	24.01	24.68	25.33	28.14	28.80	28.75	29.42	30.06
	12H	23.53	24.12	24.14	24.72	25.43	29.22	29.81	29.83	30.42	31.13
12H	4H	22.84	23.62	23.42	24.21	24.84	25.55	26.33	26.13	26.92	27.55
	6H	23.53	24.19	24.14	24.81	25.45	27.24	27.91	27.85	28.52	29.17
	8H	23.82	24.41	24.43	25.01	25.72	28.25	28.84	28.86	29.44	30.15