

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: P1357148

Luminaire Tested: 4ASL4-15HE-2-92765-UNV_3000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357148
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: 4ASL4-15HE-2-92765-UNV_3000K
Description: 4FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

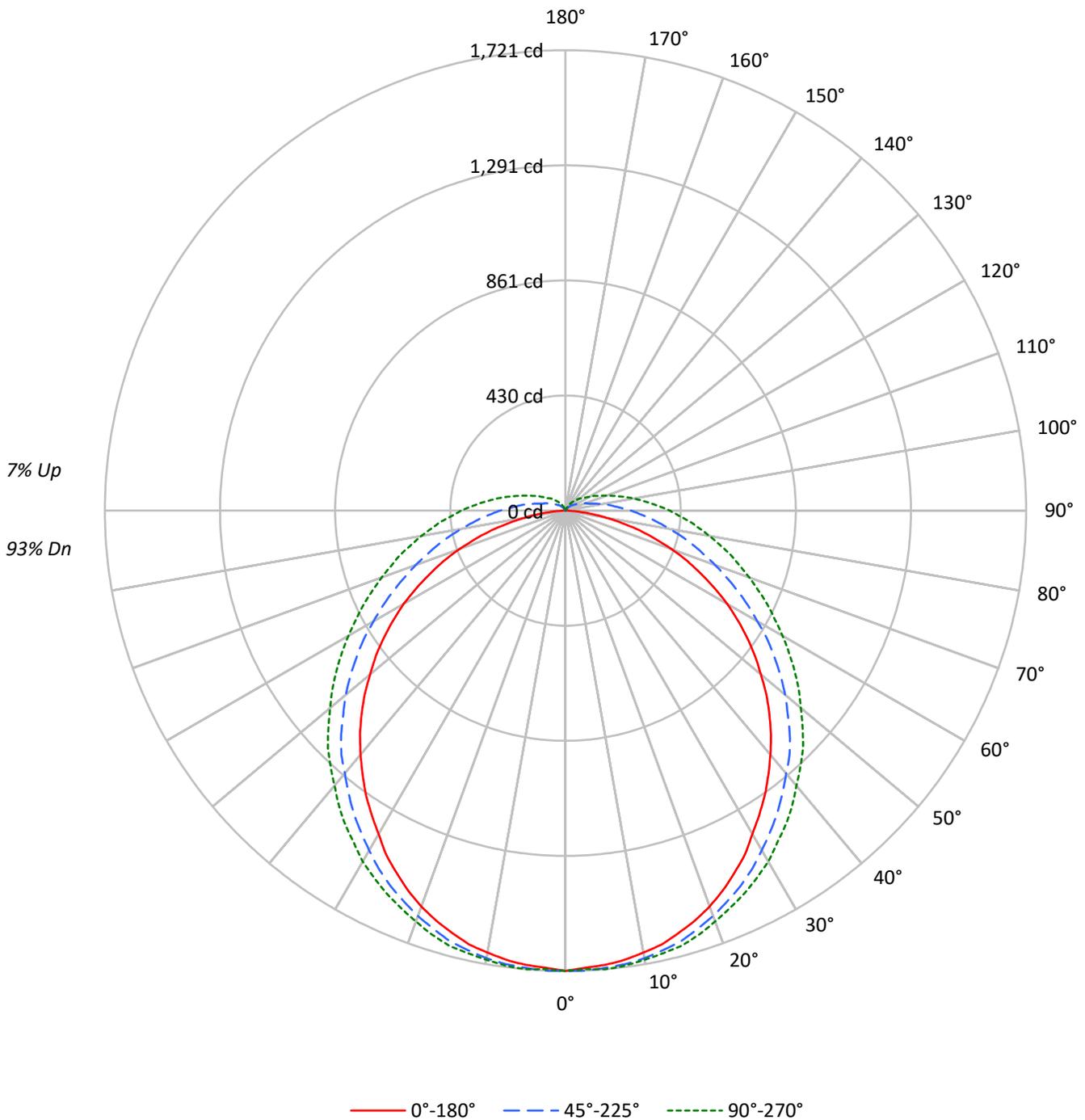
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5908.0 lumens
Efficiency: N/A
Efficacy: 109.2 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): 54.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	13966	13966	13966
5°	13855	13688	13646
10°	13761	13436	13314
15°	13636	13159	13048
20°	13472	12811	12673
25°	13213	12467	12350
30°	12889	12074	12029
35°	12636	11708	11657
40°	12342	11314	11264
45°	12044	10974	10978
50°	11662	10524	10554
55°	11293	10042	10218
60°	10839	9499	9859
65°	10134	8994	9582
70°	9343	8519	9327
75°	8192	8154	9243
80°	6385	7830	9214
85°	3877	7821	9478

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	2.8
10°-20°	469.1	7.9
20°-30°	710.9	12.0
30°-40°	859.8	14.6
40°-50°	906.4	15.3
50°-60°	846.0	14.3
60°-70°	698.4	11.8
70°-80°	506.7	8.6
80°-90°	320.1	5.4
90°-100°	191.1	3.2
100°-110°	109.5	1.9
110°-120°	62.2	1.1
120°-130°	35.5	0.6
130°-140°	19.2	0.3
140°-150°	8.4	0.1
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1343.2	22.7
0°-40°	2203.0	37.3
0°-60°	3955.3	66.9
0°-90°	5480.5	92.8
90°-120°	362.8	6.1
90°-150°	425.9	7.2
90°-180°	427.0	7.2
0°-180°	5908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1705	1721	1716	1716	1721	162
15°	1634	1656	1667	1672	1683	461
25°	1494	1515	1548	1569	1580	688
35°	1299	1331	1380	1418	1434	812
45°	1077	1120	1185	1234	1256	830
55°	828	877	952	1017	1044	740
65°	557	617	709	796	833	554
75°	287	363	492	595	639	302
85°	54	168	314	422	465	66
90°	0	103	244	346	390	2
95°	0	65	184	281	319	0
105°	0	22	103	179	206	0
115°	0	11	60	108	130	0
125°	0	5	38	70	81	0
135°	0	0	22	43	54	0
145°	0	0	11	27	32	0
155°	0	0	0	5	11	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°	1720.9	1720.9	1720.9	1720.9	1720.9
2.5°	1710.1	1726.4	1720.9	1715.5	1715.5
5°	1704.7	1720.9	1715.5	1715.5	1720.9
7.5°	1693.9	1710.1	1710.1	1710.1	1715.5
10°	1677.6	1699.3	1699.3	1699.3	1704.7
12.5°	1661.4	1677.6	1683.1	1688.5	1693.9
15°	1634.4	1656.0	1666.8	1672.2	1683.1
17.5°	1607.3	1623.5	1639.8	1656.0	1661.4
20°	1574.8	1596.5	1612.7	1628.9	1634.4
22.5°	1536.9	1558.6	1580.2	1596.5	1607.3
25°	1493.6	1515.3	1547.8	1569.4	1580.2
27.5°	1450.4	1472.0	1509.9	1536.9	1547.8
30°	1396.2	1428.7	1466.6	1499.1	1515.3
32.5°	1347.5	1380.0	1423.3	1461.2	1472.0
35°	1298.8	1331.3	1380.0	1417.9	1434.1
37.5°	1244.7	1282.6	1331.3	1374.6	1390.8
40°	1190.6	1228.5	1282.6	1331.3	1342.1
42.5°	1136.5	1174.4	1239.3	1282.6	1298.8
45°	1076.9	1120.2	1185.2	1233.9	1255.5
47.5°	1017.4	1060.7	1125.6	1179.8	1201.4
50°	952.5	1001.2	1071.5	1125.6	1147.3
52.5°	892.9	941.6	1012.0	1071.5	1098.6
55°	828.0	876.7	952.5	1017.4	1044.5
57.5°	763.1	811.8	892.9	963.3	990.4
60°	698.1	746.8	828.0	909.2	936.2
62.5°	627.8	681.9	768.5	849.6	882.1
65°	557.4	616.9	708.9	795.5	833.4
67.5°	492.5	552.0	649.4	746.8	779.3
70°	422.1	487.1	595.3	692.7	730.6
72.5°	351.8	422.1	541.2	644.0	681.9
75°	286.8	362.6	492.5	595.3	638.6
77.5°	216.5	308.5	443.8	552.0	589.9
80°	156.9	254.4	395.1	508.7	546.6
82.5°	102.8	205.6	351.8	465.4	503.3
85°	54.1	167.8	313.9	422.1	465.4
87.5°	16.2	129.9	276.0	384.2	422.1
90°	0.0	102.8	243.5	346.4	389.6
92.5°	0.0	81.2	211.1	313.9	351.8
95°	0.0	64.9	184.0	281.4	319.3
97.5°	0.0	54.1	162.4	254.4	286.8
100°	0.0	43.3	140.7	227.3	259.8
102.5°	0.0	32.5	119.1	200.2	232.7
105°	0.0	21.6	102.8	178.6	205.6
107.5°	0.0	16.2	86.6	156.9	184.0
110°	0.0	16.2	81.2	135.3	162.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	10.8	70.4	124.5	146.1
115°	0.0	10.8	59.5	108.2	129.9
117.5°	0.0	10.8	54.1	97.4	119.1
120°	0.0	10.8	48.7	86.6	102.8
122.5°	0.0	5.4	43.3	75.8	92.0
125°	0.0	5.4	37.9	70.4	81.2
127.5°	0.0	5.4	32.5	64.9	75.8
130°	0.0	5.4	32.5	59.5	70.4
132.5°	0.0	0.0	27.1	54.1	64.9
135°	0.0	0.0	21.6	43.3	54.1
137.5°	0.0	0.0	21.6	37.9	48.7
140°	0.0	0.0	16.2	37.9	43.3
142.5°	0.0	0.0	10.8	32.5	37.9
145°	0.0	0.0	10.8	27.1	32.5
147.5°	0.0	0.0	5.4	21.6	27.1
150°	0.0	0.0	5.4	16.2	21.6
152.5°	0.0	0.0	0.0	10.8	16.2
155°	0.0	0.0	0.0	5.4	10.8
157.5°	0.0	0.0	0.0	0.0	5.4
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	18.47	20.01	18.95	20.47	20.96	20.53	22.07	21.00	22.53	23.02
	3H	19.98	21.38	20.46	21.85	22.38	22.98	24.38	23.47	24.85	25.38
	4H	20.46	21.78	20.96	22.27	22.81	24.19	25.52	24.70	26.01	26.55
	6H	20.73	21.97	21.25	22.47	23.03	25.46	26.70	25.98	27.20	27.76
	8H	20.78	21.97	21.32	22.49	23.06	26.12	27.31	26.65	27.83	28.40
	12H	20.80	21.94	21.34	22.45	23.05	26.85	27.99	27.39	28.51	29.10
4H	2H	19.35	20.68	19.86	21.17	21.71	20.96	22.29	21.47	22.78	23.32
	3H	21.10	22.23	21.61	22.76	23.32	23.64	24.78	24.16	25.31	25.87
	4H	21.70	22.74	22.24	23.28	23.88	25.03	26.06	25.57	26.61	27.20
	6H	22.11	23.02	22.66	23.59	24.20	26.50	27.41	27.06	27.98	28.59
	8H	22.20	23.06	22.77	23.63	24.26	27.26	28.13	27.83	28.69	29.32
	12H	22.25	23.03	22.84	23.63	24.26	28.12	28.90	28.70	29.50	30.13
8H	4H	22.40	23.26	22.96	23.83	24.45	25.25	26.11	25.81	26.68	27.30
	6H	22.99	23.72	23.58	24.32	24.96	26.89	27.62	27.49	28.23	28.86
	8H	23.17	23.83	23.78	24.45	25.10	27.80	28.46	28.41	29.08	29.73
	12H	23.29	23.88	23.90	24.49	25.20	28.84	29.43	29.45	30.04	30.75
12H	4H	22.60	23.38	23.19	23.98	24.61	25.26	26.04	25.84	26.64	27.27
	6H	23.29	23.95	23.90	24.57	25.21	26.93	27.59	27.54	28.21	28.85
	8H	23.58	24.17	24.19	24.77	25.48	27.91	28.50	28.52	29.11	29.82