

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: P1357483

Luminaire Tested: 8ASL4-20HE-2-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357483
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: 8ASL4-20HE-2-92765-UNV_2700K
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

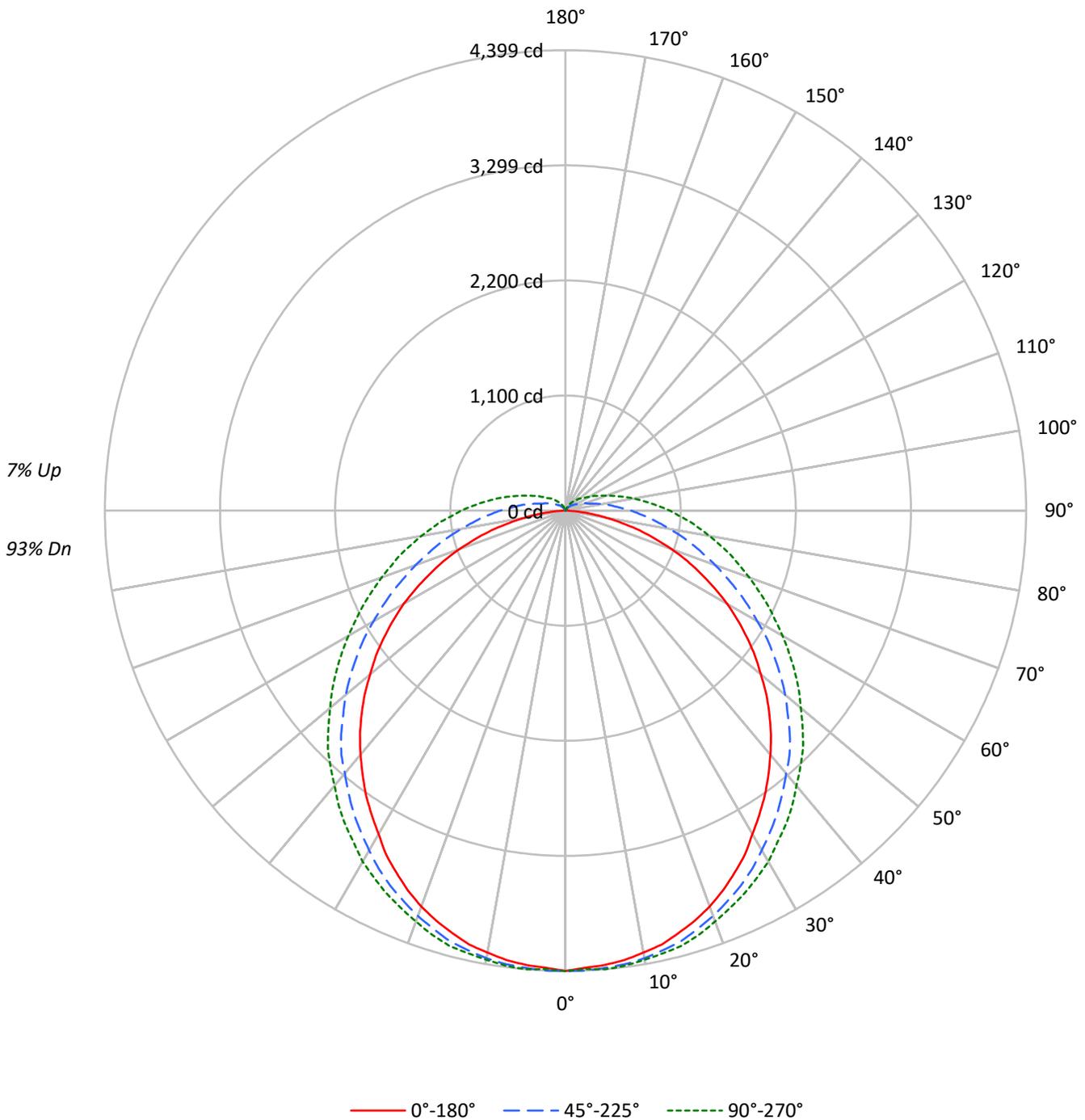
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15101.9 lumens
Efficiency: N/A
Efficacy: 100.8 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): 149.8
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				
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°	17803	17803	17803
5°	17683	17463	17396
10°	17583	17154	16972
15°	17443	16814	16633
20°	17255	16382	16155
25°	16946	15954	15743
30°	16554	15464	15334
35°	16254	15008	14860
40°	15904	14516	14359
45°	15553	14094	13995
50°	15094	13532	13454
55°	14660	12928	13025
60°	14125	12248	12568
65°	13273	11618	12215
70°	12325	11030	11889
75°	10932	10587	11783
80°	8706	10208	11746
85°	5588	10259	12083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15553 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.2	2.8
10°-20°	1199.2	7.9
20°-30°	1817.1	12.0
30°-40°	2197.7	14.6
40°-50°	2316.9	15.3
50°-60°	2162.4	14.3
60°-70°	1785.3	11.8
70°-80°	1295.1	8.6
80°-90°	818.3	5.4
90°-100°	488.4	3.2
100°-110°	280.0	1.9
110°-120°	159.0	1.1
120°-130°	90.7	0.6
130°-140°	49.1	0.3
140°-150°	21.5	0.1
150°-160°	3.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3433.5	22.7
0°-40°	5631.2	37.3
0°-60°	10110.5	66.9
0°-90°	14009.3	92.8
90°-120°	927.4	6.1
90°-150°	1088.8	7.2
90°-180°	1093.0	7.2
0°-180°	15101.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4399	4399	4399	4399	4399	
5°	4358	4399	4385	4385	4399	414
15°	4178	4233	4261	4275	4302	1179
25°	3818	3873	3956	4012	4039	1759
35°	3320	3403	3528	3624	3666	2075
45°	2753	2864	3030	3154	3209	2123
55°	2116	2241	2435	2601	2670	1892
65°	1425	1577	1812	2034	2130	1415
75°	733	927	1259	1522	1632	771
85°	138	429	802	1079	1190	169
90°	0	263	622	885	996	6
95°	0	166	470	719	816	0
105°	0	55	263	456	526	0
115°	0	28	152	277	332	0
125°	0	14	97	180	208	0
135°	0	0	55	111	138	0
145°	0	0	28	69	83	0
155°	0	0	0	14	28	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°	4399.1	4399.1	4399.1	4399.1	4399.1
2.5°	4371.4	4412.9	4399.1	4385.2	4385.2
5°	4357.6	4399.1	4385.2	4385.2	4399.1
7.5°	4329.9	4371.4	4371.4	4371.4	4385.2
10°	4288.4	4343.7	4343.7	4343.7	4357.6
12.5°	4246.9	4288.4	4302.2	4316.1	4329.9
15°	4177.7	4233.1	4260.7	4274.6	4302.2
17.5°	4108.6	4150.1	4191.6	4233.1	4246.9
20°	4025.6	4080.9	4122.4	4163.9	4177.7
22.5°	3928.7	3984.1	4039.4	4080.9	4108.6
25°	3818.0	3873.4	3956.4	4011.7	4039.4
27.5°	3707.4	3762.7	3859.5	3928.7	3956.4
30°	3569.0	3652.0	3748.9	3831.9	3873.4
32.5°	3444.5	3527.5	3638.2	3735.0	3762.7
35°	3320.0	3403.0	3527.5	3624.4	3665.9
37.5°	3181.7	3278.5	3403.0	3513.7	3555.2
40°	3043.4	3140.2	3278.5	3403.0	3430.7
42.5°	2905.0	3001.9	3167.9	3278.5	3320.0
45°	2752.9	2863.5	3029.5	3154.0	3209.4
47.5°	2600.7	2711.4	2877.4	3015.7	3071.0
50°	2434.7	2559.2	2739.0	2877.4	2932.7
52.5°	2282.5	2407.0	2586.9	2739.0	2808.2
55°	2116.5	2241.0	2434.7	2600.7	2669.9
57.5°	1950.5	2075.0	2282.5	2462.4	2531.5
60°	1784.5	1909.0	2116.5	2324.0	2393.2
62.5°	1604.7	1743.0	1964.4	2171.9	2254.9
65°	1424.9	1577.0	1812.2	2033.5	2130.4
67.5°	1258.8	1411.0	1660.0	1909.0	1992.0
70°	1079.0	1245.0	1521.7	1770.7	1867.5
72.5°	899.2	1079.0	1383.4	1646.2	1743.0
75°	733.2	926.8	1258.8	1521.7	1632.4
77.5°	553.3	788.5	1134.3	1411.0	1507.9
80°	401.2	650.2	1009.8	1300.3	1397.2
82.5°	262.8	525.7	899.2	1189.7	1286.5
85°	138.3	428.8	802.3	1079.0	1189.7
87.5°	41.5	332.0	705.5	982.2	1079.0
90°	0.0	262.8	622.5	885.3	996.0
92.5°	0.0	207.5	539.5	802.3	899.2
95°	0.0	166.0	470.3	719.3	816.2
97.5°	0.0	138.3	415.0	650.2	733.2
100°	0.0	110.7	359.7	581.0	664.0
102.5°	0.0	83.0	304.3	511.8	594.8
105°	0.0	55.3	262.8	456.5	525.7
107.5°	0.0	41.5	221.3	401.2	470.3
110°	0.0	41.5	207.5	345.8	415.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	27.7	179.8	318.2	373.5
115°	0.0	27.7	152.2	276.7	332.0
117.5°	0.0	27.7	138.3	249.0	304.3
120°	0.0	27.7	124.5	221.3	262.8
122.5°	0.0	13.8	110.7	193.7	235.2
125°	0.0	13.8	96.8	179.8	207.5
127.5°	0.0	13.8	83.0	166.0	193.7
130°	0.0	13.8	83.0	152.2	179.8
132.5°	0.0	0.0	69.2	138.3	166.0
135°	0.0	0.0	55.3	110.7	138.3
137.5°	0.0	0.0	55.3	96.8	124.5
140°	0.0	0.0	41.5	96.8	110.7
142.5°	0.0	0.0	27.7	83.0	96.8
145°	0.0	0.0	27.7	69.2	83.0
147.5°	0.0	0.0	13.8	55.3	69.2
150°	0.0	0.0	13.8	41.5	55.3
152.5°	0.0	0.0	0.0	27.7	41.5
155°	0.0	0.0	0.0	13.8	27.7
157.5°	0.0	0.0	0.0	0.0	13.8
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	19.33	20.87	19.80	21.33	21.82	21.43	22.97	21.91	23.43	23.92
	3H	20.83	22.23	21.32	22.70	23.23	23.90	25.30	24.39	25.77	26.30
	4H	21.31	22.64	21.82	23.13	23.67	25.13	26.46	25.64	26.95	27.49
	6H	21.59	22.82	22.11	23.32	23.88	26.43	27.67	26.95	28.17	28.73
	8H	21.64	22.83	22.17	23.35	23.92	27.11	28.30	27.64	28.82	29.39
	12H	21.66	22.79	22.19	23.31	23.91	27.88	29.01	28.42	29.53	30.13
4H	2H	20.22	21.55	20.73	22.03	22.58	21.86	23.19	22.37	23.68	24.22
	3H	21.96	23.09	22.48	23.62	24.19	24.56	25.69	25.08	26.22	26.79
	4H	22.57	23.61	23.11	24.15	24.75	25.96	27.00	26.50	27.54	28.14
	6H	22.97	23.89	23.53	24.45	25.07	27.46	28.37	28.02	28.94	29.55
	8H	23.07	23.93	23.63	24.50	25.12	28.25	29.11	28.81	29.68	30.30
	12H	23.11	23.90	23.70	24.49	25.12	29.14	29.92	29.73	30.52	31.15
8H	4H	23.27	24.14	23.84	24.70	25.33	26.18	27.04	26.75	27.61	28.23
	6H	23.86	24.59	24.46	25.20	25.83	27.85	28.58	28.45	29.19	29.82
	8H	24.05	24.71	24.66	25.33	25.97	28.78	29.44	29.39	30.06	30.71
	12H	24.17	24.76	24.78	25.37	26.08	29.86	30.45	30.47	31.06	31.77
12H	4H	23.48	24.26	24.07	24.86	25.49	26.19	26.97	26.78	27.57	28.20
	6H	24.17	24.83	24.78	25.45	26.10	27.89	28.55	28.50	29.17	29.81
	8H	24.46	25.05	25.07	25.66	26.37	28.89	29.48	29.50	30.09	30.80