

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: P1356872

Luminaire Tested: 2ASL4-20HE-2-92765-UNV_3000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356872
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: 2ASL4-20HE-2-92765-UNV_3000K
Description: 2FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

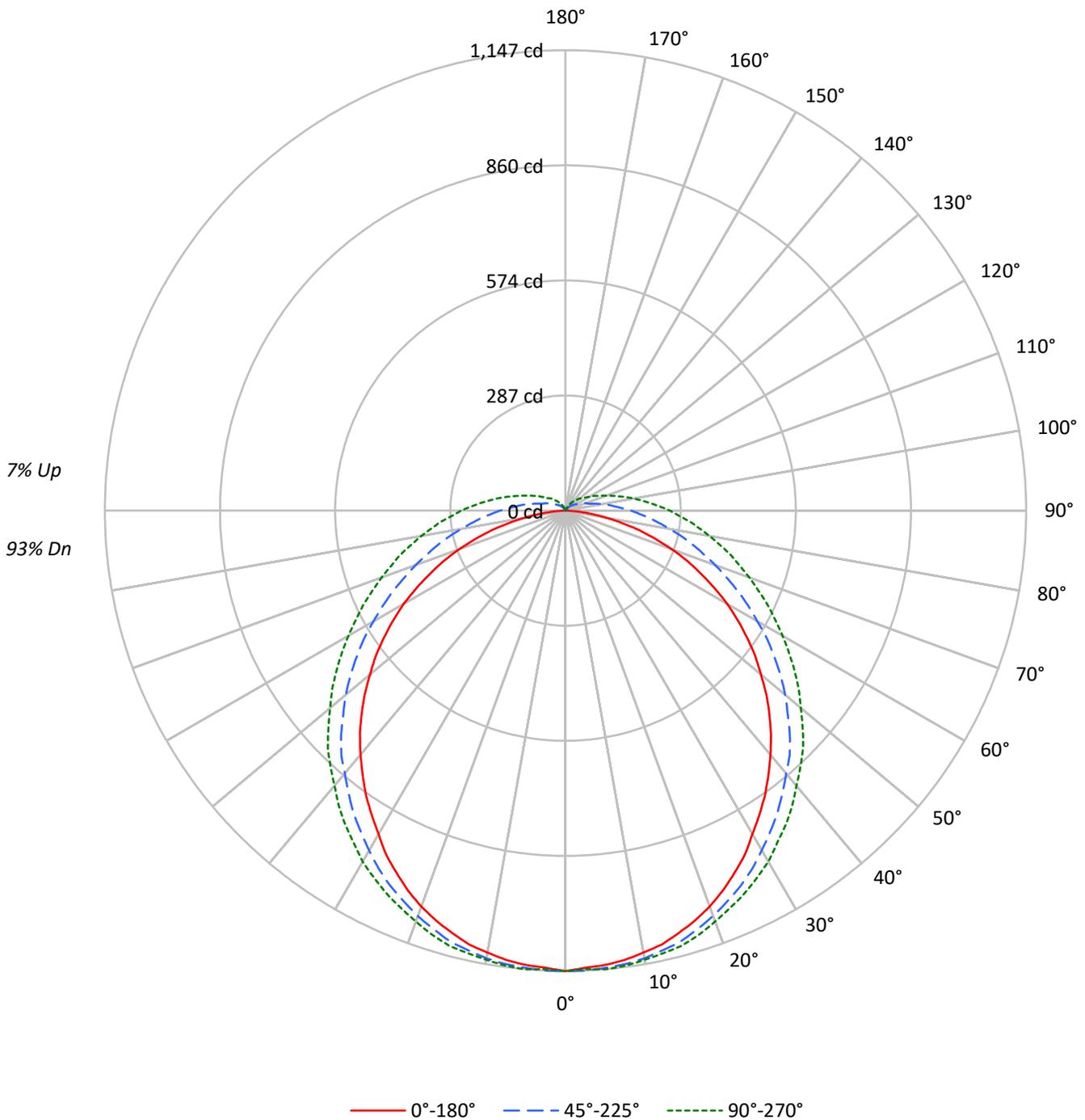
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938.0 lumens
Efficiency: N/A
Efficacy: 105.3 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): 37.4
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°	18716	18716	18716
5°	18525	18315	18288
10°	18356	17949	17843
15°	18146	17552	17485
20°	17883	17062	16984
25°	17494	16577	16550
30°	17017	16029	16120
35°	16630	15516	15621
40°	16188	14966	15096
45°	15735	14488	14713
50°	15165	13863	14143
55°	14602	13195	13693
60°	13915	12444	13213
65°	12888	11741	12841
70°	11728	11074	12500
75°	10074	10540	12388
80°	7569	10039	12347
85°	4220	9912	12702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	2.8
10°-20°	312.7	7.9
20°-30°	473.8	12.0
30°-40°	573.1	14.6
40°-50°	604.2	15.3
50°-60°	563.9	14.3
60°-70°	465.5	11.8
70°-80°	337.7	8.6
80°-90°	213.4	5.4
90°-100°	127.4	3.2
100°-110°	73.0	1.9
110°-120°	41.5	1.1
120°-130°	23.7	0.6
130°-140°	12.8	0.3
140°-150°	5.6	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	895.3	22.7
0°-40°	1468.4	37.3
0°-60°	2636.4	66.9
0°-90°	3653.1	92.8
90°-120°	241.8	6.1
90°-150°	283.9	7.2
90°-180°	285.0	7.2
0°-180°	3938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1136	1147	1144	1144	1147	108
15°	1089	1104	1111	1115	1122	307
25°	996	1010	1032	1046	1053	459
35°	866	887	920	945	956	541
45°	718	747	790	822	837	554
55°	552	584	635	678	696	493
65°	372	411	472	530	556	369
75°	191	242	328	397	426	201
85°	36	112	209	281	310	44
90°	0	68	162	231	260	1
95°	0	43	123	188	213	0
105°	0	14	68	119	137	0
115°	0	7	40	72	87	0
125°	0	4	25	47	54	0
135°	0	0	14	29	36	0
145°	0	0	7	18	22	0
155°	0	0	0	4	7	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°	1147.1	1147.1	1147.1	1147.1	1147.1
2.5°	1139.9	1150.7	1147.1	1143.5	1143.5
5°	1136.3	1147.1	1143.5	1143.5	1147.1
7.5°	1129.1	1139.9	1139.9	1139.9	1143.5
10°	1118.2	1132.7	1132.7	1132.7	1136.3
12.5°	1107.4	1118.2	1121.8	1125.5	1129.1
15°	1089.4	1103.8	1111.0	1114.6	1121.8
17.5°	1071.3	1082.2	1093.0	1103.8	1107.4
20°	1049.7	1064.1	1075.0	1085.8	1089.4
22.5°	1024.5	1038.9	1053.3	1064.1	1071.3
25°	995.6	1010.0	1031.7	1046.1	1053.3
27.5°	966.7	981.2	1006.4	1024.5	1031.7
30°	930.7	952.3	977.6	999.2	1010.0
32.5°	898.2	919.8	948.7	974.0	981.2
35°	865.7	887.4	919.8	945.1	955.9
37.5°	829.7	854.9	887.4	916.2	927.1
40°	793.6	818.8	854.9	887.4	894.6
42.5°	757.5	782.8	826.1	854.9	865.7
45°	717.8	746.7	790.0	822.4	836.9
47.5°	678.2	707.0	750.3	786.4	800.8
50°	634.9	667.3	714.2	750.3	764.7
52.5°	595.2	627.7	674.6	714.2	732.3
55°	551.9	584.4	634.9	678.2	696.2
57.5°	508.6	541.1	595.2	642.1	660.1
60°	465.3	497.8	551.9	606.0	624.1
62.5°	418.4	454.5	512.2	566.3	588.0
65°	371.5	411.2	472.5	530.3	555.5
67.5°	328.3	367.9	432.9	497.8	519.4
70°	281.4	324.7	396.8	461.7	487.0
72.5°	234.5	281.4	360.7	429.3	454.5
75°	191.2	241.7	328.3	396.8	425.7
77.5°	144.3	205.6	295.8	367.9	393.2
80°	104.6	169.5	263.3	339.1	364.3
82.5°	68.5	137.1	234.5	310.2	335.5
85°	36.1	111.8	209.2	281.4	310.2
87.5°	10.8	86.6	184.0	256.1	281.4
90°	0.0	68.5	162.3	230.9	259.7
92.5°	0.0	54.1	140.7	209.2	234.5
95°	0.0	43.3	122.6	187.6	212.8
97.5°	0.0	36.1	108.2	169.5	191.2
100°	0.0	28.9	93.8	151.5	173.1
102.5°	0.0	21.6	79.4	133.5	155.1
105°	0.0	14.4	68.5	119.0	137.1
107.5°	0.0	10.8	57.7	104.6	122.6
110°	0.0	10.8	54.1	90.2	108.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.2	46.9	83.0	97.4
115°	0.0	7.2	39.7	72.1	86.6
117.5°	0.0	7.2	36.1	64.9	79.4
120°	0.0	7.2	32.5	57.7	68.5
122.5°	0.0	3.6	28.9	50.5	61.3
125°	0.0	3.6	25.3	46.9	54.1
127.5°	0.0	3.6	21.6	43.3	50.5
130°	0.0	3.6	21.6	39.7	46.9
132.5°	0.0	0.0	18.0	36.1	43.3
135°	0.0	0.0	14.4	28.9	36.1
137.5°	0.0	0.0	14.4	25.3	32.5
140°	0.0	0.0	10.8	25.3	28.9
142.5°	0.0	0.0	7.2	21.6	25.3
145°	0.0	0.0	7.2	18.0	21.6
147.5°	0.0	0.0	3.6	14.4	18.0
150°	0.0	0.0	3.6	10.8	14.4
152.5°	0.0	0.0	0.0	7.2	10.8
155°	0.0	0.0	0.0	3.6	7.2
157.5°	0.0	0.0	0.0	0.0	3.6
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	19.46	20.99	19.93	21.45	21.94	21.44	22.97	21.91	23.43	23.92
	3H	20.96	22.36	21.45	22.83	23.36	23.85	25.25	24.34	25.72	26.25
	4H	21.44	22.77	21.95	23.26	23.80	25.03	26.36	25.54	26.85	27.39
	6H	21.72	22.96	22.24	23.46	24.02	26.25	27.49	26.77	27.99	28.55
	8H	21.77	22.96	22.31	23.48	24.05	26.87	28.06	27.40	28.58	29.15
	12H	21.79	22.93	22.33	23.45	24.04	27.54	28.68	28.08	29.20	29.79
4H	2H	20.32	21.65	20.83	22.14	22.68	21.87	23.20	22.38	23.69	24.23
	3H	22.07	23.20	22.59	23.73	24.30	24.52	25.65	25.04	26.18	26.75
	4H	22.68	23.71	23.21	24.25	24.85	25.87	26.91	26.41	27.45	28.05
	6H	23.08	23.99	23.64	24.56	25.17	27.29	28.21	27.85	28.77	29.39
	8H	23.18	24.04	23.74	24.60	25.23	28.02	28.88	28.58	29.45	30.07
	12H	23.22	24.01	23.81	24.60	25.23	28.81	29.59	29.40	30.19	30.82
8H	4H	23.35	24.21	23.92	24.78	25.41	26.09	26.96	26.66	27.52	28.15
	6H	23.94	24.67	24.53	25.28	25.91	27.69	28.42	28.29	29.03	29.66
	8H	24.13	24.79	24.73	25.40	26.05	28.56	29.22	29.17	29.84	30.49
	12H	24.25	24.84	24.86	25.44	26.15	29.54	30.13	30.15	30.74	31.45
12H	4H	23.54	24.33	24.13	24.92	25.55	26.10	26.89	26.69	27.48	28.11
	6H	24.23	24.89	24.84	25.51	26.15	27.73	28.39	28.34	29.01	29.65
	8H	24.52	25.11	25.13	25.71	26.42	28.67	29.26	29.28	29.87	30.58