

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: P1356799

Luminaire Tested: 2ASL4-10-1-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-6)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 2ASL4-10-1-92765-UNV_4000K
Description: 2FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

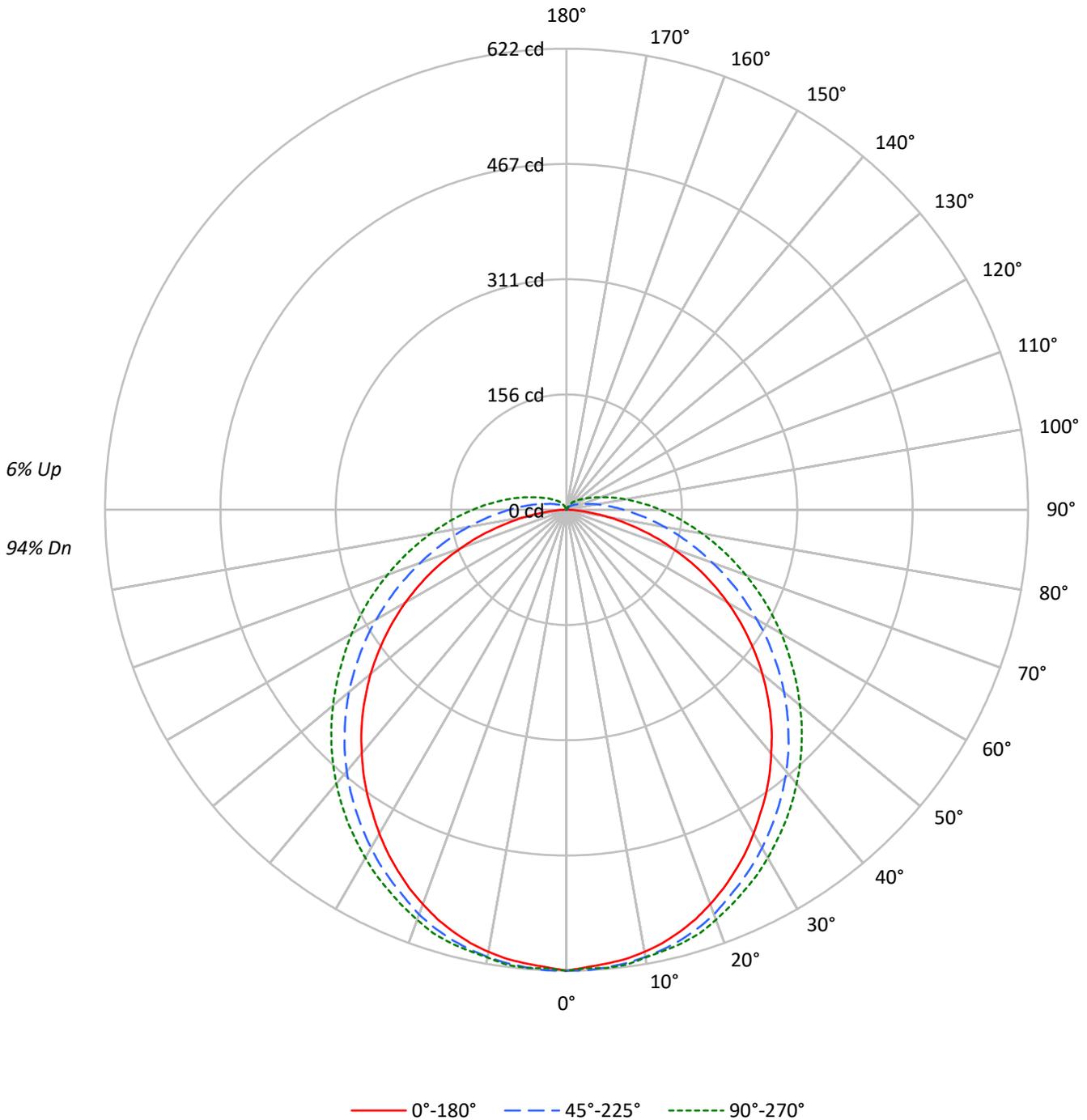
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2082.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 18
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	82	80	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	71	67	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	62	58	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	56	50	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	50	44	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	38	32	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	32	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10147	10147	10147
5°	10023	9927	9892
10°	9943	9709	9632
15°	9819	9481	9430
20°	9648	9223	9179
25°	9445	8918	8909
30°	9223	8639	8657
35°	9000	8353	8403
40°	8753	8067	8143
45°	8512	7754	7878
50°	8233	7428	7598
55°	7892	7062	7319
60°	7509	6679	7076
65°	7028	6274	6831
70°	6302	5849	6591
75°	5374	5464	6408
80°	4125	5125	6294
85°	2221	4866	6339

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8512 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	2.8
10°-20°	169.0	8.1
20°-30°	255.6	12.3
30°-40°	309.0	14.8
40°-50°	324.8	15.6
50°-60°	302.6	14.5
60°-70°	248.6	11.9
70°-80°	176.5	8.5
80°-90°	106.4	5.1
90°-100°	59.6	2.9
100°-110°	33.0	1.6
110°-120°	18.4	0.9
120°-130°	10.6	0.5
130°-140°	5.8	0.3
140°-150°	2.6	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	483.5	23.2
0°-40°	792.5	38.1
0°-60°	1419.9	68.2
0°-90°	1951.4	93.7
90°-120°	111.0	5.3
90°-150°	130.0	6.2
90°-180°	131.0	6.3
0°-180°	2082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	615	620	620	619	620	58
15°	590	597	600	603	605	166
25°	538	547	555	563	567	248
35°	468	480	495	508	514	293
45°	388	402	423	440	448	299
55°	298	315	340	362	372	267
65°	203	221	252	282	296	200
75°	102	128	170	205	220	109
85°	19	55	103	141	155	24
90°	0	32	77	113	126	1
95°	0	19	56	89	101	0
105°	0	7	30	54	63	0
115°	0	4	18	32	39	0
125°	0	2	11	21	25	0
135°	0	1	7	13	17	0
145°	1	0	3	8	10	0
155°	1	1	0	2	3	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°	621.9	621.9	621.9	621.9	621.9
2.5°	617.7	623.3	621.9	619.1	619.1
5°	614.8	620.5	619.8	619.1	620.5
7.5°	611.3	617.0	617.0	617.7	619.1
10°	605.7	612.7	612.7	612.7	613.4
12.5°	598.7	605.7	607.1	607.8	609.2
15°	589.5	597.3	600.1	602.9	605.0
17.5°	579.0	586.7	591.6	595.1	598.7
20°	566.3	574.7	581.1	585.3	588.8
22.5°	552.9	561.4	567.7	574.0	578.3
25°	537.5	547.3	555.0	562.8	567.0
27.5°	522.0	531.8	541.7	550.8	555.7
30°	504.4	515.7	526.9	537.5	542.4
32.5°	486.1	498.1	511.4	522.7	528.3
35°	468.5	480.5	495.2	507.9	514.2
37.5°	449.5	461.5	478.4	492.4	498.8
40°	429.1	442.5	460.8	475.6	482.6
42.5°	409.4	422.8	442.5	458.7	465.7
45°	388.3	402.4	422.8	440.4	448.1
47.5°	366.5	381.3	403.1	421.4	429.8
50°	344.7	360.2	382.7	402.4	410.8
52.5°	321.5	337.7	361.6	382.7	391.8
55°	298.3	315.2	339.8	362.3	372.1
57.5°	275.1	291.9	318.7	342.6	353.1
60°	251.1	268.7	296.2	322.2	334.2
62.5°	226.5	244.8	273.7	301.8	314.5
65°	202.6	220.9	252.5	282.1	295.5
67.5°	177.3	197.0	230.7	261.7	275.8
70°	151.2	173.8	209.6	242.7	256.8
72.5°	128.0	151.2	189.9	223.7	238.5
75°	102.0	128.0	170.2	205.4	220.2
77.5°	79.5	107.6	152.0	187.8	202.6
80°	57.0	87.9	134.4	170.9	185.7
82.5°	36.6	70.3	118.2	155.5	169.5
85°	19.0	54.9	102.7	140.7	154.8
87.5°	5.6	42.2	88.6	125.9	140.0
90°	0.0	32.4	76.7	112.6	125.9
92.5°	0.0	24.6	66.1	100.6	114.0
95°	0.0	19.0	56.3	88.6	101.3
97.5°	0.0	14.8	48.5	78.1	90.7
100°	0.0	12.0	41.5	68.9	80.9
102.5°	0.0	9.8	35.9	61.2	71.8
105°	0.0	7.0	29.5	53.5	63.3
107.5°	0.0	4.9	26.0	47.1	55.6
110°	0.0	4.2	23.2	40.8	49.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.5	20.4	36.6	43.6
115°	0.0	3.5	18.3	32.4	38.7
117.5°	0.0	2.8	15.5	28.8	34.5
120°	0.0	2.8	14.1	26.0	31.0
122.5°	0.0	2.1	12.7	23.2	28.1
125°	0.0	2.1	11.3	21.1	24.6
127.5°	0.0	1.4	9.8	19.0	22.5
130°	0.0	1.4	9.1	16.9	20.4
132.5°	0.0	0.7	8.4	15.5	18.3
135°	0.0	0.7	7.0	13.4	16.9
137.5°	0.0	0.0	6.3	12.0	14.8
140°	0.0	0.0	4.9	10.6	13.4
142.5°	0.7	0.0	4.2	9.1	11.3
145°	0.7	0.0	2.8	7.7	9.8
147.5°	0.7	0.7	2.1	6.3	7.7
150°	0.7	0.7	1.4	4.2	6.3
152.5°	0.7	0.7	0.7	2.8	4.2
155°	0.7	0.7	0.0	2.1	2.8
157.5°	0.7	0.7	0.0	0.7	1.4
160°	0.7	0.7	0.0	0.0	0.7
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	17.42	18.98	17.88	19.42	19.89	19.32	20.88	19.78	21.32	21.79
	3H	18.92	20.33	19.39	20.78	21.29	21.70	23.11	22.17	23.57	24.07
	4H	19.39	20.73	19.89	21.21	21.73	22.84	24.18	23.33	24.65	25.17
	6H	19.67	20.92	20.18	21.40	21.94	23.99	25.24	24.50	25.73	26.27
	8H	19.73	20.92	20.24	21.43	21.97	24.58	25.77	25.10	26.28	26.83
	12H	19.74	20.89	20.26	21.39	21.96	25.20	26.35	25.73	26.85	27.43
4H	2H	18.27	19.61	18.77	20.08	20.61	19.76	21.10	20.26	21.57	22.10
	3H	20.00	21.14	20.51	21.66	22.20	22.36	23.50	22.87	24.02	24.56
	4H	20.60	21.65	21.13	22.17	22.75	23.67	24.71	24.19	25.23	25.81
	6H	21.00	21.92	21.54	22.47	23.06	25.02	25.94	25.56	26.49	27.08
	8H	21.09	21.96	21.64	22.51	23.12	25.70	26.57	26.25	27.12	27.73
	12H	21.14	21.92	21.71	22.50	23.11	26.45	27.24	27.02	27.82	28.43
8H	4H	21.23	22.10	21.79	22.65	23.26	23.88	24.75	24.43	25.30	25.90
	6H	21.80	22.54	22.39	23.13	23.74	25.40	26.13	25.98	26.73	27.34
	8H	21.98	22.64	22.58	23.25	23.87	26.22	26.89	26.82	27.49	28.12
	12H	22.09	22.68	22.69	23.27	23.96	27.15	27.75	27.75	28.34	29.03
12H	4H	21.41	22.19	21.98	22.77	23.38	23.89	24.68	24.46	25.26	25.87
	6H	22.07	22.73	22.66	23.33	23.96	25.43	26.10	26.03	26.70	27.33
	8H	22.33	22.93	22.93	23.52	24.21	26.33	26.92	26.93	27.51	28.20