

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: P1357249

Luminaire Tested: 4ASL4-5-1-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357249
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: 4ASL4-5-1-92765-UNV_4000K
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

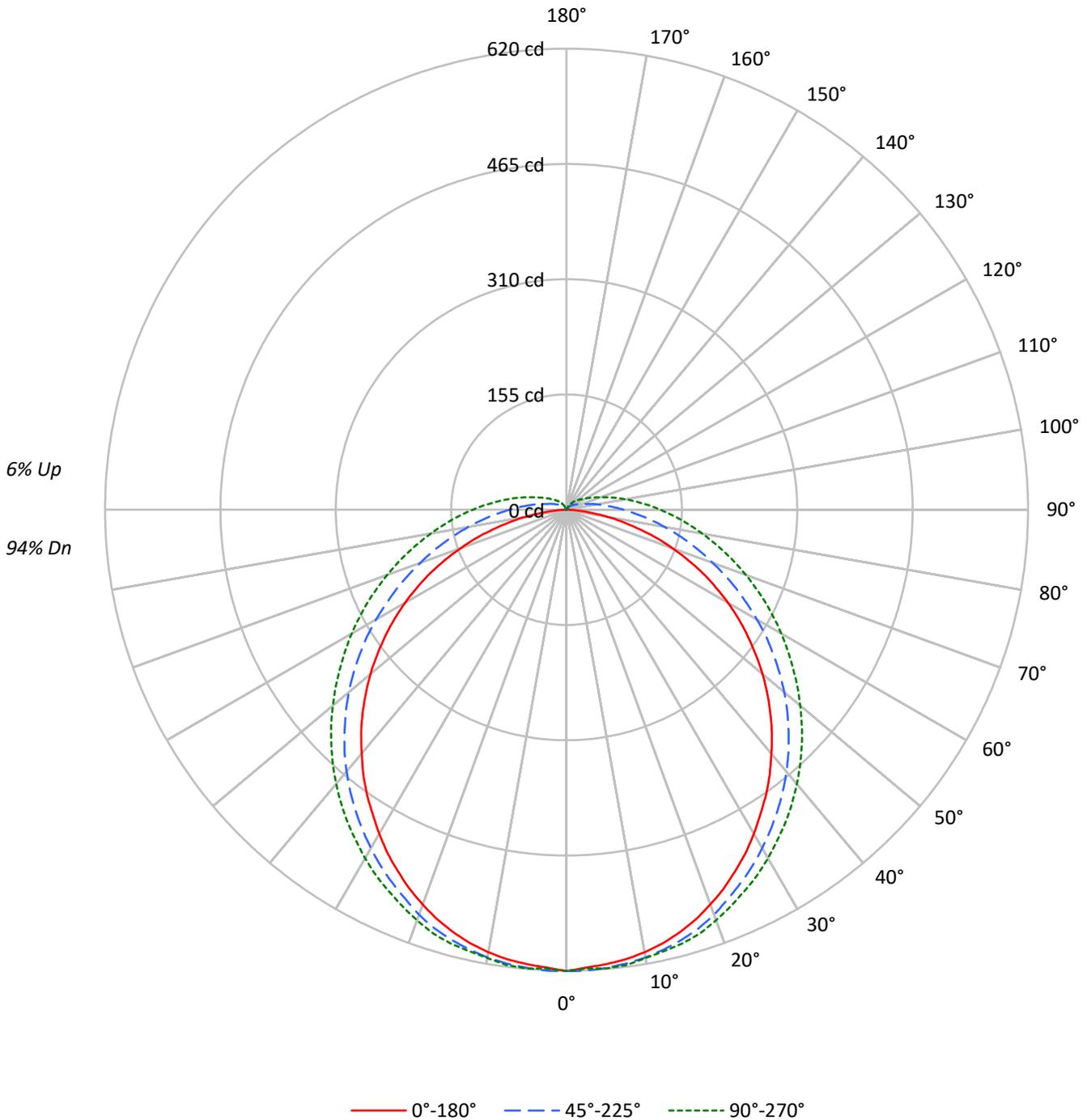
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2077.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 17.1
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	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	78	78	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	64	64	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	54	54	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	46	46	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	40	40	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	35	35	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	31	31	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	27	27	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	25	25	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	22	22	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5035	5035	5035
5°	4986	4933	4908
10°	4956	4833	4780
15°	4907	4726	4679
20°	4832	4605	4555
25°	4743	4460	4420
30°	4645	4327	4295
35°	4547	4192	4170
40°	4438	4055	4040
45°	4333	3906	3909
50°	4210	3750	3770
55°	4059	3574	3631
60°	3889	3390	3511
65°	3675	3196	3389
70°	3340	2992	3271
75°	2908	2811	3180
80°	2311	2656	3124
85°	1355	2554	3145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4333 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	2.8
10°-20°	168.6	8.1
20°-30°	255.0	12.3
30°-40°	308.2	14.8
40°-50°	324.1	15.6
50°-60°	301.9	14.5
60°-70°	248.0	11.9
70°-80°	176.1	8.5
80°-90°	106.1	5.1
90°-100°	59.4	2.9
100°-110°	32.9	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°	482.4	23.2
0°-40°	790.6	38.1
0°-60°	1416.5	68.2
0°-90°	1946.7	93.7
90°-120°	110.7	5.3
90°-150°	129.7	6.2
90°-180°	130.0	6.3
0°-180°	2077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	613	619	618	618	619	58
15°	588	596	599	601	604	166
25°	536	546	554	561	566	247
35°	467	479	494	507	513	292
45°	387	401	422	439	447	299
55°	298	314	339	361	371	266
65°	202	220	252	281	295	199
75°	102	128	170	205	220	109
85°	19	55	102	140	154	24
90°	0	32	76	112	126	1
95°	0	19	56	88	101	0
105°	0	7	30	53	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°	620.4	620.4	620.4	620.4	620.4
2.5°	616.2	621.8	620.4	617.6	617.6
5°	613.4	619.0	618.3	617.6	619.0
7.5°	609.9	615.5	615.5	616.2	617.6
10°	604.2	611.3	611.3	611.3	612.0
12.5°	597.2	604.2	605.6	606.3	607.8
15°	588.1	595.8	598.6	601.4	603.5
17.5°	577.6	585.3	590.2	593.7	597.2
20°	564.9	573.4	579.7	583.9	587.4
22.5°	551.6	560.0	566.3	572.7	576.9
25°	536.2	546.0	553.7	561.4	565.6
27.5°	520.7	530.6	540.4	549.5	554.4
30°	503.2	514.4	525.6	536.2	541.1
32.5°	484.9	496.9	510.2	521.4	527.0
35°	467.4	479.3	494.1	506.7	513.0
37.5°	448.4	460.4	477.2	491.3	497.6
40°	428.1	441.4	459.7	474.4	481.4
42.5°	408.4	421.8	441.4	457.6	464.6
45°	387.4	401.4	421.8	439.3	447.0
47.5°	365.6	380.4	402.1	420.4	428.8
50°	343.9	359.3	381.8	401.4	409.8
52.5°	320.7	336.9	360.7	381.8	390.9
55°	297.6	314.4	339.0	361.4	371.2
57.5°	274.4	291.2	317.9	341.8	352.3
60°	250.5	268.1	295.5	321.4	333.4
62.5°	226.0	244.2	273.0	301.1	313.7
65°	202.1	220.4	251.9	281.4	294.8
67.5°	176.9	196.5	230.2	261.1	275.1
70°	150.9	173.3	209.1	242.1	256.2
72.5°	127.7	150.9	189.5	223.2	237.9
75°	101.8	127.7	169.8	204.9	219.7
77.5°	79.3	107.4	151.6	187.4	202.1
80°	56.8	87.7	134.0	170.5	185.3
82.5°	36.5	70.2	117.9	155.1	169.1
85°	18.9	54.7	102.5	140.4	154.4
87.5°	5.6	42.1	88.4	125.6	139.7
90°	0.0	32.3	76.5	112.3	125.6
92.5°	0.0	24.6	66.0	100.4	113.7
95°	0.0	18.9	56.1	88.4	101.1
97.5°	0.0	14.7	48.4	77.9	90.5
100°	0.0	11.9	41.4	68.8	80.7
102.5°	0.0	9.8	35.8	61.1	71.6
105°	0.0	7.0	29.5	53.3	63.2
107.5°	0.0	4.9	26.0	47.0	55.4
110°	0.0	4.2	23.2	40.7	49.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.5	20.4	36.5	43.5
115°	0.0	3.5	18.2	32.3	38.6
117.5°	0.0	2.8	15.4	28.8	34.4
120°	0.0	2.8	14.0	26.0	30.9
122.5°	0.0	2.1	12.6	23.2	28.1
125°	0.0	2.1	11.2	21.1	24.6
127.5°	0.0	1.4	9.8	18.9	22.5
130°	0.0	1.4	9.1	16.8	20.4
132.5°	0.0	0.7	8.4	15.4	18.2
135°	0.0	0.7	7.0	13.3	16.8
137.5°	0.0	0.0	6.3	11.9	14.7
140°	0.0	0.0	4.9	10.5	13.3
142.5°	0.7	0.0	4.2	9.1	11.2
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	15.02	16.57	15.48	17.01	17.48	17.00	18.55	17.46	19.00	19.46
	3H	16.51	17.93	16.98	18.38	18.89	19.41	20.83	19.89	21.28	21.79
	4H	16.99	18.33	17.48	18.80	19.32	20.58	21.92	21.07	22.39	22.91
	6H	17.26	18.51	17.77	19.00	19.54	21.79	23.04	22.29	23.52	24.06
	8H	17.32	18.51	17.84	19.02	19.57	22.41	23.60	22.93	24.11	24.66
	12H	17.33	18.48	17.85	18.98	19.55	23.09	24.24	23.61	24.74	25.31
4H	2H	15.88	17.22	16.38	17.69	18.22	17.44	18.78	17.93	19.25	19.77
	3H	17.61	18.75	18.12	19.27	19.81	20.07	21.21	20.58	21.73	22.27
	4H	18.21	19.26	18.74	19.78	20.36	21.40	22.45	21.93	22.97	23.55
	6H	18.61	19.53	19.15	20.08	20.67	22.80	23.72	23.35	24.27	24.87
	8H	18.70	19.57	19.25	20.12	20.72	23.53	24.39	24.08	24.94	25.55
	12H	18.74	19.53	19.32	20.11	20.72	24.33	25.12	24.90	25.70	26.31
8H	4H	18.86	19.73	19.41	20.28	20.89	21.62	22.48	22.17	23.04	23.64
	6H	19.43	20.17	20.01	20.76	21.37	23.18	23.91	23.76	24.51	25.12
	8H	19.61	20.27	20.20	20.88	21.50	24.04	24.71	24.64	25.31	25.93
	12H	19.72	20.31	20.31	20.90	21.59	25.03	25.62	25.63	26.22	26.91
12H	4H	19.04	19.83	19.62	20.41	21.02	21.63	22.41	22.20	22.99	23.60
	6H	19.71	20.37	20.30	20.97	21.60	23.22	23.88	23.81	24.48	25.11
	8H	19.98	20.57	20.57	21.16	21.85	24.15	24.74	24.74	25.33	26.02