

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: P1357246

Luminaire Tested: 4ASL4-5-1-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357246
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_2700K
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

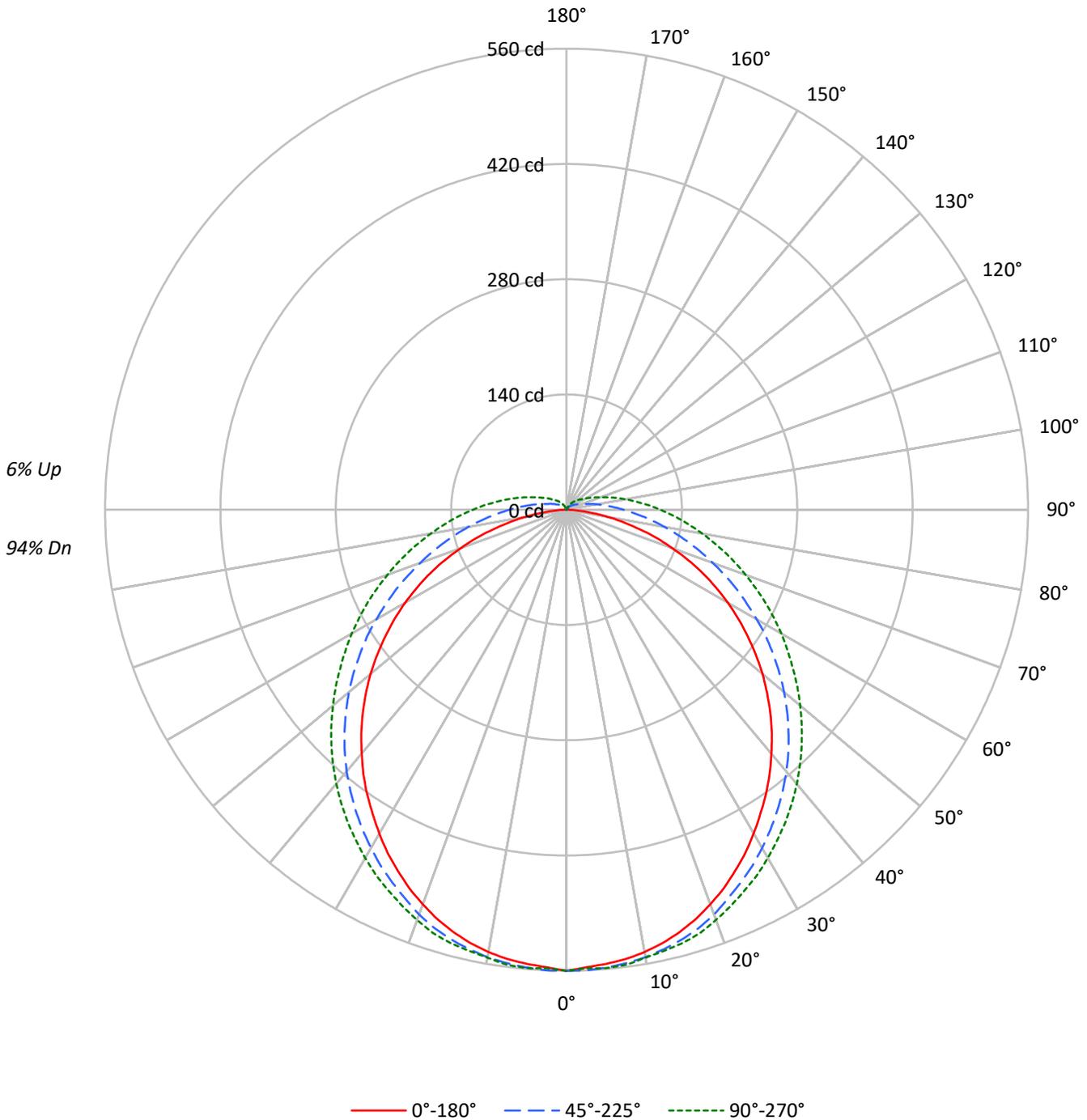
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1875.0 lumens
Efficiency: N/A
Efficacy: 109.6 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°	4545	4545	4545
5°	4500	4453	4431
10°	4475	4363	4314
15°	4429	4266	4224
20°	4363	4157	4112
25°	4282	4027	3991
30°	4193	3906	3878
35°	4104	3784	3764
40°	4006	3661	3648
45°	3911	3526	3529
50°	3800	3385	3404
55°	3663	3226	3278
60°	3512	3060	3169
65°	3318	2885	3059
70°	3015	2702	2952
75°	2625	2538	2870
80°	2088	2398	2820
85°	1226	2305	2839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3911 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	2.8
10°-20°	152.2	8.1
20°-30°	230.2	12.3
30°-40°	278.2	14.8
40°-50°	292.5	15.6
50°-60°	272.5	14.5
60°-70°	223.9	11.9
70°-80°	158.9	8.5
80°-90°	95.8	5.1
90°-100°	53.7	2.9
100°-110°	29.7	1.6
110°-120°	16.6	0.9
120°-130°	9.6	0.5
130°-140°	5.2	0.3
140°-150°	2.3	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	435.5	23.2
0°-40°	713.7	38.1
0°-60°	1278.8	68.2
0°-90°	1757.4	93.7
90°-120°	100.0	5.3
90°-150°	117.0	6.2
90°-180°	118.0	6.3
0°-180°	1875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	554	559	558	558	559	53
15°	531	538	540	543	545	150
25°	484	493	500	507	511	223
35°	422	433	446	457	463	264
45°	350	362	381	397	404	270
55°	269	284	306	326	335	240
65°	182	199	227	254	266	180
75°	92	115	153	185	198	98
85°	17	49	92	127	139	21
90°	0	29	69	101	113	1
95°	0	17	51	80	91	0
105°	0	6	27	48	57	0
115°	0	3	16	29	35	0
125°	0	2	10	19	22	0
135°	0	1	6	12	15	0
145°	1	0	2	7	9	0
155°	1	1	0	2	2	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°	560.0	560.0	560.0	560.0	560.0
2.5°	556.2	561.3	560.0	557.5	557.5
5°	553.7	558.8	558.1	557.5	558.8
7.5°	550.5	555.6	555.6	556.2	557.5
10°	545.5	551.8	551.8	551.8	552.4
12.5°	539.1	545.5	546.7	547.4	548.6
15°	530.9	537.9	540.4	542.9	544.8
17.5°	521.4	528.4	532.8	536.0	539.1
20°	510.0	517.6	523.3	527.1	530.3
22.5°	498.0	505.6	511.3	517.0	520.8
25°	484.0	492.9	499.9	506.8	510.6
27.5°	470.1	479.0	487.8	496.1	500.5
30°	454.2	464.4	474.5	484.0	488.5
32.5°	437.8	448.5	460.6	470.7	475.8
35°	421.9	432.7	446.0	457.4	463.1
37.5°	404.8	415.6	430.8	443.5	449.2
40°	386.5	398.5	415.0	428.3	434.6
42.5°	368.7	380.8	398.5	413.1	419.4
45°	349.7	362.4	380.8	396.6	403.6
47.5°	330.1	343.4	363.0	379.5	387.1
50°	310.4	324.4	344.6	362.4	370.0
52.5°	289.5	304.1	325.6	344.6	352.9
55°	268.6	283.8	306.0	326.3	335.1
57.5°	247.7	262.9	287.0	308.5	318.0
60°	226.2	242.0	266.7	290.2	300.9
62.5°	204.0	220.5	246.4	271.8	283.2
65°	182.5	198.9	227.4	254.0	266.1
67.5°	159.7	177.4	207.8	235.7	248.3
70°	136.2	156.5	188.8	218.6	231.2
72.5°	115.3	136.2	171.1	201.5	214.8
75°	91.9	115.3	153.3	185.0	198.3
77.5°	71.6	96.9	136.8	169.2	182.5
80°	51.3	79.2	121.0	153.9	167.3
82.5°	32.9	63.4	106.4	140.0	152.7
85°	17.1	49.4	92.5	126.7	139.4
87.5°	5.1	38.0	79.8	113.4	126.1
90°	0.0	29.1	69.1	101.4	113.4
92.5°	0.0	22.2	59.6	90.6	102.6
95°	0.0	17.1	50.7	79.8	91.2
97.5°	0.0	13.3	43.7	70.3	81.7
100°	0.0	10.8	37.4	62.1	72.9
102.5°	0.0	8.9	32.3	55.1	64.6
105°	0.0	6.3	26.6	48.1	57.0
107.5°	0.0	4.4	23.4	42.4	50.0
110°	0.0	3.8	20.9	36.7	44.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.2	18.4	32.9	39.3
115°	0.0	3.2	16.5	29.1	34.8
117.5°	0.0	2.5	13.9	26.0	31.0
120°	0.0	2.5	12.7	23.4	27.9
122.5°	0.0	1.9	11.4	20.9	25.3
125°	0.0	1.9	10.1	19.0	22.2
127.5°	0.0	1.3	8.9	17.1	20.3
130°	0.0	1.3	8.2	15.2	18.4
132.5°	0.0	0.6	7.6	13.9	16.5
135°	0.0	0.6	6.3	12.0	15.2
137.5°	0.0	0.0	5.7	10.8	13.3
140°	0.0	0.0	4.4	9.5	12.0
142.5°	0.6	0.0	3.8	8.2	10.1
145°	0.6	0.0	2.5	7.0	8.9
147.5°	0.6	0.6	1.9	5.7	7.0
150°	0.6	0.6	1.3	3.8	5.7
152.5°	0.6	0.6	0.6	2.5	3.8
155°	0.6	0.6	0.0	1.9	2.5
157.5°	0.6	0.6	0.0	0.6	1.3
160°	0.6	0.6	0.0	0.0	0.6
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	14.67	16.22	15.12	16.66	17.13	16.65	18.20	17.11	18.64	19.11
	3H	16.16	17.57	16.63	18.02	18.53	19.06	20.47	19.53	20.92	21.43
	4H	16.63	17.97	17.12	18.44	18.97	20.22	21.56	20.72	22.03	22.56
	6H	16.91	18.16	17.42	18.64	19.18	21.43	22.68	21.94	23.16	23.70
	8H	16.96	18.16	17.48	18.67	19.21	22.05	23.25	22.57	23.76	24.30
	12H	16.97	18.12	17.50	18.62	19.20	22.73	23.88	23.26	24.38	24.96
4H	2H	15.53	16.87	16.02	17.34	17.86	17.08	18.42	17.57	18.89	19.41
	3H	17.26	18.40	17.76	18.91	19.46	19.72	20.86	20.22	21.37	21.92
	4H	17.86	18.90	18.38	19.43	20.00	21.05	22.09	21.57	22.62	23.20
	6H	18.25	19.18	18.80	19.73	20.32	22.45	23.37	22.99	23.92	24.51
	8H	18.35	19.21	18.90	19.76	20.37	23.17	24.04	23.72	24.59	25.19
	12H	18.39	19.18	18.96	19.76	20.37	23.98	24.76	24.55	25.34	25.95
8H	4H	18.51	19.37	19.06	19.93	20.53	21.26	22.13	21.81	22.68	23.28
	6H	19.08	19.81	19.66	20.40	21.02	22.82	23.56	23.41	24.15	24.76
	8H	19.25	19.92	19.85	20.52	21.14	23.69	24.35	24.28	24.96	25.58
	12H	19.36	19.95	19.96	20.55	21.24	24.68	25.27	25.27	25.86	26.55
12H	4H	18.69	19.48	19.26	20.06	20.67	21.27	22.06	21.84	22.64	23.25
	6H	19.35	20.01	19.95	20.62	21.24	22.86	23.52	23.46	24.13	24.75
	8H	19.62	20.21	20.22	20.80	21.50	23.79	24.38	24.39	24.98	25.67