

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: P1357263

Luminaire Tested: 4ASL4-5HE-2-92765-UNV_3500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357263
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: 4ASL4-5HE-2-92765-UNV_3500K
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

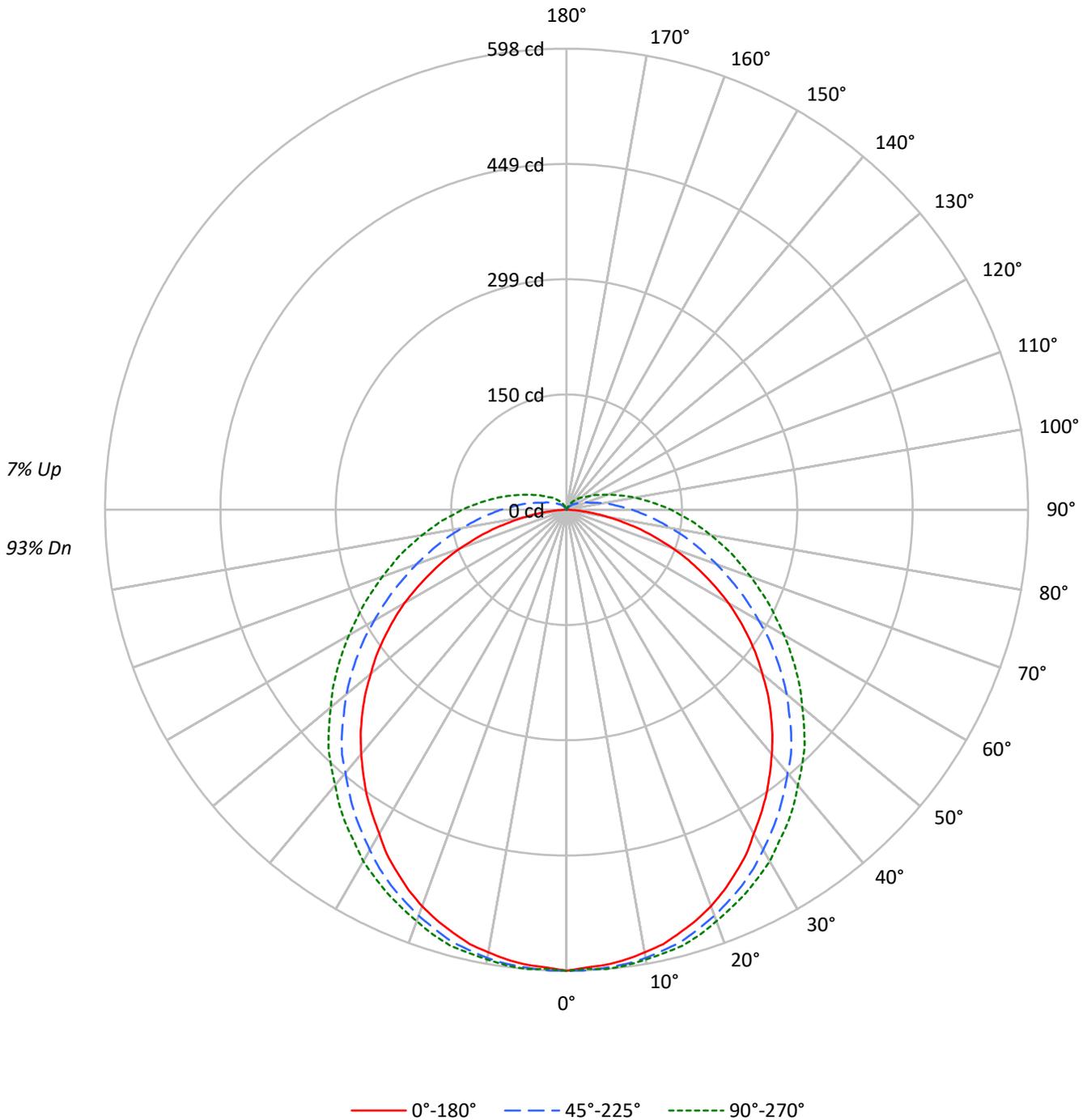
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2053.0 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
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				
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°	4853	4853	4853
5°	4815	4756	4742
10°	4782	4669	4627
15°	4738	4573	4534
20°	4681	4452	4404
25°	4591	4332	4291
30°	4479	4195	4180
35°	4391	4068	4050
40°	4288	3932	3914
45°	4185	3813	3815
50°	4052	3658	3668
55°	3924	3490	3550
60°	3767	3300	3426
65°	3522	3126	3330
70°	3247	2961	3241
75°	2848	2833	3212
80°	2218	2721	3201
85°	1347	2718	3293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	2.8
10°-20°	163.0	7.9
20°-30°	247.0	12.0
30°-40°	298.8	14.6
40°-50°	315.0	15.3
50°-60°	294.0	14.3
60°-70°	242.7	11.8
70°-80°	176.1	8.6
80°-90°	111.2	5.4
90°-100°	66.4	3.2
100°-110°	38.1	1.9
110°-120°	21.6	1.1
120°-130°	12.3	0.6
130°-140°	6.7	0.3
140°-150°	2.9	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	466.8	22.7
0°-40°	765.5	37.3
0°-60°	1374.5	66.9
0°-90°	1904.5	92.8
90°-120°	126.1	6.1
90°-150°	148.0	7.2
90°-180°	149.0	7.3
0°-180°	2053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	592	598	596	596	598	56
15°	568	576	579	581	585	160
25°	519	527	538	545	549	239
35°	451	463	480	493	498	282
45°	374	389	412	429	436	289
55°	288	305	331	354	363	257
65°	194	214	246	276	290	192
75°	100	126	171	207	222	105
85°	19	58	109	147	162	23
90°	0	36	85	120	135	1
95°	0	23	64	98	111	0
105°	0	8	36	62	72	0
115°	0	4	21	38	45	0
125°	0	2	13	24	28	0
135°	0	0	8	15	19	0
145°	0	0	4	9	11	0
155°	0	0	0	2	4	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°	598.0	598.0	598.0	598.0	598.0
2.5°	594.3	599.9	598.0	596.1	596.1
5°	592.4	598.0	596.1	596.1	598.0
7.5°	588.6	594.3	594.3	594.3	596.1
10°	583.0	590.5	590.5	590.5	592.4
12.5°	577.3	583.0	584.9	586.7	588.6
15°	567.9	575.5	579.2	581.1	584.9
17.5°	558.5	564.2	569.8	575.5	577.3
20°	547.2	554.8	560.4	566.0	567.9
22.5°	534.1	541.6	549.1	554.8	558.5
25°	519.0	526.6	537.8	545.4	549.1
27.5°	504.0	511.5	524.7	534.1	537.8
30°	485.2	496.5	509.6	520.9	526.6
32.5°	468.3	479.5	494.6	507.8	511.5
35°	451.3	462.6	479.5	492.7	498.3
37.5°	432.5	445.7	462.6	477.7	483.3
40°	413.7	426.9	445.7	462.6	466.4
42.5°	394.9	408.1	430.6	445.7	451.3
45°	374.2	389.3	411.8	428.8	436.3
47.5°	353.5	368.6	391.2	410.0	417.5
50°	331.0	347.9	372.4	391.2	398.7
52.5°	310.3	327.2	351.7	372.4	381.8
55°	287.7	304.7	331.0	353.5	362.9
57.5°	265.2	282.1	310.3	334.7	344.1
60°	242.6	259.5	287.7	315.9	325.3
62.5°	218.1	237.0	267.0	295.2	306.5
65°	193.7	214.4	246.4	276.4	289.6
67.5°	171.1	191.8	225.7	259.5	270.8
70°	146.7	169.3	206.9	240.7	253.9
72.5°	122.2	146.7	188.1	223.8	237.0
75°	99.7	126.0	171.1	206.9	221.9
77.5°	75.2	107.2	154.2	191.8	205.0
80°	54.5	88.4	137.3	176.8	189.9
82.5°	35.7	71.5	122.2	161.7	174.9
85°	18.8	58.3	109.1	146.7	161.7
87.5°	5.6	45.1	95.9	133.5	146.7
90°	0.0	35.7	84.6	120.4	135.4
92.5°	0.0	28.2	73.3	109.1	122.2
95°	0.0	22.6	63.9	97.8	111.0
97.5°	0.0	18.8	56.4	88.4	99.7
100°	0.0	15.0	48.9	79.0	90.3
102.5°	0.0	11.3	41.4	69.6	80.9
105°	0.0	7.5	35.7	62.1	71.5
107.5°	0.0	5.6	30.1	54.5	63.9
110°	0.0	5.6	28.2	47.0	56.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.8	24.4	43.3	50.8
115°	0.0	3.8	20.7	37.6	45.1
117.5°	0.0	3.8	18.8	33.9	41.4
120°	0.0	3.8	16.9	30.1	35.7
122.5°	0.0	1.9	15.0	26.3	32.0
125°	0.0	1.9	13.2	24.4	28.2
127.5°	0.0	1.9	11.3	22.6	26.3
130°	0.0	1.9	11.3	20.7	24.4
132.5°	0.0	0.0	9.4	18.8	22.6
135°	0.0	0.0	7.5	15.0	18.8
137.5°	0.0	0.0	7.5	13.2	16.9
140°	0.0	0.0	5.6	13.2	15.0
142.5°	0.0	0.0	3.8	11.3	13.2
145°	0.0	0.0	3.8	9.4	11.3
147.5°	0.0	0.0	1.9	7.5	9.4
150°	0.0	0.0	1.9	5.6	7.5
152.5°	0.0	0.0	0.0	3.8	5.6
155°	0.0	0.0	0.0	1.9	3.8
157.5°	0.0	0.0	0.0	0.0	1.9
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	14.80	16.34	15.27	16.80	17.29	16.86	18.39	17.33	18.85	19.34
	3H	16.30	17.70	16.79	18.17	18.70	19.31	20.71	19.80	21.18	21.71
	4H	16.78	18.11	17.29	18.60	19.14	20.52	21.85	21.03	22.34	22.88
	6H	17.06	18.29	17.58	18.80	19.36	21.79	23.03	22.31	23.53	24.09
	8H	17.11	18.30	17.64	18.82	19.39	22.45	23.64	22.98	24.16	24.73
	12H	17.13	18.26	17.66	18.78	19.38	23.18	24.32	23.72	24.83	25.43
4H	2H	15.68	17.01	16.19	17.50	18.04	17.29	18.62	17.80	19.11	19.65
	3H	17.42	18.56	17.94	19.09	19.65	19.97	21.10	20.49	21.63	22.20
	4H	18.03	19.07	18.57	19.61	20.21	21.36	22.39	21.89	22.93	23.53
	6H	18.43	19.35	18.99	19.92	20.53	22.82	23.74	23.38	24.31	24.92
	8H	18.53	19.39	19.09	19.96	20.58	23.59	24.45	24.16	25.02	25.65
	12H	18.58	19.36	19.16	19.96	20.59	24.45	25.23	25.03	25.82	26.45
8H	4H	18.73	19.59	19.29	20.15	20.78	21.58	22.44	22.14	23.00	23.63
	6H	19.31	20.04	19.91	20.65	21.28	23.22	23.95	23.82	24.56	25.19
	8H	19.50	20.16	20.11	20.78	21.42	24.13	24.79	24.74	25.41	26.05
	12H	19.62	20.21	20.23	20.82	21.53	25.17	25.76	25.78	26.37	27.08
12H	4H	18.93	19.71	19.51	20.30	20.94	21.59	22.37	22.17	22.96	23.59
	6H	19.62	20.28	20.23	20.90	21.54	23.26	23.92	23.87	24.54	25.18
	8H	19.90	20.49	20.51	21.10	21.81	24.24	24.83	24.85	25.44	26.15