

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: P1357266

Luminaire Tested: 4ASL4-5HE-2-92765-UNV_6500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357266
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_6500K
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

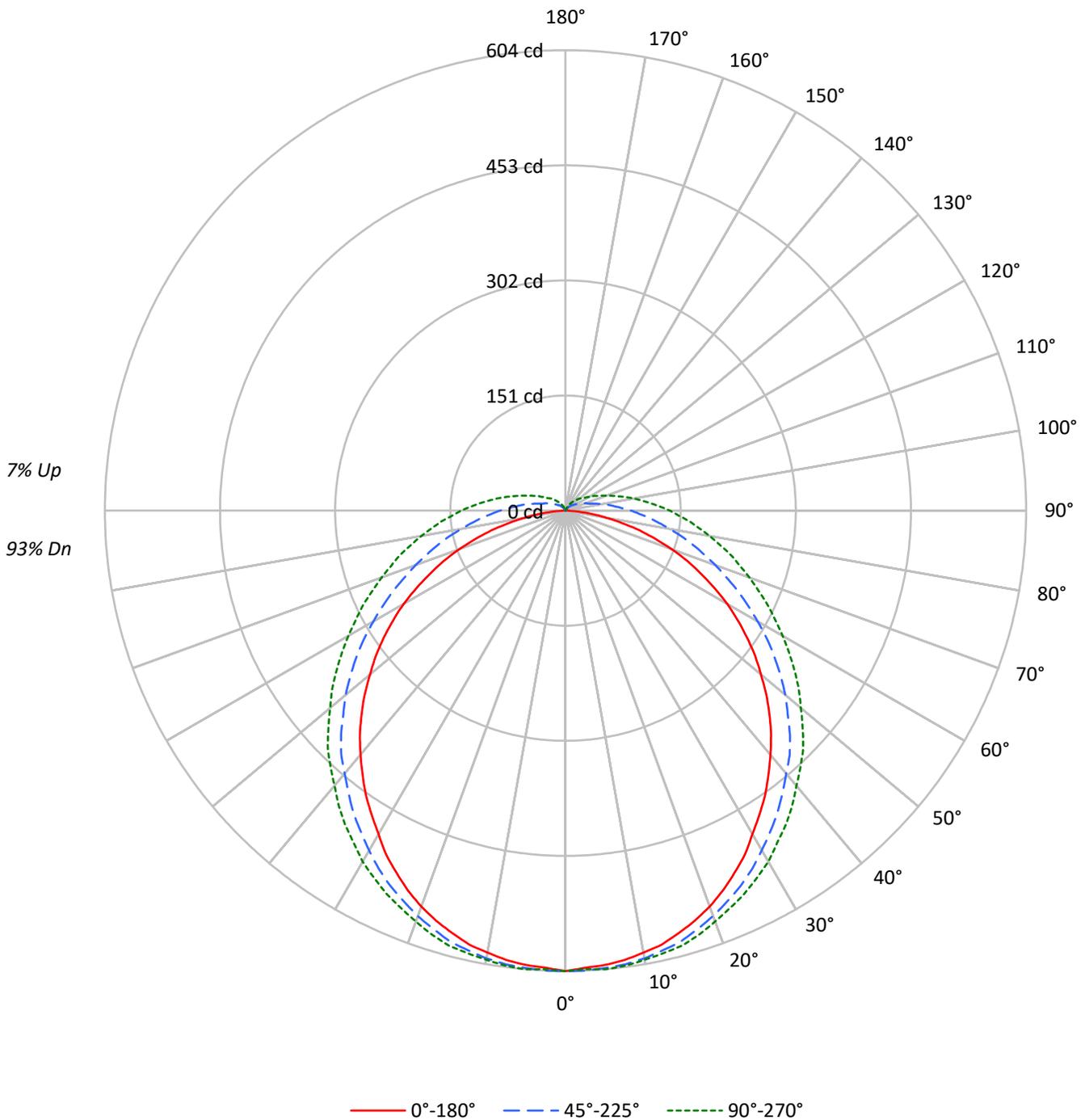
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2074.1 lumens
Efficiency: N/A
Efficacy: 121.3 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				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°	4902	4902	4902
5°	4864	4805	4790
10°	4831	4716	4674
15°	4786	4619	4580
20°	4729	4497	4449
25°	4638	4376	4335
30°	4524	4238	4222
35°	4436	4110	4092
40°	4333	3972	3954
45°	4229	3853	3854
50°	4094	3695	3705
55°	3965	3525	3587
60°	3806	3335	3461
65°	3558	3158	3364
70°	3280	2991	3275
75°	2876	2863	3245
80°	2242	2749	3235
85°	1362	2746	3328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4229 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	2.8
10°-20°	164.7	7.9
20°-30°	249.5	12.0
30°-40°	301.8	14.6
40°-50°	318.2	15.3
50°-60°	297.0	14.3
60°-70°	245.2	11.8
70°-80°	177.9	8.6
80°-90°	112.4	5.4
90°-100°	67.1	3.2
100°-110°	38.5	1.9
110°-120°	21.8	1.1
120°-130°	12.5	0.6
130°-140°	6.7	0.3
140°-150°	3.0	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	471.5	22.7
0°-40°	773.3	37.3
0°-60°	1388.5	66.9
0°-90°	1924.0	92.8
90°-120°	127.4	6.1
90°-150°	149.5	7.2
90°-180°	150.0	7.2
0°-180°	2074.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	598	604	602	602	604	57
15°	574	581	585	587	591	162
25°	524	532	543	551	555	242
35°	456	467	484	498	503	285
45°	378	393	416	433	441	292
55°	291	308	334	357	367	260
65°	196	217	249	279	293	194
75°	101	127	173	209	224	106
85°	19	59	110	148	163	23
90°	0	36	86	122	137	1
95°	0	23	65	99	112	0
105°	0	8	36	63	72	0
115°	0	4	21	38	46	0
125°	0	2	13	25	28	0
135°	0	0	8	15	19	0
145°	0	0	4	10	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°	604.1	604.1	604.1	604.1	604.1
2.5°	600.3	606.0	604.1	602.2	602.2
5°	598.4	604.1	602.2	602.2	604.1
7.5°	594.6	600.3	600.3	600.3	602.2
10°	588.9	596.5	596.5	596.5	598.4
12.5°	583.2	588.9	590.8	592.7	594.6
15°	573.7	581.3	585.1	587.0	590.8
17.5°	564.2	569.9	575.6	581.3	583.2
20°	552.8	560.4	566.1	571.8	573.7
22.5°	539.5	547.1	554.7	560.4	564.2
25°	524.3	531.9	543.3	550.9	554.7
27.5°	509.1	516.7	530.0	539.5	543.3
30°	490.1	501.5	514.8	526.2	531.9
32.5°	473.0	484.4	499.6	512.9	516.7
35°	456.0	467.3	484.4	497.7	503.4
37.5°	437.0	450.3	467.3	482.5	488.2
40°	418.0	431.3	450.3	467.3	471.1
42.5°	399.0	412.3	435.1	450.3	456.0
45°	378.1	393.3	416.1	433.2	440.8
47.5°	357.2	372.4	395.2	414.2	421.8
50°	334.4	351.5	376.2	395.2	402.8
52.5°	313.5	330.6	355.3	376.2	385.7
55°	290.7	307.8	334.4	357.2	366.7
57.5°	267.9	285.0	313.5	338.2	347.7
60°	245.1	262.2	290.7	319.2	328.7
62.5°	220.4	239.4	269.8	298.3	309.7
65°	195.7	216.6	248.9	279.3	292.6
67.5°	172.9	193.8	228.0	262.2	273.6
70°	148.2	171.0	209.0	243.2	256.5
72.5°	123.5	148.2	190.0	226.1	239.4
75°	100.7	127.3	172.9	209.0	224.2
77.5°	76.0	108.3	155.8	193.8	207.1
80°	55.1	89.3	138.7	178.6	191.9
82.5°	36.1	72.2	123.5	163.4	176.7
85°	19.0	58.9	110.2	148.2	163.4
87.5°	5.7	45.6	96.9	134.9	148.2
90°	0.0	36.1	85.5	121.6	136.8
92.5°	0.0	28.5	74.1	110.2	123.5
95°	0.0	22.8	64.6	98.8	112.1
97.5°	0.0	19.0	57.0	89.3	100.7
100°	0.0	15.2	49.4	79.8	91.2
102.5°	0.0	11.4	41.8	70.3	81.7
105°	0.0	7.6	36.1	62.7	72.2
107.5°	0.0	5.7	30.4	55.1	64.6
110°	0.0	5.7	28.5	47.5	57.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.8	24.7	43.7	51.3
115°	0.0	3.8	20.9	38.0	45.6
117.5°	0.0	3.8	19.0	34.2	41.8
120°	0.0	3.8	17.1	30.4	36.1
122.5°	0.0	1.9	15.2	26.6	32.3
125°	0.0	1.9	13.3	24.7	28.5
127.5°	0.0	1.9	11.4	22.8	26.6
130°	0.0	1.9	11.4	20.9	24.7
132.5°	0.0	0.0	9.5	19.0	22.8
135°	0.0	0.0	7.6	15.2	19.0
137.5°	0.0	0.0	7.6	13.3	17.1
140°	0.0	0.0	5.7	13.3	15.2
142.5°	0.0	0.0	3.8	11.4	13.3
145°	0.0	0.0	3.8	9.5	11.4
147.5°	0.0	0.0	1.9	7.6	9.5
150°	0.0	0.0	1.9	5.7	7.6
152.5°	0.0	0.0	0.0	3.8	5.7
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	14.84	16.37	15.31	16.83	17.32	16.90	18.43	17.37	18.89	19.38
	3H	16.34	17.74	16.82	18.21	18.74	19.35	20.75	19.83	21.22	21.75
	4H	16.82	18.15	17.32	18.63	19.18	20.56	21.88	21.06	22.37	22.92
	6H	17.09	18.33	17.61	18.83	19.39	21.83	23.06	22.35	23.56	24.13
	8H	17.15	18.33	17.68	18.86	19.42	22.49	23.67	23.02	24.20	24.76
	12H	17.16	18.30	17.70	18.82	19.41	23.22	24.35	23.75	24.87	25.47
4H	2H	15.72	17.04	16.22	17.53	18.08	17.33	18.65	17.83	19.14	19.69
	3H	17.46	18.59	17.98	19.12	19.69	20.01	21.14	20.53	21.67	22.24
	4H	18.07	19.10	18.61	19.64	20.24	21.39	22.43	21.93	22.97	23.57
	6H	18.47	19.38	19.03	19.95	20.56	22.86	23.78	23.42	24.34	24.96
	8H	18.57	19.43	19.13	19.99	20.62	23.63	24.49	24.19	25.06	25.68
	12H	18.61	19.40	19.20	19.99	20.62	24.48	25.26	25.07	25.86	26.49
8H	4H	18.76	19.62	19.33	20.19	20.82	21.61	22.47	22.18	23.04	23.67
	6H	19.35	20.08	19.94	20.69	21.32	23.26	23.99	23.85	24.60	25.23
	8H	19.54	20.20	20.14	20.82	21.46	24.17	24.83	24.78	25.45	26.09
	12H	19.66	20.25	20.27	20.85	21.56	25.21	25.80	25.82	26.40	27.11
12H	4H	18.96	19.75	19.55	20.34	20.97	21.62	22.40	22.21	23.00	23.63
	6H	19.65	20.31	20.26	20.93	21.58	23.29	23.96	23.90	24.57	25.22
	8H	19.94	20.53	20.55	21.14	21.85	24.28	24.87	24.89	25.47	26.18