

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: P1356958

Luminaire Tested: 2ASL4-5HE-2-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356958
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: 2ASL4-5HE-2-92765-UNV_4000K
Description: 2FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

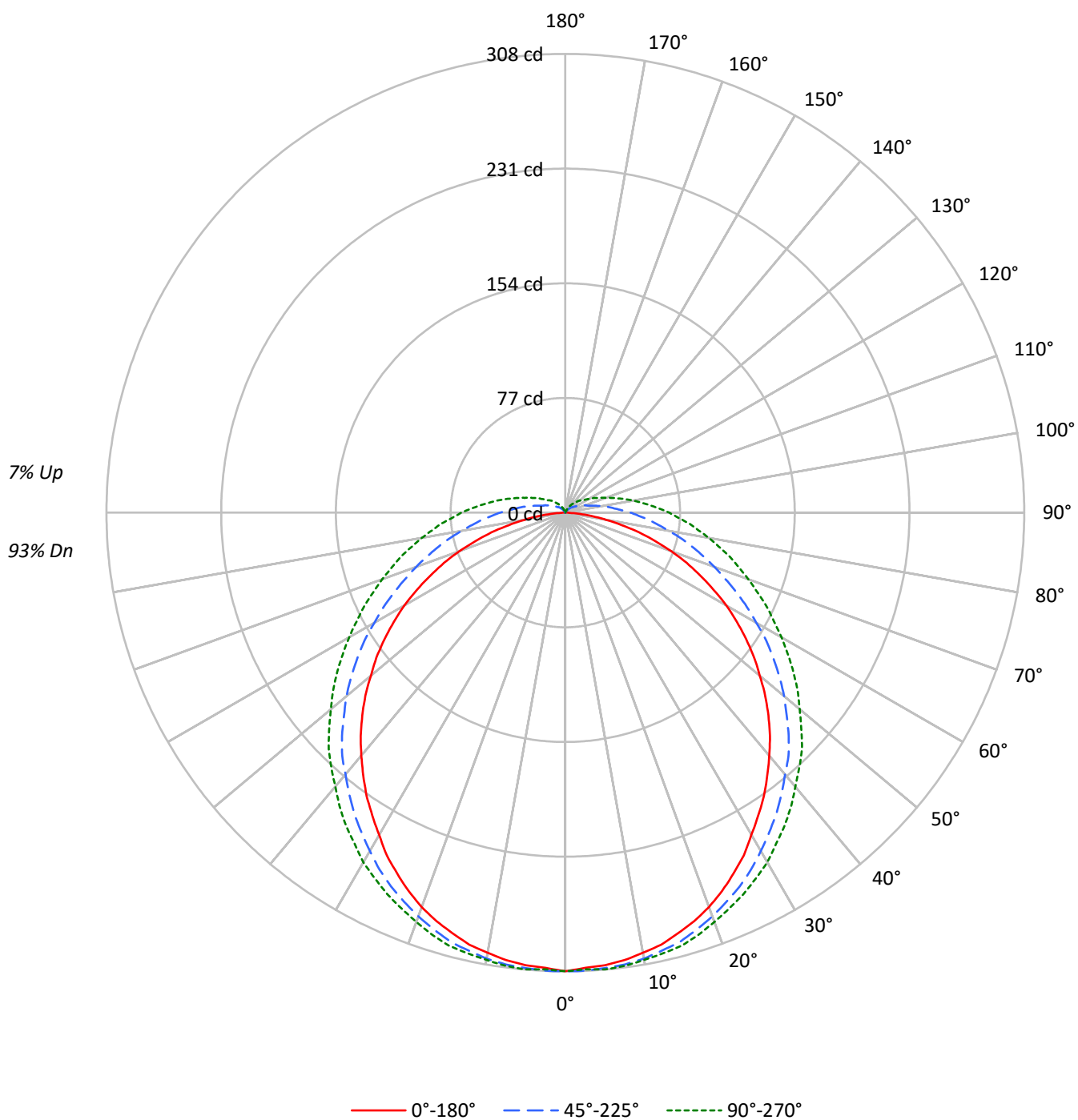
Lumens per Lamp: N/A
Luminaire Lumens: 1057.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 8.6
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5024	5024	5024
5°	4972	4915	4909
10°	4926	4817	4789
15°	4870	4711	4693
20°	4801	4579	4558
25°	4695	4449	4442
30°	4567	4302	4327
35°	4464	4165	4193
40°	4345	4018	4051
45°	4224	3888	3949
50°	4070	3721	3797
55°	3918	3541	3676
60°	3735	3339	3546
65°	3459	3151	3447
70°	3147	2972	3355
75°	2703	2828	3323
80°	2033	2696	3315
85°	1134	2663	3411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	2.8
10°-20°	83.9	7.9
20°-30°	127.2	12.0
30°-40°	153.8	14.6
40°-50°	162.2	15.3
50°-60°	151.4	14.3
60°-70°	125.0	11.8
70°-80°	90.6	8.6
80°-90°	57.3	5.4
90°-100°	34.2	3.2
100°-110°	19.6	1.9
110°-120°	11.1	1.1
120°-130°	6.4	0.6
130°-140°	3.4	0.3
140°-150°	1.5	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	240.3	22.7
0°-40°	394.1	37.3
0°-60°	707.7	66.9
0°-90°	980.5	92.8
90°-120°	64.9	6.1
90°-150°	76.2	7.2
90°-180°	76.0	7.2
0°-180°	1057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	308	308	308	308	308	
5°	305	308	307	307	308	29
15°	292	296	298	299	301	83
25°	267	271	277	281	283	123
35°	232	238	247	254	257	145
45°	193	200	212	221	225	149
55°	148	157	170	182	187	132
65°	100	110	127	142	149	99
75°	51	65	88	106	114	54
85°	10	30	56	76	83	12
90°	0	18	44	62	70	0
95°	0	12	33	50	57	0
105°	0	4	18	32	37	0
115°	0	2	11	19	23	0
125°	0	1	7	13	14	0
135°	0	0	4	8	10	0
145°	0	0	2	5	6	0
155°	0	0	0	1	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°	307.9	307.9	307.9	307.9	307.9
2.5°	306.0	308.9	307.9	306.9	306.9
5°	305.0	307.9	306.9	306.9	307.9
7.5°	303.1	306.0	306.0	306.0	306.9
10°	300.1	304.0	304.0	304.0	305.0
12.5°	297.2	300.1	301.1	302.1	303.1
15°	292.4	296.3	298.2	299.2	301.1
17.5°	287.6	290.5	293.4	296.3	297.2
20°	281.8	285.6	288.5	291.4	292.4
22.5°	275.0	278.8	282.7	285.6	287.6
25°	267.2	271.1	276.9	280.8	282.7
27.5°	259.5	263.4	270.1	275.0	276.9
30°	249.8	255.6	262.4	268.2	271.1
32.5°	241.1	246.9	254.6	261.4	263.4
35°	232.4	238.2	246.9	253.7	256.6
37.5°	222.7	229.5	238.2	245.9	248.8
40°	213.0	219.8	229.5	238.2	240.1
42.5°	203.3	210.1	221.7	229.5	232.4
45°	192.7	200.4	212.0	220.8	224.6
47.5°	182.0	189.8	201.4	211.1	214.9
50°	170.4	179.1	191.7	201.4	205.3
52.5°	159.8	168.5	181.1	191.7	196.5
55°	148.1	156.9	170.4	182.0	186.9
57.5°	136.5	145.2	159.8	172.3	177.2
60°	124.9	133.6	148.1	162.7	167.5
62.5°	112.3	122.0	137.5	152.0	157.8
65°	99.7	110.4	126.8	142.3	149.1
67.5°	88.1	98.8	116.2	133.6	139.4
70°	75.5	87.1	106.5	123.9	130.7
72.5°	62.9	75.5	96.8	115.2	122.0
75°	51.3	64.9	88.1	106.5	114.2
77.5°	38.7	55.2	79.4	98.8	105.5
80°	28.1	45.5	70.7	91.0	97.8
82.5°	18.4	36.8	62.9	83.3	90.0
85°	9.7	30.0	56.2	75.5	83.3
87.5°	2.9	23.2	49.4	68.7	75.5
90°	0.0	18.4	43.6	62.0	69.7
92.5°	0.0	14.5	37.8	56.2	62.9
95°	0.0	11.6	32.9	50.3	57.1
97.5°	0.0	9.7	29.0	45.5	51.3
100°	0.0	7.7	25.2	40.7	46.5
102.5°	0.0	5.8	21.3	35.8	41.6
105°	0.0	3.9	18.4	32.0	36.8
107.5°	0.0	2.9	15.5	28.1	32.9
110°	0.0	2.9	14.5	24.2	29.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.9	12.6	22.3	26.1
115°	0.0	1.9	10.7	19.4	23.2
117.5°	0.0	1.9	9.7	17.4	21.3
120°	0.0	1.9	8.7	15.5	18.4
122.5°	0.0	1.0	7.7	13.6	16.5
125°	0.0	1.0	6.8	12.6	14.5
127.5°	0.0	1.0	5.8	11.6	13.6
130°	0.0	1.0	5.8	10.7	12.6
132.5°	0.0	0.0	4.8	9.7	11.6
135°	0.0	0.0	3.9	7.7	9.7
137.5°	0.0	0.0	3.9	6.8	8.7
140°	0.0	0.0	2.9	6.8	7.7
142.5°	0.0	0.0	1.9	5.8	6.8
145°	0.0	0.0	1.9	4.8	5.8
147.5°	0.0	0.0	1.0	3.9	4.8
150°	0.0	0.0	1.0	2.9	3.9
152.5°	0.0	0.0	0.0	1.9	2.9
155°	0.0	0.0	0.0	1.0	1.9
157.5°	0.0	0.0	0.0	0.0	1.0
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	14.89	16.42	15.36	16.88	17.37	16.86	18.40	17.34	18.86	19.35
	3H	16.39	17.79	16.88	18.26	18.79	19.28	20.68	19.76	21.15	21.68
	4H	16.87	18.20	17.38	18.69	19.23	20.46	21.79	20.96	22.27	22.82
	6H	17.15	18.39	17.67	18.89	19.45	21.68	22.92	22.20	23.42	23.98
	8H	17.20	18.39	17.74	18.91	19.48	22.30	23.49	22.83	24.01	24.58
	12H	17.22	18.36	17.76	18.87	19.47	22.97	24.11	23.51	24.63	25.22
4H	2H	15.75	17.08	16.26	17.57	18.11	17.30	18.63	17.81	19.11	19.66
	3H	17.50	18.63	18.01	19.16	19.72	19.95	21.08	20.46	21.61	22.17
	4H	18.10	19.14	18.64	19.68	20.28	21.30	22.34	21.84	22.88	23.48
	6H	18.51	19.42	19.07	19.99	20.60	22.72	23.64	23.28	24.20	24.82
	8H	18.61	19.47	19.17	20.03	20.66	23.45	24.31	24.01	24.88	25.50
	12H	18.65	19.44	19.24	20.03	20.66	24.24	25.02	24.83	25.62	26.25
8H	4H	18.78	19.64	19.35	20.21	20.84	21.52	22.39	22.09	22.95	23.58
	6H	19.37	20.10	19.96	20.71	21.34	23.12	23.85	23.72	24.46	25.09
	8H	19.56	20.22	20.16	20.83	21.48	23.99	24.65	24.60	25.27	25.92
	12H	19.68	20.27	20.29	20.87	21.58	24.97	25.56	25.58	26.17	26.88
12H	4H	18.97	19.76	19.56	20.35	20.98	21.53	22.32	22.12	22.91	23.54
	6H	19.66	20.32	20.27	20.94	21.58	23.16	23.82	23.77	24.44	25.08
	8H	19.95	20.54	20.56	21.14	21.85	24.10	24.69	24.71	25.30	26.01