

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: P1356904

Luminaire Tested: 2ASL4-25VHE-3-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 2ASL4-25VHE-3-92765-UNV_4000K
Description: 2FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

Summary

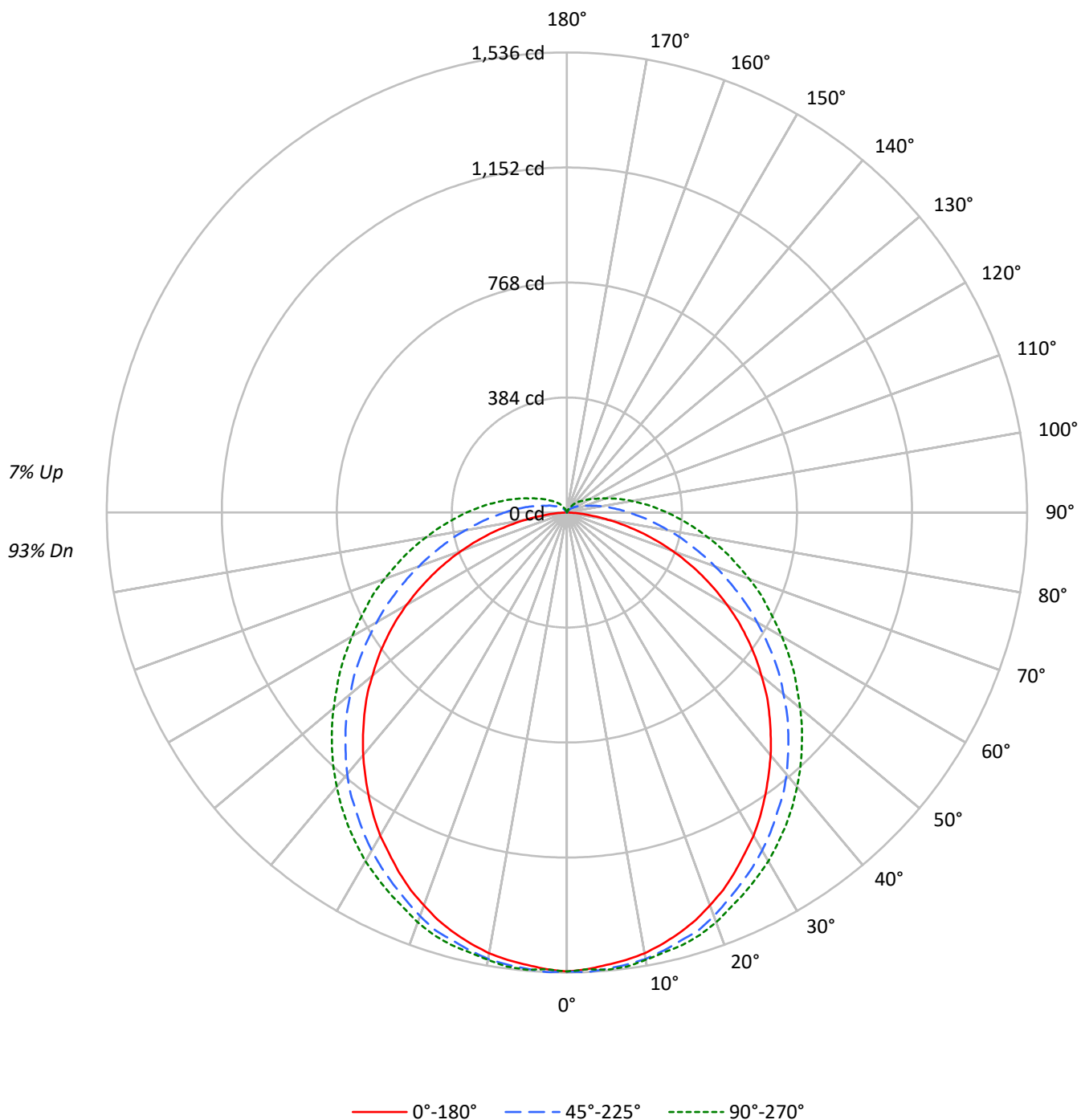
Lumens per Lamp: N/A
Luminaire Lumens: 5211.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 46
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
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107		101	101	101		96
1	105	100	95	91	102	97	92	88	91	88	84		86	83	80		81
2	95	86	79	72	92	84	77	71	79	73	68		75	70	66		71
3	86	75	67	60	83	73	65	59	69	62	57		65	60	55		62
4	79	66	57	50	76	65	56	49	61	54	48		58	52	47		55
5	73	59	50	43	70	58	49	42	55	47	41		52	45	40		49
6	67	53	44	37	64	52	43	37	49	42	36		47	40	35		45
7	62	48	39	33	60	47	38	32	45	37	32		43	36	31		41
8	58	44	35	29	56	43	35	29	41	34	28		39	32	28		37
9	54	40	32	26	52	39	31	26	38	30	25		36	30	25		35
10	50	37	29	24	49	36	29	23	35	28	23		33	27	23		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25006	25006	25006
5°	24727	24496	24433
10°	24531	23983	23816
15°	24202	23358	23292
20°	23776	22757	22702
25°	23291	22015	22030
30°	22781	21367	21460
35°	22159	20640	20828
40°	21579	19969	20163
45°	20954	19166	19493
50°	20245	18308	18798
55°	19473	17482	18173
60°	18485	16526	17539
65°	17245	15597	17013
70°	15671	14671	16601
75°	13431	13811	16320
80°	10145	13120	16197
85°	5587	12831	16440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20954 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	2.8
10°-20°	417.3	8.0
20°-30°	630.9	12.1
30°-40°	763.9	14.7
40°-50°	802.3	15.4
50°-60°	748.5	14.4
60°-70°	618.6	11.9
70°-80°	445.4	8.5
80°-90°	276.8	5.3
90°-100°	162.2	3.1
100°-110°	92.8	1.8
110°-120°	52.4	1.0
120°-130°	30.2	0.6
130°-140°	16.2	0.3
140°-150°	6.8	0.1
150°-160°	1.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1193.5	22.9
0°-40°	1957.4	37.6
0°-60°	3508.3	67.3
0°-90°	4849.2	93.1
90°-120°	307.4	5.9
90°-150°	360.6	6.9
90°-180°	362.0	6.9
0°-180°	5211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1517	1529	1529	1529	1533	144
15°	1453	1472	1478	1488	1494	410
25°	1326	1348	1370	1389	1402	611
35°	1154	1185	1224	1259	1274	722
45°	956	991	1045	1090	1109	737
55°	736	778	841	902	924	658
65°	497	545	628	707	736	492
75°	255	319	430	523	561	270
85°	48	143	271	366	402	58
90°	0	86	207	296	335	2
95°	0	54	156	239	274	0
105°	0	19	86	150	175	0
115°	0	10	51	92	108	0
125°	0	6	32	60	70	0
135°	0	0	19	38	48	0
145°	0	0	10	22	26	0
155°	0	0	0	6	10	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°	1532.6	1532.6	1532.6	1532.6	1532.6
2.5°	1526.3	1535.8	1535.8	1526.3	1526.3
5°	1516.7	1529.4	1529.4	1529.4	1532.6
7.5°	1507.1	1523.1	1523.1	1523.1	1529.4
10°	1494.4	1510.3	1513.5	1513.5	1516.7
12.5°	1475.3	1494.4	1497.6	1500.8	1503.9
15°	1453.0	1472.1	1478.5	1488.0	1494.4
17.5°	1427.5	1449.8	1462.5	1472.1	1478.5
20°	1395.6	1417.9	1433.8	1446.6	1456.2
22.5°	1363.7	1382.9	1402.0	1417.9	1427.5
25°	1325.5	1347.8	1370.1	1389.2	1402.0
27.5°	1284.1	1309.6	1338.3	1360.6	1373.3
30°	1245.9	1271.3	1303.2	1331.9	1344.6
32.5°	1201.2	1229.9	1265.0	1293.7	1309.6
35°	1153.5	1185.3	1223.6	1258.6	1274.5
37.5°	1105.7	1137.5	1185.3	1220.4	1236.3
40°	1057.9	1089.7	1140.7	1178.9	1194.9
42.5°	1006.9	1038.7	1092.9	1134.3	1153.5
45°	955.9	990.9	1045.1	1089.7	1108.8
47.5°	904.9	940.0	997.3	1045.1	1064.2
50°	847.6	885.8	943.2	997.3	1016.4
52.5°	793.4	831.6	895.4	949.5	968.6
55°	736.0	777.5	841.2	901.7	924.0
57.5°	678.7	720.1	787.0	850.8	876.2
60°	618.1	662.8	732.9	799.8	828.4
62.5°	557.6	605.4	681.9	752.0	780.7
65°	497.1	544.9	627.7	707.4	736.0
67.5°	436.5	487.5	576.7	659.6	694.6
70°	376.0	430.2	525.7	611.8	646.8
72.5°	315.4	372.8	477.9	567.2	602.2
75°	254.9	318.6	430.2	522.6	560.8
77.5°	194.4	267.7	388.7	481.1	519.4
80°	140.2	223.0	344.1	439.7	477.9
82.5°	89.2	178.4	305.9	401.5	439.7
85°	47.8	143.4	270.8	366.4	401.5
87.5°	15.9	111.5	235.8	331.4	366.4
90°	0.0	86.0	207.1	296.3	334.6
92.5°	0.0	66.9	181.6	267.7	302.7
95°	0.0	54.2	156.1	239.0	274.0
97.5°	0.0	44.6	137.0	213.5	245.3
100°	0.0	35.0	117.9	191.2	219.9
102.5°	0.0	28.7	102.0	168.9	197.6
105°	0.0	19.1	86.0	149.8	175.2
107.5°	0.0	15.9	73.3	133.8	156.1
110°	0.0	12.7	66.9	114.7	137.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.6	60.5	102.0	124.3
115°	0.0	9.6	51.0	92.4	108.3
117.5°	0.0	9.6	44.6	82.8	98.8
120°	0.0	6.4	41.4	73.3	89.2
122.5°	0.0	6.4	35.0	66.9	79.7
125°	0.0	6.4	31.9	60.5	70.1
127.5°	0.0	3.2	28.7	54.2	63.7
130°	0.0	3.2	25.5	47.8	57.4
132.5°	0.0	3.2	22.3	44.6	54.2
135°	0.0	0.0	19.1	38.2	47.8
137.5°	0.0	0.0	15.9	35.0	41.4
140°	0.0	0.0	12.7	28.7	38.2
142.5°	0.0	0.0	9.6	25.5	31.9
145°	0.0	0.0	9.6	22.3	25.5
147.5°	0.0	0.0	6.4	15.9	22.3
150°	0.0	0.0	3.2	12.7	15.9
152.5°	0.0	0.0	0.0	9.6	12.7
155°	0.0	0.0	0.0	6.4	9.6
157.5°	0.0	0.0	0.0	0.0	3.2
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	20.49	22.03	20.95	22.48	22.96	22.43	23.97	22.90	24.43	24.91
	3H	21.99	23.39	22.47	23.85	24.38	24.86	26.26	25.34	26.73	27.25
	4H	22.47	23.80	22.97	24.28	24.82	26.02	27.36	26.53	27.84	28.38
	6H	22.74	23.98	23.26	24.48	25.03	27.23	28.47	27.74	28.96	29.52
	8H	22.80	23.98	23.32	24.50	25.06	27.84	29.02	28.36	29.54	30.10
	12H	22.81	23.95	23.34	24.46	25.05	28.49	29.63	29.02	30.14	30.73
4H	2H	21.35	22.68	21.85	23.16	23.70	22.87	24.20	23.37	24.68	25.22
	3H	23.08	24.22	23.60	24.74	25.30	25.52	26.66	26.04	27.18	27.74
	4H	23.69	24.73	24.22	25.26	25.86	26.86	27.90	27.40	28.44	29.03
	6H	24.09	25.00	24.64	25.57	26.17	28.26	29.17	28.81	29.74	30.34
	8H	24.18	25.04	24.74	25.61	26.23	28.97	29.83	29.53	30.40	31.02
	12H	24.23	25.01	24.81	25.60	26.23	29.75	30.53	30.33	31.12	31.74
8H	4H	24.35	25.21	24.91	25.78	26.40	27.08	27.94	27.64	28.51	29.12
	6H	24.93	25.66	25.52	26.26	26.89	28.65	29.38	29.24	29.98	30.61
	8H	25.11	25.77	25.72	26.39	27.02	29.50	30.16	30.11	30.78	31.42
	12H	25.23	25.82	25.83	26.42	27.12	30.46	31.05	31.07	31.66	32.36
12H	4H	24.53	25.32	25.12	25.91	26.53	27.09	27.87	27.67	28.46	29.09
	6H	25.21	25.87	25.82	26.49	27.12	28.69	29.35	29.29	29.96	30.60
	8H	25.49	26.08	26.10	26.68	27.39	29.61	30.20	30.22	30.80	31.51