

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: P1356906

Luminaire Tested: 2ASL4-25VHE-3-92765-UNV\_6500K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356906  
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\_6500K  
Description: 2FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

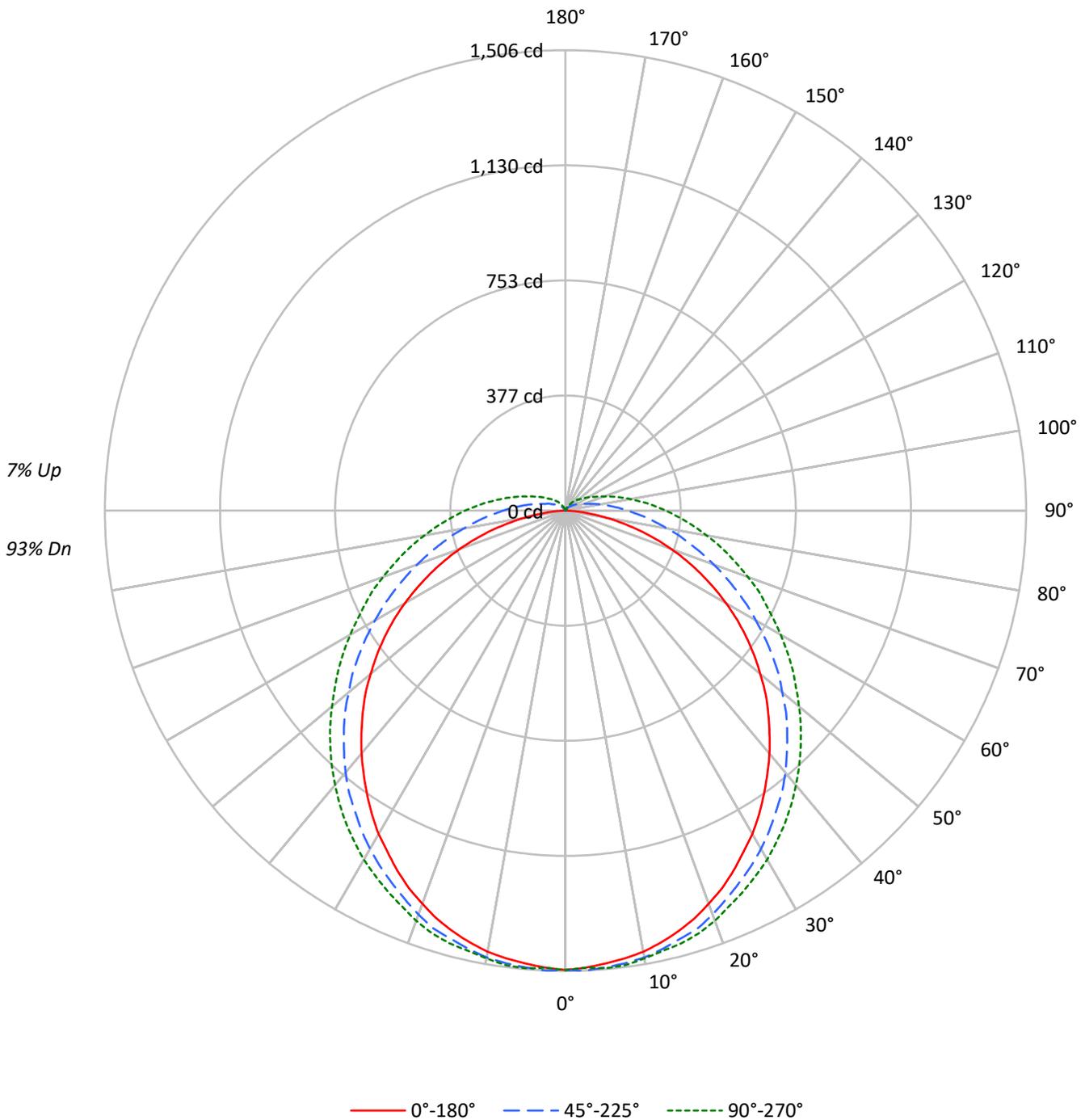
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5110.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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 (A<sub>in</sub>): 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	96	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	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	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24521	24521	24521
5°	24248	24022	23960
10°	24055	23519	23354
15°	23732	22905	22840
20°	23316	22317	22261
25°	22839	21589	21602
30°	22338	20954	21045
35°	21729	20239	20424
40°	21161	19583	19771
45°	20548	18796	19117
50°	19851	17953	18434
55°	19097	17144	17821
60°	18129	16205	17200
65°	16909	15294	16685
70°	15367	14389	16281
75°	13173	13542	16002
80°	9950	12869	15885
85°	5482	12584	16121

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20548 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	2.8
10°-20°	409.2	8.0
20°-30°	618.7	12.1
30°-40°	749.1	14.7
40°-50°	786.8	15.4
50°-60°	734.1	14.4
60°-70°	606.7	11.9
70°-80°	436.8	8.5
80°-90°	271.4	5.3
90°-100°	159.0	3.1
100°-110°	91.0	1.8
110°-120°	51.4	1.0
120°-130°	29.5	0.6
130°-140°	15.9	0.3
140°-150°	6.7	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1170.4	22.9
0°-40°	1919.5	37.6
0°-60°	3440.3	67.3
0°-90°	4755.2	93.1
90°-120°	301.4	5.9
90°-150°	353.6	6.9
90°-180°	355.0	6.9
0°-180°	5110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1487	1500	1500	1500	1503	141
15°	1425	1444	1450	1459	1465	402
25°	1300	1322	1344	1362	1375	599
35°	1131	1162	1200	1234	1250	708
45°	937	972	1025	1069	1087	723
55°	722	762	825	884	906	645
65°	487	534	616	694	722	482
75°	250	312	422	512	550	264
85°	47	141	266	359	394	57
90°	0	84	203	291	328	2
95°	0	53	153	234	269	0
105°	0	19	84	147	172	0
115°	0	9	50	91	106	0
125°	0	6	31	59	69	0
135°	0	0	19	38	47	0
145°	0	0	9	22	25	0
155°	0	0	0	6	9	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°	1502.9	1502.9	1502.9	1502.9	1502.9
2.5°	1496.7	1506.0	1506.0	1496.7	1496.7
5°	1487.3	1499.8	1499.8	1499.8	1502.9
7.5°	1477.9	1493.5	1493.5	1493.5	1499.8
10°	1465.4	1481.0	1484.2	1484.2	1487.3
12.5°	1446.7	1465.4	1468.5	1471.7	1474.8
15°	1424.8	1443.6	1449.8	1459.2	1465.4
17.5°	1399.8	1421.7	1434.2	1443.6	1449.8
20°	1368.6	1390.4	1406.1	1418.6	1427.9
22.5°	1337.3	1356.1	1374.8	1390.4	1399.8
25°	1299.8	1321.7	1343.6	1362.3	1374.8
27.5°	1259.2	1284.2	1312.3	1334.2	1346.7
30°	1221.7	1246.7	1278.0	1306.1	1318.6
32.5°	1178.0	1206.1	1240.5	1268.6	1284.2
35°	1131.1	1162.3	1199.8	1234.2	1249.8
37.5°	1084.2	1115.5	1162.3	1196.7	1212.3
40°	1037.4	1068.6	1118.6	1156.1	1171.7
42.5°	987.4	1018.6	1071.7	1112.3	1131.1
45°	937.4	971.7	1024.9	1068.6	1087.4
47.5°	887.4	921.7	978.0	1024.9	1043.6
50°	831.1	868.6	924.9	978.0	996.7
52.5°	778.0	815.5	878.0	931.1	949.9
55°	721.8	762.4	824.9	884.3	906.1
57.5°	665.5	706.2	771.8	834.3	859.3
60°	606.2	649.9	718.7	784.3	812.4
62.5°	546.8	593.7	668.7	737.4	765.5
65°	487.4	534.3	615.5	693.7	721.8
67.5°	428.1	478.1	565.5	646.8	681.2
70°	368.7	421.8	515.6	599.9	634.3
72.5°	309.3	365.6	468.7	556.2	590.5
75°	250.0	312.5	421.8	512.4	549.9
77.5°	190.6	262.5	381.2	471.8	509.3
80°	137.5	218.7	337.5	431.2	468.7
82.5°	87.5	175.0	300.0	393.7	431.2
85°	46.9	140.6	265.6	359.3	393.7
87.5°	15.6	109.4	231.2	325.0	359.3
90°	0.0	84.4	203.1	290.6	328.1
92.5°	0.0	65.6	178.1	262.5	296.8
95°	0.0	53.1	153.1	234.3	268.7
97.5°	0.0	43.7	134.4	209.3	240.6
100°	0.0	34.4	115.6	187.5	215.6
102.5°	0.0	28.1	100.0	165.6	193.7
105°	0.0	18.7	84.4	146.9	171.9
107.5°	0.0	15.6	71.9	131.2	153.1
110°	0.0	12.5	65.6	112.5	134.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.4	59.4	100.0	121.9
115°	0.0	9.4	50.0	90.6	106.2
117.5°	0.0	9.4	43.7	81.2	96.9
120°	0.0	6.2	40.6	71.9	87.5
122.5°	0.0	6.2	34.4	65.6	78.1
125°	0.0	6.2	31.2	59.4	68.7
127.5°	0.0	3.1	28.1	53.1	62.5
130°	0.0	3.1	25.0	46.9	56.2
132.5°	0.0	3.1	21.9	43.7	53.1
135°	0.0	0.0	18.7	37.5	46.9
137.5°	0.0	0.0	15.6	34.4	40.6
140°	0.0	0.0	12.5	28.1	37.5
142.5°	0.0	0.0	9.4	25.0	31.2
145°	0.0	0.0	9.4	21.9	25.0
147.5°	0.0	0.0	6.2	15.6	21.9
150°	0.0	0.0	3.1	12.5	15.6
152.5°	0.0	0.0	0.0	9.4	12.5
155°	0.0	0.0	0.0	6.2	9.4
157.5°	0.0	0.0	0.0	0.0	3.1
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	20.42	21.96	20.89	22.41	22.90	22.36	23.90	22.83	24.36	24.84
	3H	21.92	23.32	22.40	23.79	24.31	24.79	26.19	25.27	26.66	27.18
	4H	22.40	23.73	22.90	24.21	24.75	25.96	27.29	26.46	27.77	28.31
	6H	22.68	23.92	23.19	24.41	24.97	27.16	28.40	27.67	28.90	29.45
	8H	22.73	23.92	23.26	24.44	25.00	27.77	28.96	28.30	29.48	30.04
	12H	22.74	23.88	23.28	24.39	24.98	28.42	29.56	28.95	30.07	30.66
4H	2H	21.28	22.61	21.78	23.09	23.63	22.80	24.13	23.30	24.61	25.15
	3H	23.02	24.15	23.53	24.68	25.24	25.45	26.59	25.97	27.11	27.67
	4H	23.62	24.66	24.16	25.19	25.79	26.79	27.83	27.33	28.37	28.96
	6H	24.02	24.94	24.57	25.50	26.11	28.19	29.11	28.74	29.67	30.27
	8H	24.11	24.98	24.67	25.54	26.16	28.90	29.77	29.46	30.33	30.95
	12H	24.16	24.94	24.74	25.53	26.16	29.68	30.46	30.26	31.05	31.68
8H	4H	24.28	25.15	24.84	25.71	26.33	27.01	27.88	27.57	28.44	29.06
	6H	24.86	25.59	25.45	26.20	26.82	28.58	29.31	29.17	29.92	30.54
	8H	25.04	25.70	25.65	26.32	26.96	29.44	30.10	30.04	30.71	31.35
	12H	25.16	25.75	25.77	26.35	27.06	30.40	30.99	31.00	31.59	32.29
12H	4H	24.47	25.25	25.05	25.84	26.47	27.02	27.80	27.60	28.40	29.02
	6H	25.14	25.81	25.75	26.42	27.06	28.62	29.28	29.22	29.89	30.53
	8H	25.42	26.01	26.03	26.62	27.32	29.54	30.13	30.15	30.74	31.44