

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: P1357212

Luminaire Tested: 4ASL4-25VHE-3-92765-UNV_6500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357212
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: 4ASL4-25VHE-3-92765-UNV_6500K
Description: 4FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

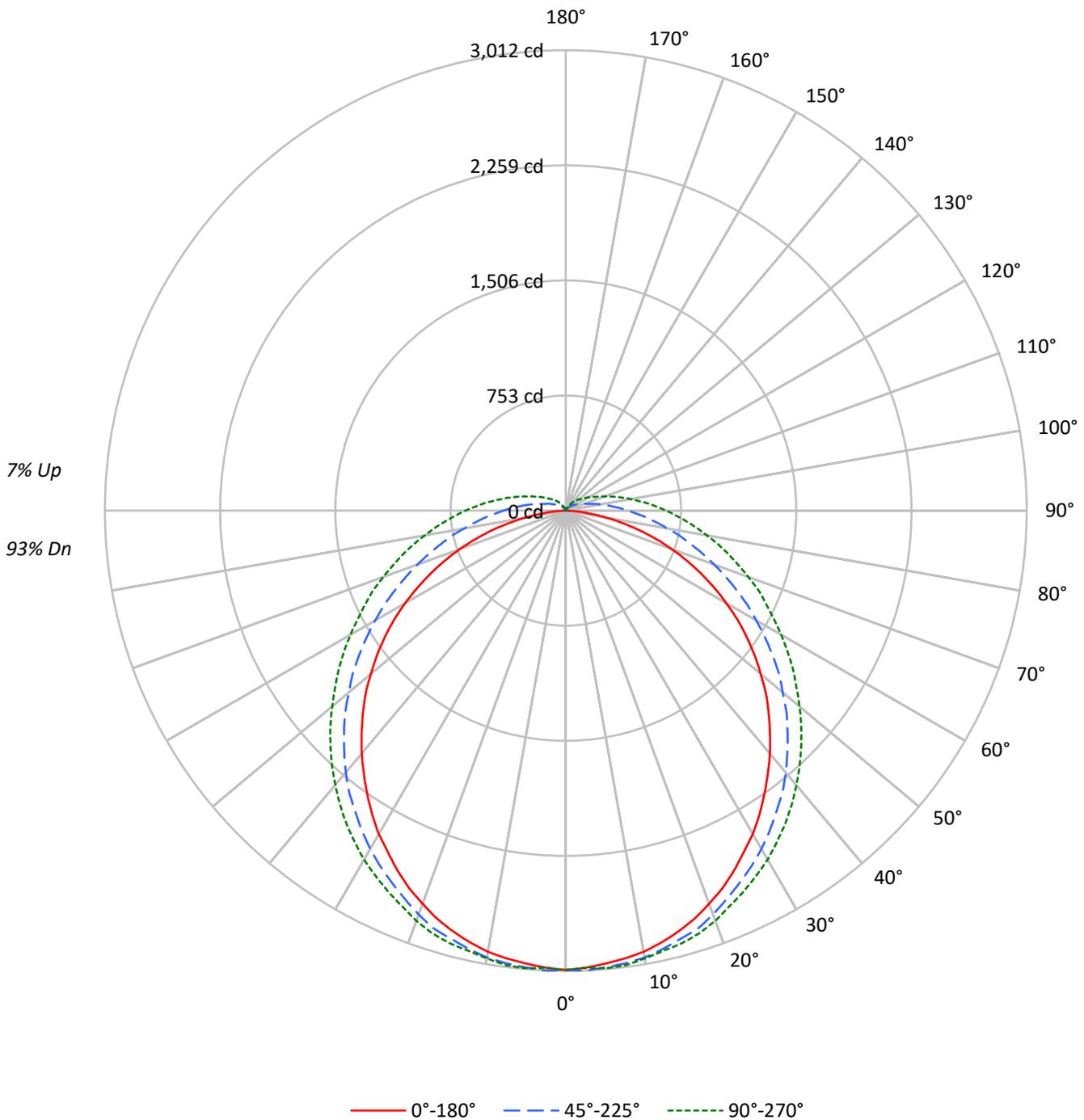
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10219.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 92.1
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

TEST NUMBER: P1357212
CATALOG NUMBER: 4ASL4-25VHE-3-92765-UNV_6500K

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	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°	24393	24393	24393
5°	24177	23934	23834
10°	24040	23469	23232
15°	23774	22892	22721
20°	23415	22338	22145
25°	22997	21644	21489
30°	22556	21041	20934
35°	22008	20360	20318
40°	21506	19735	19668
45°	20967	18979	19016
50°	20352	18168	18338
55°	19689	17393	17729
60°	18823	16489	17110
65°	17725	15619	16597
70°	16323	14756	16195
75°	14279	13967	15919
80°	11190	13375	15802
85°	6715	13234	16036

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20967 cd/sqm



TEST NUMBER: P1357212
 CATALOG NUMBER: 4ASL4-25VHE-3-92765-UNV_6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.0	2.8
10°-20°	818.4	8.0
20°-30°	1237.3	12.1
30°-40°	1498.2	14.7
40°-50°	1573.6	15.4
50°-60°	1468.1	14.4
60°-70°	1213.3	11.9
70°-80°	873.6	8.5
80°-90°	542.9	5.3
90°-100°	318.1	3.1
100°-110°	181.9	1.8
110°-120°	102.7	1.0
120°-130°	59.1	0.6
130°-140°	31.8	0.3
140°-150°	13.4	0.1
150°-160°	2.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2340.7	22.9
0°-40°	3839.0	37.6
0°-60°	6880.6	67.3
0°-90°	9510.3	93.1
90°-120°	602.8	5.9
90°-150°	707.1	6.9
90°-180°	710.0	6.9
0°-180°	10219.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3006	3006	3006	3006	3006	
5°	2975	3000	3000	3000	3006	283
15°	2850	2887	2900	2918	2931	803
25°	2600	2643	2687	2725	2750	1197
35°	2262	2325	2400	2468	2500	1416
45°	1875	1944	2050	2137	2175	1446
55°	1444	1525	1650	1768	1812	1290
65°	975	1069	1231	1387	1444	965
75°	500	625	844	1025	1100	529
85°	94	281	531	719	787	115
90°	0	169	406	581	656	4
95°	0	106	306	469	537	0
105°	0	38	169	294	344	0
115°	0	19	100	181	212	0
125°	0	12	62	119	138	0
135°	0	0	38	75	94	0
145°	0	0	19	44	50	0
155°	0	0	0	12	19	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357212
 CATALOG NUMBER: 4ASL4-25VHE-3-92765-UNV_6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3005.8	3005.8	3005.8	3005.8	3005.8
2.5°	2993.3	3012.1	3012.1	2993.3	2993.3
5°	2974.6	2999.6	2999.6	2999.6	3005.8
7.5°	2955.8	2987.1	2987.1	2987.1	2999.6
10°	2930.8	2962.1	2968.3	2968.3	2974.6
12.5°	2893.4	2930.8	2937.1	2943.3	2949.6
15°	2849.6	2887.1	2899.6	2918.4	2930.8
17.5°	2799.6	2843.4	2868.4	2887.1	2899.6
20°	2737.1	2780.9	2812.1	2837.1	2855.9
22.5°	2674.6	2712.1	2749.6	2780.9	2799.6
25°	2599.6	2643.4	2687.1	2724.6	2749.6
27.5°	2518.4	2568.4	2624.6	2668.4	2693.4
30°	2443.4	2493.4	2555.9	2612.1	2637.1
32.5°	2355.9	2412.2	2480.9	2537.2	2568.4
35°	2262.2	2324.7	2399.7	2468.4	2499.7
37.5°	2168.5	2230.9	2324.7	2393.4	2424.7
40°	2074.7	2137.2	2237.2	2312.2	2343.4
42.5°	1974.7	2037.2	2143.5	2224.7	2262.2
45°	1874.7	1943.5	2049.7	2137.2	2174.7
47.5°	1774.8	1843.5	1956.0	2049.7	2087.2
50°	1662.3	1737.3	1849.7	1956.0	1993.5
52.5°	1556.0	1631.0	1756.0	1862.2	1899.7
55°	1443.6	1524.8	1649.8	1768.5	1812.3
57.5°	1331.1	1412.3	1543.5	1668.5	1718.5
60°	1212.3	1299.8	1437.3	1568.5	1624.8
62.5°	1093.6	1187.3	1337.3	1474.8	1531.0
65°	974.9	1068.6	1231.1	1387.3	1443.6
67.5°	856.1	956.1	1131.1	1293.6	1362.3
70°	737.4	843.6	1031.1	1199.8	1268.6
72.5°	618.7	731.2	937.4	1112.3	1181.1
75°	499.9	624.9	843.6	1024.9	1099.8
77.5°	381.2	524.9	762.4	943.6	1018.6
80°	275.0	437.4	674.9	862.4	937.4
82.5°	175.0	350.0	599.9	787.4	862.4
85°	93.7	281.2	531.2	718.7	787.4
87.5°	31.2	218.7	462.4	649.9	718.7
90°	0.0	168.7	406.2	581.2	656.2
92.5°	0.0	131.2	356.2	524.9	593.7
95°	0.0	106.2	306.2	468.7	537.4
97.5°	0.0	87.5	268.7	418.7	481.2
100°	0.0	68.7	231.2	374.9	431.2
102.5°	0.0	56.2	200.0	331.2	387.4
105°	0.0	37.5	168.7	293.7	343.7
107.5°	0.0	31.2	143.7	262.5	306.2
110°	0.0	25.0	131.2	225.0	268.7



TEST NUMBER: P1357212

CATALOG NUMBER: 4ASL4-25VHE-3-92765-UNV_6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	18.7	118.7	200.0	243.7
115°	0.0	18.7	100.0	181.2	212.5
117.5°	0.0	18.7	87.5	162.5	193.7
120°	0.0	12.5	81.2	143.7	175.0
122.5°	0.0	12.5	68.7	131.2	156.2
125°	0.0	12.5	62.5	118.7	137.5
127.5°	0.0	6.2	56.2	106.2	125.0
130°	0.0	6.2	50.0	93.7	112.5
132.5°	0.0	6.2	43.7	87.5	106.2
135°	0.0	0.0	37.5	75.0	93.7
137.5°	0.0	0.0	31.2	68.7	81.2
140°	0.0	0.0	25.0	56.2	75.0
142.5°	0.0	0.0	18.7	50.0	62.5
145°	0.0	0.0	18.7	43.7	50.0
147.5°	0.0	0.0	12.5	31.2	43.7
150°	0.0	0.0	6.2	25.0	31.2
152.5°	0.0	0.0	0.0	18.7	25.0
155°	0.0	0.0	0.0	12.5	18.7
157.5°	0.0	0.0	0.0	0.0	6.2
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	20.43	21.97	20.90	22.43	22.91	22.46	24.00	22.93	24.45	24.94
	3H	21.93	23.33	22.41	23.80	24.32	24.92	26.32	25.40	26.79	27.31
	4H	22.41	23.74	22.91	24.22	24.76	26.12	27.45	26.62	27.93	28.47
	6H	22.68	23.92	23.20	24.42	24.97	27.37	28.61	27.89	29.11	29.66
	8H	22.74	23.92	23.26	24.44	25.00	28.02	29.21	28.54	29.73	30.28
	12H	22.75	23.89	23.28	24.40	24.99	28.73	29.87	29.26	30.38	30.97
4H	2H	21.31	22.64	21.81	23.12	23.66	22.89	24.22	23.39	24.71	25.24
	3H	23.04	24.18	23.56	24.70	25.26	25.58	26.71	26.10	27.24	27.80
	4H	23.65	24.69	24.18	25.22	25.81	26.95	27.99	27.48	28.52	29.12
	6H	24.04	24.96	24.60	25.52	26.13	28.39	29.31	28.95	29.87	30.48
	8H	24.14	25.00	24.70	25.56	26.18	29.15	30.01	29.71	30.57	31.19
	12H	24.18	24.97	24.77	25.56	26.18	29.98	30.76	30.56	31.35	31.98
8H	4H	24.33	25.19	24.89	25.75	26.37	27.17	28.03	27.73	28.59	29.21
	6H	24.91	25.64	25.50	26.24	26.87	28.78	29.51	29.37	30.11	30.74
	8H	25.09	25.75	25.69	26.36	27.00	29.67	30.33	30.28	30.95	31.59
	12H	25.20	25.79	25.81	26.40	27.10	30.69	31.28	31.30	31.89	32.59
12H	4H	24.52	25.31	25.10	25.90	26.52	27.17	27.96	27.76	28.55	29.17
	6H	25.20	25.86	25.81	26.48	27.11	28.82	29.48	29.42	30.09	30.73
	8H	25.48	26.07	26.09	26.67	27.38	29.78	30.37	30.39	30.97	31.68