

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: P1356901

Luminaire Tested: 2ASL4-25VHE-3-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356901
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_2700K
Description: 2FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

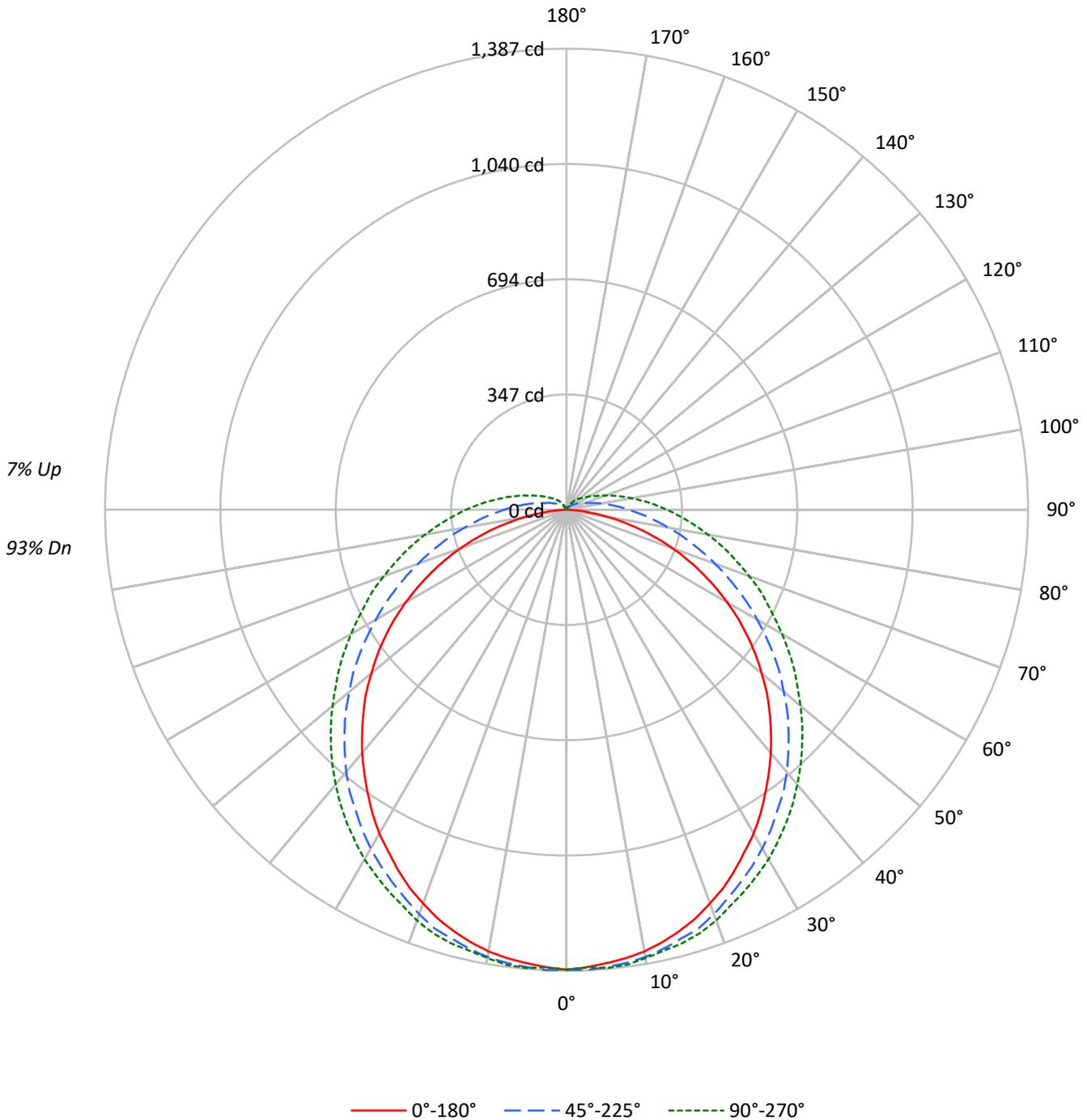
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4705.0 lumens
Efficiency: N/A
Efficacy: 102.3 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 (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				
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°	22578	22578	22578
5°	22326	22117	22061
10°	22149	21654	21503
15°	21852	21089	21031
20°	21468	20547	20498
25°	21029	19878	19889
30°	20568	19293	19378
35°	20005	18635	18807
40°	19482	18030	18204
45°	18920	17305	17601
50°	18279	16530	16973
55°	17584	15784	16409
60°	16690	14920	15837
65°	15569	14084	15363
70°	14150	13248	14990
75°	12129	12469	14734
80°	9161	11847	14625
85°	5050	11584	14843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	2.8
10°-20°	376.8	8.0
20°-30°	569.6	12.1
30°-40°	689.7	14.7
40°-50°	724.4	15.4
50°-60°	675.9	14.4
60°-70°	558.6	11.9
70°-80°	402.2	8.5
80°-90°	249.9	5.3
90°-100°	146.4	3.1
100°-110°	83.8	1.8
110°-120°	47.3	1.0
120°-130°	27.2	0.6
130°-140°	14.7	0.3
140°-150°	6.2	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1077.6	22.9
0°-40°	1767.3	37.6
0°-60°	3167.6	67.3
0°-90°	4378.3	93.1
90°-120°	277.5	5.9
90°-150°	325.6	6.9
90°-180°	327.0	7.0
0°-180°	4705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1369	1381	1381	1381	1384	130
15°	1312	1329	1335	1344	1349	370
25°	1197	1217	1237	1254	1266	551
35°	1041	1070	1105	1136	1151	652
45°	863	895	944	984	1001	666
55°	665	702	760	814	834	594
65°	449	492	567	639	665	444
75°	230	288	388	472	506	243
85°	43	130	244	331	362	53
90°	0	78	187	268	302	2
95°	0	49	141	216	247	0
105°	0	17	78	135	158	0
115°	0	9	46	83	98	0
125°	0	6	29	55	63	0
135°	0	0	17	34	43	0
145°	0	0	9	20	23	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°	1383.8	1383.8	1383.8	1383.8	1383.8
2.5°	1378.0	1386.7	1386.7	1378.0	1378.0
5°	1369.4	1380.9	1380.9	1380.9	1383.8
7.5°	1360.8	1375.2	1375.2	1375.2	1380.9
10°	1349.3	1363.7	1366.5	1366.5	1369.4
12.5°	1332.0	1349.3	1352.2	1355.0	1357.9
15°	1311.9	1329.1	1334.9	1343.5	1349.3
17.5°	1288.9	1309.0	1320.5	1329.1	1334.9
20°	1260.1	1280.2	1294.6	1306.1	1314.8
22.5°	1231.3	1248.6	1265.8	1280.2	1288.9
25°	1196.8	1216.9	1237.1	1254.3	1265.8
27.5°	1159.4	1182.4	1208.3	1228.4	1240.0
30°	1124.9	1147.9	1176.7	1202.6	1214.1
32.5°	1084.6	1110.5	1142.1	1168.0	1182.4
35°	1041.4	1070.2	1104.7	1136.4	1150.8
37.5°	998.3	1027.1	1070.2	1101.9	1116.2
40°	955.1	983.9	1029.9	1064.5	1078.8
42.5°	909.1	937.9	986.8	1024.2	1041.4
45°	863.1	894.7	943.6	983.9	1001.2
47.5°	817.0	848.7	900.5	943.6	960.9
50°	765.3	799.8	851.6	900.5	917.7
52.5°	716.4	750.9	808.4	857.3	874.6
55°	664.6	702.0	759.5	814.2	834.3
57.5°	612.8	650.2	710.6	768.1	791.2
60°	558.1	598.4	661.7	722.1	748.0
62.5°	503.5	546.6	615.7	679.0	704.8
65°	448.8	492.0	566.8	638.7	664.6
67.5°	394.1	440.2	520.7	595.5	627.2
70°	339.5	388.4	474.7	552.4	584.0
72.5°	284.8	336.6	431.5	512.1	543.7
75°	230.2	287.7	388.4	471.8	506.3
77.5°	175.5	241.7	351.0	434.4	468.9
80°	126.6	201.4	310.7	397.0	431.5
82.5°	80.6	161.1	276.2	362.5	397.0
85°	43.2	129.5	244.5	330.8	362.5
87.5°	14.4	100.7	212.9	299.2	330.8
90°	0.0	77.7	187.0	267.6	302.1
92.5°	0.0	60.4	164.0	241.7	273.3
95°	0.0	48.9	141.0	215.8	247.4
97.5°	0.0	40.3	123.7	192.8	221.5
100°	0.0	31.6	106.4	172.6	198.5
102.5°	0.0	25.9	92.1	152.5	178.4
105°	0.0	17.3	77.7	135.2	158.2
107.5°	0.0	14.4	66.2	120.8	141.0
110°	0.0	11.5	60.4	103.6	123.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.6	54.7	92.1	112.2
115°	0.0	8.6	46.0	83.4	97.8
117.5°	0.0	8.6	40.3	74.8	89.2
120°	0.0	5.8	37.4	66.2	80.6
122.5°	0.0	5.8	31.6	60.4	71.9
125°	0.0	5.8	28.8	54.7	63.3
127.5°	0.0	2.9	25.9	48.9	57.5
130°	0.0	2.9	23.0	43.2	51.8
132.5°	0.0	2.9	20.1	40.3	48.9
135°	0.0	0.0	17.3	34.5	43.2
137.5°	0.0	0.0	14.4	31.6	37.4
140°	0.0	0.0	11.5	25.9	34.5
142.5°	0.0	0.0	8.6	23.0	28.8
145°	0.0	0.0	8.6	20.1	23.0
147.5°	0.0	0.0	5.8	14.4	20.1
150°	0.0	0.0	2.9	11.5	14.4
152.5°	0.0	0.0	0.0	8.6	11.5
155°	0.0	0.0	0.0	5.8	8.6
157.5°	0.0	0.0	0.0	0.0	2.9
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	20.13	21.67	20.60	22.13	22.61	22.07	23.61	22.54	24.07	24.55
	3H	21.63	23.03	22.11	23.50	24.02	24.50	25.91	24.98	26.37	26.89
	4H	22.11	23.44	22.61	23.93	24.46	25.67	27.00	26.17	27.48	28.02
	6H	22.39	23.63	22.90	24.12	24.68	26.87	28.11	27.39	28.61	29.16
	8H	22.44	23.63	22.97	24.15	24.71	27.48	28.67	28.01	29.19	29.75
	12H	22.45	23.59	22.99	24.11	24.70	28.13	29.27	28.67	29.78	30.38
4H	2H	20.99	22.32	21.49	22.81	23.34	22.51	23.85	23.02	24.33	24.87
	3H	22.73	23.86	23.24	24.39	24.95	25.17	26.30	25.68	26.83	27.39
	4H	23.33	24.37	23.87	24.91	25.50	26.51	27.54	27.04	28.08	28.67
	6H	23.73	24.65	24.29	25.21	25.82	27.90	28.82	28.46	29.38	29.99
	8H	23.83	24.69	24.39	25.25	25.87	28.62	29.48	29.18	30.04	30.66
	12H	23.87	24.66	24.45	25.25	25.87	29.39	30.17	29.97	30.76	31.39
8H	4H	24.00	24.86	24.56	25.42	26.04	26.73	27.59	27.29	28.15	28.77
	6H	24.57	25.31	25.17	25.91	26.54	28.29	29.02	28.88	29.63	30.25
	8H	24.76	25.42	25.36	26.03	26.67	29.15	29.81	29.75	30.42	31.06
	12H	24.87	25.46	25.48	26.07	26.77	30.11	30.70	30.71	31.30	32.01
12H	4H	24.18	24.96	24.76	25.55	26.18	26.73	27.52	27.32	28.11	28.73
	6H	24.86	25.52	25.46	26.13	26.77	28.33	28.99	28.94	29.61	30.24
	8H	25.14	25.73	25.74	26.33	27.03	29.26	29.85	29.86	30.45	31.15