

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: P1356903

Luminaire Tested: 2ASL4-25VHE-3-92765-UNV_3500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356903
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_3500K
Description: 2FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

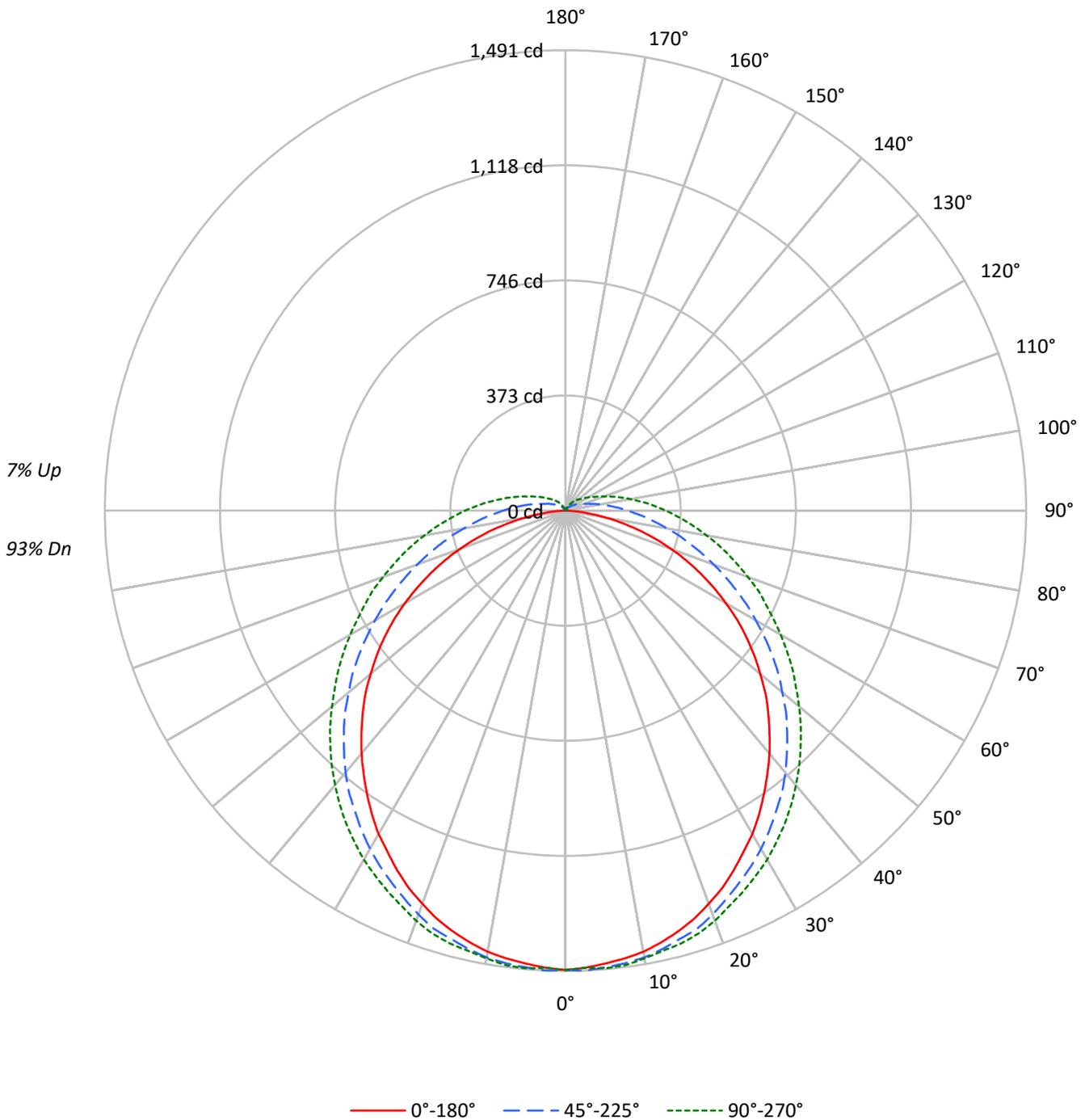
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5059.0 lumens
Efficiency: N/A
Efficacy: 110.0 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°	24277	24277	24277
5°	24006	23781	23721
10°	23815	23284	23122
15°	23496	22676	22613
20°	23083	22093	22039
25°	22611	21374	21387
30°	22115	20744	20835
35°	21512	20038	20222
40°	20949	19386	19574
45°	20342	18607	18925
50°	19653	17772	18251
55°	18906	16973	17644
60°	17946	16043	17029
65°	16742	15143	16518
70°	15212	14244	16119
75°	13041	13407	15842
80°	9848	12739	15726
85°	5424	12456	15961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20342 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	2.8
10°-20°	405.1	8.0
20°-30°	612.5	12.1
30°-40°	741.6	14.7
40°-50°	778.9	15.4
50°-60°	726.7	14.4
60°-70°	600.6	11.9
70°-80°	432.4	8.5
80°-90°	268.7	5.3
90°-100°	157.5	3.1
100°-110°	90.1	1.8
110°-120°	50.9	1.0
120°-130°	29.3	0.6
130°-140°	15.8	0.3
140°-150°	6.6	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1158.7	22.9
0°-40°	1900.3	37.6
0°-60°	3405.9	67.3
0°-90°	4707.7	93.1
90°-120°	298.4	5.9
90°-150°	350.1	6.9
90°-180°	351.0	6.9
0°-180°	5059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1472	1485	1485	1485	1488	140
15°	1411	1429	1435	1445	1451	398
25°	1287	1308	1330	1349	1361	593
35°	1120	1151	1188	1222	1237	701
45°	928	962	1015	1058	1076	716
55°	715	755	817	875	897	638
65°	483	529	609	687	715	478
75°	248	309	418	507	544	262
85°	46	139	263	356	390	57
90°	0	84	201	288	325	2
95°	0	53	152	232	266	0
105°	0	19	84	145	170	0
115°	0	9	50	90	105	0
125°	0	6	31	59	68	0
135°	0	0	19	37	46	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°	1487.9	1487.9	1487.9	1487.9	1487.9
2.5°	1481.7	1491.0	1491.0	1481.7	1481.7
5°	1472.5	1484.8	1484.8	1484.8	1487.9
7.5°	1463.2	1478.6	1478.6	1478.6	1484.8
10°	1450.8	1466.3	1469.4	1469.4	1472.5
12.5°	1432.2	1450.8	1453.9	1457.0	1460.1
15°	1410.6	1429.1	1435.3	1444.6	1450.8
17.5°	1385.8	1407.5	1419.9	1429.1	1435.3
20°	1354.9	1376.6	1392.0	1404.4	1413.7
22.5°	1324.0	1342.5	1361.1	1376.6	1385.8
25°	1286.8	1308.5	1330.2	1348.7	1361.1
27.5°	1246.6	1271.4	1299.2	1320.9	1333.3
30°	1209.5	1234.3	1265.2	1293.0	1305.4
32.5°	1166.2	1194.0	1228.1	1255.9	1271.4
35°	1119.8	1150.7	1187.9	1221.9	1237.4
37.5°	1073.4	1104.3	1150.7	1184.8	1200.2
40°	1027.0	1057.9	1107.4	1144.6	1160.0
42.5°	977.5	1008.4	1061.0	1101.2	1119.8
45°	928.0	962.0	1014.6	1057.9	1076.5
47.5°	878.5	912.5	968.2	1014.6	1033.2
50°	822.8	860.0	915.6	968.2	986.8
52.5°	770.3	807.4	869.2	921.8	940.4
55°	714.6	754.8	816.7	875.4	897.1
57.5°	658.9	699.1	764.1	825.9	850.7
60°	600.1	643.4	711.5	776.4	804.3
62.5°	541.3	587.7	662.0	730.0	757.9
65°	482.6	529.0	609.4	686.7	714.6
67.5°	423.8	473.3	559.9	640.3	674.4
70°	365.0	417.6	510.4	593.9	628.0
72.5°	306.2	361.9	464.0	550.6	584.7
75°	247.5	309.3	417.6	507.3	544.4
77.5°	188.7	259.8	377.4	467.1	504.2
80°	136.1	216.5	334.1	426.9	464.0
82.5°	86.6	173.2	297.0	389.8	426.9
85°	46.4	139.2	262.9	355.7	389.8
87.5°	15.5	108.3	228.9	321.7	355.7
90°	0.0	83.5	201.1	287.7	324.8
92.5°	0.0	65.0	176.3	259.8	293.9
95°	0.0	52.6	151.6	232.0	266.0
97.5°	0.0	43.3	133.0	207.3	238.2
100°	0.0	34.0	114.5	185.6	213.4
102.5°	0.0	27.8	99.0	163.9	191.8
105°	0.0	18.6	83.5	145.4	170.1
107.5°	0.0	15.5	71.1	129.9	151.6
110°	0.0	12.4	65.0	111.4	133.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.3	58.8	99.0	120.6
115°	0.0	9.3	49.5	89.7	105.2
117.5°	0.0	9.3	43.3	80.4	95.9
120°	0.0	6.2	40.2	71.1	86.6
122.5°	0.0	6.2	34.0	65.0	77.3
125°	0.0	6.2	30.9	58.8	68.1
127.5°	0.0	3.1	27.8	52.6	61.9
130°	0.0	3.1	24.7	46.4	55.7
132.5°	0.0	3.1	21.7	43.3	52.6
135°	0.0	0.0	18.6	37.1	46.4
137.5°	0.0	0.0	15.5	34.0	40.2
140°	0.0	0.0	12.4	27.8	37.1
142.5°	0.0	0.0	9.3	24.7	30.9
145°	0.0	0.0	9.3	21.7	24.7
147.5°	0.0	0.0	6.2	15.5	21.7
150°	0.0	0.0	3.1	12.4	15.5
152.5°	0.0	0.0	0.0	9.3	12.4
155°	0.0	0.0	0.0	6.2	9.3
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	20.38	21.92	20.85	22.38	22.86	22.33	23.87	22.80	24.32	24.81
	3H	21.88	23.29	22.36	23.75	24.28	24.75	26.16	25.23	26.62	27.15
	4H	22.36	23.70	22.87	24.18	24.72	25.92	27.25	26.42	27.73	28.27
	6H	22.64	23.88	23.16	24.38	24.93	27.12	28.36	27.64	28.86	29.41
	8H	22.69	23.88	23.22	24.40	24.96	27.73	28.92	28.26	29.44	30.00
	12H	22.71	23.85	23.24	24.36	24.95	28.38	29.52	28.92	30.04	30.63
4H	2H	21.24	22.58	21.75	23.06	23.60	22.77	24.10	23.27	24.58	25.12
	3H	22.98	24.12	23.50	24.64	25.20	25.42	26.55	25.93	27.08	27.64
	4H	23.59	24.62	24.12	25.16	25.75	26.76	27.80	27.29	28.33	28.92
	6H	23.98	24.90	24.54	25.46	26.07	28.15	29.07	28.71	29.63	30.24
	8H	24.08	24.94	24.64	25.50	26.12	28.87	29.73	29.43	30.29	30.91
	12H	24.12	24.91	24.71	25.50	26.12	29.64	30.43	30.22	31.02	31.64
8H	4H	24.25	25.11	24.81	25.67	26.29	26.98	27.84	27.54	28.40	29.02
	6H	24.83	25.56	25.42	26.16	26.79	28.54	29.28	29.14	29.88	30.51
	8H	25.01	25.67	25.61	26.28	26.92	29.40	30.06	30.01	30.68	31.31
	12H	25.12	25.71	25.73	26.32	27.02	30.36	30.95	30.97	31.55	32.26
12H	4H	24.43	25.22	25.01	25.81	26.43	26.99	27.77	27.57	28.36	28.98
	6H	25.11	25.77	25.71	26.38	27.02	28.58	29.24	29.19	29.86	30.50
	8H	25.39	25.98	25.99	26.58	27.28	29.51	30.10	30.12	30.70	31.41