

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: P1356887

Luminaire Tested: 2ASL4-20VHE-3-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356887  
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: 2ASL4-20VHE-3-92765-UNV\_3000K  
Description: 2FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

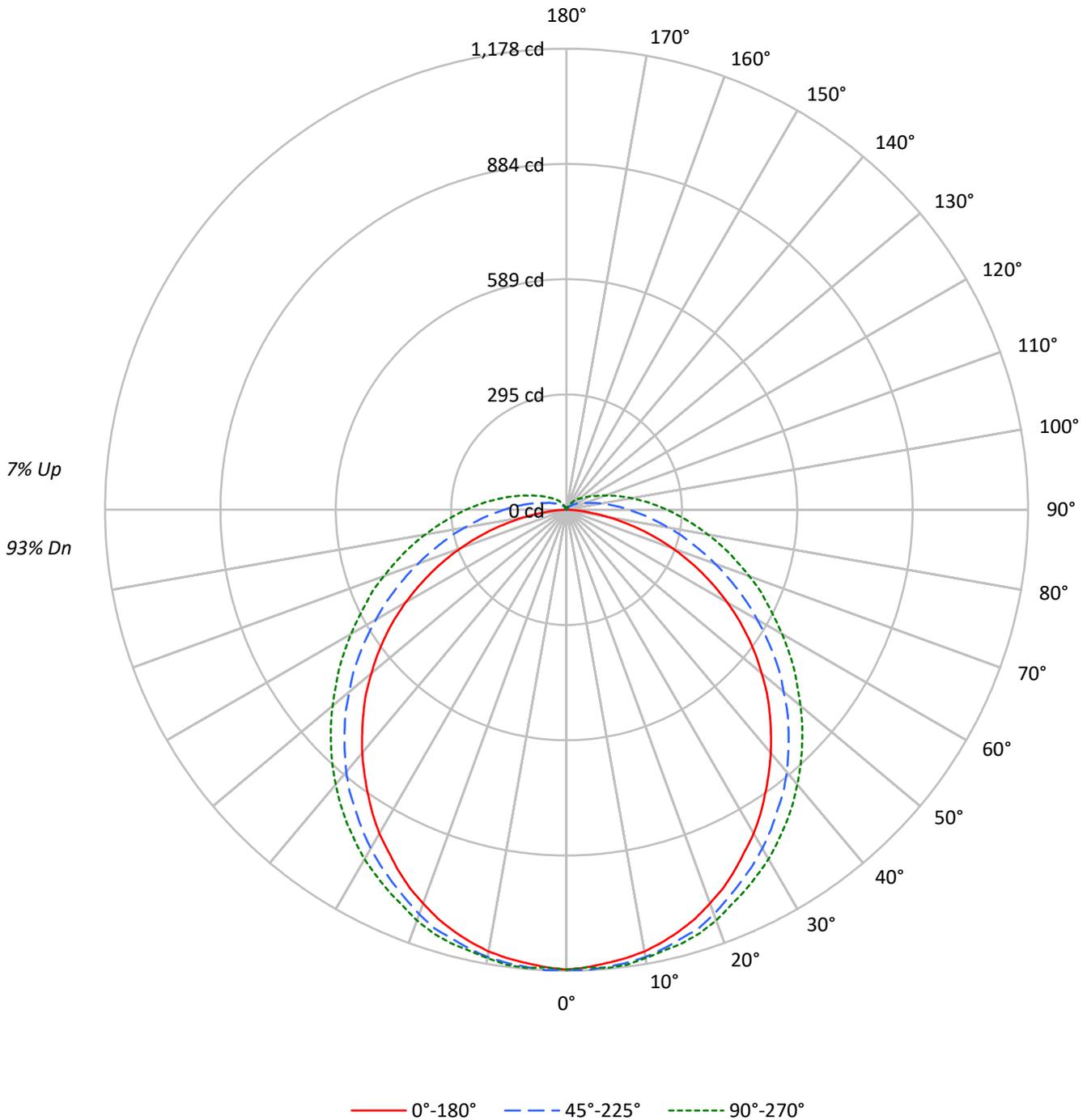
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3996.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 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): 36.5  
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°	19176	19176	19176
5°	18962	18784	18737
10°	18812	18391	18263
15°	18559	17911	17862
20°	18233	17451	17408
25°	17861	16883	16893
30°	17469	16386	16457
35°	16991	15828	15973
40°	16547	15313	15462
45°	16068	14697	14949
50°	15523	14038	14415
55°	14933	13407	13937
60°	14175	12672	13451
65°	13224	11962	13046
70°	12016	11252	12731
75°	10301	10591	12513
80°	7779	10062	12422
85°	4290	9841	12607

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16068 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	2.8
10°-20°	320.0	8.0
20°-30°	483.8	12.1
30°-40°	585.8	14.7
40°-50°	615.3	15.4
50°-60°	574.0	14.4
60°-70°	474.4	11.9
70°-80°	341.6	8.5
80°-90°	212.3	5.3
90°-100°	124.4	3.1
100°-110°	71.1	1.8
110°-120°	40.2	1.0
120°-130°	23.1	0.6
130°-140°	12.5	0.3
140°-150°	5.2	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<b>0°-30°</b>	<b>915.2</b>	<b>22.9</b>
<b>0°-40°</b>	<b>1501.0</b>	<b>37.6</b>
<b>0°-60°</b>	<b>2690.3</b>	<b>67.3</b>
<b>0°-90°</b>	<b>3718.5</b>	<b>93.1</b>
<b>90°-120°</b>	<b>235.7</b>	<b>5.9</b>
<b>90°-150°</b>	<b>276.5</b>	<b>6.9</b>
<b>90°-180°</b>	<b>277.0</b>	<b>6.9</b>
<b>0°-180°</b>	<b>3996.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1163	1173	1173	1173	1175	111
15°	1114	1129	1134	1141	1146	314
25°	1016	1034	1051	1065	1075	468
35°	884	909	938	965	977	554
45°	733	760	801	836	850	566
55°	564	596	645	692	709	504
65°	381	418	481	542	564	377
75°	196	244	330	401	430	207
85°	37	110	208	281	308	45
90°	0	66	159	227	257	2
95°	0	42	120	183	210	0
105°	0	15	66	115	134	0
115°	0	7	39	71	83	0
125°	0	5	24	46	54	0
135°	0	0	15	29	37	0
145°	0	0	7	17	20	0
155°	0	0	0	5	7	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°	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1170.4	1177.7	1177.7	1170.4	1170.4
5°	1163.1	1172.8	1172.8	1172.8	1175.3
7.5°	1155.7	1167.9	1167.9	1167.9	1172.8
10°	1146.0	1158.2	1160.6	1160.6	1163.1
12.5°	1131.3	1146.0	1148.4	1150.8	1153.3
15°	1114.2	1128.9	1133.7	1141.1	1146.0
17.5°	1094.6	1111.7	1121.5	1128.9	1133.7
20°	1070.2	1087.3	1099.5	1109.3	1116.6
22.5°	1045.8	1060.4	1075.1	1087.3	1094.6
25°	1016.5	1033.6	1050.7	1065.3	1075.1
27.5°	984.7	1004.2	1026.2	1043.3	1053.1
30°	955.4	974.9	999.4	1021.3	1031.1
32.5°	921.2	943.2	970.0	992.0	1004.2
35°	884.5	908.9	938.3	965.1	977.4
37.5°	847.9	872.3	908.9	935.8	948.0
40°	811.2	835.6	874.7	904.1	916.3
42.5°	772.1	796.5	838.1	869.9	884.5
45°	733.0	759.9	801.4	835.6	850.3
47.5°	693.9	720.8	764.8	801.4	816.1
50°	649.9	679.3	723.2	764.8	779.4
52.5°	608.4	637.7	686.6	728.1	742.8
55°	564.4	596.2	645.1	691.5	708.6
57.5°	520.4	552.2	603.5	652.4	671.9
60°	474.0	508.2	562.0	613.3	635.3
62.5°	427.6	464.2	522.9	576.6	598.6
65°	381.2	417.8	481.4	542.4	564.4
67.5°	334.7	373.8	442.3	505.8	532.7
70°	288.3	329.9	403.2	469.1	496.0
72.5°	241.9	285.9	366.5	434.9	461.8
75°	195.5	244.3	329.9	400.7	430.0
77.5°	149.0	205.2	298.1	369.0	398.3
80°	107.5	171.0	263.9	337.2	366.5
82.5°	68.4	136.8	234.6	307.9	337.2
85°	36.7	110.0	207.7	281.0	307.9
87.5°	12.2	85.5	180.8	254.1	281.0
90°	0.0	66.0	158.8	227.2	256.6
92.5°	0.0	51.3	139.3	205.2	232.1
95°	0.0	41.5	119.7	183.3	210.1
97.5°	0.0	34.2	105.1	163.7	188.1
100°	0.0	26.9	90.4	146.6	168.6
102.5°	0.0	22.0	78.2	129.5	151.5
105°	0.0	14.7	66.0	114.8	134.4
107.5°	0.0	12.2	56.2	102.6	119.7
110°	0.0	9.8	51.3	88.0	105.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.3	46.4	78.2	95.3
115°	0.0	7.3	39.1	70.9	83.1
117.5°	0.0	7.3	34.2	63.5	75.7
120°	0.0	4.9	31.8	56.2	68.4
122.5°	0.0	4.9	26.9	51.3	61.1
125°	0.0	4.9	24.4	46.4	53.8
127.5°	0.0	2.4	22.0	41.5	48.9
130°	0.0	2.4	19.5	36.7	44.0
132.5°	0.0	2.4	17.1	34.2	41.5
135°	0.0	0.0	14.7	29.3	36.7
137.5°	0.0	0.0	12.2	26.9	31.8
140°	0.0	0.0	9.8	22.0	29.3
142.5°	0.0	0.0	7.3	19.5	24.4
145°	0.0	0.0	7.3	17.1	19.5
147.5°	0.0	0.0	4.9	12.2	17.1
150°	0.0	0.0	2.4	9.8	12.2
152.5°	0.0	0.0	0.0	7.3	9.8
155°	0.0	0.0	0.0	4.9	7.3
157.5°	0.0	0.0	0.0	0.0	2.4
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	19.56	21.10	20.03	21.56	22.04	21.51	23.05	21.98	23.50	23.99
	3H	21.06	22.47	21.54	22.93	23.46	23.93	25.34	24.42	25.80	26.33
	4H	21.54	22.88	22.05	23.36	23.90	25.10	26.43	25.60	26.92	27.45
	6H	21.82	23.06	22.34	23.56	24.11	26.31	27.55	26.82	28.04	28.59
	8H	21.87	23.06	22.40	23.58	24.14	26.91	28.10	27.44	28.62	29.18
	12H	21.89	23.03	22.42	23.54	24.13	27.57	28.70	28.10	29.22	29.81
4H	2H	20.42	21.76	20.93	22.24	22.78	21.95	23.28	22.45	23.76	24.30
	3H	22.16	23.30	22.68	23.82	24.38	24.60	25.73	25.11	26.26	26.82
	4H	22.77	23.80	23.30	24.34	24.93	25.94	26.98	26.47	27.51	28.11
	6H	23.16	24.08	23.72	24.64	25.25	27.33	28.25	27.89	28.81	29.42
	8H	23.26	24.12	23.82	24.68	25.30	28.05	28.91	28.61	29.47	30.09
	12H	23.30	24.09	23.89	24.68	25.30	28.82	29.61	29.41	30.20	30.82
8H	4H	23.43	24.29	23.99	24.85	25.47	26.16	27.02	26.72	27.58	28.20
	6H	24.01	24.74	24.60	25.34	25.97	27.73	28.46	28.32	29.06	29.69
	8H	24.19	24.85	24.79	25.46	26.10	28.58	29.24	29.19	29.86	30.49
	12H	24.30	24.89	24.91	25.50	26.20	29.54	30.13	30.15	30.73	31.44
12H	4H	23.61	24.40	24.19	24.99	25.61	26.17	26.95	26.75	27.54	28.17
	6H	24.29	24.95	24.89	25.56	26.20	27.76	28.43	28.37	29.04	29.68
	8H	24.57	25.16	25.17	25.76	26.46	28.69	29.28	29.30	29.88	30.59