

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: P1356921

Luminaire Tested: 2ASL4-30VHE-3-92765-UNV\_6500K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356921  
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: 2ASL4-30VHE-3-92765-UNV\_6500K  
Description: 2FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

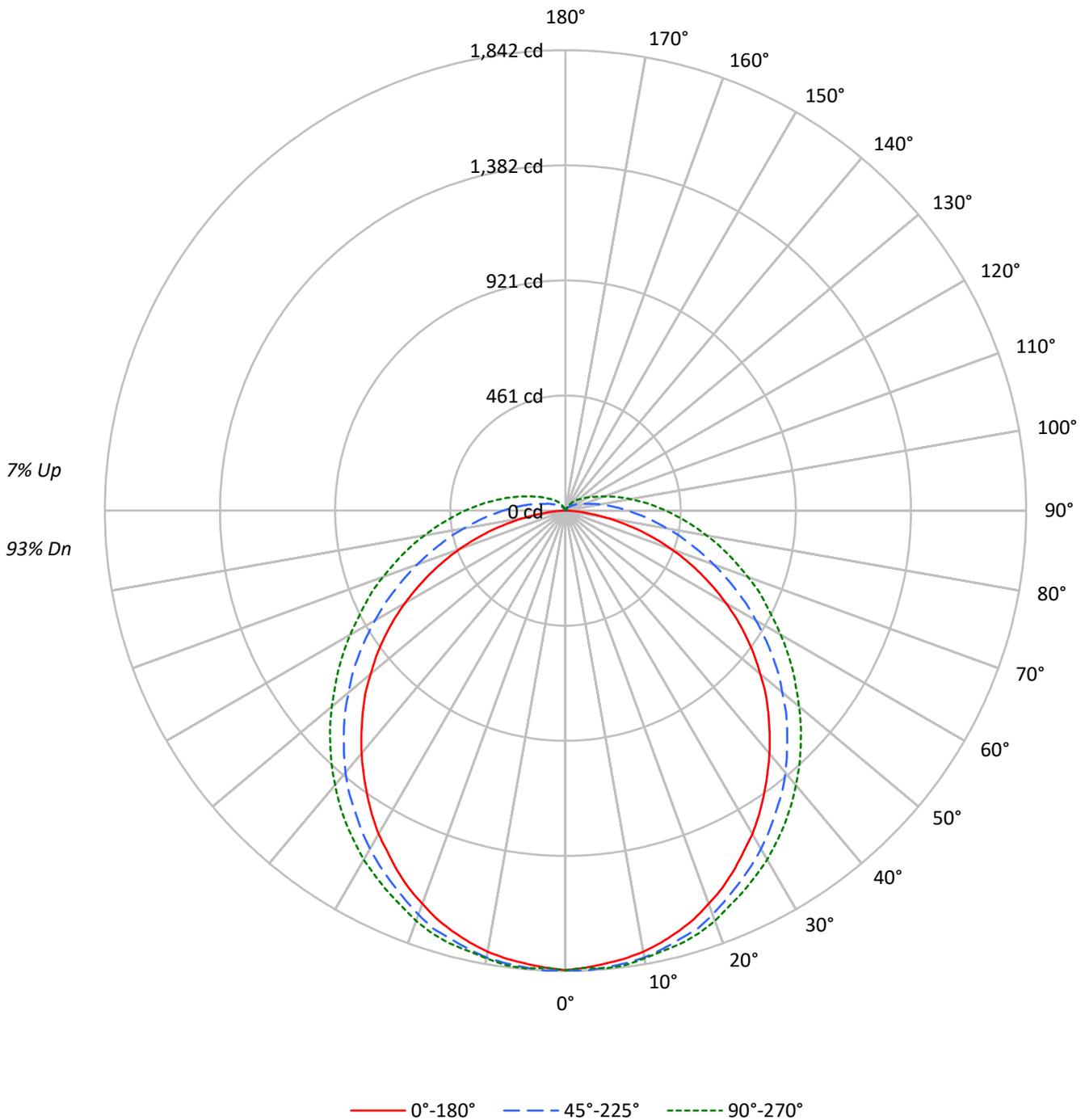
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6251.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 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): 58.3  
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°	29997	29997	29997
5°	29662	29385	29310
10°	29426	28770	28569
15°	29031	28019	27940
20°	28521	27299	27232
25°	27940	26410	26426
30°	27326	25632	25744
35°	26581	24758	24986
40°	25885	23956	24186
45°	25136	22992	23384
50°	24284	21961	22551
55°	23359	20972	21802
60°	22175	19822	21041
65°	20686	18711	20409
70°	18797	17601	19915
75°	16113	16566	19576
80°	12171	15740	19431
85°	6698	15394	19720

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25136 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.3	2.8
10°-20°	500.6	8.0
20°-30°	756.8	12.1
30°-40°	916.4	14.7
40°-50°	962.5	15.4
50°-60°	897.9	14.4
60°-70°	742.1	11.9
70°-80°	534.3	8.5
80°-90°	332.0	5.3
90°-100°	194.6	3.1
100°-110°	111.3	1.8
110°-120°	62.9	1.0
120°-130°	36.2	0.6
130°-140°	19.5	0.3
140°-150°	8.2	0.1
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1431.7	22.9
0°-40°	2348.1	37.6
0°-60°	4208.5	67.3
0°-90°	5816.9	93.1
90°-120°	368.7	5.9
90°-150°	432.5	6.9
90°-180°	434.0	6.9
0°-180°	6251.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1819	1835	1835	1835	1838	173
15°	1743	1766	1774	1785	1793	491
25°	1590	1617	1644	1666	1682	732
35°	1384	1422	1468	1510	1529	866
45°	1147	1189	1254	1307	1330	885
55°	883	933	1009	1082	1108	789
65°	596	654	753	848	883	590
75°	306	382	516	627	673	323
85°	57	172	325	440	482	70
90°	0	103	248	356	401	3
95°	0	65	187	287	329	0
105°	0	23	103	180	210	0
115°	0	12	61	111	130	0
125°	0	8	38	73	84	0
135°	0	0	23	46	57	0
145°	0	0	12	27	31	0
155°	0	0	0	8	12	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°	1838.5	1838.5	1838.5	1838.5	1838.5
2.5°	1830.9	1842.3	1842.3	1830.9	1830.9
5°	1819.4	1834.7	1834.7	1834.7	1838.5
7.5°	1807.9	1827.0	1827.0	1827.0	1834.7
10°	1792.6	1811.7	1815.6	1815.6	1819.4
12.5°	1769.7	1792.6	1796.5	1800.3	1804.1
15°	1742.9	1765.9	1773.5	1785.0	1792.6
17.5°	1712.4	1739.1	1754.4	1765.9	1773.5
20°	1674.1	1700.9	1720.0	1735.3	1746.8
22.5°	1635.9	1658.9	1681.8	1700.9	1712.4
25°	1590.1	1616.8	1643.6	1666.5	1681.8
27.5°	1540.4	1570.9	1605.3	1632.1	1647.4
30°	1494.5	1525.1	1563.3	1597.7	1613.0
32.5°	1441.0	1475.4	1517.4	1551.8	1570.9
35°	1383.7	1421.9	1467.7	1509.8	1528.9
37.5°	1326.3	1364.5	1421.9	1463.9	1483.0
40°	1269.0	1307.2	1368.4	1414.2	1433.3
42.5°	1207.8	1246.1	1311.0	1360.7	1383.7
45°	1146.7	1188.7	1253.7	1307.2	1330.1
47.5°	1085.5	1127.6	1196.4	1253.7	1276.6
50°	1016.7	1062.6	1131.4	1196.4	1219.3
52.5°	951.7	997.6	1074.1	1139.0	1162.0
55°	882.9	932.6	1009.1	1081.7	1108.5
57.5°	814.1	863.8	944.1	1020.5	1051.1
60°	741.5	795.0	879.1	959.4	993.8
62.5°	668.9	726.2	818.0	902.1	936.5
65°	596.3	653.6	753.0	848.5	882.9
67.5°	523.6	584.8	691.8	791.2	833.3
70°	451.0	516.0	630.7	733.9	775.9
72.5°	378.4	447.2	573.3	680.4	722.4
75°	305.8	382.2	516.0	626.8	672.7
77.5°	233.2	321.1	466.3	577.2	623.0
80°	168.2	267.6	412.8	527.5	573.3
82.5°	107.0	214.0	366.9	481.6	527.5
85°	57.3	172.0	324.9	439.6	481.6
87.5°	19.1	133.8	282.8	397.5	439.6
90°	0.0	103.2	248.4	355.5	401.3
92.5°	0.0	80.3	217.9	321.1	363.1
95°	0.0	65.0	187.3	286.7	328.7
97.5°	0.0	53.5	164.4	256.1	294.3
100°	0.0	42.0	141.4	229.3	263.7
102.5°	0.0	34.4	122.3	202.6	237.0
105°	0.0	22.9	103.2	179.6	210.2
107.5°	0.0	19.1	87.9	160.5	187.3
110°	0.0	15.3	80.3	137.6	164.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.5	72.6	122.3	149.1
115°	0.0	11.5	61.2	110.8	130.0
117.5°	0.0	11.5	53.5	99.4	118.5
120°	0.0	7.6	49.7	87.9	107.0
122.5°	0.0	7.6	42.0	80.3	95.6
125°	0.0	7.6	38.2	72.6	84.1
127.5°	0.0	3.8	34.4	65.0	76.4
130°	0.0	3.8	30.6	57.3	68.8
132.5°	0.0	3.8	26.8	53.5	65.0
135°	0.0	0.0	22.9	45.9	57.3
137.5°	0.0	0.0	19.1	42.0	49.7
140°	0.0	0.0	15.3	34.4	45.9
142.5°	0.0	0.0	11.5	30.6	38.2
145°	0.0	0.0	11.5	26.8	30.6
147.5°	0.0	0.0	7.6	19.1	26.8
150°	0.0	0.0	3.8	15.3	19.1
152.5°	0.0	0.0	0.0	11.5	15.3
155°	0.0	0.0	0.0	7.6	11.5
157.5°	0.0	0.0	0.0	0.0	3.8
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	21.12	22.66	21.59	23.11	23.60	23.06	24.60	23.53	25.06	25.54
	3H	22.62	24.02	23.10	24.49	25.01	25.49	26.89	25.97	27.36	27.88
	4H	23.10	24.43	23.60	24.91	25.45	26.66	27.99	27.16	28.47	29.01
	6H	23.38	24.62	23.89	25.11	25.67	27.86	29.10	28.37	29.60	30.15
	8H	23.43	24.62	23.96	25.14	25.70	28.47	29.66	29.00	30.18	30.74
	12H	23.44	24.58	23.98	25.09	25.68	29.12	30.26	29.65	30.77	31.36
4H	2H	21.98	23.31	22.48	23.79	24.33	23.50	24.83	24.00	25.31	25.85
	3H	23.72	24.85	24.23	25.38	25.94	26.15	27.29	26.67	27.81	28.37
	4H	24.32	25.36	24.86	25.89	26.49	27.49	28.53	28.03	29.07	29.66
	6H	24.72	25.64	25.27	26.20	26.81	28.89	29.81	29.44	30.37	30.97
	8H	24.81	25.68	25.37	26.24	26.86	29.60	30.47	30.16	31.03	31.65
	12H	24.86	25.64	25.44	26.23	26.86	30.38	31.16	30.96	31.75	32.38
8H	4H	24.98	25.85	25.54	26.41	27.03	27.71	28.58	28.27	29.14	29.76
	6H	25.56	26.29	26.15	26.90	27.52	29.28	30.01	29.87	30.62	31.24
	8H	25.74	26.40	26.35	27.02	27.66	30.14	30.80	30.74	31.41	32.05
	12H	25.86	26.45	26.47	27.05	27.76	31.10	31.69	31.70	32.29	32.99
12H	4H	25.17	25.95	25.75	26.54	27.17	27.72	28.51	28.30	29.10	29.72
	6H	25.84	26.50	26.45	27.12	27.76	29.32	29.98	29.92	30.59	31.23
	8H	26.12	26.71	26.73	27.32	28.02	30.24	30.83	30.85	31.44	32.14