

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: P1357192

Luminaire Tested: 4ASL4-20VHE-3-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357192
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: 4ASL4-20VHE-3-92765-UNV_2700K
Description: 4FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

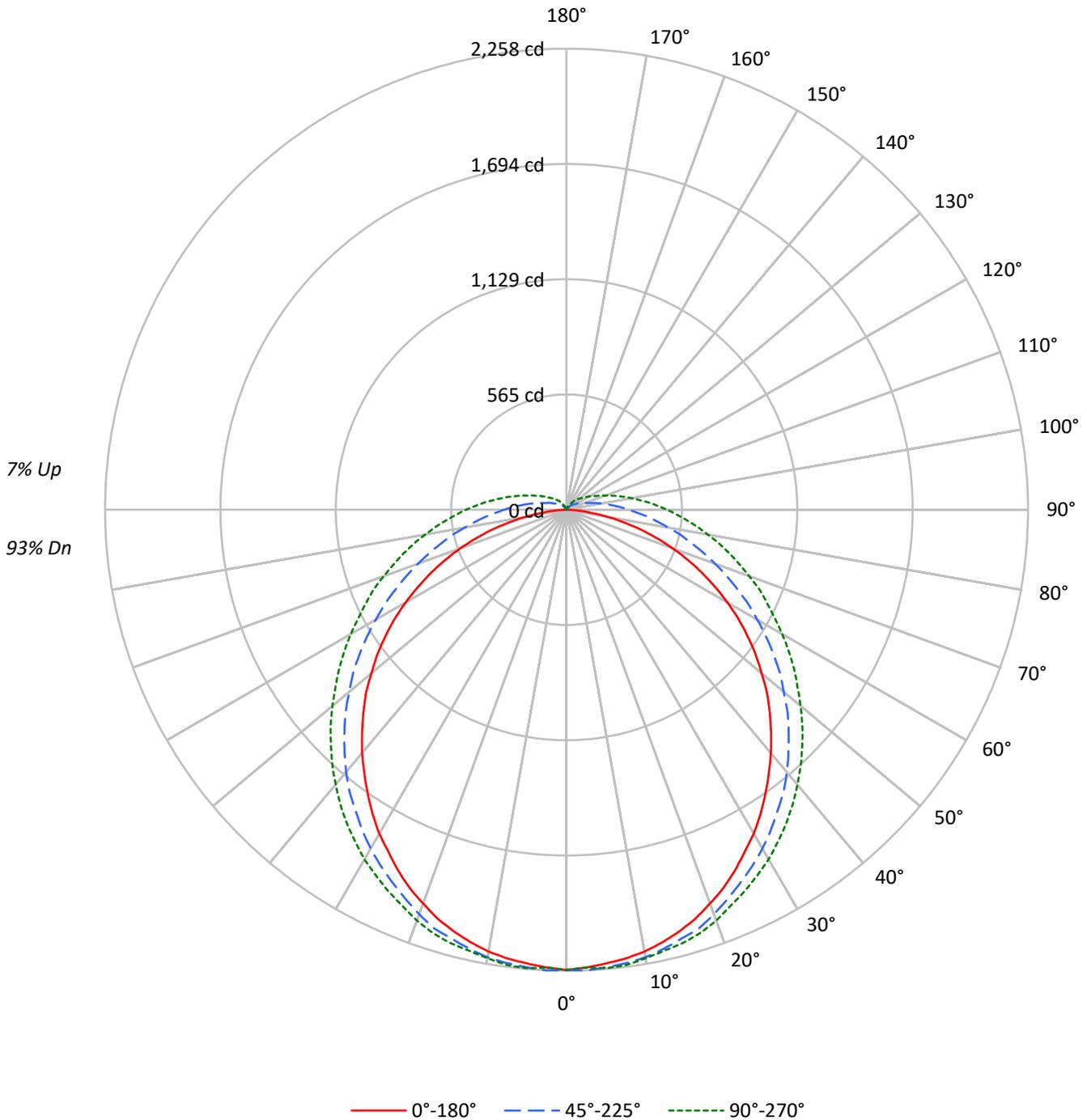
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7663.0 lumens
Efficiency: N/A
Efficacy: 104.8 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): 73.1
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

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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°	18290	18290	18290
5°	18128	17946	17871
10°	18026	17598	17420
15°	17827	17164	17037
20°	17557	16749	16604
25°	17243	16229	16113
30°	16912	15777	15697
35°	16502	15266	15235
40°	16125	14797	14747
45°	15721	14231	14258
50°	15260	13622	13750
55°	14762	13041	13293
60°	14114	12363	12829
65°	13291	11711	12445
70°	12239	11064	12143
75°	10709	10474	11937
80°	8391	10028	11847
85°	5038	9923	12024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15721 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	2.8
10°-20°	613.6	8.0
20°-30°	927.8	12.1
30°-40°	1123.4	14.7
40°-50°	1179.9	15.4
50°-60°	1100.8	14.4
60°-70°	909.7	11.9
70°-80°	655.0	8.5
80°-90°	407.0	5.3
90°-100°	238.5	3.1
100°-110°	136.4	1.8
110°-120°	77.0	1.0
120°-130°	44.3	0.6
130°-140°	23.9	0.3
140°-150°	10.1	0.1
150°-160°	1.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1755.1	22.9
0°-40°	2878.5	37.6
0°-60°	5159.1	67.3
0°-90°	7130.9	93.1
90°-120°	452.0	5.9
90°-150°	530.2	6.9
90°-180°	532.0	6.9
0°-180°	7663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2230	2249	2249	2249	2254	212
15°	2137	2165	2174	2188	2198	602
25°	1949	1982	2015	2043	2062	898
35°	1696	1743	1799	1851	1874	1062
45°	1406	1457	1537	1602	1631	1085
55°	1082	1143	1237	1326	1359	967
65°	731	801	923	1040	1082	723
75°	375	469	633	768	825	396
85°	70	211	398	539	590	86
90°	0	126	305	436	492	3
95°	0	80	230	351	403	0
105°	0	28	126	220	258	0
115°	0	14	75	136	159	0
125°	0	9	47	89	103	0
135°	0	0	28	56	70	0
145°	0	0	14	33	38	0
155°	0	0	0	9	14	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°	2253.8	2253.8	2253.8	2253.8	2253.8
2.5°	2244.4	2258.5	2258.5	2244.4	2244.4
5°	2230.4	2249.1	2249.1	2249.1	2253.8
7.5°	2216.3	2239.7	2239.7	2239.7	2249.1
10°	2197.6	2221.0	2225.7	2225.7	2230.4
12.5°	2169.4	2197.6	2202.2	2206.9	2211.6
15°	2136.7	2164.8	2174.1	2188.2	2197.6
17.5°	2099.2	2132.0	2150.7	2164.8	2174.1
20°	2052.3	2085.1	2108.5	2127.3	2141.3
22.5°	2005.5	2033.6	2061.7	2085.1	2099.2
25°	1949.2	1982.0	2014.8	2042.9	2061.7
27.5°	1888.3	1925.8	1968.0	2000.8	2019.5
30°	1832.1	1869.6	1916.4	1958.6	1977.3
32.5°	1766.5	1808.7	1860.2	1902.4	1925.8
35°	1696.2	1743.1	1799.3	1850.8	1874.3
37.5°	1625.9	1672.8	1743.1	1794.6	1818.0
40°	1555.6	1602.5	1677.5	1733.7	1757.1
42.5°	1480.7	1527.5	1607.2	1668.1	1696.2
45°	1405.7	1457.2	1536.9	1602.5	1630.6
47.5°	1330.7	1382.3	1466.6	1536.9	1565.0
50°	1246.4	1302.6	1386.9	1466.6	1494.7
52.5°	1166.7	1223.0	1316.7	1396.3	1424.4
55°	1082.4	1143.3	1237.0	1326.0	1358.8
57.5°	998.0	1059.0	1157.4	1251.1	1288.6
60°	909.0	974.6	1077.7	1176.1	1218.3
62.5°	820.0	890.3	1002.7	1105.8	1148.0
65°	731.0	801.2	923.1	1040.2	1082.4
67.5°	641.9	716.9	848.1	969.9	1021.5
70°	552.9	632.6	773.1	899.6	951.2
72.5°	463.9	548.2	702.8	834.0	885.6
75°	374.9	468.6	632.6	768.4	824.7
77.5°	285.8	393.6	571.6	707.5	763.8
80°	206.2	328.0	506.0	646.6	702.8
82.5°	131.2	262.4	449.8	590.4	646.6
85°	70.3	210.9	398.3	538.8	590.4
87.5°	23.4	164.0	346.7	487.3	538.8
90°	0.0	126.5	304.6	435.8	492.0
92.5°	0.0	98.4	267.1	393.6	445.1
95°	0.0	79.7	229.6	351.4	403.0
97.5°	0.0	65.6	201.5	313.9	360.8
100°	0.0	51.5	173.4	281.1	323.3
102.5°	0.0	42.2	149.9	248.3	290.5
105°	0.0	28.1	126.5	220.2	257.7
107.5°	0.0	23.4	107.8	196.8	229.6
110°	0.0	18.7	98.4	168.7	201.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.1	89.0	149.9	182.7
115°	0.0	14.1	75.0	135.9	159.3
117.5°	0.0	14.1	65.6	121.8	145.3
120°	0.0	9.4	60.9	107.8	131.2
122.5°	0.0	9.4	51.5	98.4	117.1
125°	0.0	9.4	46.9	89.0	103.1
127.5°	0.0	4.7	42.2	79.7	93.7
130°	0.0	4.7	37.5	70.3	84.3
132.5°	0.0	4.7	32.8	65.6	79.7
135°	0.0	0.0	28.1	56.2	70.3
137.5°	0.0	0.0	23.4	51.5	60.9
140°	0.0	0.0	18.7	42.2	56.2
142.5°	0.0	0.0	14.1	37.5	46.9
145°	0.0	0.0	14.1	32.8	37.5
147.5°	0.0	0.0	9.4	23.4	32.8
150°	0.0	0.0	4.7	18.7	23.4
152.5°	0.0	0.0	0.0	14.1	18.7
155°	0.0	0.0	0.0	9.4	14.1
157.5°	0.0	0.0	0.0	0.0	4.7
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	19.43	20.97	19.90	21.43	21.91	21.46	23.00	21.93	23.45	23.94
	3H	20.93	22.33	21.41	22.80	23.32	23.92	25.32	24.40	25.79	26.31
	4H	21.41	22.74	21.91	23.22	23.76	25.12	26.45	25.62	26.93	27.47
	6H	21.68	22.92	22.20	23.42	23.97	26.37	27.61	26.88	28.11	28.66
	8H	21.74	22.92	22.26	23.44	24.00	27.02	28.20	27.54	28.72	29.28
	12H	21.75	22.89	22.28	23.40	23.99	27.73	28.87	28.26	29.38	29.97
4H	2H	20.31	21.64	20.81	22.12	22.66	21.89	23.22	22.39	23.71	24.24
	3H	22.04	23.18	22.56	23.70	24.26	24.58	25.71	25.09	26.24	26.80
	4H	22.65	23.69	23.18	24.22	24.81	25.95	26.99	26.48	27.52	28.12
	6H	23.04	23.96	23.60	24.52	25.13	27.39	28.31	27.95	28.87	29.48
	8H	23.14	24.00	23.70	24.56	25.18	28.15	29.01	28.71	29.57	30.19
	12H	23.18	23.97	23.77	24.56	25.18	28.98	29.76	29.56	30.35	30.98
8H	4H	23.33	24.19	23.89	24.75	25.37	26.16	27.03	26.73	27.59	28.21
	6H	23.91	24.64	24.50	25.24	25.87	27.78	28.51	28.37	29.11	29.74
	8H	24.09	24.75	24.69	25.36	26.00	28.67	29.33	29.28	29.95	30.59
	12H	24.20	24.79	24.81	25.40	26.10	29.69	30.28	30.30	30.89	31.59
12H	4H	23.52	24.30	24.10	24.90	25.52	26.17	26.96	26.76	27.55	28.17
	6H	24.20	24.86	24.80	25.48	26.11	27.82	28.48	28.42	29.09	29.73
	8H	24.48	25.07	25.09	25.67	26.38	28.78	29.37	29.39	29.97	30.68