

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: P1357503

Luminaire Tested: 8ASL4-20VHE-3-92765-UNV\_6500K

Issue Date: 2/17/2026

**Test Information**

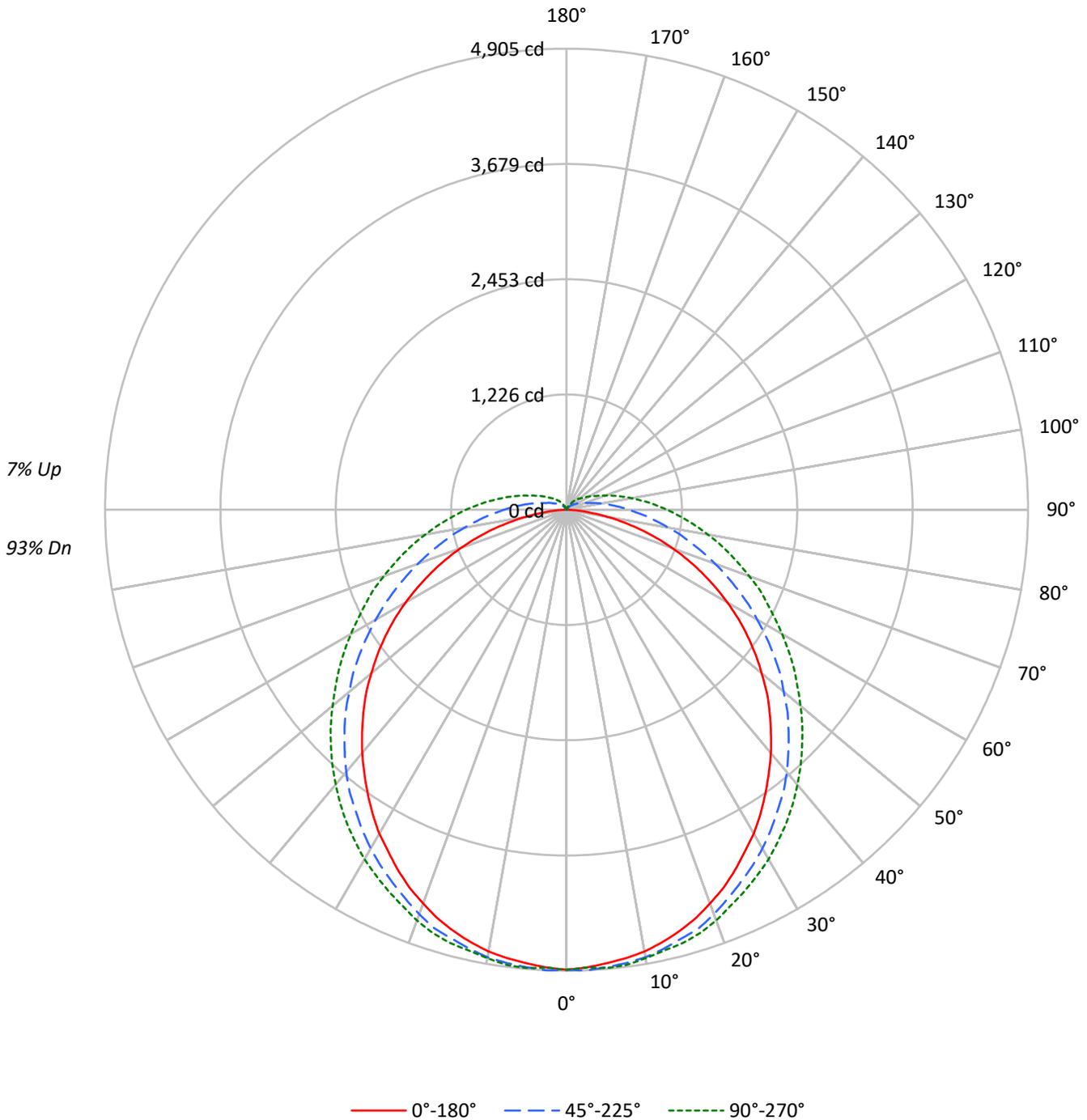
Test Method: LM-79-2019  
Report Number: P1357503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-20VHE-3-92765-UNV\_6500K  
Description: 8FT 2000 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: 16643.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 146.2  
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				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°	19810	19810	19810
5°	19656	19453	19356
10°	19569	19090	18867
15°	19375	18634	18452
20°	19106	18198	17984
25°	18790	17646	17452
30°	18455	17169	17001
35°	18036	16627	16500
40°	17656	16131	15973
45°	17248	15529	15443
50°	16782	14883	14893
55°	16283	14266	14397
60°	15627	13544	13895
65°	14788	12853	13479
70°	13717	12171	13152
75°	12138	11555	12928
80°	9717	11110	12833
85°	6166	11061	13023

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17248 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.2	2.8
10°-20°	1332.7	8.0
20°-30°	2015.0	12.1
30°-40°	2439.8	14.7
40°-50°	2562.5	15.4
50°-60°	2390.7	14.4
60°-70°	1975.8	11.9
70°-80°	1422.6	8.5
80°-90°	884.0	5.3
90°-100°	518.0	3.1
100°-110°	296.3	1.8
110°-120°	167.3	1.0
120°-130°	96.3	0.6
130°-140°	51.9	0.3
140°-150°	21.8	0.1
150°-160°	4.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3811.8	22.9
0°-40°	6251.6	37.6
0°-60°	11204.9	67.3
0°-90°	15487.4	93.1
90°-120°	981.7	5.9
90°-150°	1151.6	6.9
90°-180°	1156.0	6.9
0°-180°	16643.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4895	4895	4895	4895	4895	
5°	4844	4885	4885	4885	4895	460
15°	4640	4702	4722	4752	4773	1308
25°	4234	4305	4376	4437	4478	1950
35°	3684	3786	3908	4020	4071	2306
45°	3053	3165	3338	3480	3541	2355
55°	2351	2483	2687	2880	2951	2100
65°	1588	1740	2005	2259	2351	1571
75°	814	1018	1374	1669	1791	861
85°	153	458	865	1170	1282	187
90°	0	275	662	946	1068	7
95°	0	173	499	763	875	0
105°	0	61	275	478	560	0
115°	0	30	163	295	346	0
125°	0	20	102	193	224	0
135°	0	0	61	122	153	0
145°	0	0	30	71	81	0
155°	0	0	0	20	30	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°	4894.9	4894.9	4894.9	4894.9	4894.9
2.5°	4874.6	4905.1	4905.1	4874.6	4874.6
5°	4844.0	4884.8	4884.8	4884.8	4894.9
7.5°	4813.5	4864.4	4864.4	4864.4	4884.8
10°	4772.8	4823.7	4833.9	4833.9	4844.0
12.5°	4711.8	4772.8	4783.0	4793.2	4803.3
15°	4640.5	4701.6	4721.9	4752.5	4772.8
17.5°	4559.1	4630.3	4671.0	4701.6	4721.9
20°	4457.3	4528.6	4579.5	4620.2	4650.7
22.5°	4355.6	4416.6	4477.7	4528.6	4559.1
25°	4233.5	4304.7	4375.9	4437.0	4477.7
27.5°	4101.2	4182.6	4274.2	4345.4	4386.1
30°	3979.0	4060.5	4162.2	4253.8	4294.5
32.5°	3836.6	3928.2	4040.1	4131.7	4182.6
35°	3683.9	3785.7	3907.8	4019.7	4070.6
37.5°	3531.3	3633.0	3785.7	3897.6	3948.5
40°	3378.6	3480.4	3643.2	3765.3	3816.2
42.5°	3215.8	3317.6	3490.6	3622.9	3683.9
45°	3053.0	3164.9	3337.9	3480.4	3541.4
47.5°	2890.1	3002.1	3185.3	3337.9	3399.0
50°	2707.0	2829.1	3012.3	3185.3	3246.3
52.5°	2534.0	2656.1	2859.6	3032.6	3093.7
55°	2350.8	2483.1	2686.6	2880.0	2951.2
57.5°	2167.6	2299.9	2513.6	2717.1	2798.6
60°	1974.3	2116.7	2340.6	2554.3	2645.9
62.5°	1780.9	1933.5	2177.8	2401.7	2493.3
65°	1587.5	1740.2	2004.8	2259.2	2350.8
67.5°	1394.2	1557.0	1842.0	2106.5	2218.5
70°	1200.8	1373.8	1679.1	1953.9	2065.8
72.5°	1007.5	1190.7	1526.5	1811.4	1923.4
75°	814.1	1017.7	1373.8	1669.0	1791.1
77.5°	620.8	854.8	1241.5	1536.7	1658.8
80°	447.8	712.4	1099.1	1404.4	1526.5
82.5°	284.9	569.9	977.0	1282.2	1404.4
85°	152.6	457.9	865.0	1170.3	1282.2
87.5°	50.9	356.2	753.1	1058.4	1170.3
90°	0.0	274.8	661.5	946.4	1068.5
92.5°	0.0	213.7	580.1	854.8	966.8
95°	0.0	173.0	498.7	763.2	875.2
97.5°	0.0	142.5	437.6	681.8	783.6
100°	0.0	111.9	376.5	610.6	702.2
102.5°	0.0	91.6	325.7	539.4	630.9
105°	0.0	61.1	274.8	478.3	559.7
107.5°	0.0	50.9	234.1	427.4	498.7
110°	0.0	40.7	213.7	366.4	437.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.5	193.4	325.7	396.9
115°	0.0	30.5	162.8	295.1	346.0
117.5°	0.0	30.5	142.5	264.6	315.5
120°	0.0	20.4	132.3	234.1	284.9
122.5°	0.0	20.4	111.9	213.7	254.4
125°	0.0	20.4	101.8	193.4	223.9
127.5°	0.0	10.2	91.6	173.0	203.5
130°	0.0	10.2	81.4	152.6	183.2
132.5°	0.0	10.2	71.2	142.5	173.0
135°	0.0	0.0	61.1	122.1	152.6
137.5°	0.0	0.0	50.9	111.9	132.3
140°	0.0	0.0	40.7	91.6	122.1
142.5°	0.0	0.0	30.5	81.4	101.8
145°	0.0	0.0	30.5	71.2	81.4
147.5°	0.0	0.0	20.4	50.9	71.2
150°	0.0	0.0	10.2	40.7	50.9
152.5°	0.0	0.0	0.0	30.5	40.7
155°	0.0	0.0	0.0	20.4	30.5
157.5°	0.0	0.0	0.0	0.0	10.2
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	19.72	21.26	20.19	21.72	22.20	21.79	23.33	22.26	23.79	24.27
	3H	21.22	22.62	21.70	23.09	23.61	24.27	25.68	24.76	26.14	26.67
	4H	21.70	23.03	22.20	23.51	24.05	25.49	26.82	25.99	27.30	27.84
	6H	21.97	23.21	22.49	23.71	24.26	26.77	28.01	27.28	28.50	29.06
	8H	22.03	23.21	22.55	23.73	24.29	27.44	28.63	27.97	29.15	29.71
	12H	22.04	23.18	22.57	23.69	24.28	28.18	29.32	28.72	29.84	30.43
4H	2H	20.61	21.94	21.11	22.42	22.96	22.22	23.56	22.73	24.04	24.58
	3H	22.34	23.48	22.86	24.00	24.56	24.93	26.07	25.45	26.59	27.15
	4H	22.95	23.98	23.48	24.52	25.11	26.32	27.35	26.85	27.89	28.48
	6H	23.34	24.26	23.90	24.82	25.43	27.79	28.71	28.34	29.27	29.87
	8H	23.44	24.30	24.00	24.86	25.48	28.56	29.43	29.12	29.99	30.61
	12H	23.48	24.27	24.06	24.86	25.48	29.43	30.22	30.02	30.81	31.43
8H	4H	23.64	24.50	24.20	25.06	25.68	26.53	27.39	27.09	27.96	28.58
	6H	24.22	24.95	24.81	25.55	26.18	28.17	28.90	28.76	29.51	30.13
	8H	24.40	25.06	25.00	25.67	26.31	29.09	29.75	29.69	30.36	31.00
	12H	24.51	25.10	25.12	25.71	26.41	30.14	30.73	30.75	31.34	32.04
12H	4H	23.84	24.62	24.42	25.21	25.83	26.54	27.32	27.12	27.91	28.54
	6H	24.52	25.18	25.12	25.79	26.43	28.21	28.87	28.81	29.48	30.12
	8H	24.80	25.39	25.40	25.99	26.69	29.19	29.78	29.80	30.38	31.09