

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: P1357513

Luminaire Tested: 8ASL4-25VHE-3-92765-UNV\_2700K

Issue Date: 2/17/2026

**Test Information**

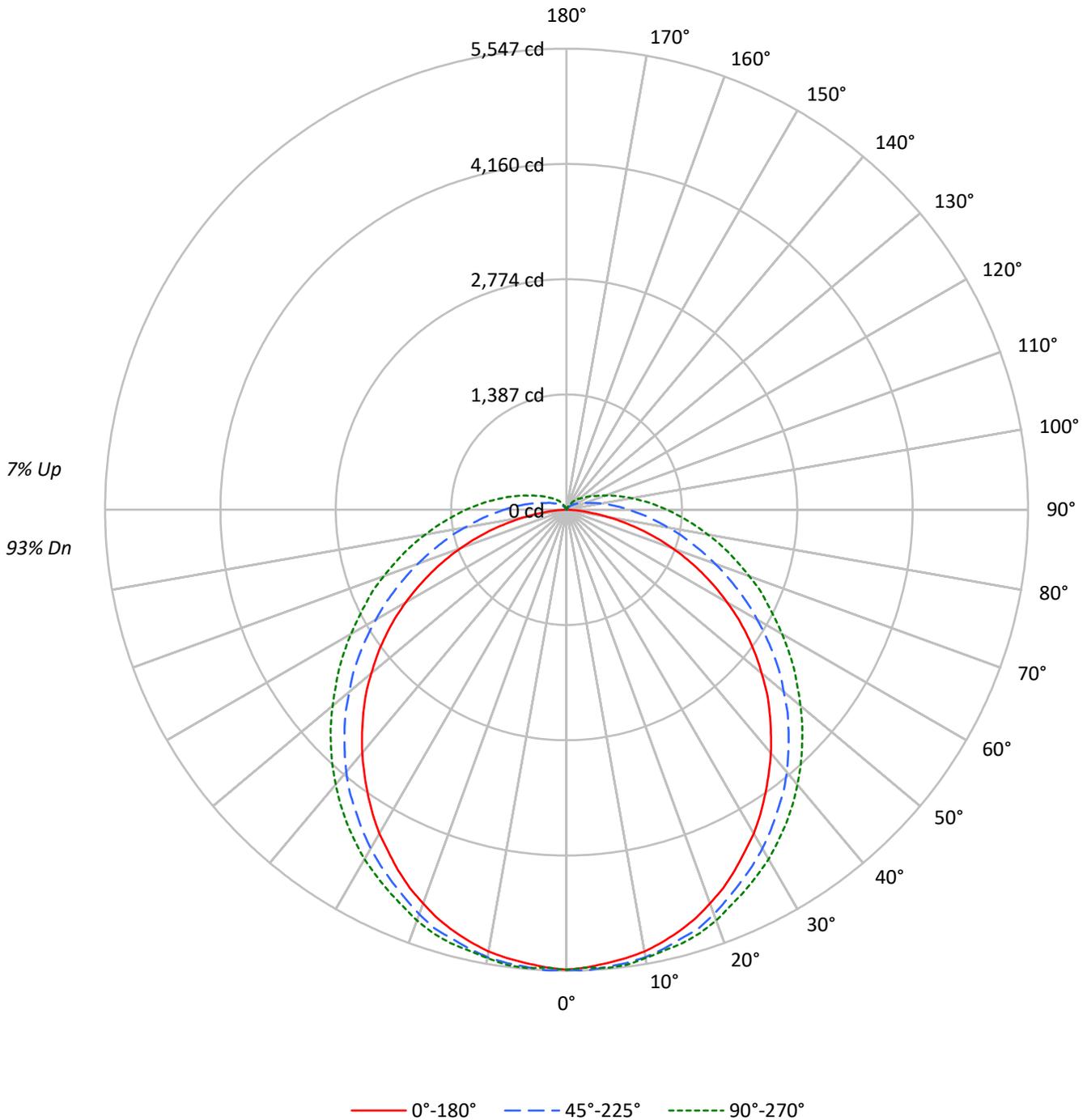
Test Method: LM-79-2019  
Report Number: P1357513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-25VHE-3-92765-UNV\_2700K  
Description: 8FT 2500 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: 18820.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 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): 184.2  
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°	22401	22401	22401
5°	22228	21997	21888
10°	22128	21587	21335
15°	21909	21072	20866
20°	21605	20578	20336
25°	21248	19954	19734
30°	20869	19415	19225
35°	20395	18802	18659
40°	19966	18241	18062
45°	19504	17560	17463
50°	18978	16829	16841
55°	18413	16132	16281
60°	17671	15316	15713
65°	16723	14534	15242
70°	15511	13763	14873
75°	13726	13066	14620
80°	10986	12563	14512
85°	6974	12509	14727

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19504 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.9	2.8
10°-20°	1507.0	8.0
20°-30°	2278.5	12.1
30°-40°	2759.0	14.7
40°-50°	2897.7	15.4
50°-60°	2703.4	14.4
60°-70°	2234.3	11.9
70°-80°	1608.7	8.5
80°-90°	999.7	5.3
90°-100°	585.8	3.1
100°-110°	335.1	1.8
110°-120°	189.2	1.0
120°-130°	108.9	0.6
130°-140°	58.7	0.3
140°-150°	24.7	0.1
150°-160°	4.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4310.4	22.9
0°-40°	7069.4	37.6
0°-60°	12670.6	67.3
0°-90°	17513.2	93.1
90°-120°	1110.0	5.9
90°-150°	1302.2	6.9
90°-180°	1307.0	6.9
0°-180°	18820.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5535	5535	5535	5535	5535	
5°	5478	5524	5524	5524	5535	521
15°	5248	5317	5340	5374	5397	1480
25°	4787	4868	4948	5017	5063	2205
35°	4166	4281	4419	4546	4603	2608
45°	3452	3579	3774	3936	4005	2663
55°	2658	2808	3038	3257	3337	2375
65°	1795	1968	2267	2555	2658	1776
75°	921	1151	1554	1887	2025	974
85°	173	518	978	1323	1450	211
90°	0	311	748	1070	1208	8
95°	0	196	564	863	990	0
105°	0	69	311	541	633	0
115°	0	34	184	334	391	0
125°	0	23	115	219	253	0
135°	0	0	69	138	173	0
145°	0	0	34	81	92	0
155°	0	0	0	23	34	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°	5535.2	5535.2	5535.2	5535.2	5535.2
2.5°	5512.2	5546.7	5546.7	5512.2	5512.2
5°	5477.7	5523.7	5523.7	5523.7	5535.2
7.5°	5443.2	5500.7	5500.7	5500.7	5523.7
10°	5397.1	5454.7	5466.2	5466.2	5477.7
12.5°	5328.1	5397.1	5408.6	5420.1	5431.6
15°	5247.5	5316.6	5339.6	5374.1	5397.1
17.5°	5155.5	5236.0	5282.0	5316.6	5339.6
20°	5040.4	5120.9	5178.5	5224.5	5259.0
22.5°	4925.3	4994.4	5063.4	5120.9	5155.5
25°	4787.2	4867.8	4948.3	5017.4	5063.4
27.5°	4637.6	4729.7	4833.2	4913.8	4959.8
30°	4499.5	4591.6	4706.7	4810.2	4856.3
32.5°	4338.4	4442.0	4568.6	4672.1	4729.7
35°	4165.8	4280.9	4419.0	4545.6	4603.1
37.5°	3993.2	4108.3	4280.9	4407.5	4465.0
40°	3820.6	3935.6	4119.8	4257.9	4315.4
42.5°	3636.4	3751.5	3947.1	4096.7	4165.8
45°	3452.3	3578.9	3774.5	3935.6	4004.7
47.5°	3268.2	3394.8	3601.9	3774.5	3843.6
50°	3061.1	3199.1	3406.3	3601.9	3671.0
52.5°	2865.4	3003.5	3233.7	3429.3	3498.3
55°	2658.3	2807.9	3038.0	3256.7	3337.2
57.5°	2451.1	2600.7	2842.4	3072.6	3164.6
60°	2232.5	2393.6	2646.8	2888.4	2992.0
62.5°	2013.9	2186.5	2462.7	2715.8	2819.4
65°	1795.2	1967.8	2267.0	2554.7	2658.3
67.5°	1576.6	1760.7	2082.9	2382.1	2508.7
70°	1357.9	1553.5	1898.8	2209.5	2336.1
72.5°	1139.3	1346.4	1726.2	2048.4	2175.0
75°	920.6	1150.8	1553.5	1887.3	2025.4
77.5°	702.0	966.6	1403.9	1737.7	1875.8
80°	506.3	805.5	1242.8	1588.1	1726.2
82.5°	322.2	644.4	1104.7	1450.0	1588.1
85°	172.6	517.8	978.2	1323.4	1450.0
87.5°	57.5	402.8	851.6	1196.8	1323.4
90°	0.0	310.7	748.0	1070.2	1208.3
92.5°	0.0	241.7	655.9	966.6	1093.2
95°	0.0	195.6	563.9	863.1	989.7
97.5°	0.0	161.1	494.8	771.0	886.1
100°	0.0	126.6	425.8	690.5	794.0
102.5°	0.0	103.6	368.2	609.9	713.5
105°	0.0	69.0	310.7	540.9	632.9
107.5°	0.0	57.5	264.7	483.3	563.9
110°	0.0	46.0	241.7	414.3	494.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	34.5	218.6	368.2	448.8
115°	0.0	34.5	184.1	333.7	391.3
117.5°	0.0	34.5	161.1	299.2	356.7
120°	0.0	23.0	149.6	264.7	322.2
122.5°	0.0	23.0	126.6	241.7	287.7
125°	0.0	23.0	115.1	218.6	253.2
127.5°	0.0	11.5	103.6	195.6	230.2
130°	0.0	11.5	92.1	172.6	207.1
132.5°	0.0	11.5	80.6	161.1	195.6
135°	0.0	0.0	69.0	138.1	172.6
137.5°	0.0	0.0	57.5	126.6	149.6
140°	0.0	0.0	46.0	103.6	138.1
142.5°	0.0	0.0	34.5	92.1	115.1
145°	0.0	0.0	34.5	80.6	92.1
147.5°	0.0	0.0	23.0	57.5	80.6
150°	0.0	0.0	11.5	46.0	57.5
152.5°	0.0	0.0	0.0	34.5	46.0
155°	0.0	0.0	0.0	23.0	34.5
157.5°	0.0	0.0	0.0	0.0	11.5
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	20.15	21.69	20.62	22.15	22.63	22.22	23.76	22.69	24.21	24.70
	3H	21.65	23.05	22.13	23.52	24.04	24.70	26.11	25.18	26.57	27.10
	4H	22.13	23.46	22.63	23.94	24.48	25.92	27.25	26.42	27.73	28.27
	6H	22.40	23.64	22.92	24.14	24.69	27.20	28.44	27.71	28.93	29.49
	8H	22.45	23.64	22.98	24.16	24.72	27.87	29.05	28.39	29.57	30.13
	12H	22.47	23.61	23.00	24.12	24.71	28.61	29.75	29.15	30.26	30.85
4H	2H	21.03	22.37	21.54	22.85	23.39	22.65	23.98	23.15	24.47	25.00
	3H	22.77	23.90	23.29	24.43	24.99	25.36	26.49	25.87	27.02	27.58
	4H	23.37	24.41	23.91	24.95	25.54	26.74	27.78	27.28	28.32	28.91
	6H	23.77	24.69	24.33	25.25	25.86	28.22	29.13	28.77	29.69	30.30
	8H	23.86	24.73	24.43	25.29	25.91	28.99	29.85	29.55	30.42	31.03
	12H	23.91	24.69	24.49	25.28	25.91	29.86	30.65	30.44	31.24	31.86
8H	4H	24.06	24.93	24.62	25.49	26.11	26.96	27.82	27.52	28.38	29.00
	6H	24.64	25.38	25.24	25.98	26.60	28.60	29.33	29.19	29.93	30.56
	8H	24.83	25.49	25.43	26.10	26.74	29.51	30.17	30.12	30.79	31.43
	12H	24.94	25.53	25.55	26.13	26.84	30.57	31.16	31.18	31.76	32.47
12H	4H	24.26	25.05	24.84	25.64	26.26	26.97	27.75	27.55	28.34	28.96
	6H	24.94	25.61	25.55	26.22	26.86	28.63	29.30	29.24	29.91	30.55
	8H	25.22	25.81	25.83	26.42	27.12	29.62	30.21	30.23	30.81	31.52