

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: P1357516

Luminaire Tested: 8ASL4-25VHE-3-92765-UNV\_4000K

Issue Date: 2/17/2026

**Test Information**

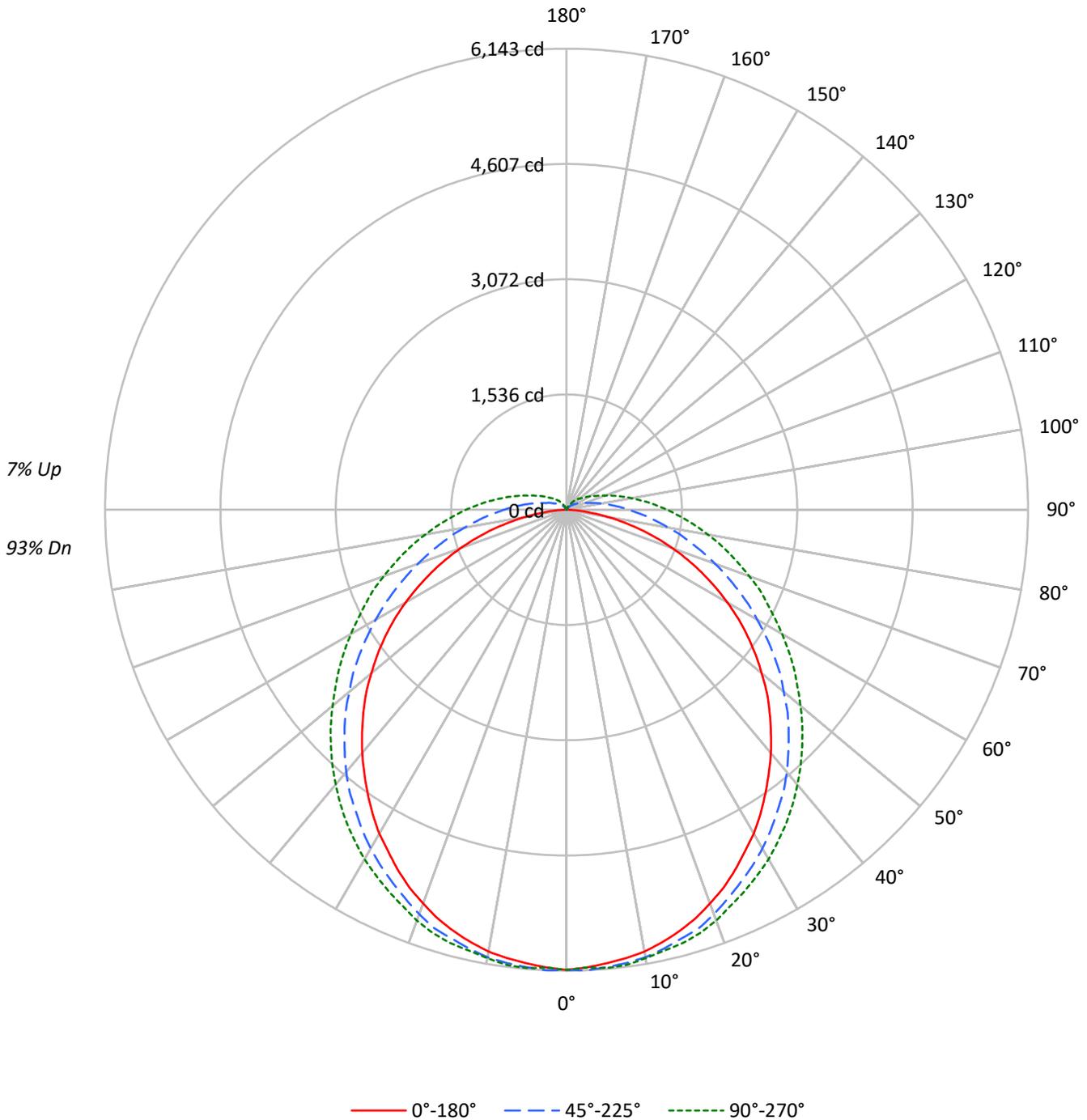
Test Method: LM-79-2019  
Report Number: P1357516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-25VHE-3-92765-UNV\_4000K  
Description: 8FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20844.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 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				
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°	24810	24810	24810
5°	24618	24363	24242
10°	24508	23908	23629
15°	24266	23338	23110
20°	23929	22791	22523
25°	23533	22100	21857
30°	23114	21502	21293
35°	22588	20823	20665
40°	22112	20203	20005
45°	21602	19449	19341
50°	21019	18639	18652
55°	20393	17867	18031
60°	19571	16963	17403
65°	18522	16097	16881
70°	17179	15243	16472
75°	15202	14471	16192
80°	12169	13915	16072
85°	7726	13854	16310

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21602 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.3	2.8
10°-20°	1669.1	8.0
20°-30°	2523.6	12.1
30°-40°	3055.7	14.7
40°-50°	3209.4	15.4
50°-60°	2994.2	14.4
60°-70°	2474.5	11.9
70°-80°	1781.7	8.5
80°-90°	1107.2	5.3
90°-100°	648.7	3.1
100°-110°	371.1	1.8
110°-120°	209.5	1.0
120°-130°	120.6	0.6
130°-140°	65.0	0.3
140°-150°	27.3	0.1
150°-160°	5.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4774.0	22.9
0°-40°	7829.7	37.6
0°-60°	14033.2	67.3
0°-90°	19396.7	93.1
90°-120°	1229.4	5.9
90°-150°	1442.3	6.9
90°-180°	1447.0	6.9
0°-180°	20844.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6130	6130	6130	6130	6130	
5°	6067	6118	6118	6118	6130	577
15°	5812	5888	5914	5952	5978	1639
25°	5302	5391	5480	5557	5608	2442
35°	4614	4741	4894	5034	5098	2888
45°	3824	3964	4180	4359	4435	2950
55°	2944	3110	3365	3607	3696	2631
65°	1988	2180	2511	2830	2944	1967
75°	1020	1274	1721	2090	2243	1078
85°	191	574	1083	1466	1606	234
90°	0	344	828	1185	1338	9
95°	0	217	624	956	1096	0
105°	0	76	344	599	701	0
115°	0	38	204	370	433	0
125°	0	26	128	242	280	0
135°	0	0	76	153	191	0
145°	0	0	38	89	102	0
155°	0	0	0	26	38	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357516  
 CATALOG NUMBER: 8ASL4-25VHE-3-92765-UNV\_4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6130.5	6130.5	6130.5	6130.5	6130.5
2.5°	6105.0	6143.2	6143.2	6105.0	6105.0
5°	6066.8	6117.8	6117.8	6117.8	6130.5
7.5°	6028.5	6092.3	6092.3	6092.3	6117.8
10°	5977.6	6041.3	6054.0	6054.0	6066.8
12.5°	5901.1	5977.6	5990.3	6003.0	6015.8
15°	5811.9	5888.3	5913.8	5952.1	5977.6
17.5°	5709.9	5799.1	5850.1	5888.3	5913.8
20°	5582.5	5671.7	5735.4	5786.4	5824.6
22.5°	5455.0	5531.5	5607.9	5671.7	5709.9
25°	5302.1	5391.3	5480.5	5557.0	5607.9
27.5°	5136.4	5238.3	5353.0	5442.3	5493.2
30°	4983.4	5085.4	5212.8	5327.5	5378.5
32.5°	4805.0	4919.7	5059.9	5174.6	5238.3
35°	4613.8	4741.3	4894.2	5034.4	5098.1
37.5°	4422.6	4550.1	4741.3	4881.5	4945.2
40°	4231.4	4358.9	4562.8	4715.8	4779.5
42.5°	4027.5	4155.0	4371.6	4537.3	4613.8
45°	3823.6	3963.8	4180.5	4358.9	4435.4
47.5°	3619.7	3759.9	3989.3	4180.5	4256.9
50°	3390.3	3543.2	3772.6	3989.3	4065.8
52.5°	3173.6	3326.5	3581.4	3798.1	3874.6
55°	2944.2	3109.9	3364.8	3606.9	3696.1
57.5°	2714.8	2880.4	3148.1	3403.0	3505.0
60°	2472.6	2651.0	2931.4	3199.1	3313.8
62.5°	2230.4	2421.6	2727.5	3007.9	3122.6
65°	1988.3	2179.5	2510.8	2829.5	2944.2
67.5°	1746.1	1950.0	2306.9	2638.3	2778.5
70°	1503.9	1720.6	2103.0	2447.1	2587.3
72.5°	1261.8	1491.2	1911.8	2268.7	2408.9
75°	1019.6	1274.5	1720.6	2090.2	2243.2
77.5°	777.5	1070.6	1554.9	1924.5	2077.5
80°	560.8	892.2	1376.5	1758.9	1911.8
82.5°	356.9	713.7	1223.6	1605.9	1758.9
85°	191.2	573.5	1083.4	1465.7	1605.9
87.5°	63.7	446.1	943.2	1325.5	1465.7
90°	0.0	344.1	828.4	1185.3	1338.3
92.5°	0.0	267.7	726.5	1070.6	1210.8
95°	0.0	216.7	624.5	955.9	1096.1
97.5°	0.0	178.4	548.0	853.9	981.4
100°	0.0	140.2	471.6	764.7	879.4
102.5°	0.0	114.7	407.9	675.5	790.2
105°	0.0	76.5	344.1	599.0	701.0
107.5°	0.0	63.7	293.1	535.3	624.5
110°	0.0	51.0	267.7	458.8	548.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	38.2	242.2	407.9	497.1
115°	0.0	38.2	203.9	369.6	433.3
117.5°	0.0	38.2	178.4	331.4	395.1
120°	0.0	25.5	165.7	293.1	356.9
122.5°	0.0	25.5	140.2	267.7	318.6
125°	0.0	25.5	127.5	242.2	280.4
127.5°	0.0	12.7	114.7	216.7	254.9
130°	0.0	12.7	102.0	191.2	229.4
132.5°	0.0	12.7	89.2	178.4	216.7
135°	0.0	0.0	76.5	152.9	191.2
137.5°	0.0	0.0	63.7	140.2	165.7
140°	0.0	0.0	51.0	114.7	152.9
142.5°	0.0	0.0	38.2	102.0	127.5
145°	0.0	0.0	38.2	89.2	102.0
147.5°	0.0	0.0	25.5	63.7	89.2
150°	0.0	0.0	12.7	51.0	63.7
152.5°	0.0	0.0	0.0	38.2	51.0
155°	0.0	0.0	0.0	25.5	38.2
157.5°	0.0	0.0	0.0	0.0	12.7
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	20.50	22.04	20.97	22.50	22.98	22.57	24.11	23.04	24.57	25.05
	3H	22.00	23.41	22.48	23.87	24.39	25.06	26.46	25.54	26.93	27.45
	4H	22.48	23.81	22.98	24.29	24.83	26.27	27.60	26.77	28.08	28.62
	6H	22.76	24.00	23.27	24.49	25.05	27.55	28.79	28.07	29.29	29.84
	8H	22.81	24.00	23.34	24.52	25.08	28.22	29.41	28.75	29.93	30.49
	12H	22.82	23.96	23.36	24.47	25.06	28.97	30.11	29.50	30.62	31.21
4H	2H	21.39	22.72	21.89	23.20	23.74	23.01	24.34	23.51	24.82	25.36
	3H	23.12	24.26	23.64	24.78	25.35	25.71	26.85	26.23	27.37	27.93
	4H	23.73	24.77	24.26	25.30	25.90	27.10	28.14	27.63	28.67	29.27
	6H	24.13	25.04	24.68	25.61	26.21	28.57	29.49	29.12	30.05	30.66
	8H	24.22	25.08	24.78	25.64	26.26	29.34	30.21	29.91	30.77	31.39
	12H	24.26	25.05	24.85	25.64	26.26	30.22	31.00	30.80	31.59	32.22
8H	4H	24.42	25.28	24.98	25.84	26.46	27.31	28.18	27.87	28.74	29.36
	6H	25.00	25.73	25.59	26.33	26.96	28.95	29.69	29.55	30.29	30.91
	8H	25.18	25.84	25.78	26.46	27.09	29.87	30.53	30.47	31.14	31.78
	12H	25.30	25.89	25.90	26.49	27.19	30.93	31.52	31.53	32.12	32.82
12H	4H	24.62	25.40	25.20	25.99	26.62	27.32	28.10	27.90	28.70	29.32
	6H	25.30	25.96	25.90	26.57	27.21	28.99	29.65	29.59	30.27	30.90
	8H	25.58	26.17	26.18	26.77	27.48	29.97	30.56	30.58	31.17	31.87