

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: P1357501

Luminaire Tested: 8ASL4-20VHE-3-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357501
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_4000K
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

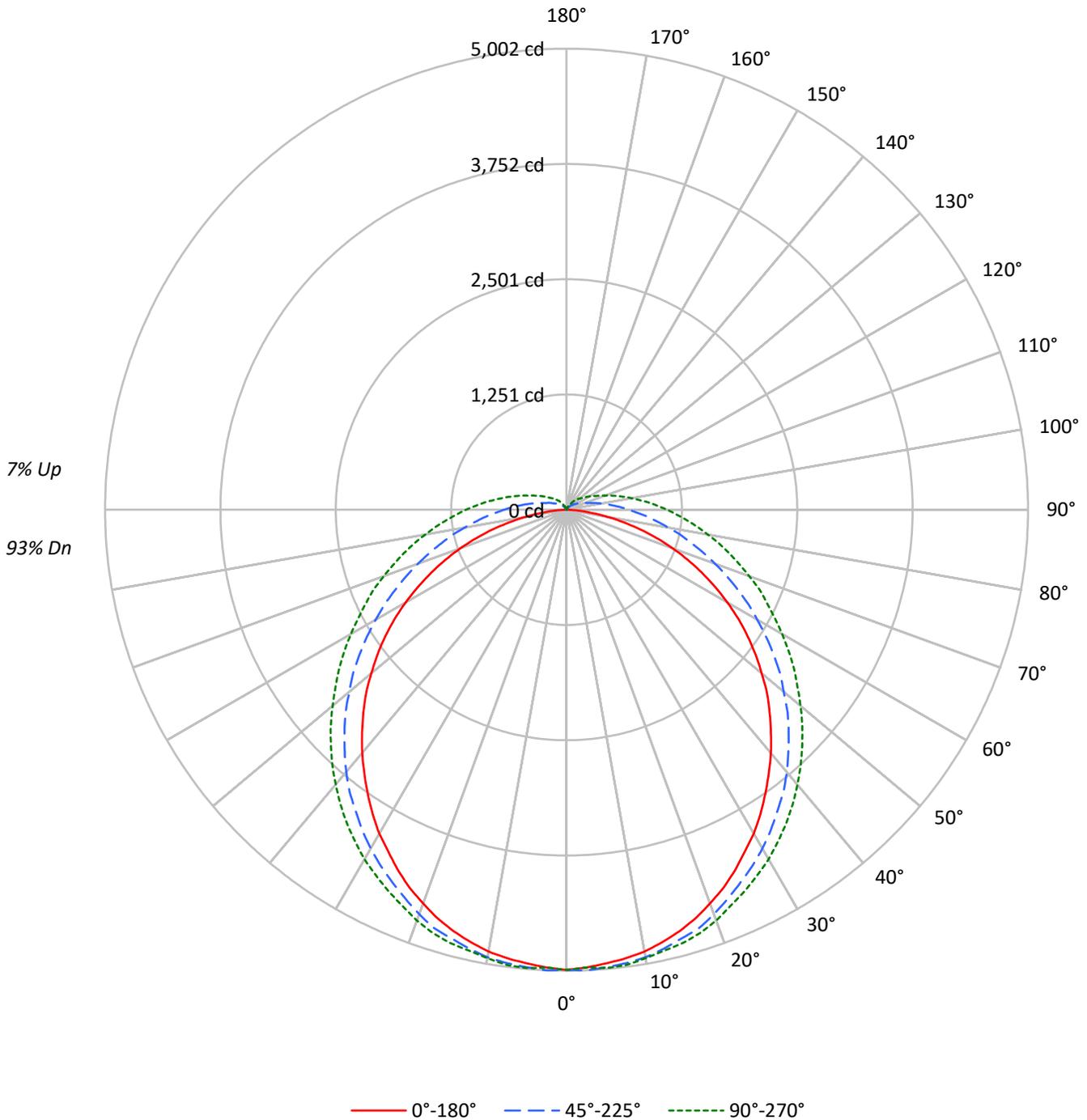
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16973.0 lumens
Efficiency: N/A
Efficacy: 116.1 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_{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				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°	20203	20203	20203
5°	20046	19838	19740
10°	19957	19468	19241
15°	19759	19004	18818
20°	19485	18559	18341
25°	19162	17996	17798
30°	18821	17509	17339
35°	18393	16956	16827
40°	18006	16451	16290
45°	17590	15837	15749
50°	17115	15178	15188
55°	16606	14549	14683
60°	15936	13813	14171
65°	15082	13108	13746
70°	13989	12412	13413
75°	12380	11784	13185
80°	9908	11331	13088
85°	6291	11281	13282

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.4	2.8
10°-20°	1359.1	8.0
20°-30°	2054.9	12.1
30°-40°	2488.2	14.7
40°-50°	2613.3	15.4
50°-60°	2438.1	14.4
60°-70°	2015.0	11.9
70°-80°	1450.8	8.5
80°-90°	901.6	5.3
90°-100°	528.3	3.1
100°-110°	302.2	1.8
110°-120°	170.6	1.0
120°-130°	98.2	0.6
130°-140°	52.9	0.3
140°-150°	22.3	0.1
150°-160°	4.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3887.4	22.9
0°-40°	6375.6	37.6
0°-60°	11427.1	67.3
0°-90°	15794.4	93.1
90°-120°	1001.1	5.9
90°-150°	1174.4	6.9
90°-180°	1179.0	6.9
0°-180°	16973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4992	4992	4992	4992	4992	
5°	4940	4982	4982	4982	4992	469
15°	4732	4795	4816	4847	4867	1334
25°	4317	4390	4463	4525	4566	1989
35°	3757	3861	3985	4099	4151	2352
45°	3114	3228	3404	3549	3612	2402
55°	2397	2532	2740	2937	3010	2142
65°	1619	1775	2044	2304	2397	1602
75°	830	1038	1401	1702	1827	878
85°	156	467	882	1194	1308	190
90°	0	280	675	965	1090	7
95°	0	176	508	778	892	0
105°	0	62	280	488	571	0
115°	0	31	166	301	353	0
125°	0	21	104	197	228	0
135°	0	0	62	124	156	0
145°	0	0	31	73	83	0
155°	0	0	0	21	31	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357501
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4992.0	4992.0	4992.0	4992.0	4992.0
2.5°	4971.2	5002.4	5002.4	4971.2	4971.2
5°	4940.1	4981.6	4981.6	4981.6	4992.0
7.5°	4909.0	4960.9	4960.9	4960.9	4981.6
10°	4867.4	4919.3	4929.7	4929.7	4940.1
12.5°	4805.2	4867.4	4877.8	4888.2	4898.6
15°	4732.5	4794.8	4815.6	4846.7	4867.4
17.5°	4649.5	4722.2	4763.7	4794.8	4815.6
20°	4545.7	4618.4	4670.3	4711.8	4742.9
22.5°	4441.9	4504.2	4566.5	4618.4	4649.5
25°	4317.4	4390.0	4462.7	4525.0	4566.5
27.5°	4182.5	4265.5	4358.9	4431.6	4473.1
30°	4057.9	4141.0	4244.7	4338.2	4379.7
32.5°	3912.6	4006.0	4120.2	4213.6	4265.5
35°	3757.0	3860.7	3985.3	4099.4	4151.3
37.5°	3601.3	3705.1	3860.7	3974.9	4026.8
40°	3445.6	3549.4	3715.4	3840.0	3891.9
42.5°	3279.6	3383.3	3559.8	3694.7	3757.0
45°	3113.5	3227.7	3404.1	3549.4	3611.7
47.5°	2947.5	3061.6	3248.4	3404.1	3466.4
50°	2760.6	2885.2	3072.0	3248.4	3310.7
52.5°	2584.2	2708.7	2916.3	3092.7	3155.0
55°	2397.4	2532.3	2739.9	2937.1	3009.7
57.5°	2210.6	2345.5	2563.5	2771.0	2854.0
60°	2013.4	2158.7	2387.0	2605.0	2698.4
62.5°	1816.2	1971.9	2221.0	2449.3	2542.7
65°	1619.0	1774.7	2044.5	2304.0	2397.4
67.5°	1421.8	1587.9	1878.5	2148.3	2262.5
70°	1224.6	1401.1	1712.4	1992.6	2106.8
72.5°	1027.5	1214.3	1556.8	1847.3	1961.5
75°	830.3	1037.8	1401.1	1702.0	1826.6
77.5°	633.1	871.8	1266.2	1567.1	1691.7
80°	456.6	726.5	1120.9	1432.2	1556.8
82.5°	290.6	581.2	996.3	1307.7	1432.2
85°	155.7	467.0	882.2	1193.5	1307.7
87.5°	51.9	363.2	768.0	1079.3	1193.5
90°	0.0	280.2	674.6	965.2	1089.7
92.5°	0.0	217.9	591.6	871.8	985.9
95°	0.0	176.4	508.5	778.4	892.5
97.5°	0.0	145.3	446.3	695.3	799.1
100°	0.0	114.2	384.0	622.7	716.1
102.5°	0.0	93.4	332.1	550.1	643.5
105°	0.0	62.3	280.2	487.8	570.8
107.5°	0.0	51.9	238.7	435.9	508.5
110°	0.0	41.5	217.9	373.6	446.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	31.1	197.2	332.1	404.8
115°	0.0	31.1	166.1	301.0	352.9
117.5°	0.0	31.1	145.3	269.8	321.7
120°	0.0	20.8	134.9	238.7	290.6
122.5°	0.0	20.8	114.2	217.9	259.5
125°	0.0	20.8	103.8	197.2	228.3
127.5°	0.0	10.4	93.4	176.4	207.6
130°	0.0	10.4	83.0	155.7	186.8
132.5°	0.0	10.4	72.6	145.3	176.4
135°	0.0	0.0	62.3	124.5	155.7
137.5°	0.0	0.0	51.9	114.2	134.9
140°	0.0	0.0	41.5	93.4	124.5
142.5°	0.0	0.0	31.1	83.0	103.8
145°	0.0	0.0	31.1	72.6	83.0
147.5°	0.0	0.0	20.8	51.9	72.6
150°	0.0	0.0	10.4	41.5	51.9
152.5°	0.0	0.0	0.0	31.1	41.5
155°	0.0	0.0	0.0	20.8	31.1
157.5°	0.0	0.0	0.0	0.0	10.4
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	19.79	21.33	20.26	21.79	22.27	21.86	23.40	22.33	23.85	24.34
	3H	21.29	22.69	21.77	23.16	23.68	24.34	25.75	24.82	26.21	26.74
	4H	21.77	23.10	22.27	23.58	24.12	25.56	26.89	26.06	27.37	27.91
	6H	22.04	23.28	22.56	23.78	24.33	26.84	28.08	27.35	28.57	29.13
	8H	22.09	23.28	22.62	23.80	24.36	27.51	28.69	28.03	29.21	29.77
	12H	22.11	23.25	22.64	23.76	24.35	28.25	29.39	28.79	29.91	30.50
4H	2H	20.68	22.01	21.18	22.49	23.03	22.29	23.62	22.80	24.11	24.64
	3H	22.41	23.55	22.93	24.07	24.63	25.00	26.13	25.51	26.66	27.22
	4H	23.01	24.05	23.55	24.59	25.18	26.38	27.42	26.92	27.96	28.55
	6H	23.41	24.33	23.97	24.89	25.50	27.86	28.77	28.41	29.34	29.94
	8H	23.51	24.37	24.07	24.93	25.55	28.63	29.49	29.19	30.06	30.68
	12H	23.55	24.33	24.13	24.92	25.55	29.50	30.29	30.09	30.88	31.50
8H	4H	23.71	24.57	24.27	25.13	25.75	26.60	27.46	27.16	28.02	28.64
	6H	24.28	25.02	24.88	25.62	26.25	28.24	28.97	28.83	29.58	30.20
	8H	24.47	25.13	25.07	25.74	26.38	29.15	29.82	29.76	30.43	31.07
	12H	24.58	25.17	25.19	25.77	26.48	30.21	30.80	30.82	31.41	32.11
12H	4H	23.90	24.69	24.49	25.28	25.90	26.61	27.39	27.19	27.98	28.61
	6H	24.58	25.25	25.19	25.86	26.50	28.28	28.94	28.88	29.55	30.19
	8H	24.86	25.45	25.47	26.06	26.76	29.26	29.85	29.87	30.45	31.16