

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: P1357486

Luminaire Tested: 8ASL4-20HE-2-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 8ASL4-20HE-2-92765-UNV_4000K
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

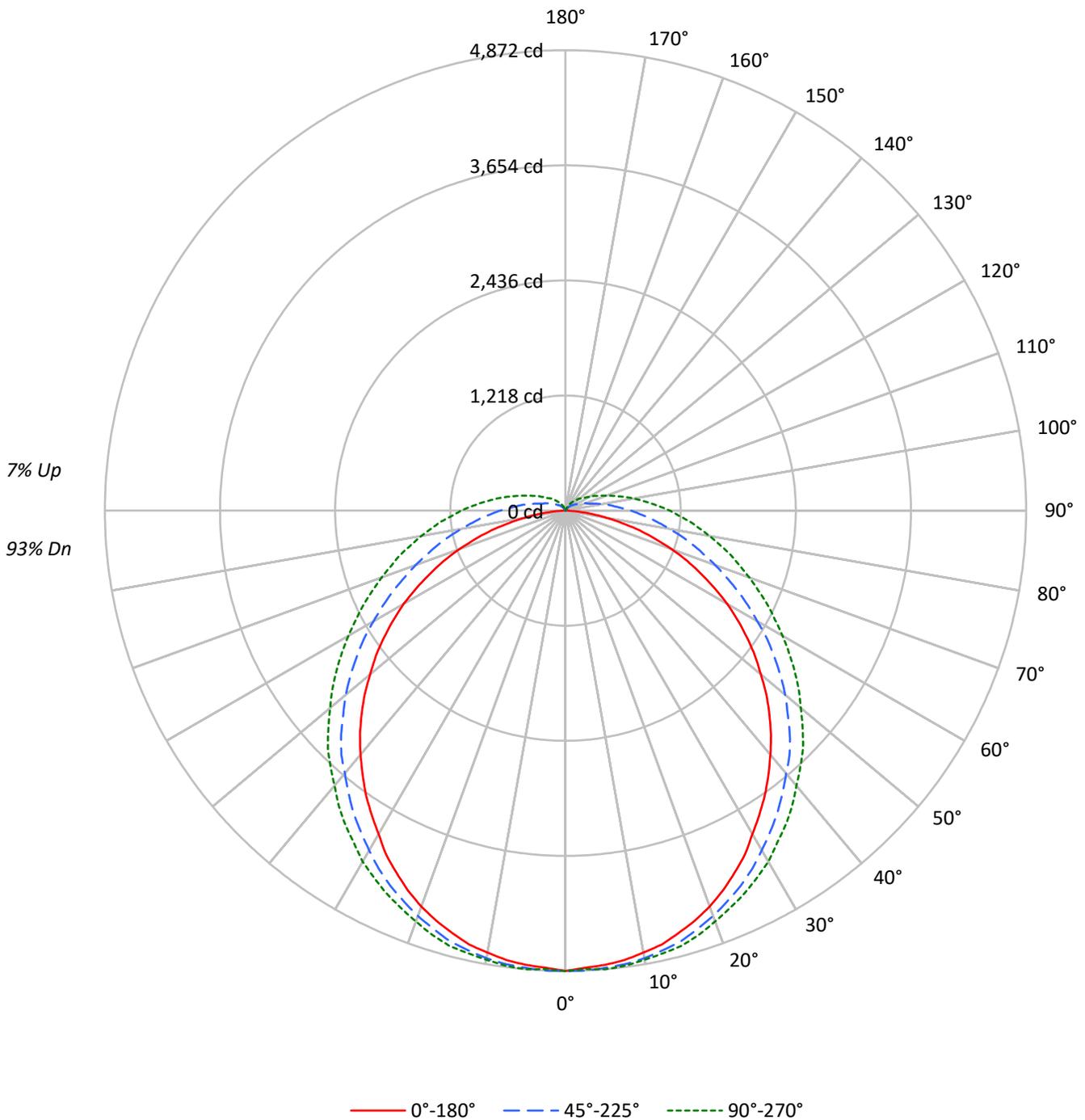
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16726.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 149.8
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	95	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	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	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19718	19718	19718
5°	19584	19341	19266
10°	19473	18999	18797
15°	19319	18623	18421
20°	19111	18143	17892
25°	18768	17670	17437
30°	18334	17127	16983
35°	18002	16623	16458
40°	17614	16078	15903
45°	17225	15610	15500
50°	16717	14988	14901
55°	16237	14319	14426
60°	15643	13565	13920
65°	14701	12868	13528
70°	13651	12216	13168
75°	12107	11726	13050
80°	9641	11305	13009
85°	6190	11363	13382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.1	2.8
10°-20°	1328.1	7.9
20°-30°	2012.5	12.0
30°-40°	2434.1	14.6
40°-50°	2566.1	15.3
50°-60°	2395.0	14.3
60°-70°	1977.3	11.8
70°-80°	1434.4	8.6
80°-90°	906.3	5.4
90°-100°	541.0	3.2
100°-110°	310.1	1.9
110°-120°	176.1	1.1
120°-130°	100.5	0.6
130°-140°	54.4	0.3
140°-150°	23.8	0.1
150°-160°	4.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3802.7	22.7
0°-40°	6236.7	37.3
0°-60°	11197.8	66.9
0°-90°	15515.8	92.8
90°-120°	1027.2	6.1
90°-150°	1205.9	7.2
90°-180°	1210.0	7.2
0°-180°	16726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4872	4872	4872	4872	4872	
5°	4826	4872	4857	4857	4872	458
15°	4627	4688	4719	4734	4765	1306
25°	4229	4290	4382	4443	4474	1948
35°	3677	3769	3907	4014	4060	2298
45°	3049	3172	3355	3493	3554	2351
55°	2344	2482	2696	2880	2957	2095
65°	1578	1747	2007	2252	2359	1567
75°	812	1026	1394	1685	1808	854
85°	153	475	889	1195	1318	187
90°	0	291	689	981	1103	6
95°	0	184	521	797	904	0
105°	0	61	291	506	582	0
115°	0	31	168	306	368	0
125°	0	15	107	199	230	0
135°	0	0	61	123	153	0
145°	0	0	31	77	92	0
155°	0	0	0	15	31	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°	4872.1	4872.1	4872.1	4872.1	4872.1
2.5°	4841.5	4887.4	4872.1	4856.8	4856.8
5°	4826.1	4872.1	4856.8	4856.8	4872.1
7.5°	4795.5	4841.5	4841.5	4841.5	4856.8
10°	4749.5	4810.8	4810.8	4810.8	4826.1
12.5°	4703.6	4749.5	4764.9	4780.2	4795.5
15°	4627.0	4688.3	4718.9	4734.2	4764.9
17.5°	4550.4	4596.3	4642.3	4688.3	4703.6
20°	4458.4	4519.7	4565.7	4611.7	4627.0
22.5°	4351.2	4412.5	4473.8	4519.7	4550.4
25°	4228.6	4289.9	4381.8	4443.1	4473.8
27.5°	4106.1	4167.3	4274.6	4351.2	4381.8
30°	3952.8	4044.8	4152.0	4243.9	4289.9
32.5°	3815.0	3906.9	4029.4	4136.7	4167.3
35°	3677.1	3769.0	3906.9	4014.1	4060.1
37.5°	3523.9	3631.1	3769.0	3891.6	3937.5
40°	3370.6	3477.9	3631.1	3769.0	3799.6
42.5°	3217.4	3324.7	3508.5	3631.1	3677.1
45°	3048.9	3171.5	3355.3	3493.2	3554.5
47.5°	2880.4	3002.9	3186.8	3340.0	3401.3
50°	2696.5	2834.4	3033.6	3186.8	3248.1
52.5°	2528.0	2665.9	2865.0	3033.6	3110.2
55°	2344.1	2482.0	2696.5	2880.4	2957.0
57.5°	2160.3	2298.2	2528.0	2727.2	2803.8
60°	1976.4	2114.3	2344.1	2573.9	2650.6
62.5°	1777.2	1930.5	2175.6	2405.4	2497.3
65°	1578.1	1746.6	2007.1	2252.2	2359.4
67.5°	1394.2	1562.8	1838.5	2114.3	2206.2
70°	1195.0	1378.9	1685.3	1961.1	2068.3
72.5°	995.9	1195.0	1532.1	1823.2	1930.5
75°	812.0	1026.5	1394.2	1685.3	1807.9
77.5°	612.8	873.3	1256.3	1562.8	1670.0
80°	444.3	720.1	1118.4	1440.2	1547.4
82.5°	291.1	582.2	995.9	1317.6	1424.9
85°	153.2	475.0	888.6	1195.0	1317.6
87.5°	46.0	367.7	781.4	1087.8	1195.0
90°	0.0	291.1	689.4	980.6	1103.1
92.5°	0.0	229.8	597.5	888.6	995.9
95°	0.0	183.9	520.9	796.7	903.9
97.5°	0.0	153.2	459.6	720.1	812.0
100°	0.0	122.6	398.3	643.5	735.4
102.5°	0.0	91.9	337.1	566.9	658.8
105°	0.0	61.3	291.1	505.6	582.2
107.5°	0.0	46.0	245.1	444.3	520.9
110°	0.0	46.0	229.8	383.0	459.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.6	199.2	352.4	413.7
115°	0.0	30.6	168.5	306.4	367.7
117.5°	0.0	30.6	153.2	275.8	337.1
120°	0.0	30.6	137.9	245.1	291.1
122.5°	0.0	15.3	122.6	214.5	260.5
125°	0.0	15.3	107.2	199.2	229.8
127.5°	0.0	15.3	91.9	183.9	214.5
130°	0.0	15.3	91.9	168.5	199.2
132.5°	0.0	0.0	76.6	153.2	183.9
135°	0.0	0.0	61.3	122.6	153.2
137.5°	0.0	0.0	61.3	107.2	137.9
140°	0.0	0.0	46.0	107.2	122.6
142.5°	0.0	0.0	30.6	91.9	107.2
145°	0.0	0.0	30.6	76.6	91.9
147.5°	0.0	0.0	15.3	61.3	76.6
150°	0.0	0.0	15.3	46.0	61.3
152.5°	0.0	0.0	0.0	30.6	46.0
155°	0.0	0.0	0.0	15.3	30.6
157.5°	0.0	0.0	0.0	0.0	15.3
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	19.69	21.22	20.16	21.68	22.17	21.79	23.32	22.26	23.78	24.27
	3H	21.19	22.59	21.67	23.06	23.59	24.26	25.66	24.74	26.13	26.66
	4H	21.67	23.00	22.17	23.48	24.03	25.48	26.81	25.99	27.30	27.84
	6H	21.94	23.18	22.46	23.68	24.24	26.78	28.02	27.30	28.52	29.08
	8H	22.00	23.18	22.53	23.71	24.27	27.47	28.65	28.00	29.18	29.74
	12H	22.01	23.15	22.55	23.67	24.26	28.23	29.37	28.77	29.89	30.48
4H	2H	20.57	21.90	21.08	22.39	22.93	22.22	23.54	22.72	24.03	24.58
	3H	22.32	23.45	22.84	23.98	24.55	24.92	26.05	25.44	26.58	27.15
	4H	22.92	23.96	23.46	24.50	25.10	26.32	27.35	26.86	27.89	28.49
	6H	23.33	24.24	23.88	24.81	25.42	27.81	28.73	28.37	29.30	29.91
	8H	23.42	24.28	23.99	24.85	25.48	28.60	29.46	29.17	30.03	30.66
	12H	23.47	24.25	24.06	24.85	25.48	29.50	30.28	30.08	30.87	31.50
8H	4H	23.63	24.49	24.19	25.06	25.68	26.54	27.40	27.10	27.96	28.59
	6H	24.22	24.95	24.81	25.56	26.19	28.21	28.94	28.80	29.55	30.18
	8H	24.40	25.06	25.01	25.68	26.33	29.14	29.80	29.75	30.42	31.06
	12H	24.52	25.11	25.13	25.72	26.43	30.22	30.81	30.83	31.41	32.12
12H	4H	23.84	24.62	24.42	25.21	25.84	26.54	27.33	27.13	27.92	28.55
	6H	24.53	25.19	25.13	25.81	26.45	28.24	28.90	28.85	29.52	30.17
	8H	24.81	25.40	25.42	26.01	26.72	29.25	29.84	29.86	30.44	31.15