

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: P1356876

Luminaire Tested: 2ASL4-20HE-2-92765-UNV\_6500K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356876  
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: 2ASL4-20HE-2-92765-UNV\_6500K  
Description: 2FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

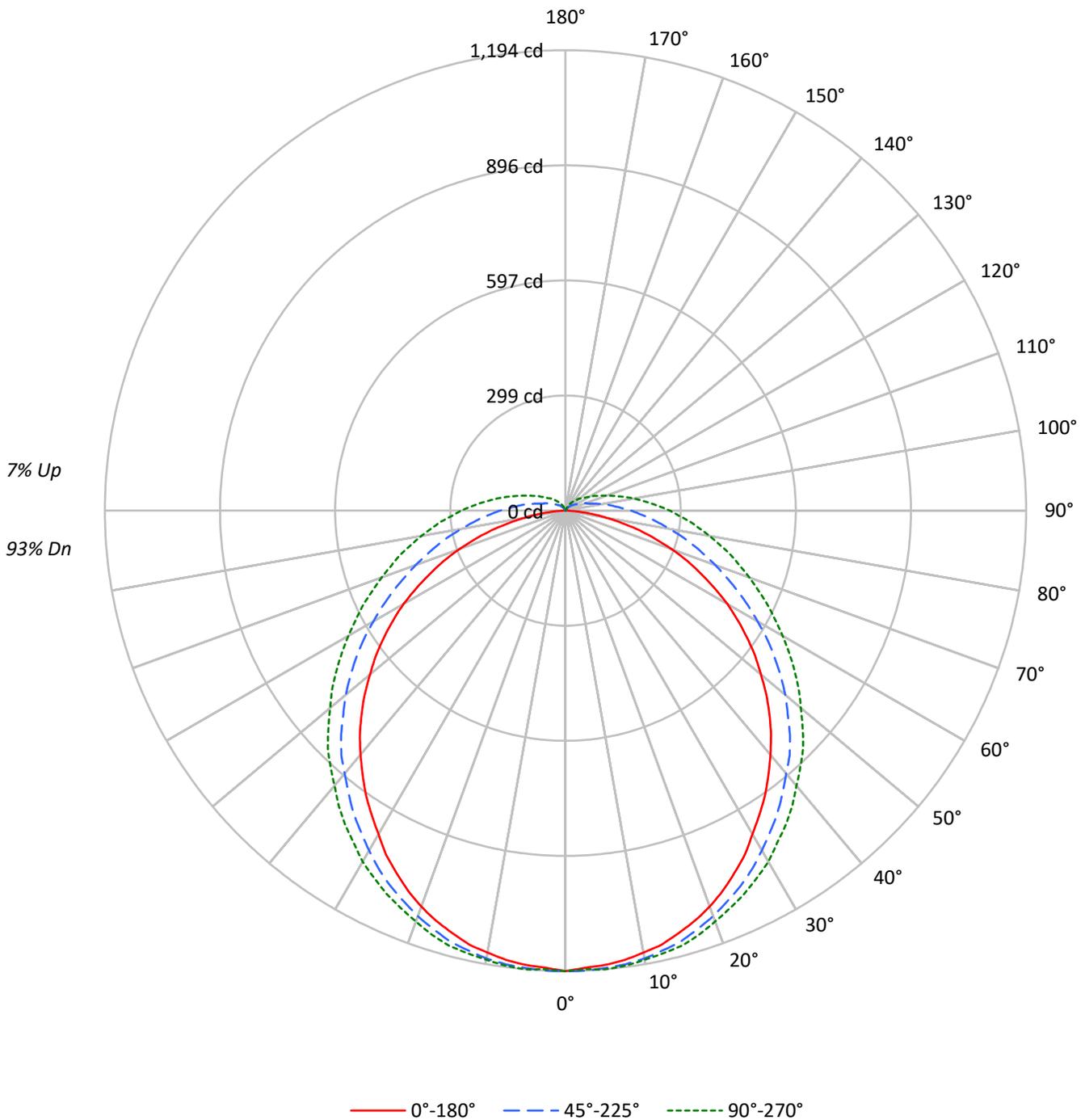
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4100.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 37.4  
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	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°	19486	19486	19486
5°	19287	19068	19040
10°	19111	18687	18576
15°	18892	18274	18205
20°	18619	17763	17682
25°	18215	17259	17231
30°	17718	16688	16784
35°	17314	16155	16264
40°	16853	15582	15717
45°	16383	15084	15318
50°	15788	14434	14726
55°	15202	13737	14255
60°	14489	12956	13755
65°	13419	12225	13370
70°	12207	11529	13013
75°	10485	10973	12897
80°	7880	10455	12855
85°	4395	10319	13226

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16383 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	2.8
10°-20°	325.6	7.9
20°-30°	493.3	12.0
30°-40°	596.7	14.6
40°-50°	629.0	15.3
50°-60°	587.1	14.3
60°-70°	484.7	11.8
70°-80°	351.6	8.6
80°-90°	222.1	5.4
90°-100°	132.6	3.2
100°-110°	76.0	1.9
110°-120°	43.2	1.1
120°-130°	24.6	0.6
130°-140°	13.3	0.3
140°-150°	5.8	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	932.1	22.7
0°-40°	1528.8	37.3
0°-60°	2744.9	66.9
0°-90°	3803.3	92.8
90°-120°	251.8	6.1
90°-150°	295.6	7.2
90°-180°	297.0	7.2
0°-180°	4100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1183	1194	1190	1190	1194	112
15°	1134	1149	1157	1160	1168	320
25°	1037	1052	1074	1089	1097	477
35°	901	924	958	984	995	563
45°	747	777	822	856	871	576
55°	575	608	661	706	725	514
65°	387	428	492	552	578	384
75°	199	252	342	413	443	209
85°	38	116	218	293	323	46
90°	0	71	169	240	270	2
95°	0	45	128	195	222	0
105°	0	15	71	124	143	0
115°	0	8	41	75	90	0
125°	0	4	26	49	56	0
135°	0	0	15	30	38	0
145°	0	0	8	19	22	0
155°	0	0	0	4	8	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°	1194.3	1194.3	1194.3	1194.3	1194.3
2.5°	1186.8	1198.0	1194.3	1190.5	1190.5
5°	1183.0	1194.3	1190.5	1190.5	1194.3
7.5°	1175.5	1186.8	1186.8	1186.8	1190.5
10°	1164.2	1179.3	1179.3	1179.3	1183.0
12.5°	1153.0	1164.2	1168.0	1171.8	1175.5
15°	1134.2	1149.2	1156.7	1160.5	1168.0
17.5°	1115.4	1126.7	1138.0	1149.2	1153.0
20°	1092.9	1107.9	1119.2	1130.4	1134.2
22.5°	1066.6	1081.6	1096.6	1107.9	1115.4
25°	1036.6	1051.6	1074.1	1089.1	1096.6
27.5°	1006.5	1021.5	1047.8	1066.6	1074.1
30°	969.0	991.5	1017.8	1040.3	1051.6
32.5°	935.1	957.7	987.7	1014.0	1021.5
35°	901.3	923.9	957.7	984.0	995.2
37.5°	863.8	890.1	923.9	953.9	965.2
40°	826.2	852.5	890.1	923.9	931.4
42.5°	788.7	815.0	860.0	890.1	901.3
45°	747.4	777.4	822.5	856.3	871.3
47.5°	706.1	736.1	781.2	818.7	833.7
50°	661.0	694.8	743.6	781.2	796.2
52.5°	619.7	653.5	702.3	743.6	762.4
55°	574.6	608.4	661.0	706.1	724.8
57.5°	529.5	563.3	619.7	668.5	687.3
60°	484.5	518.3	574.6	630.9	649.7
62.5°	435.7	473.2	533.3	589.6	612.2
65°	386.8	428.1	492.0	552.1	578.4
67.5°	341.8	383.1	450.7	518.3	540.8
70°	292.9	338.0	413.1	480.7	507.0
72.5°	244.1	292.9	375.6	446.9	473.2
75°	199.0	251.6	341.8	413.1	443.2
77.5°	150.2	214.1	308.0	383.1	409.4
80°	108.9	176.5	274.2	353.0	379.3
82.5°	71.4	142.7	244.1	323.0	349.3
85°	37.6	116.4	217.8	292.9	323.0
87.5°	11.3	90.1	191.5	266.6	292.9
90°	0.0	71.4	169.0	240.4	270.4
92.5°	0.0	56.3	146.5	217.8	244.1
95°	0.0	45.1	127.7	195.3	221.6
97.5°	0.0	37.6	112.7	176.5	199.0
100°	0.0	30.0	97.6	157.7	180.3
102.5°	0.0	22.5	82.6	139.0	161.5
105°	0.0	15.0	71.4	123.9	142.7
107.5°	0.0	11.3	60.1	108.9	127.7
110°	0.0	11.3	56.3	93.9	112.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.5	48.8	86.4	101.4
115°	0.0	7.5	41.3	75.1	90.1
117.5°	0.0	7.5	37.6	67.6	82.6
120°	0.0	7.5	33.8	60.1	71.4
122.5°	0.0	3.8	30.0	52.6	63.8
125°	0.0	3.8	26.3	48.8	56.3
127.5°	0.0	3.8	22.5	45.1	52.6
130°	0.0	3.8	22.5	41.3	48.8
132.5°	0.0	0.0	18.8	37.6	45.1
135°	0.0	0.0	15.0	30.0	37.6
137.5°	0.0	0.0	15.0	26.3	33.8
140°	0.0	0.0	11.3	26.3	30.0
142.5°	0.0	0.0	7.5	22.5	26.3
145°	0.0	0.0	7.5	18.8	22.5
147.5°	0.0	0.0	3.8	15.0	18.8
150°	0.0	0.0	3.8	11.3	15.0
152.5°	0.0	0.0	0.0	7.5	11.3
155°	0.0	0.0	0.0	3.8	7.5
157.5°	0.0	0.0	0.0	0.0	3.8
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	19.60	21.13	20.07	21.59	22.08	21.58	23.11	22.05	23.57	24.06
	3H	21.10	22.50	21.59	22.97	23.50	23.99	25.39	24.48	25.86	26.39
	4H	21.58	22.91	22.09	23.40	23.94	25.17	26.50	25.68	26.99	27.53
	6H	21.86	23.10	22.38	23.60	24.16	26.39	27.63	26.91	28.13	28.69
	8H	21.91	23.10	22.45	23.62	24.19	27.01	28.20	27.54	28.72	29.29
	12H	21.93	23.07	22.47	23.58	24.18	27.68	28.82	28.22	29.34	29.93
4H	2H	20.46	21.79	20.97	22.28	22.82	22.01	23.34	22.52	23.83	24.37
	3H	22.21	23.34	22.73	23.87	24.44	24.66	25.79	25.18	26.32	26.89
	4H	22.82	23.85	23.35	24.39	24.99	26.01	27.05	26.55	27.59	28.19
	6H	23.22	24.13	23.78	24.70	25.31	27.43	28.35	27.99	28.91	29.53
	8H	23.32	24.18	23.88	24.74	25.37	28.16	29.02	28.72	29.59	30.21
	12H	23.36	24.15	23.95	24.74	25.37	28.95	29.74	29.54	30.33	30.96
8H	4H	23.49	24.35	24.06	24.92	25.55	26.23	27.10	26.80	27.66	28.29
	6H	24.08	24.81	24.67	25.42	26.05	27.83	28.56	28.43	29.17	29.80
	8H	24.27	24.93	24.87	25.54	26.19	28.70	29.36	29.31	29.98	30.63
	12H	24.39	24.98	25.00	25.58	26.29	29.68	30.27	30.29	30.88	31.59
12H	4H	23.68	24.47	24.27	25.06	25.69	26.24	27.03	26.83	27.62	28.25
	6H	24.37	25.03	24.98	25.65	26.29	27.87	28.53	28.48	29.15	29.79
	8H	24.66	25.25	25.27	25.85	26.56	28.81	29.40	29.43	30.01	30.72