

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: P973687

Luminaire Tested: FLR2-22-35-L850-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-35-L850-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

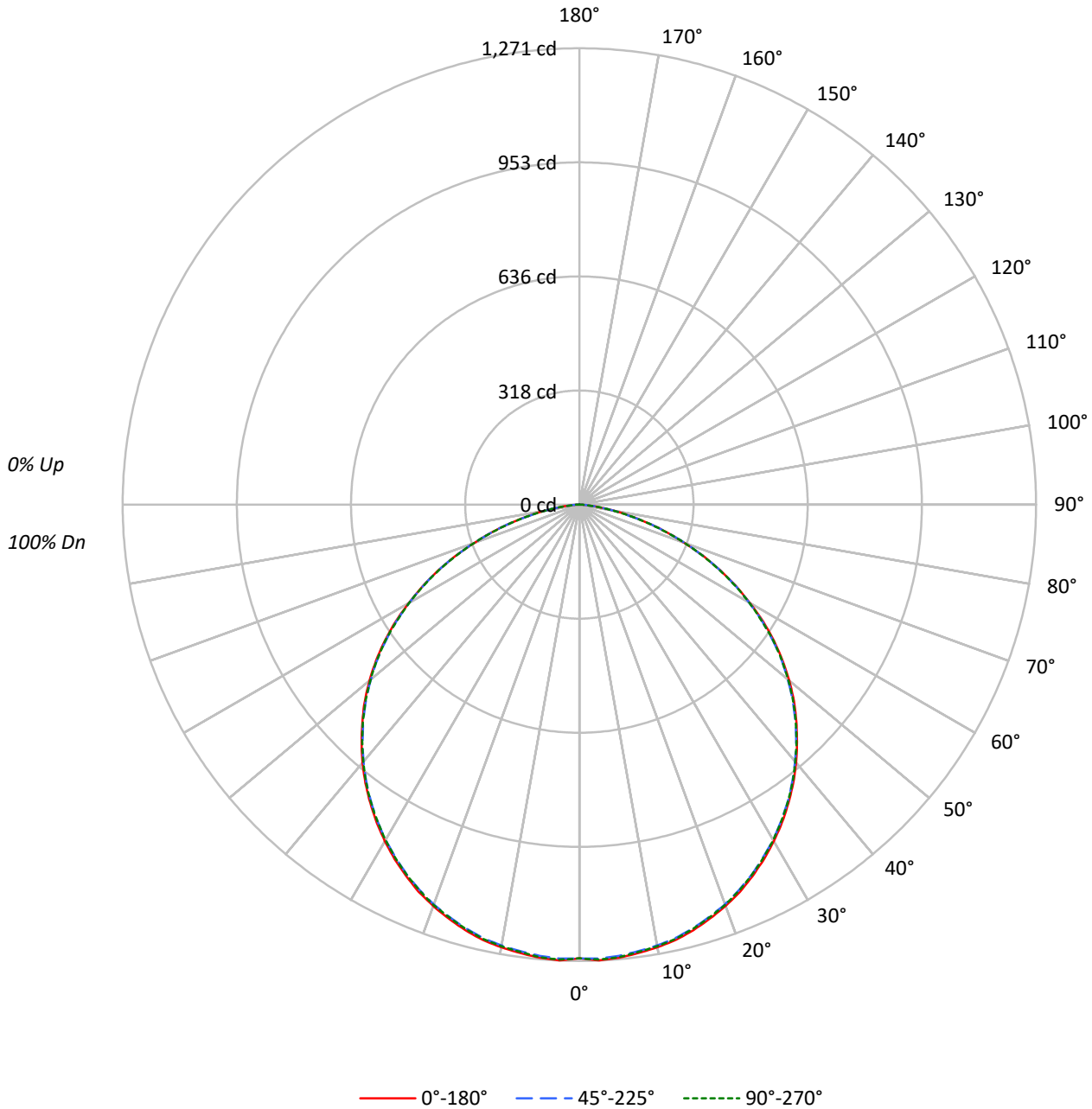
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3534.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
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										
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	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3401	3401	3401
5°	3422	3407	3418
10°	3421	3406	3413
15°	3418	3403	3407
20°	3407	3393	3397
25°	3388	3374	3377
30°	3364	3350	3352
35°	3333	3321	3323
40°	3299	3282	3285
45°	3250	3235	3241
50°	3193	3170	3176
55°	3102	3076	3087
60°	2949	2936	2936
65°	2753	2748	2739
70°	2438	2450	2445
75°	2053	2037	2021
80°	1475	1452	1440
85°	772	772	747

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3250 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.7	3.4
10°-20°	344.1	9.7
20°-30°	523.0	14.8
30°-40°	632.1	17.9
40°-50°	656.1	18.6
50°-60°	586.5	16.6
60°-70°	426.5	12.1
70°-80°	209.7	5.9
80°-90°	36.4	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	986.8	27.9
0°-40°	1618.8	45.8
0°-60°	2861.5	81.0
0°-90°	3534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3534.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1267	1252	1261	1257	1265	120
15°	1227	1213	1222	1218	1223	346
25°	1141	1129	1136	1134	1137	526
35°	1015	1008	1011	1012	1012	635
45°	854	850	850	852	852	659
55°	661	657	656	657	658	589
65°	432	434	432	432	430	426
75°	198	199	196	197	194	210
85°	25	26	25	25	24	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1263.7	1263.7	1263.7	1263.7	1263.7
2.5°	1270.7	1255.9	1265.3	1259.8	1268.4
5°	1266.8	1252.0	1261.4	1256.7	1265.3
7.5°	1259.8	1245.0	1254.4	1249.7	1256.7
10°	1252.0	1236.4	1246.6	1241.9	1248.9
12.5°	1241.9	1227.0	1236.4	1232.5	1238.7
15°	1227.0	1213.0	1221.6	1218.5	1223.1
17.5°	1209.1	1195.0	1203.6	1201.3	1205.2
20°	1189.6	1176.3	1184.9	1182.5	1186.4
22.5°	1167.7	1153.7	1161.5	1159.9	1163.0
25°	1141.2	1128.7	1136.5	1134.2	1137.3
27.5°	1113.1	1101.4	1107.6	1107.6	1109.2
30°	1082.6	1071.7	1078.0	1078.0	1078.7
32.5°	1049.9	1041.3	1045.2	1045.9	1045.9
35°	1014.7	1007.7	1010.8	1011.6	1011.6
37.5°	978.0	971.0	973.4	974.9	974.9
40°	939.0	932.8	934.3	935.9	935.1
42.5°	896.9	892.2	893.0	894.5	894.5
45°	853.9	850.0	850.0	851.6	851.6
47.5°	810.2	806.3	804.8	806.3	806.3
50°	762.6	758.7	757.1	758.7	758.7
52.5°	712.6	708.7	708.7	708.7	709.5
55°	661.1	657.2	655.7	657.2	658.0
57.5°	606.5	604.9	602.6	603.4	601.0
60°	548.0	548.0	545.6	547.2	545.6
62.5°	491.0	492.5	490.2	490.2	488.6
65°	432.4	434.0	431.6	431.6	430.1
67.5°	372.3	374.7	371.5	371.5	370.0
70°	309.9	314.6	311.4	312.2	310.7
72.5°	253.7	256.0	252.9	252.9	251.3
75°	197.5	199.0	195.9	196.7	194.4
77.5°	142.1	144.4	141.3	142.1	141.3
80°	95.2	96.0	93.7	94.4	92.9
82.5°	55.4	56.2	55.4	54.6	53.9
85°	25.0	25.8	25.0	25.0	24.2
87.5°	6.2	6.2	6.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)