

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: P973667

Luminaire Tested: FLR2-22-35-L850-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973667  
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-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

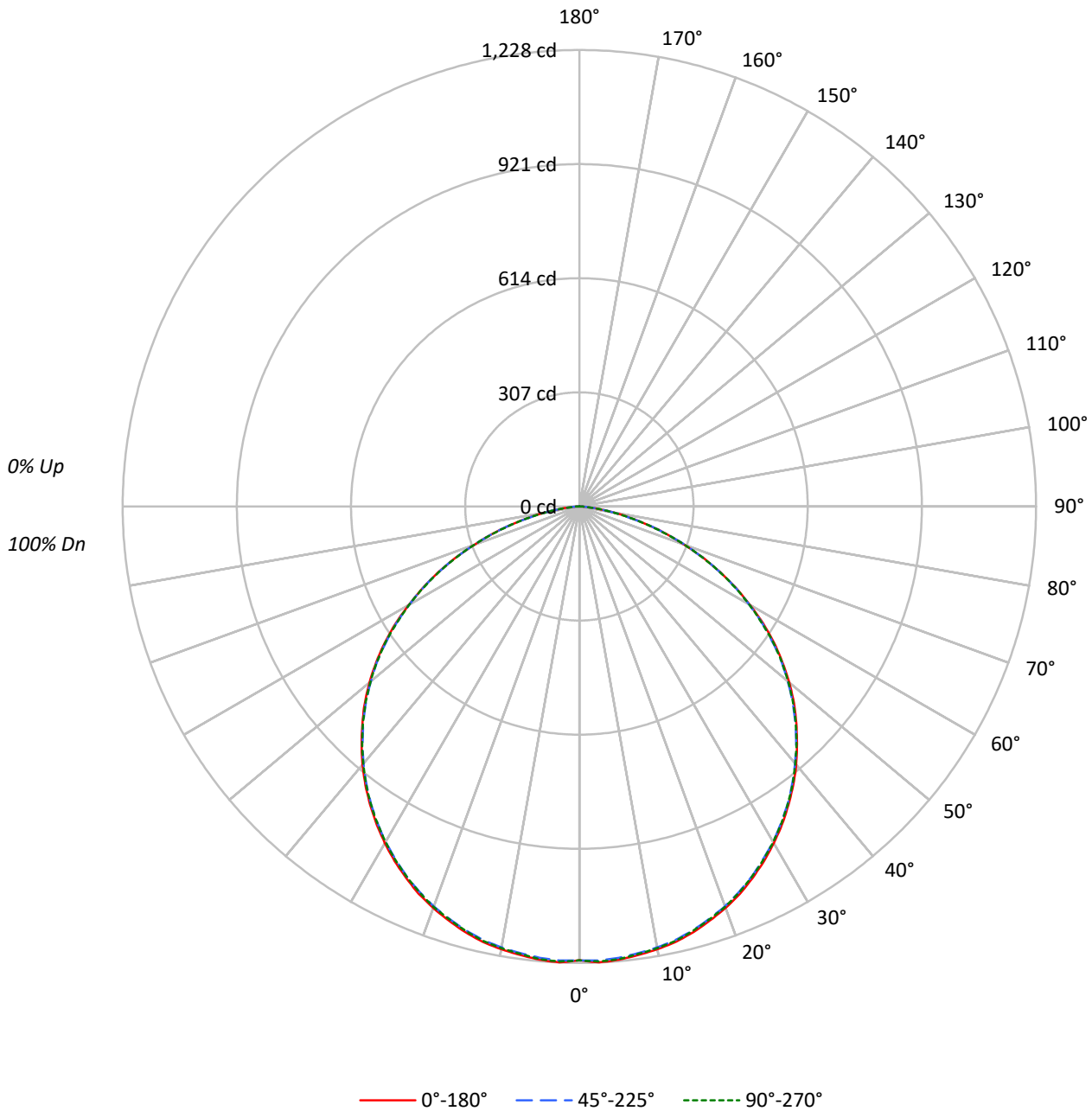
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3414.6 lumens  
Efficiency: N/A  
Efficacy: 122.4 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°	3286	3286	3286
5°	3306	3292	3302
10°	3305	3291	3297
15°	3303	3288	3292
20°	3292	3278	3283
25°	3274	3260	3263
30°	3250	3236	3239
35°	3221	3209	3211
40°	3187	3171	3174
45°	3140	3126	3131
50°	3085	3062	3069
55°	2997	2972	2983
60°	2849	2837	2837
65°	2660	2656	2646
70°	2356	2367	2362
75°	1984	1968	1953
80°	1426	1402	1390
85°	744	744	722

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3140 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.6	3.4
10°-20°	332.5	9.7
20°-30°	505.3	14.8
30°-40°	610.7	17.9
40°-50°	633.9	18.6
50°-60°	566.7	16.6
60°-70°	412.1	12.1
70°-80°	202.6	5.9
80°-90°	35.1	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°	953.4	27.9
0°-40°	1564.1	45.8
0°-60°	2764.8	81.0
0°-90°	3414.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1224	1210	1219	1214	1222	116
15°	1186	1172	1180	1177	1182	335
25°	1103	1090	1098	1096	1099	508
35°	980	974	977	977	977	613
45°	825	821	821	823	823	636
55°	639	635	634	635	636	569
65°	418	419	417	417	416	412
75°	191	192	189	190	188	203
85°	24	25	24	24	23	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1227.8	1213.5	1222.5	1217.2	1225.5
5°	1224.0	1209.7	1218.7	1214.2	1222.5
7.5°	1217.2	1202.9	1212.0	1207.4	1214.2
10°	1209.7	1194.6	1204.4	1199.9	1206.7
12.5°	1199.9	1185.6	1194.6	1190.8	1196.9
15°	1185.6	1172.0	1180.3	1177.3	1181.8
17.5°	1168.2	1154.6	1162.9	1160.7	1164.4
20°	1149.4	1136.5	1144.8	1142.6	1146.3
22.5°	1128.2	1114.7	1122.2	1120.7	1123.7
25°	1102.6	1090.5	1098.1	1095.8	1098.8
27.5°	1075.5	1064.1	1070.2	1070.2	1071.7
30°	1046.0	1035.5	1041.5	1041.5	1042.3
32.5°	1014.4	1006.1	1009.8	1010.6	1010.6
35°	980.4	973.6	976.7	977.4	977.4
37.5°	945.0	938.2	940.5	942.0	942.0
40°	907.3	901.2	902.7	904.3	903.5
42.5°	866.5	862.0	862.8	864.3	864.3
45°	825.1	821.3	821.3	822.8	822.8
47.5°	782.8	779.1	777.6	779.1	779.1
50°	736.8	733.1	731.5	733.1	733.1
52.5°	688.6	684.8	684.8	684.8	685.5
55°	638.8	635.0	633.5	635.0	635.8
57.5°	586.0	584.5	582.2	583.0	580.7
60°	529.4	529.4	527.2	528.7	527.2
62.5°	474.4	475.9	473.6	473.6	472.1
65°	417.8	419.3	417.1	417.1	415.6
67.5°	359.7	362.0	359.0	359.0	357.5
70°	299.4	303.9	300.9	301.7	300.2
72.5°	245.1	247.4	244.4	244.4	242.8
75°	190.8	192.3	189.3	190.1	187.8
77.5°	137.3	139.5	136.5	137.3	136.5
80°	92.0	92.8	90.5	91.3	89.7
82.5°	53.5	54.3	53.5	52.8	52.0
85°	24.1	24.9	24.1	24.1	23.4
87.5°	6.0	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)