

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: P974005

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

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974005  
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: FLR2-22-35HE-L850-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

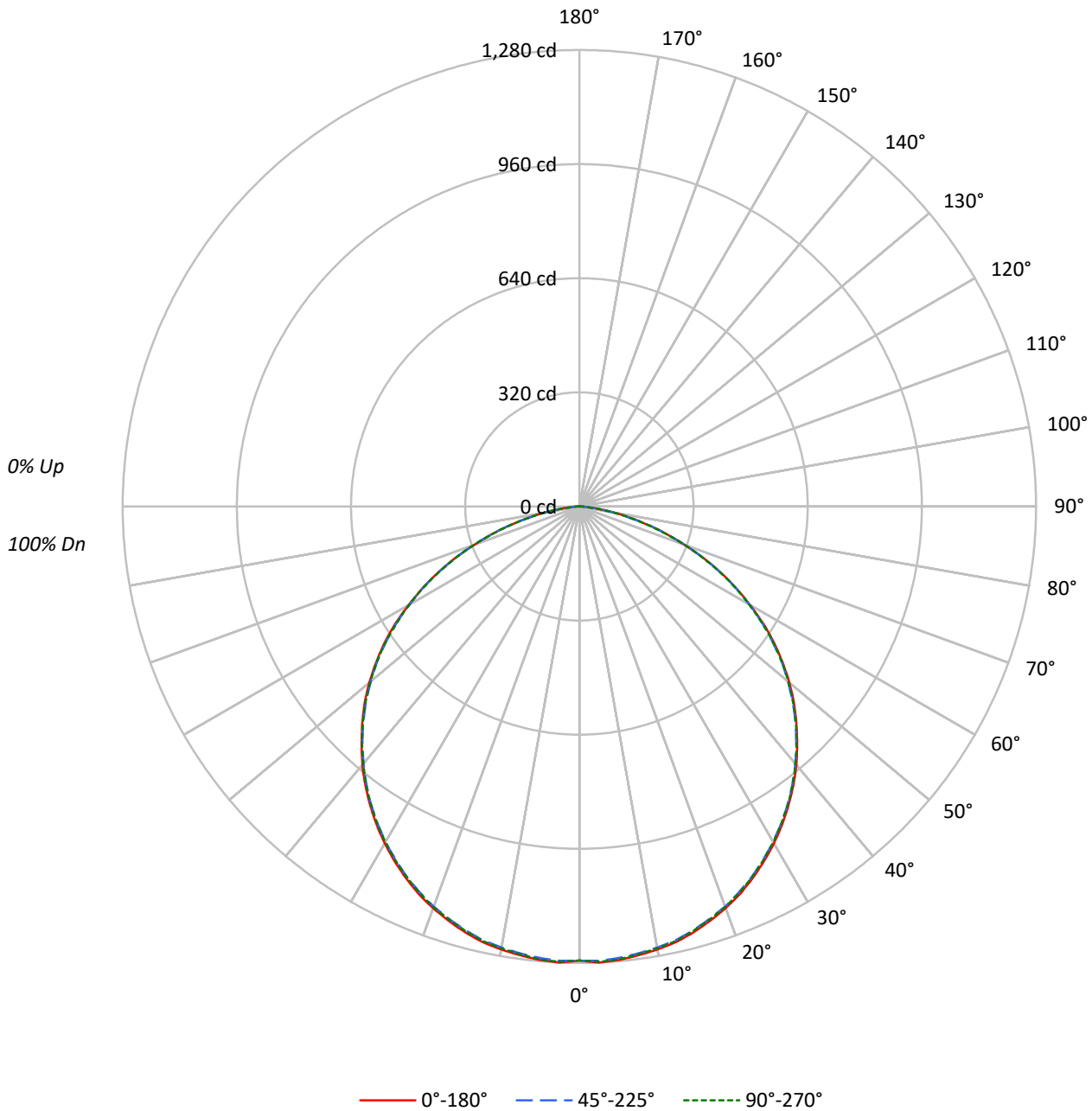
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3560.9 lumens  
Efficiency: N/A  
Efficacy: 130.9 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): 27.2  
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									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	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°	3426	3426	3426
5°	3448	3433	3444
10°	3447	3432	3439
15°	3444	3429	3433
20°	3432	3419	3424
25°	3414	3400	3402
30°	3390	3375	3377
35°	3359	3346	3348
40°	3323	3307	3310
45°	3274	3260	3266
50°	3217	3194	3201
55°	3126	3100	3111
60°	2971	2959	2959
65°	2774	2769	2760
70°	2456	2469	2463
75°	2069	2052	2036
80°	1488	1463	1450
85°	778	778	753

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3274 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	3.4
10°-20°	346.7	9.7
20°-30°	526.9	14.8
30°-40°	636.9	17.9
40°-50°	661.1	18.6
50°-60°	591.0	16.6
60°-70°	429.7	12.1
70°-80°	211.3	5.9
80°-90°	36.7	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°	994.2	27.9
0°-40°	1631.1	45.8
0°-60°	2883.2	81.0
0°-90°	3560.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1276	1262	1271	1266	1275	121
15°	1236	1222	1231	1228	1232	349
25°	1150	1137	1145	1143	1146	530
35°	1022	1015	1018	1019	1019	640
45°	860	856	856	858	858	664
55°	666	662	661	662	663	594
65°	436	437	435	435	433	430
75°	199	201	197	198	196	211
85°	25	26	25	25	24	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1273.3	1273.3	1273.3	1273.3	1273.3
2.5°	1280.4	1265.5	1274.9	1269.4	1278.0
5°	1276.5	1261.5	1271.0	1266.2	1274.9
7.5°	1269.4	1254.4	1263.9	1259.2	1266.2
10°	1261.5	1245.8	1256.0	1251.3	1258.4
12.5°	1251.3	1236.4	1245.8	1241.9	1248.2
15°	1236.4	1222.2	1230.9	1227.7	1232.4
17.5°	1218.3	1204.1	1212.8	1210.4	1214.3
20°	1198.6	1185.2	1193.9	1191.5	1195.5
22.5°	1176.6	1162.4	1170.3	1168.7	1171.9
25°	1149.8	1137.3	1145.1	1142.8	1145.9
27.5°	1121.5	1109.7	1116.0	1116.0	1117.6
30°	1090.9	1079.8	1086.1	1086.1	1086.9
32.5°	1057.8	1049.2	1053.1	1053.9	1053.9
35°	1022.4	1015.4	1018.5	1019.3	1019.3
37.5°	985.5	978.4	980.8	982.3	982.3
40°	946.1	939.9	941.4	943.0	942.2
42.5°	903.7	899.0	899.7	901.3	901.3
45°	860.4	856.5	856.5	858.1	858.1
47.5°	816.4	812.4	810.9	812.4	812.4
50°	768.4	764.5	762.9	764.5	764.5
52.5°	718.1	714.1	714.1	714.1	714.9
55°	666.2	662.2	660.7	662.2	663.0
57.5°	611.1	609.5	607.2	608.0	605.6
60°	552.1	552.1	549.8	551.3	549.8
62.5°	494.7	496.3	493.9	493.9	492.3
65°	435.7	437.3	434.9	434.9	433.4
67.5°	375.2	377.5	374.4	374.4	372.8
70°	312.2	317.0	313.8	314.6	313.0
72.5°	255.6	258.0	254.8	254.8	253.2
75°	199.0	200.6	197.4	198.2	195.8
77.5°	143.1	145.5	142.4	143.1	142.4
80°	96.0	96.7	94.4	95.2	93.6
82.5°	55.8	56.6	55.8	55.1	54.3
85°	25.2	26.0	25.2	25.2	24.4
87.5°	6.3	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)