

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: P973981

Luminaire Tested: FLR2-22-35HE-L850-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973981  
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-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

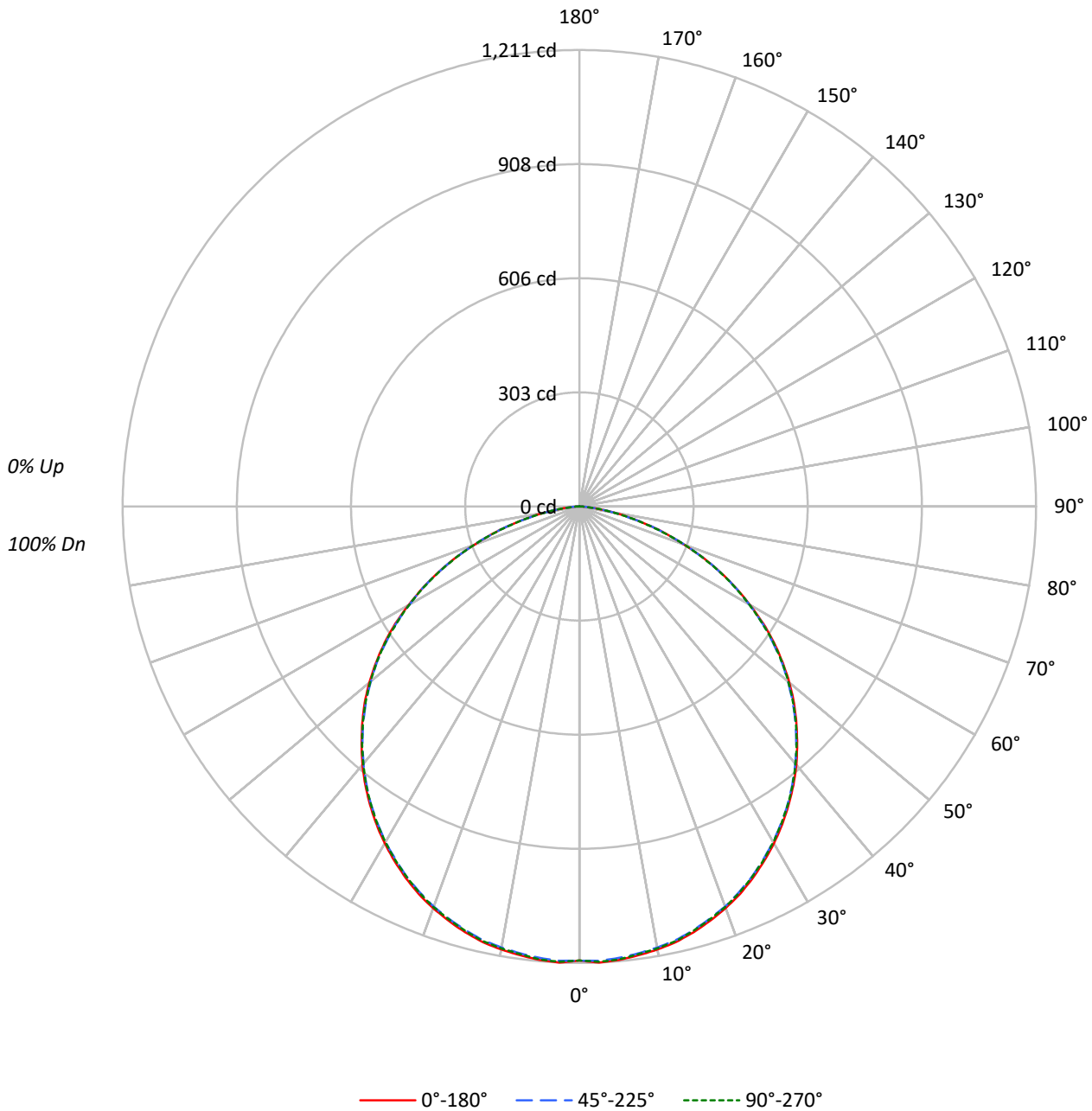
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3368.9 lumens  
Efficiency: N/A  
Efficacy: 123.9 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	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°	3242	3242	3242
5°	3262	3248	3258
10°	3261	3247	3253
15°	3259	3244	3248
20°	3247	3235	3239
25°	3230	3217	3219
30°	3207	3193	3195
35°	3178	3166	3168
40°	3144	3129	3131
45°	3098	3084	3089
50°	3044	3022	3028
55°	2957	2932	2943
60°	2812	2799	2799
65°	2625	2620	2611
70°	2324	2336	2330
75°	1958	1942	1927
80°	1407	1384	1371
85°	735	735	713

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3098 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	3.4
10°-20°	328.1	9.7
20°-30°	498.5	14.8
30°-40°	602.6	17.9
40°-50°	625.4	18.6
50°-60°	559.2	16.6
60°-70°	406.5	12.1
70°-80°	199.9	5.9
80°-90°	34.7	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°	940.6	27.9
0°-40°	1543.2	45.8
0°-60°	2727.8	81.0
0°-90°	3368.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1208	1194	1202	1198	1206	115
15°	1170	1156	1164	1162	1166	330
25°	1088	1076	1083	1081	1084	501
35°	967	961	964	964	964	605
45°	814	810	810	812	812	628
55°	630	626	625	626	627	562
65°	412	414	412	412	410	407
75°	188	190	187	188	185	200
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°	1204.7	1204.7	1204.7	1204.7	1204.7
2.5°	1211.4	1197.2	1206.2	1201.0	1209.1
5°	1207.7	1193.5	1202.4	1198.0	1206.2
7.5°	1201.0	1186.8	1195.8	1191.3	1198.0
10°	1193.5	1178.6	1188.3	1183.8	1190.5
12.5°	1183.8	1169.7	1178.6	1174.9	1180.9
15°	1169.7	1156.3	1164.5	1161.5	1166.0
17.5°	1152.6	1139.2	1147.4	1145.2	1148.9
20°	1134.0	1121.3	1129.5	1127.3	1131.0
22.5°	1113.2	1099.8	1107.2	1105.7	1108.7
25°	1087.9	1076.0	1083.4	1081.2	1084.1
27.5°	1061.1	1049.9	1055.9	1055.9	1057.4
30°	1032.1	1021.6	1027.6	1027.6	1028.3
32.5°	1000.8	992.6	996.3	997.1	997.1
35°	967.3	960.6	963.6	964.3	964.3
37.5°	932.3	925.6	927.9	929.4	929.4
40°	895.1	889.2	890.7	892.2	891.4
42.5°	855.0	850.5	851.2	852.7	852.7
45°	814.0	810.3	810.3	811.8	811.8
47.5°	772.4	768.6	767.2	768.6	768.6
50°	727.0	723.3	721.8	723.3	723.3
52.5°	679.4	675.6	675.6	675.6	676.4
55°	630.2	626.5	625.0	626.5	627.3
57.5°	578.2	576.7	574.4	575.2	572.9
60°	522.4	522.4	520.1	521.6	520.1
62.5°	468.0	469.5	467.3	467.3	465.8
65°	412.2	413.7	411.5	411.5	410.0
67.5°	354.9	357.2	354.2	354.2	352.7
70°	295.4	299.9	296.9	297.6	296.1
72.5°	241.8	244.1	241.1	241.1	239.6
75°	188.3	189.7	186.8	187.5	185.3
77.5°	135.4	137.7	134.7	135.4	134.7
80°	90.8	91.5	89.3	90.0	88.5
82.5°	52.8	53.6	52.8	52.1	51.3
85°	23.8	24.6	23.8	23.8	23.1
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)