

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: P974011

Luminaire Tested: FLR2-22-35HE-L850-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974011  
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-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

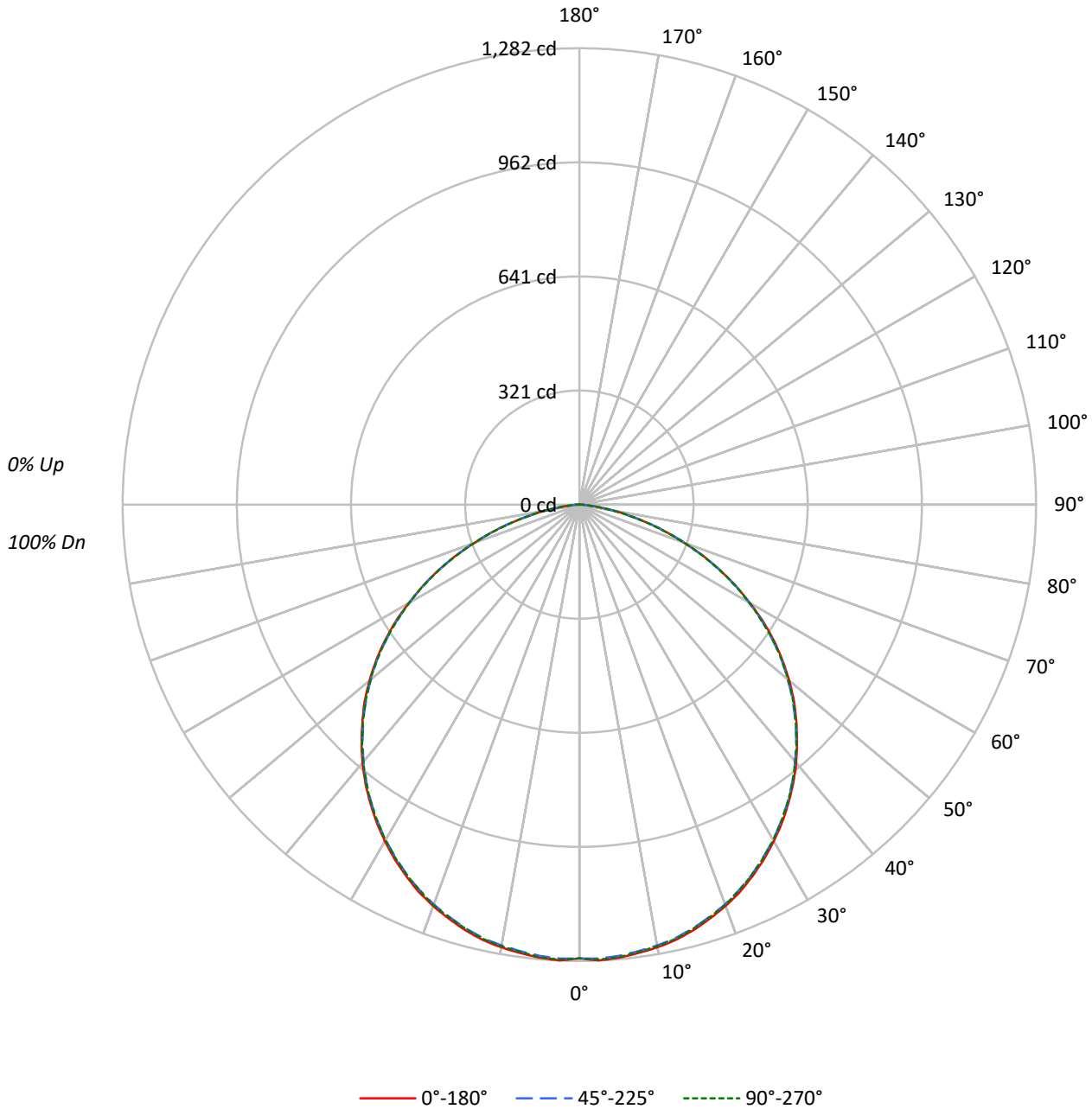
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3564.7 lumens  
Efficiency: N/A  
Efficacy: 131.1 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

TEST NUMBER: P974011  
CATALOG NUMBER: FLR2-22-35HE-L850-CA125

### Luminous Intensity Polar Plot



TEST NUMBER: P974011  
 CATALOG NUMBER: FLR2-22-35HE-L850-CA125

**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°	3430	3430	3430
5°	3452	3437	3448
10°	3451	3436	3442
15°	3448	3433	3437
20°	3436	3423	3427
25°	3418	3404	3406
30°	3393	3379	3381
35°	3362	3349	3352
40°	3327	3310	3313
45°	3278	3263	3269
50°	3220	3197	3204
55°	3129	3103	3114
60°	2975	2962	2962
65°	2777	2772	2762
70°	2460	2471	2466
75°	2071	2054	2038
80°	1489	1464	1452
85°	778	778	753

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3278 cd/sqm



TEST NUMBER: P974011  
 CATALOG NUMBER: FLR2-22-35HE-L850-CA125

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.7	3.4
10°-20°	347.1	9.7
20°-30°	527.5	14.8
30°-40°	637.6	17.9
40°-50°	661.8	18.6
50°-60°	591.6	16.6
60°-70°	430.2	12.1
70°-80°	211.5	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°	995.3	27.9
0°-40°	1632.9	45.8
0°-60°	2886.3	81.0
0°-90°	3564.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3564.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1278	1263	1272	1268	1276	121
15°	1238	1224	1232	1229	1234	349
25°	1151	1138	1146	1144	1147	531
35°	1024	1016	1020	1020	1020	640
45°	861	857	857	859	859	664
55°	667	663	661	663	664	594
65°	436	438	435	435	434	430
75°	199	201	198	198	196	211
85°	25	26	25	25	24	37
90°	0	0	0	0	0	



TEST NUMBER: P974011  
 CATALOG NUMBER: FLR2-22-35HE-L850-CA125

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1274.7	1274.7	1274.7	1274.7	1274.7
2.5°	1281.8	1266.8	1276.3	1270.8	1279.4
5°	1277.8	1262.9	1272.3	1267.6	1276.3
7.5°	1270.8	1255.8	1265.2	1260.5	1267.6
10°	1262.9	1247.1	1257.4	1252.7	1259.7
12.5°	1252.7	1237.7	1247.1	1243.2	1249.5
15°	1237.7	1223.5	1232.2	1229.0	1233.8
17.5°	1219.6	1205.4	1214.1	1211.7	1215.6
20°	1199.9	1186.5	1195.2	1192.8	1196.8
22.5°	1177.9	1163.7	1171.6	1170.0	1173.1
25°	1151.1	1138.5	1146.4	1144.0	1147.1
27.5°	1122.7	1110.9	1117.2	1117.2	1118.8
30°	1092.0	1081.0	1087.3	1087.3	1088.1
32.5°	1059.0	1050.3	1054.2	1055.0	1055.0
35°	1023.5	1016.5	1019.6	1020.4	1020.4
37.5°	986.5	979.4	981.8	983.4	983.4
40°	947.2	940.9	942.4	944.0	943.2
42.5°	904.6	899.9	900.7	902.3	902.3
45°	861.3	857.4	857.4	859.0	859.0
47.5°	817.3	813.3	811.7	813.3	813.3
50°	769.2	765.3	763.7	765.3	765.3
52.5°	718.8	714.9	714.9	714.9	715.7
55°	666.9	662.9	661.4	662.9	663.7
57.5°	611.8	610.2	607.8	608.6	606.2
60°	552.7	552.7	550.3	551.9	550.3
62.5°	495.2	496.8	494.4	494.4	492.9
65°	436.2	437.8	435.4	435.4	433.8
67.5°	375.6	377.9	374.8	374.8	373.2
70°	312.6	317.3	314.1	314.9	313.4
72.5°	255.9	258.2	255.1	255.1	253.5
75°	199.2	200.8	197.6	198.4	196.0
77.5°	143.3	145.7	142.5	143.3	142.5
80°	96.1	96.8	94.5	95.3	93.7
82.5°	55.9	56.7	55.9	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)