

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: P973671

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

Issue Date: 3/13/2025

**Test Information**

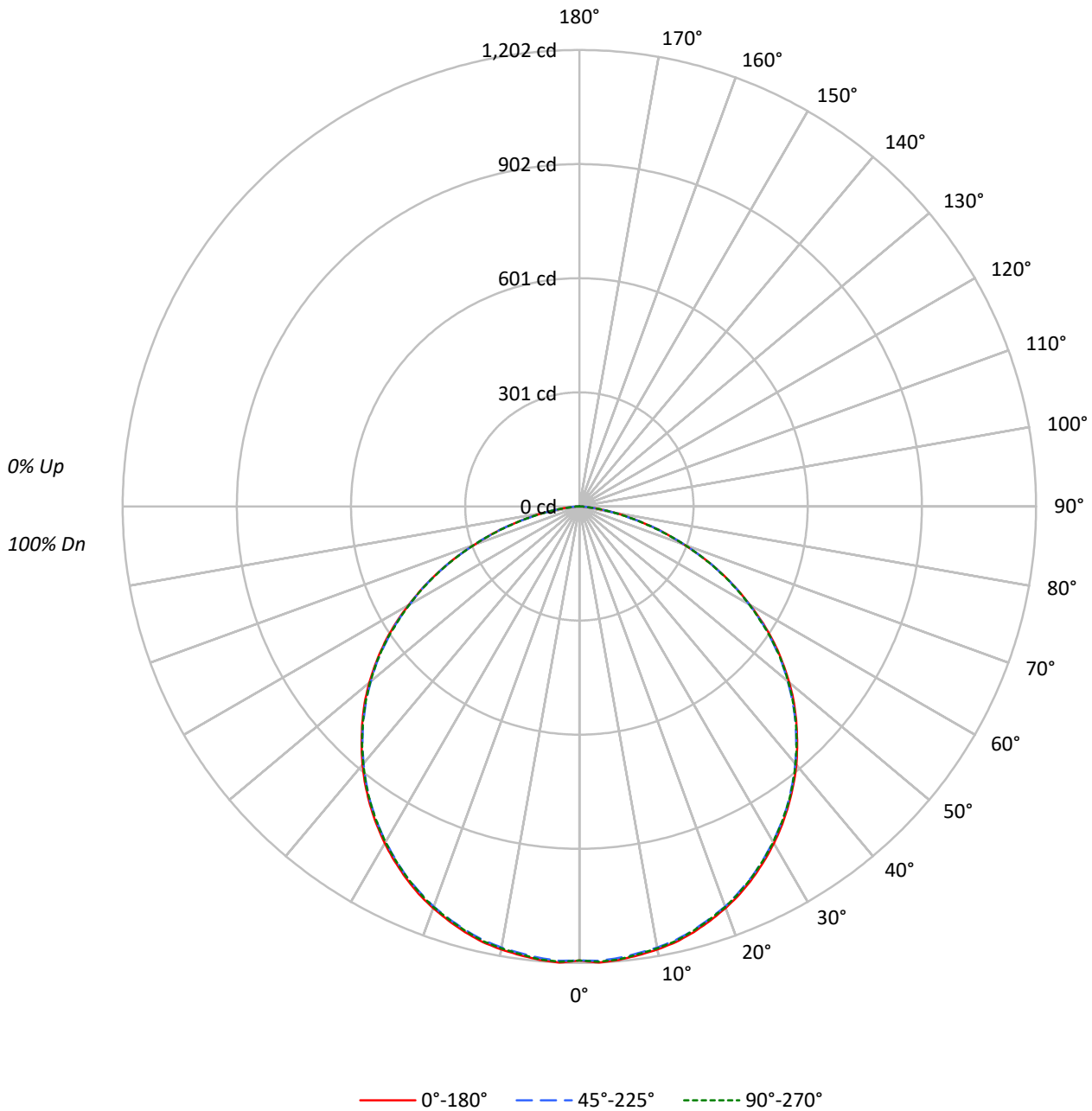
Test Method: LM-79-2019  
Report Number: P973671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-35-L850-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3343.5 lumens  
Efficiency: N/A  
Efficacy: 119.8 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°	3217	3217	3217
5°	3238	3224	3234
10°	3237	3223	3229
15°	3234	3220	3224
20°	3223	3210	3214
25°	3206	3192	3195
30°	3183	3169	3171
35°	3154	3142	3144
40°	3121	3105	3108
45°	3075	3060	3066
50°	3021	2999	3005
55°	2935	2910	2921
60°	2790	2778	2778
65°	2605	2600	2591
70°	2307	2319	2312
75°	1942	1928	1912
80°	1396	1373	1362
85°	729	729	707

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3075 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	3.4
10°-20°	325.6	9.7
20°-30°	494.8	14.8
30°-40°	598.0	17.9
40°-50°	620.7	18.6
50°-60°	554.9	16.6
60°-70°	403.5	12.1
70°-80°	198.4	5.9
80°-90°	34.4	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°	933.6	27.9
0°-40°	1531.6	45.8
0°-60°	2707.2	81.0
0°-90°	3343.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3343.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1199	1184	1193	1189	1197	114
15°	1161	1148	1156	1153	1157	328
25°	1080	1068	1075	1073	1076	498
35°	960	953	956	957	957	601
45°	808	804	804	806	806	623
55°	626	622	620	622	622	558
65°	409	411	408	408	407	403
75°	187	188	185	186	184	198
85°	24	24	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°	1195.6	1195.6	1195.6	1195.6	1195.6
2.5°	1202.2	1188.2	1197.1	1191.9	1200.0
5°	1198.6	1184.5	1193.4	1189.0	1197.1
7.5°	1191.9	1177.9	1186.7	1182.3	1189.0
10°	1184.5	1169.8	1179.4	1174.9	1181.6
12.5°	1174.9	1160.9	1169.8	1166.1	1172.0
15°	1160.9	1147.6	1155.7	1152.8	1157.2
17.5°	1143.9	1130.6	1138.7	1136.5	1140.2
20°	1125.4	1112.9	1121.0	1118.8	1122.5
22.5°	1104.8	1091.5	1098.9	1097.4	1100.3
25°	1079.7	1067.8	1075.2	1073.0	1076.0
27.5°	1053.1	1042.0	1047.9	1047.9	1049.4
30°	1024.3	1013.9	1019.8	1019.8	1020.6
32.5°	993.3	985.1	988.8	989.6	989.6
35°	960.0	953.4	956.3	957.1	957.1
37.5°	925.3	918.7	920.9	922.4	922.4
40°	888.4	882.5	884.0	885.4	884.7
42.5°	848.5	844.1	844.8	846.3	846.3
45°	807.9	804.2	804.2	805.7	805.7
47.5°	766.5	762.8	761.4	762.8	762.8
50°	721.5	717.8	716.3	717.8	717.8
52.5°	674.2	670.5	670.5	670.5	671.3
55°	625.5	621.8	620.3	621.8	622.5
57.5°	573.8	572.3	570.1	570.8	568.6
60°	518.4	518.4	516.2	517.7	516.2
62.5°	464.5	466.0	463.8	463.8	462.3
65°	409.1	410.6	408.4	408.4	406.9
67.5°	352.3	354.5	351.5	351.5	350.0
70°	293.2	297.6	294.7	295.4	293.9
72.5°	240.0	242.2	239.3	239.3	237.8
75°	186.8	188.3	185.4	186.1	183.9
77.5°	134.4	136.6	133.7	134.4	133.7
80°	90.1	90.8	88.6	89.4	87.9
82.5°	52.4	53.2	52.4	51.7	51.0
85°	23.6	24.4	23.6	23.6	22.9
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)