

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: P973580

Luminaire Tested: FLR2-22-45-L835-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973580  
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: FLR2-22-45-L835-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

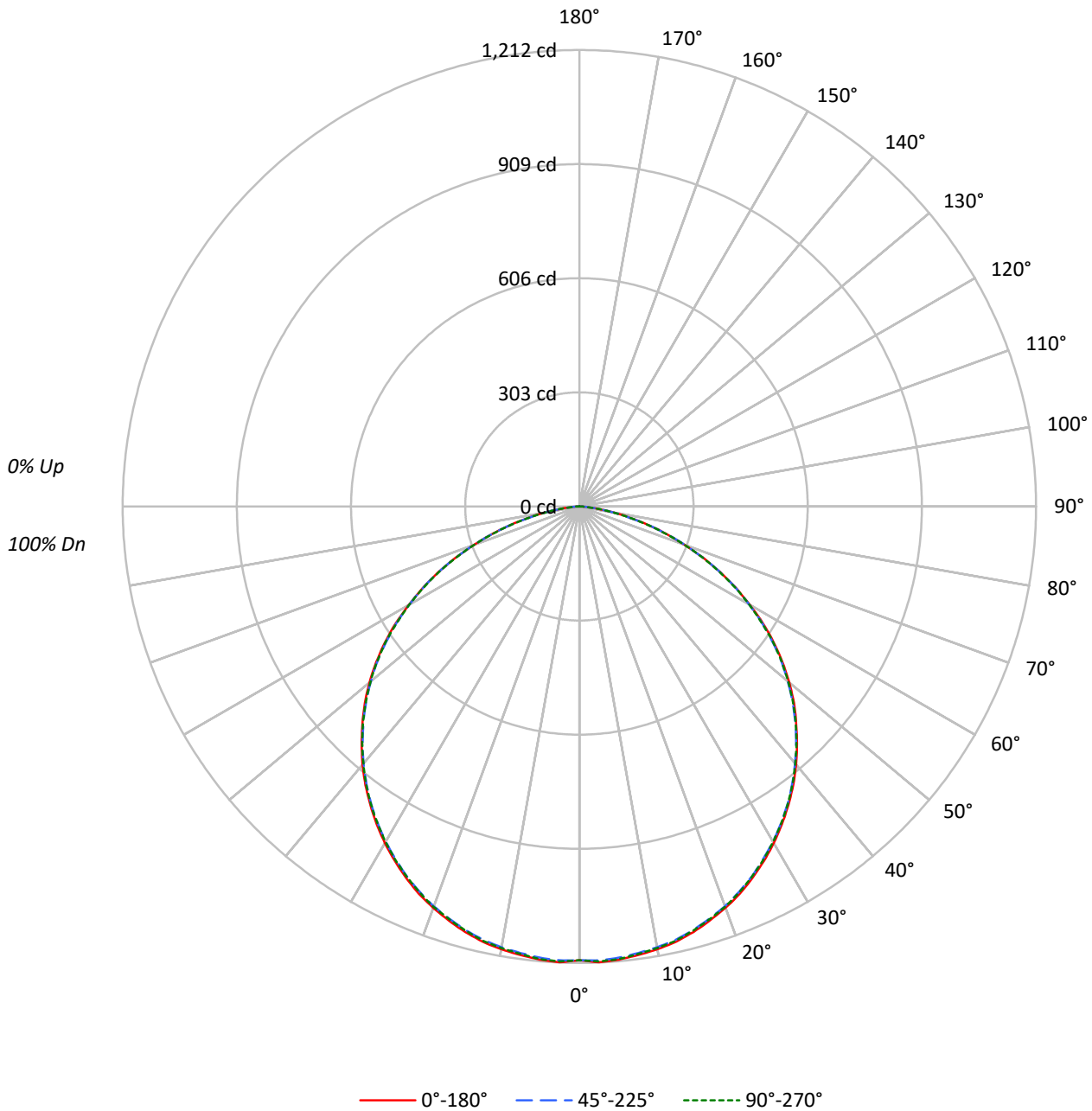
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3369.4 lumens  
Efficiency: N/A  
Efficacy: 93.3 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): 36.1  
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°	3242	3242	3242
5°	3263	3249	3259
10°	3262	3248	3254
15°	3259	3245	3249
20°	3248	3235	3239
25°	3230	3217	3219
30°	3207	3193	3196
35°	3178	3166	3168
40°	3145	3129	3132
45°	3098	3084	3090
50°	3044	3022	3028
55°	2957	2933	2943
60°	2812	2800	2800
65°	2625	2620	2611
70°	2324	2336	2330
75°	1958	1942	1927
80°	1407	1384	1373
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°	498.6	14.8
30°-40°	602.6	17.9
40°-50°	625.5	18.6
50°-60°	559.2	16.6
60°-70°	406.6	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°	940.8	27.9
0°-40°	1543.4	45.8
0°-60°	2728.2	81.0
0°-90°	3369.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1208	1194	1203	1198	1206	115
15°	1170	1156	1165	1162	1166	330
25°	1088	1076	1084	1081	1084	501
35°	967	961	964	964	964	605
45°	814	810	810	812	812	628
55°	630	627	625	627	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°	1204.8	1204.8	1204.8	1204.8	1204.8
2.5°	1211.5	1197.4	1206.3	1201.1	1209.3
5°	1207.8	1193.7	1202.6	1198.1	1206.3
7.5°	1201.1	1187.0	1195.9	1191.4	1198.1
10°	1193.7	1178.8	1188.5	1184.0	1190.7
12.5°	1184.0	1169.9	1178.8	1175.1	1181.0
15°	1169.9	1156.5	1164.7	1161.7	1166.1
17.5°	1152.8	1139.4	1147.5	1145.3	1149.0
20°	1134.1	1121.5	1129.7	1127.4	1131.2
22.5°	1113.3	1099.9	1107.4	1105.9	1108.8
25°	1088.0	1076.1	1083.5	1081.3	1084.3
27.5°	1061.2	1050.1	1056.0	1056.0	1057.5
30°	1032.2	1021.8	1027.7	1027.7	1028.5
32.5°	1000.9	992.7	996.5	997.2	997.2
35°	967.4	960.7	963.7	964.5	964.5
37.5°	932.5	925.8	928.0	929.5	929.5
40°	895.3	889.3	890.8	892.3	891.5
42.5°	855.1	850.6	851.4	852.8	852.8
45°	814.1	810.4	810.4	811.9	811.9
47.5°	772.5	768.7	767.3	768.7	768.7
50°	727.1	723.4	721.9	723.4	723.4
52.5°	679.4	675.7	675.7	675.7	676.5
55°	630.3	626.6	625.1	626.6	627.4
57.5°	578.2	576.7	574.5	575.3	573.0
60°	522.4	522.4	520.2	521.7	520.2
62.5°	468.1	469.6	467.4	467.4	465.9
65°	412.3	413.8	411.5	411.5	410.0
67.5°	355.0	357.2	354.2	354.2	352.7
70°	295.4	299.9	296.9	297.7	296.2
72.5°	241.9	244.1	241.1	241.1	239.6
75°	188.3	189.8	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	88.6
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)