

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: P973524

Luminaire Tested: FLR2-22-45-L830-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973524  
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-L830-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

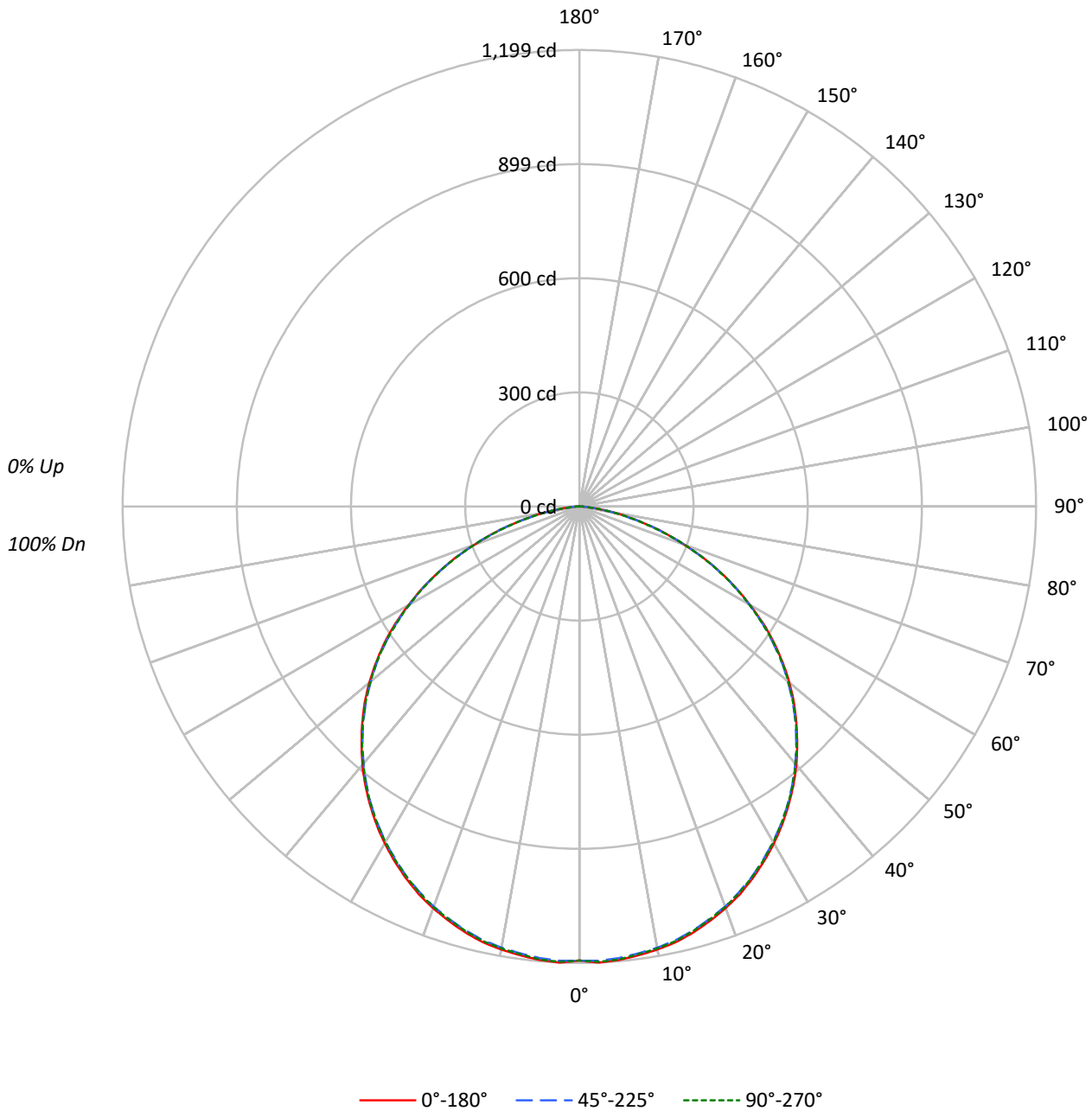
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3335.7 lumens  
Efficiency: N/A  
Efficacy: 92.4 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																				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																				
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																				
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60																				
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																				
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30																				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27																				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3210	3210	3210
5°	3230	3216	3226
10°	3229	3215	3221
15°	3227	3212	3216
20°	3215	3203	3207
25°	3198	3185	3187
30°	3175	3161	3164
35°	3146	3134	3137
40°	3113	3098	3100
45°	3067	3053	3059
50°	3013	2992	2998
55°	2928	2904	2914
60°	2784	2772	2772
65°	2599	2594	2585
70°	2301	2313	2307
75°	1938	1922	1908
80°	1393	1370	1359
85°	729	729	704

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3067 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.9	3.4
10°-20°	324.8	9.7
20°-30°	493.6	14.8
30°-40°	596.6	17.9
40°-50°	619.3	18.6
50°-60°	553.6	16.6
60°-70°	402.5	12.1
70°-80°	198.0	5.9
80°-90°	34.3	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°	931.4	27.9
0°-40°	1528.0	45.8
0°-60°	2700.9	81.0
0°-90°	3335.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3335.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1196	1182	1191	1186	1194	114
15°	1158	1145	1153	1150	1154	327
25°	1077	1065	1073	1070	1073	496
35°	958	951	954	955	955	599
45°	806	802	802	804	804	622
55°	624	620	619	620	621	556
65°	408	410	407	407	406	403
75°	186	188	185	186	184	198
85°	24	24	24	24	23	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1199.4	1185.4	1194.3	1189.1	1197.2
5°	1195.7	1181.7	1190.6	1186.2	1194.3
7.5°	1189.1	1175.1	1184.0	1179.5	1186.2
10°	1181.7	1167.0	1176.6	1172.2	1178.8
12.5°	1172.2	1158.2	1167.0	1163.3	1169.2
15°	1158.2	1144.9	1153.0	1150.1	1154.5
17.5°	1141.2	1128.0	1136.1	1133.9	1137.5
20°	1122.8	1110.3	1118.4	1116.2	1119.9
22.5°	1102.2	1088.9	1096.3	1094.8	1097.8
25°	1077.1	1065.3	1072.7	1070.5	1073.4
27.5°	1050.6	1039.6	1045.4	1045.4	1046.9
30°	1021.9	1011.6	1017.4	1017.4	1018.2
32.5°	990.9	982.8	986.5	987.2	987.2
35°	957.8	951.1	954.1	954.8	954.8
37.5°	923.1	916.5	918.7	920.2	920.2
40°	886.3	880.4	881.9	883.4	882.6
42.5°	846.5	842.1	842.8	844.3	844.3
45°	806.0	802.3	802.3	803.8	803.8
47.5°	764.7	761.1	759.6	761.1	761.1
50°	719.8	716.1	714.6	716.1	716.1
52.5°	672.7	669.0	669.0	669.0	669.7
55°	624.0	620.3	618.9	620.3	621.1
57.5°	572.5	571.0	568.8	569.5	567.3
60°	517.2	517.2	515.0	516.5	515.0
62.5°	463.4	464.9	462.7	462.7	461.2
65°	408.2	409.6	407.4	407.4	405.9
67.5°	351.4	353.6	350.7	350.7	349.2
70°	292.5	296.9	294.0	294.7	293.2
72.5°	239.4	241.7	238.7	238.7	237.2
75°	186.4	187.9	184.9	185.7	183.5
77.5°	134.1	136.3	133.4	134.1	133.4
80°	89.9	90.6	88.4	89.1	87.7
82.5°	52.3	53.0	52.3	51.6	50.8
85°	23.6	24.3	23.6	23.6	22.8
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)