

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: P973588

Luminaire Tested: FLR2-22-45-L935-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973588  
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-L935-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

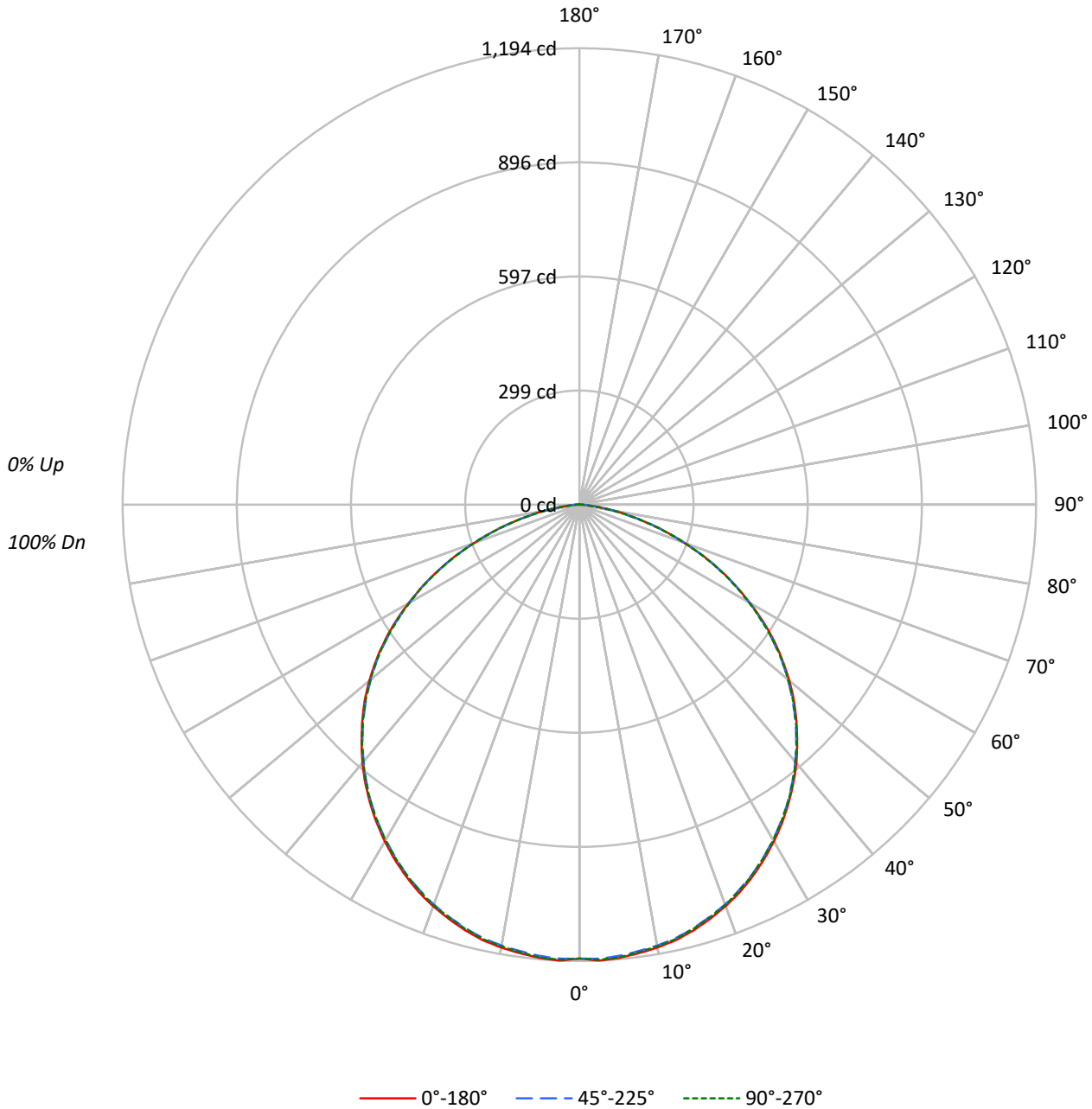
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3321.3 lumens  
Efficiency: N/A  
Efficacy: 92.0 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°	3196	3196	3196
5°	3216	3202	3212
10°	3215	3201	3207
15°	3213	3198	3202
20°	3201	3189	3193
25°	3184	3171	3173
30°	3161	3148	3150
35°	3133	3121	3123
40°	3100	3085	3087
45°	3054	3040	3046
50°	3000	2979	2985
55°	2915	2891	2901
60°	2772	2760	2760
65°	2588	2583	2574
70°	2291	2303	2297
75°	1930	1914	1900
80°	1387	1364	1353
85°	726	726	701

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3054 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	3.4
10°-20°	323.4	9.7
20°-30°	491.5	14.8
30°-40°	594.0	17.9
40°-50°	616.6	18.6
50°-60°	551.2	16.6
60°-70°	400.8	12.1
70°-80°	197.1	5.9
80°-90°	34.2	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°	927.3	27.9
0°-40°	1521.4	45.8
0°-60°	2689.2	81.0
0°-90°	3321.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1191	1177	1185	1181	1189	113
15°	1153	1140	1148	1145	1150	325
25°	1072	1061	1068	1066	1069	494
35°	954	947	950	951	951	597
45°	802	799	799	800	800	619
55°	621	618	616	618	618	554
65°	406	408	406	406	404	401
75°	186	187	184	185	183	197
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°	1187.6	1187.6	1187.6	1187.6	1187.6
2.5°	1194.2	1180.3	1189.1	1184.0	1192.0
5°	1190.6	1176.6	1185.4	1181.0	1189.1
7.5°	1184.0	1170.0	1178.8	1174.4	1181.0
10°	1176.6	1162.0	1171.5	1167.1	1173.7
12.5°	1167.1	1153.2	1162.0	1158.3	1164.2
15°	1153.2	1139.9	1148.0	1145.1	1149.5
17.5°	1136.3	1123.1	1131.1	1128.9	1132.6
20°	1117.9	1105.5	1113.5	1111.3	1115.0
22.5°	1097.4	1084.2	1091.5	1090.1	1093.0
25°	1072.5	1060.7	1068.1	1065.9	1068.8
27.5°	1046.1	1035.0	1040.9	1040.9	1042.4
30°	1017.4	1007.2	1013.0	1013.0	1013.8
32.5°	986.6	978.6	982.2	983.0	983.0
35°	953.6	947.0	950.0	950.7	950.7
37.5°	919.1	912.5	914.7	916.2	916.2
40°	882.5	876.6	878.1	879.5	878.8
42.5°	842.9	838.5	839.2	840.7	840.7
45°	802.5	798.8	798.8	800.3	800.3
47.5°	761.4	757.8	756.3	757.8	757.8
50°	716.7	713.0	711.6	713.0	713.0
52.5°	669.7	666.1	666.1	666.1	666.8
55°	621.3	617.7	616.2	617.7	618.4
57.5°	570.0	568.5	566.3	567.0	564.8
60°	515.0	515.0	512.8	514.2	512.8
62.5°	461.4	462.9	460.7	460.7	459.2
65°	406.4	407.9	405.7	405.7	404.2
67.5°	349.9	352.1	349.2	349.2	347.7
70°	291.2	295.6	292.7	293.4	292.0
72.5°	238.4	240.6	237.7	237.7	236.2
75°	185.6	187.1	184.1	184.9	182.7
77.5°	133.5	135.7	132.8	133.5	132.8
80°	89.5	90.2	88.0	88.8	87.3
82.5°	52.1	52.8	52.1	51.3	50.6
85°	23.5	24.2	23.5	23.5	22.7
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)