

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: P974267

Luminaire Tested: FLR2-24-35-L935-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-24-35-L935-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L935-CA080  
Ballast/Driver: -

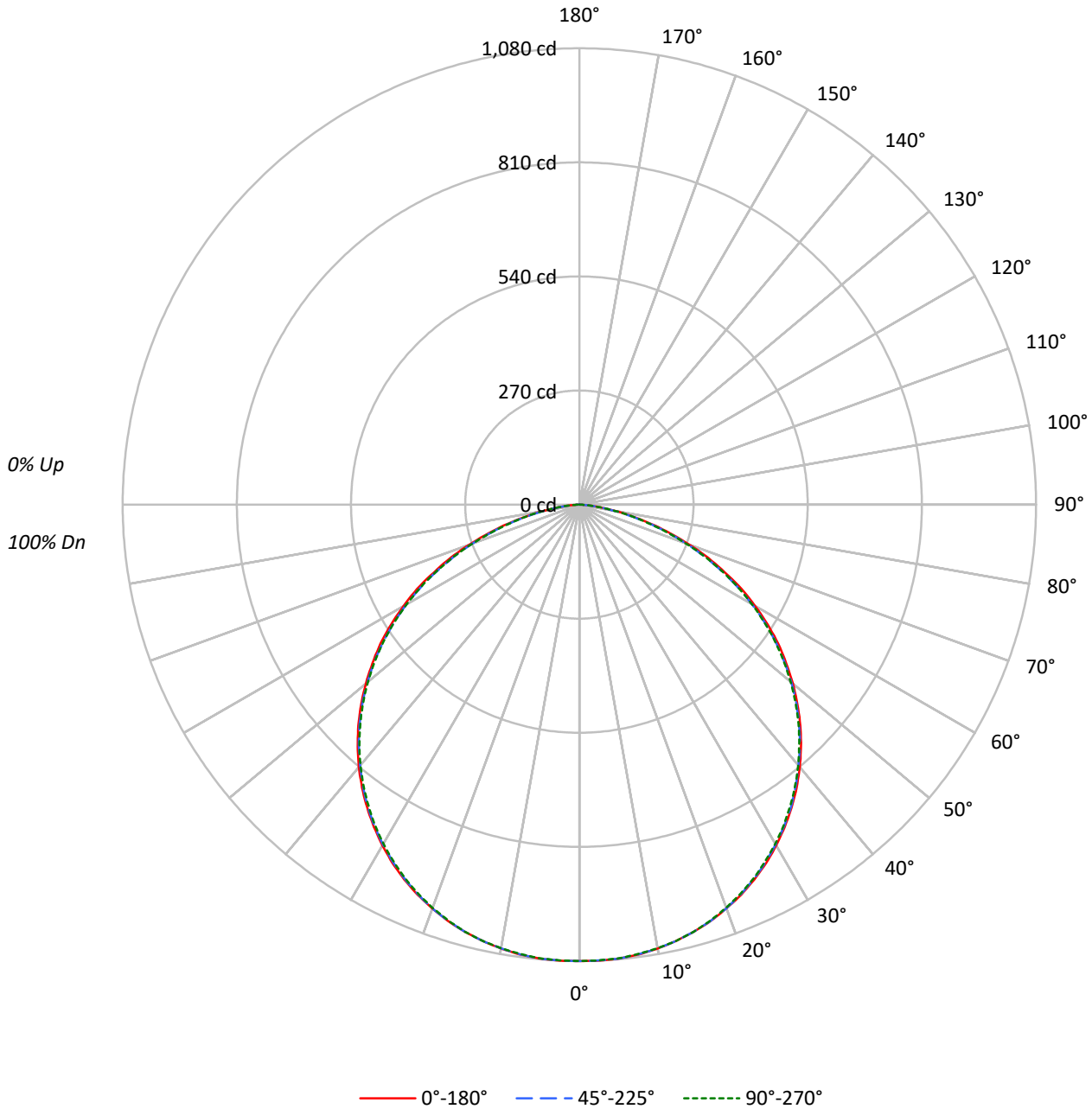
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3053.2 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.4  
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	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

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

	0°	45°	90°
0°	1454	1454	1454
5°	1456	1456	1455
10°	1457	1457	1456
15°	1458	1457	1457
20°	1456	1456	1454
25°	1454	1451	1448
30°	1447	1443	1440
35°	1438	1434	1429
40°	1425	1416	1414
45°	1407	1398	1394
50°	1380	1370	1365
55°	1347	1328	1327
60°	1291	1268	1268
65°	1208	1180	1183
70°	1087	1054	1051
75°	913	876	872
80°	666	634	661
85°	377	347	354

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1407 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	3.4
10°-20°	295.4	9.7
20°-30°	450.4	14.8
30°-40°	545.7	17.9
40°-50°	566.8	18.6
50°-60°	507.1	16.6
60°-70°	369.5	12.1
70°-80°	183.0	6.0
80°-90°	32.7	1.1
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°	848.3	27.8
0°-40°	1394.0	45.7
0°-60°	2467.9	80.8
0°-90°	3053.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3053.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1078	1079	1078	1078	1078	103
15°	1046	1046	1046	1047	1046	295
25°	979	978	977	977	976	451
35°	875	874	873	871	870	547
45°	739	738	735	733	733	570
55°	574	570	566	566	566	512
65°	380	376	371	372	372	376
75°	176	173	169	172	168	187
85°	24	22	22	23	23	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1080.3	1080.3	1080.3	1080.3	1080.3
2.5°	1080.3	1079.9	1079.9	1080.3	1079.5
5°	1078.3	1078.7	1078.3	1078.3	1077.6
7.5°	1074.1	1073.7	1073.3	1073.7	1072.5
10°	1066.7	1066.7	1066.3	1066.7	1065.9
12.5°	1057.8	1057.8	1057.8	1058.2	1057.8
15°	1046.5	1046.2	1046.2	1046.9	1046.2
17.5°	1033.4	1033.0	1033.0	1032.6	1031.8
20°	1017.1	1017.1	1016.7	1016.3	1015.2
22.5°	999.6	999.3	998.1	998.1	996.5
25°	979.1	977.9	977.2	976.8	975.6
27.5°	956.6	955.1	953.9	953.1	952.0
30°	931.4	929.9	928.7	927.6	926.8
32.5°	904.3	903.5	901.6	901.2	899.6
35°	875.2	874.1	872.9	871.3	869.8
37.5°	844.2	843.1	840.3	839.6	838.4
40°	811.3	809.7	806.2	806.2	805.1
42.5°	776.0	774.4	772.1	770.6	769.8
45°	739.2	737.6	734.9	733.4	732.6
47.5°	700.0	698.9	695.8	694.6	693.4
50°	659.3	657.8	654.3	653.5	652.3
52.5°	616.7	615.9	611.3	610.9	609.7
55°	574.4	570.2	566.3	566.3	565.5
57.5°	527.9	524.8	519.8	519.8	519.0
60°	479.9	477.1	471.3	472.1	471.3
62.5°	433.0	427.1	421.7	424.0	422.1
65°	379.5	376.4	370.6	372.1	371.7
67.5°	330.6	324.8	319.4	322.5	320.9
70°	276.4	273.3	267.8	270.9	267.1
72.5°	225.2	222.5	217.1	220.6	216.7
75°	175.6	172.9	168.6	171.7	167.8
77.5°	128.7	126.7	122.9	126.0	126.7
80°	86.0	83.7	81.8	84.5	85.3
82.5°	50.4	48.8	48.1	48.5	50.4
85°	24.4	22.5	22.5	22.9	22.9
87.5°	6.6	5.8	6.6	7.0	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)