

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: P974269

Luminaire Tested: FLR2-24-45-L935-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974269  
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: FLR2-24-45-L935-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-45-L935-CA080  
Ballast/Driver: -

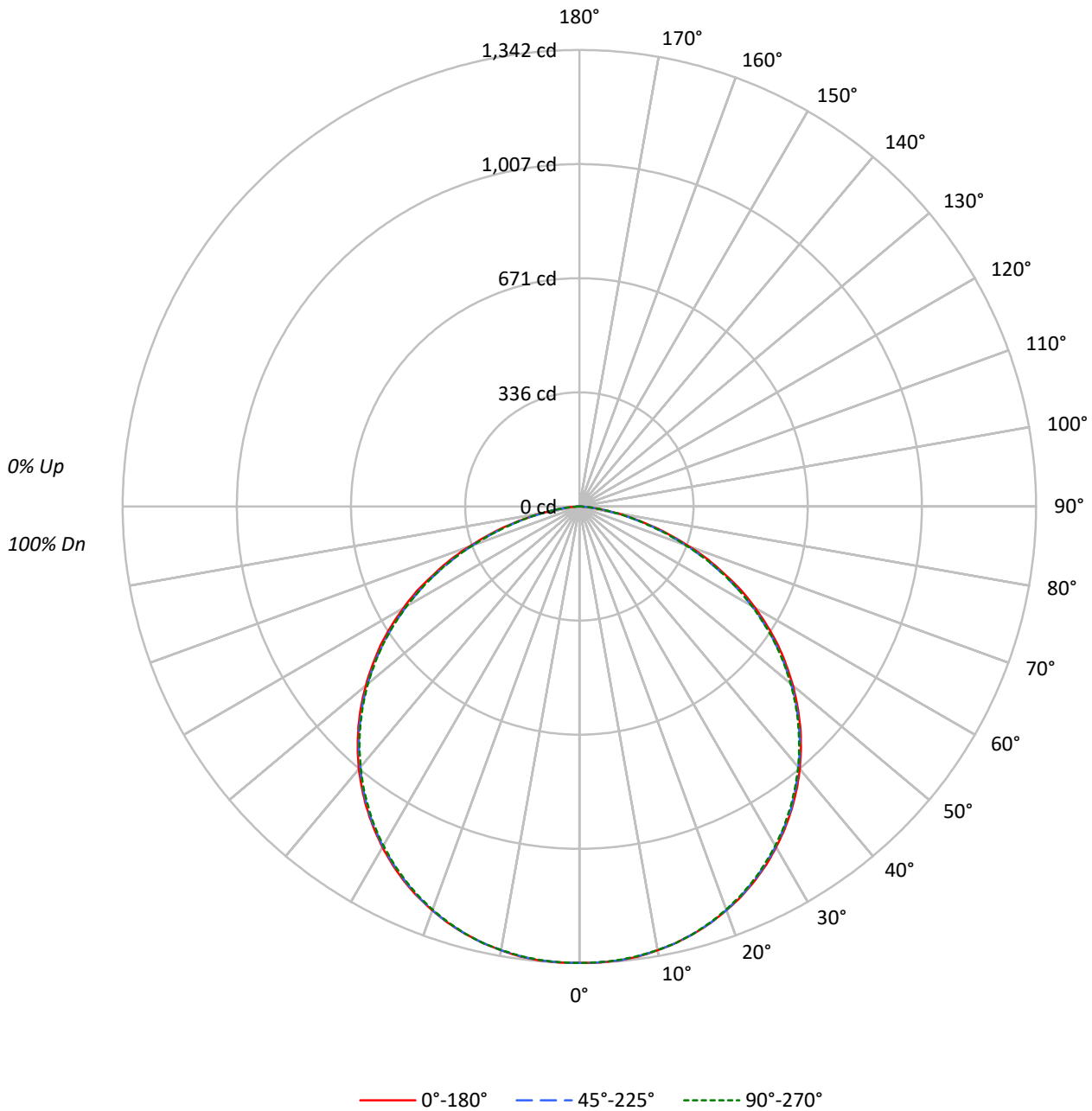
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3793.1 lumens  
Efficiency: N/A  
Efficacy: 106.5 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): 35.6  
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38						38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	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	39	33	29	27						27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25						25														

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

	0°	45°	90°
0°	1806	1806	1806
5°	1809	1809	1808
10°	1811	1810	1809
15°	1811	1810	1810
20°	1809	1809	1806
25°	1806	1802	1799
30°	1798	1793	1789
35°	1786	1781	1775
40°	1770	1759	1757
45°	1747	1737	1732
50°	1715	1701	1696
55°	1674	1650	1648
60°	1604	1576	1576
65°	1501	1466	1470
70°	1351	1309	1305
75°	1134	1089	1084
80°	828	787	821
85°	468	431	438

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1747 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	3.4
10°-20°	367.0	9.7
20°-30°	559.5	14.8
30°-40°	677.9	17.9
40°-50°	704.2	18.6
50°-60°	629.9	16.6
60°-70°	459.1	12.1
70°-80°	227.4	6.0
80°-90°	40.6	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°	1053.9	27.8
0°-40°	1731.8	45.7
0°-60°	3065.9	80.8
0°-90°	3793.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1340	1340	1340	1340	1339	127
15°	1300	1300	1300	1301	1300	367
25°	1216	1215	1214	1214	1212	561
35°	1087	1086	1084	1082	1081	680
45°	918	916	913	911	910	708
55°	714	708	704	704	703	636
65°	471	468	460	462	462	467
75°	218	215	210	213	208	233
85°	30	28	28	28	28	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1342.1	1342.1	1342.1	1342.1	1342.1
2.5°	1342.1	1341.6	1341.6	1342.1	1341.1
5°	1339.6	1340.1	1339.6	1339.6	1338.7
7.5°	1334.4	1333.9	1333.4	1333.9	1332.4
10°	1325.2	1325.2	1324.7	1325.2	1324.2
12.5°	1314.1	1314.1	1314.1	1314.6	1314.1
15°	1300.2	1299.7	1299.7	1300.6	1299.7
17.5°	1283.8	1283.3	1283.3	1282.8	1281.9
20°	1263.6	1263.6	1263.1	1262.6	1261.2
22.5°	1241.9	1241.4	1240.0	1240.0	1238.0
25°	1216.4	1214.9	1214.0	1213.5	1212.0
27.5°	1188.4	1186.5	1185.1	1184.1	1182.7
30°	1157.1	1155.2	1153.8	1152.3	1151.4
32.5°	1123.4	1122.5	1120.1	1119.6	1117.7
35°	1087.3	1085.9	1084.4	1082.5	1080.6
37.5°	1048.8	1047.4	1044.0	1043.0	1041.6
40°	1007.9	1005.9	1001.6	1001.6	1000.2
42.5°	964.0	962.1	959.2	957.3	956.3
45°	918.3	916.4	913.0	911.1	910.1
47.5°	869.7	868.2	864.4	862.9	861.5
50°	819.1	817.2	812.8	811.9	810.4
52.5°	766.1	765.2	759.4	758.9	757.5
55°	713.6	708.3	703.5	703.5	702.6
57.5°	655.9	652.0	645.7	645.7	644.8
60°	596.1	592.8	585.6	586.5	585.6
62.5°	537.9	530.7	523.9	526.8	524.4
65°	471.4	467.6	460.4	462.3	461.8
67.5°	410.8	403.5	396.8	400.6	398.7
70°	343.3	339.5	332.7	336.6	331.8
72.5°	279.8	276.4	269.7	274.0	269.2
75°	218.1	214.8	209.5	213.3	208.5
77.5°	159.9	157.5	152.6	156.5	157.5
80°	106.9	104.0	101.6	105.0	105.9
82.5°	62.6	60.7	59.7	60.2	62.6
85°	30.3	27.9	27.9	28.4	28.4
87.5°	8.2	7.2	8.2	8.7	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)