

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: P974428

Luminaire Tested: FLR2-24-40-L850-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974428  
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: FLR2-24-40-L850-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-40-L850-CP375  
Ballast/Driver: -

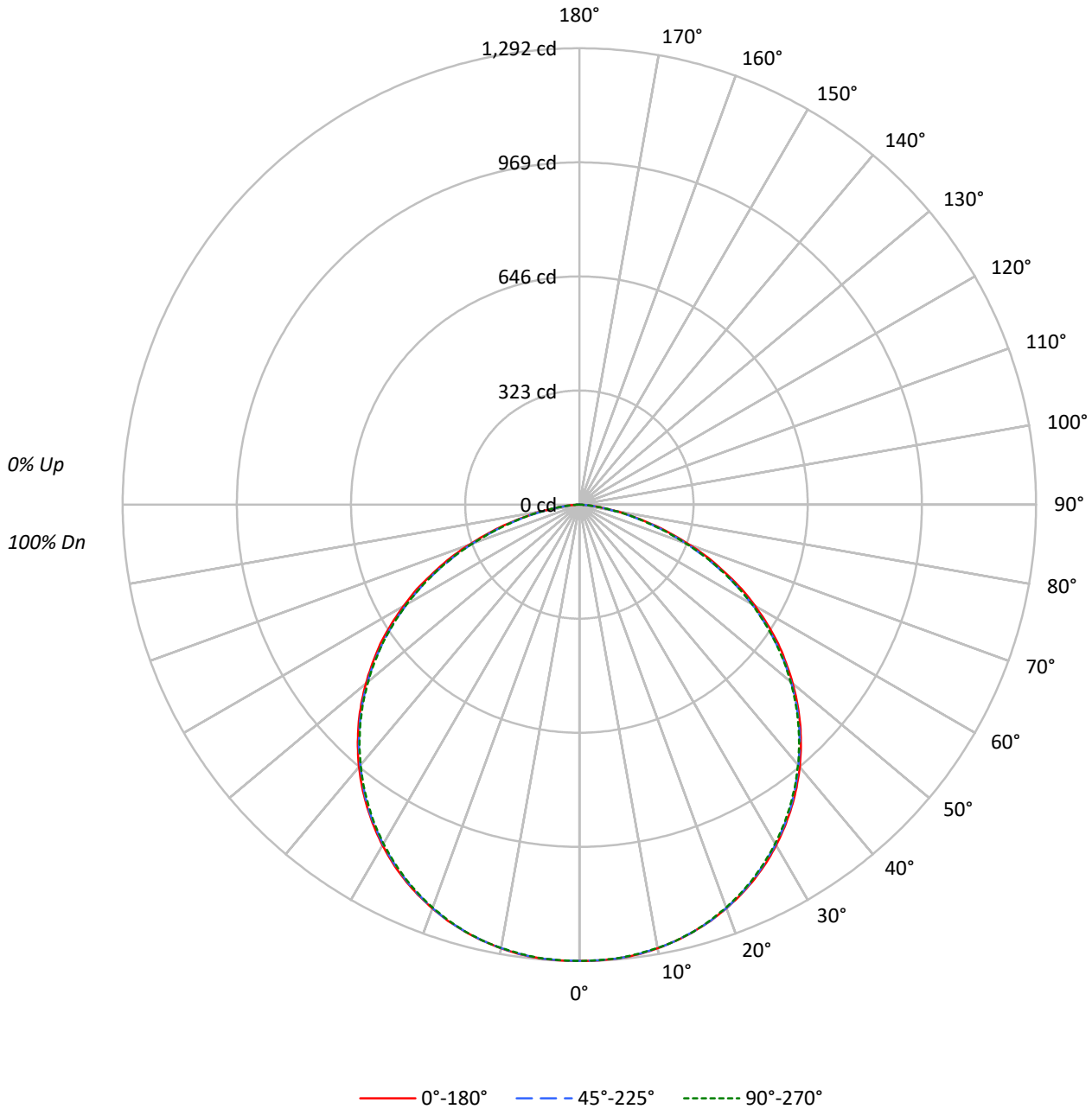
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3650.7 lumens  
Efficiency: N/A  
Efficacy: 120.5 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): 30.3  
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

TEST NUMBER: P974428  
CATALOG NUMBER: FLR2-24-40-L850-CP375

### Luminous Intensity Polar Plot





TEST NUMBER: P974428  
 CATALOG NUMBER: FLR2-24-40-L850-CP375

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

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

	0°	45°	90°
0°	1738	1738	1738
5°	1742	1742	1740
10°	1743	1742	1741
15°	1743	1742	1742
20°	1741	1741	1738
25°	1738	1735	1732
30°	1730	1725	1722
35°	1719	1714	1708
40°	1704	1693	1691
45°	1682	1672	1667
50°	1650	1638	1633
55°	1611	1588	1586
60°	1544	1517	1517
65°	1444	1411	1415
70°	1300	1260	1256
75°	1092	1048	1043
80°	797	758	790
85°	451	415	421

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1682 cd/sqm



TEST NUMBER: P974428  
 CATALOG NUMBER: FLR2-24-40-L850-CP375

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	3.4
10°-20°	353.2	9.7
20°-30°	538.5	14.8
30°-40°	652.5	17.9
40°-50°	677.7	18.6
50°-60°	606.3	16.6
60°-70°	441.9	12.1
70°-80°	218.8	6.0
80°-90°	39.1	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°	1014.4	27.8
0°-40°	1666.8	45.7
0°-60°	2950.9	80.8
0°-90°	3650.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3650.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1289	1290	1289	1289	1288	123
15°	1251	1251	1251	1252	1251	353
25°	1171	1169	1168	1168	1167	540
35°	1046	1045	1044	1042	1040	655
45°	884	882	879	877	876	681
55°	687	682	677	677	676	612
65°	454	450	443	445	444	450
75°	210	207	202	205	201	224
85°	29	27	27	27	27	40
90°	0	0	0	0	0	



TEST NUMBER: P974428  
 CATALOG NUMBER: FLR2-24-40-L850-CP375

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1291.7	1291.2	1291.2	1291.7	1290.8
5°	1289.4	1289.9	1289.4	1289.4	1288.5
7.5°	1284.3	1283.8	1283.4	1283.8	1282.4
10°	1275.5	1275.5	1275.0	1275.5	1274.6
12.5°	1264.8	1264.8	1264.8	1265.3	1264.8
15°	1251.4	1250.9	1250.9	1251.8	1250.9
17.5°	1235.6	1235.2	1235.2	1234.7	1233.8
20°	1216.2	1216.2	1215.7	1215.2	1213.8
22.5°	1195.3	1194.8	1193.4	1193.4	1191.6
25°	1170.7	1169.3	1168.4	1168.0	1166.6
27.5°	1143.9	1142.0	1140.6	1139.7	1138.3
30°	1113.7	1111.9	1110.5	1109.1	1108.2
32.5°	1081.3	1080.4	1078.0	1077.6	1075.7
35°	1046.5	1045.1	1043.7	1041.9	1040.0
37.5°	1009.4	1008.1	1004.8	1003.9	1002.5
40°	970.1	968.2	964.0	964.0	962.6
42.5°	927.9	926.0	923.2	921.4	920.5
45°	883.8	882.0	878.7	876.9	876.0
47.5°	837.0	835.6	831.9	830.5	829.2
50°	788.4	786.5	782.3	781.4	780.0
52.5°	737.4	736.5	730.9	730.4	729.0
55°	686.9	681.8	677.1	677.1	676.2
57.5°	631.3	627.5	621.5	621.5	620.6
60°	573.8	570.5	563.6	564.5	563.6
62.5°	517.7	510.7	504.3	507.0	504.7
65°	453.7	450.0	443.1	444.9	444.5
67.5°	395.3	388.4	381.9	385.6	383.8
70°	330.5	326.7	320.3	324.0	319.3
72.5°	269.3	266.0	259.5	263.7	259.1
75°	210.0	206.7	201.6	205.3	200.7
77.5°	153.9	151.6	146.9	150.6	151.6
80°	102.9	100.1	97.8	101.0	102.0
82.5°	60.3	58.4	57.5	57.9	60.3
85°	29.2	26.9	26.9	27.3	27.3
87.5°	7.9	7.0	7.9	8.3	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)