

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: P974430

Luminaire Tested: FLR2-24-55-L850-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974430  
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: FLR2-24-55-L850-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-55-L850-CP375  
Ballast/Driver: -

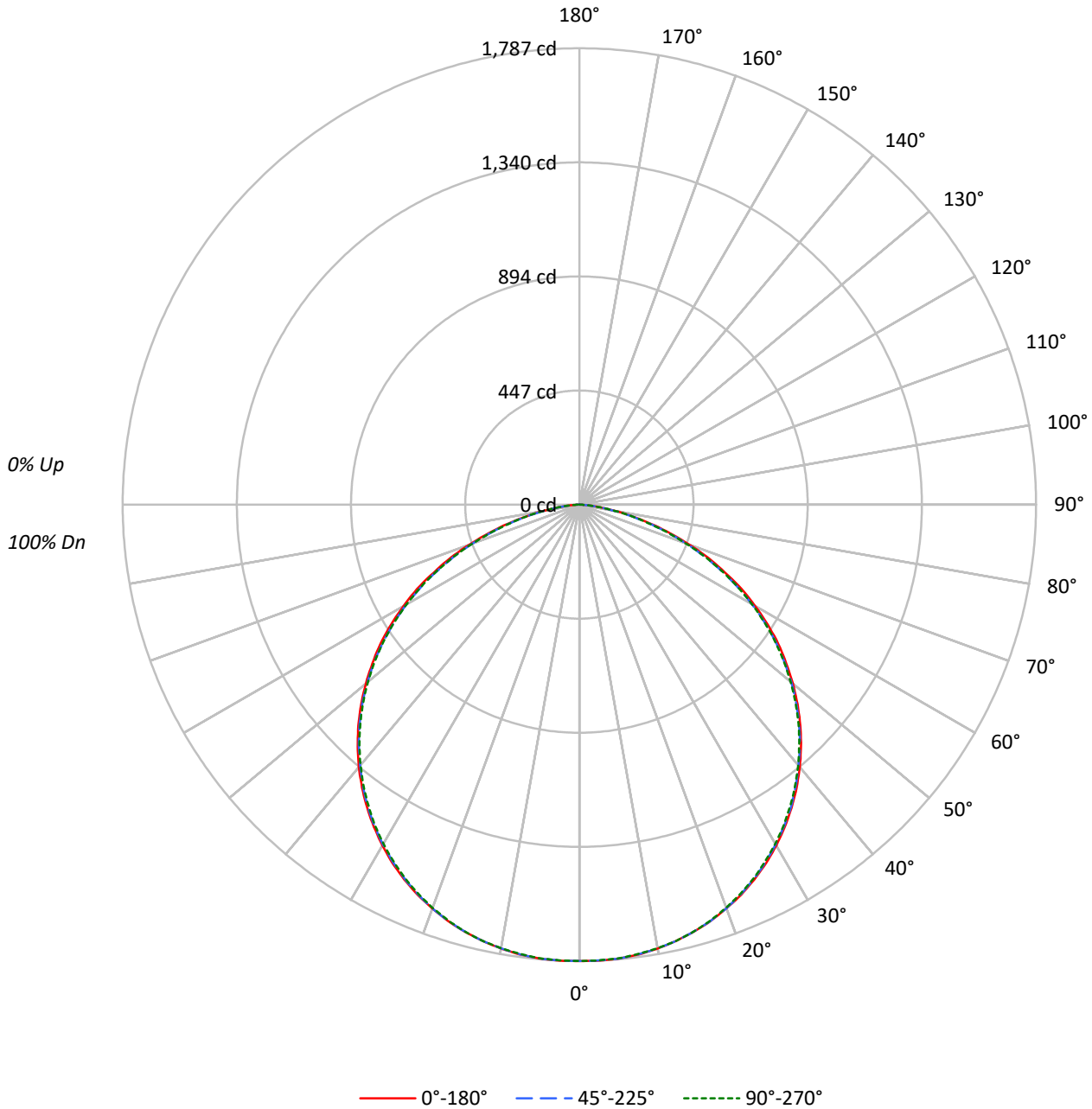
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5051.9 lumens  
Efficiency: N/A  
Efficacy: 114.6 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): 44.1  
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	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°	2405	2405	2405
5°	2410	2410	2408
10°	2411	2411	2410
15°	2412	2411	2411
20°	2410	2409	2405
25°	2405	2400	2397
30°	2394	2387	2383
35°	2379	2372	2364
40°	2358	2343	2340
45°	2327	2314	2307
50°	2283	2266	2259
55°	2230	2198	2195
60°	2137	2099	2099
65°	1999	1952	1958
70°	1799	1744	1738
75°	1510	1450	1444
80°	1103	1048	1093
85°	624	574	584

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2327 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.7	3.4
10°-20°	488.8	9.7
20°-30°	745.2	14.8
30°-40°	902.9	17.9
40°-50°	937.9	18.6
50°-60°	839.0	16.6
60°-70°	611.5	12.1
70°-80°	302.8	6.0
80°-90°	54.1	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°	1403.7	27.8
0°-40°	2306.6	45.7
0°-60°	4083.4	80.8
0°-90°	5051.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5051.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1784	1785	1784	1784	1783	170
15°	1732	1731	1731	1732	1731	489
25°	1620	1618	1617	1616	1614	747
35°	1448	1446	1444	1442	1439	906
45°	1223	1220	1216	1213	1212	943
55°	950	943	937	937	936	847
65°	628	623	613	616	615	622
75°	290	286	279	284	278	310
85°	40	37	37	38	38	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1787.4	1787.4	1787.4	1787.4	1787.4
2.5°	1787.4	1786.8	1786.8	1787.4	1786.2
5°	1784.2	1784.9	1784.2	1784.2	1783.0
7.5°	1777.2	1776.5	1775.9	1776.5	1774.6
10°	1765.0	1765.0	1764.4	1765.0	1763.7
12.5°	1750.2	1750.2	1750.2	1750.9	1750.2
15°	1731.6	1731.0	1731.0	1732.3	1731.0
17.5°	1709.8	1709.2	1709.2	1708.6	1707.3
20°	1682.9	1682.9	1682.3	1681.6	1679.7
22.5°	1654.0	1653.4	1651.5	1651.5	1648.9
25°	1620.1	1618.1	1616.8	1616.2	1614.3
27.5°	1582.9	1580.3	1578.4	1577.1	1575.2
30°	1541.2	1538.6	1536.7	1534.8	1533.5
32.5°	1496.3	1495.0	1491.8	1491.1	1488.6
35°	1448.2	1446.2	1444.3	1441.8	1439.2
37.5°	1396.9	1394.9	1390.5	1389.2	1387.2
40°	1342.3	1339.8	1334.0	1334.0	1332.1
42.5°	1284.0	1281.4	1277.6	1275.0	1273.7
45°	1223.1	1220.5	1216.0	1213.4	1212.2
47.5°	1158.3	1156.4	1151.2	1149.3	1147.4
50°	1090.9	1088.4	1082.6	1081.3	1079.4
52.5°	1020.4	1019.1	1011.4	1010.8	1008.8
55°	950.5	943.4	937.0	937.0	935.7
57.5°	873.5	868.4	860.1	860.1	858.8
60°	794.0	789.5	779.9	781.2	779.9
62.5°	716.4	706.8	697.8	701.6	698.4
65°	627.9	622.8	613.1	615.7	615.1
67.5°	547.1	537.5	528.5	533.6	531.0
70°	457.3	452.2	443.2	448.3	441.9
72.5°	372.6	368.1	359.2	364.9	358.5
75°	290.5	286.0	279.0	284.1	277.7
77.5°	212.9	209.7	203.3	208.4	209.7
80°	142.4	138.5	135.3	139.8	141.1
82.5°	83.4	80.8	79.5	80.2	83.4
85°	40.4	37.2	37.2	37.8	37.8
87.5°	10.9	9.6	10.9	11.5	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)