

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: P974374

Luminaire Tested: FLR2-24-55-L940-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974374  
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-L940-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-55-L940-CP375  
Ballast/Driver: -

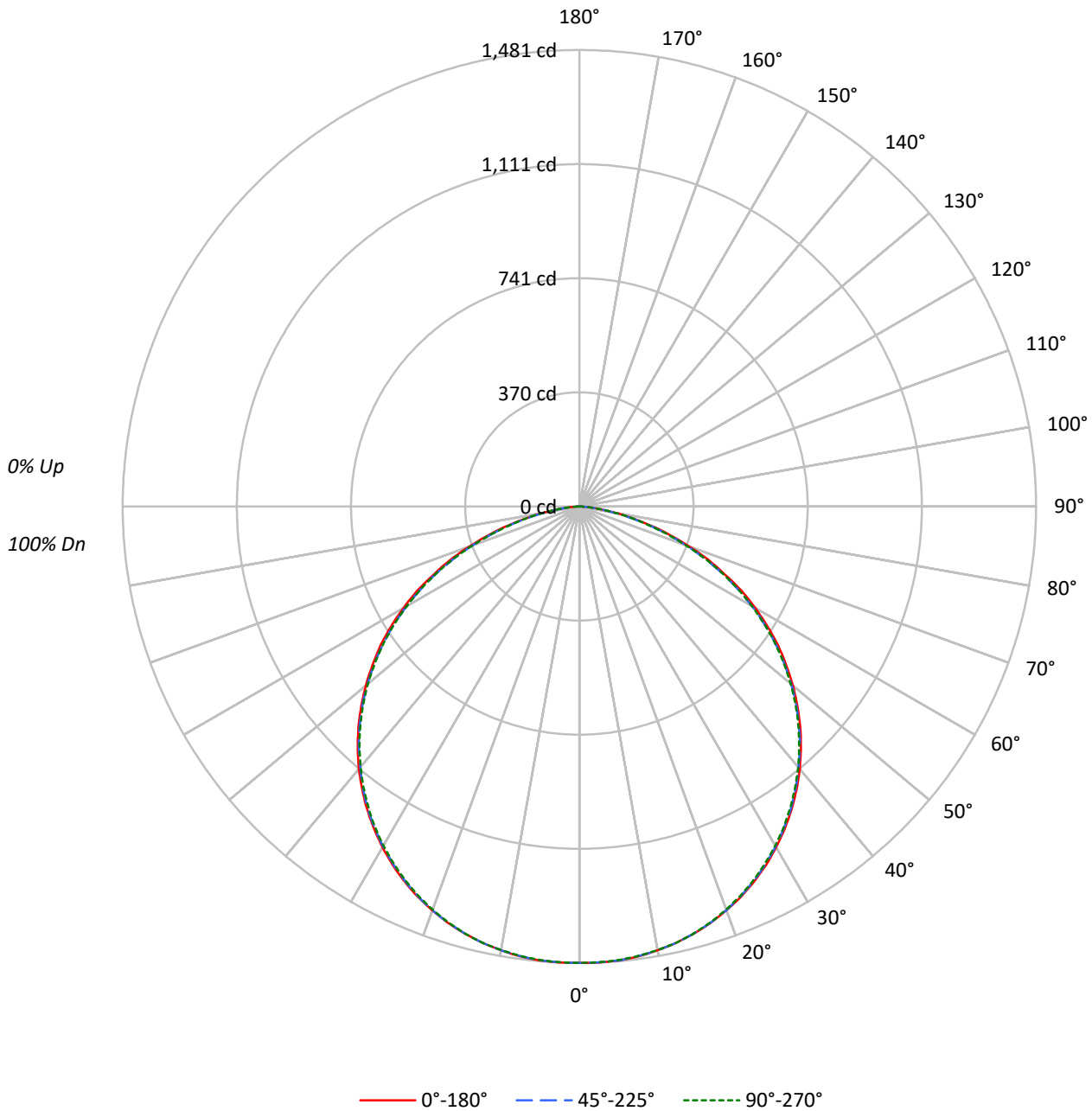
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4185.8 lumens  
Efficiency: N/A  
Efficacy: 94.9 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				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°	1993	1993	1993
5°	1997	1997	1995
10°	1998	1997	1997
15°	1999	1998	1998
20°	1997	1996	1993
25°	1993	1989	1986
30°	1984	1978	1974
35°	1971	1966	1959
40°	1953	1941	1939
45°	1928	1917	1911
50°	1892	1878	1872
55°	1847	1821	1819
60°	1770	1739	1739
65°	1656	1617	1622
70°	1491	1445	1440
75°	1251	1202	1196
80°	914	869	906
85°	517	475	485

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1928 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	3.4
10°-20°	405.0	9.7
20°-30°	617.5	14.8
30°-40°	748.1	17.9
40°-50°	777.1	18.6
50°-60°	695.2	16.6
60°-70°	506.6	12.1
70°-80°	250.9	6.0
80°-90°	44.9	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°	1163.0	27.8
0°-40°	1911.1	45.7
0°-60°	3383.4	80.8
0°-90°	4185.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4185.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1478	1479	1478	1478	1477	141
15°	1435	1434	1434	1435	1434	405
25°	1342	1341	1340	1339	1338	619
35°	1200	1198	1197	1195	1192	751
45°	1013	1011	1008	1005	1004	781
55°	788	782	776	776	775	702
65°	520	516	508	510	510	516
75°	241	237	231	235	230	257
85°	34	31	31	31	31	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1481.0	1480.5	1480.5	1481.0	1480.0
5°	1478.4	1478.9	1478.4	1478.4	1477.3
7.5°	1472.5	1472.0	1471.5	1472.0	1470.4
10°	1462.4	1462.4	1461.9	1462.4	1461.4
12.5°	1450.2	1450.2	1450.2	1450.7	1450.2
15°	1434.8	1434.3	1434.3	1435.3	1434.3
17.5°	1416.7	1416.2	1416.2	1415.7	1414.6
20°	1394.4	1394.4	1393.9	1393.3	1391.8
22.5°	1370.5	1370.0	1368.4	1368.4	1366.2
25°	1342.3	1340.7	1339.7	1339.1	1337.5
27.5°	1311.5	1309.4	1307.8	1306.7	1305.1
30°	1277.0	1274.8	1273.2	1271.7	1270.6
32.5°	1239.8	1238.7	1236.0	1235.5	1233.4
35°	1199.9	1198.3	1196.7	1194.6	1192.5
37.5°	1157.4	1155.8	1152.1	1151.0	1149.4
40°	1112.2	1110.1	1105.3	1105.3	1103.7
42.5°	1063.9	1061.7	1058.6	1056.4	1055.4
45°	1013.4	1011.3	1007.5	1005.4	1004.4
47.5°	959.7	958.1	953.9	952.3	950.7
50°	903.9	901.8	897.0	896.0	894.4
52.5°	845.5	844.4	838.0	837.5	835.9
55°	787.5	781.7	776.4	776.4	775.3
57.5°	723.8	719.5	712.6	712.6	711.6
60°	657.9	654.2	646.2	647.3	646.2
62.5°	593.6	585.6	578.2	581.4	578.7
65°	520.2	516.0	508.0	510.1	509.6
67.5°	453.3	445.3	437.9	442.1	440.0
70°	378.9	374.6	367.2	371.5	366.1
72.5°	308.7	305.0	297.6	302.4	297.1
75°	240.7	237.0	231.2	235.4	230.1
77.5°	176.4	173.8	168.5	172.7	173.8
80°	118.0	114.8	112.1	115.8	116.9
82.5°	69.1	67.0	65.9	66.4	69.1
85°	33.5	30.8	30.8	31.4	31.4
87.5°	9.0	8.0	9.0	9.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)