

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: P974205

Luminaire Tested: FLR2-24-45-L835-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974205  
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-L835-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-45-L835-CP375  
Ballast/Driver: -

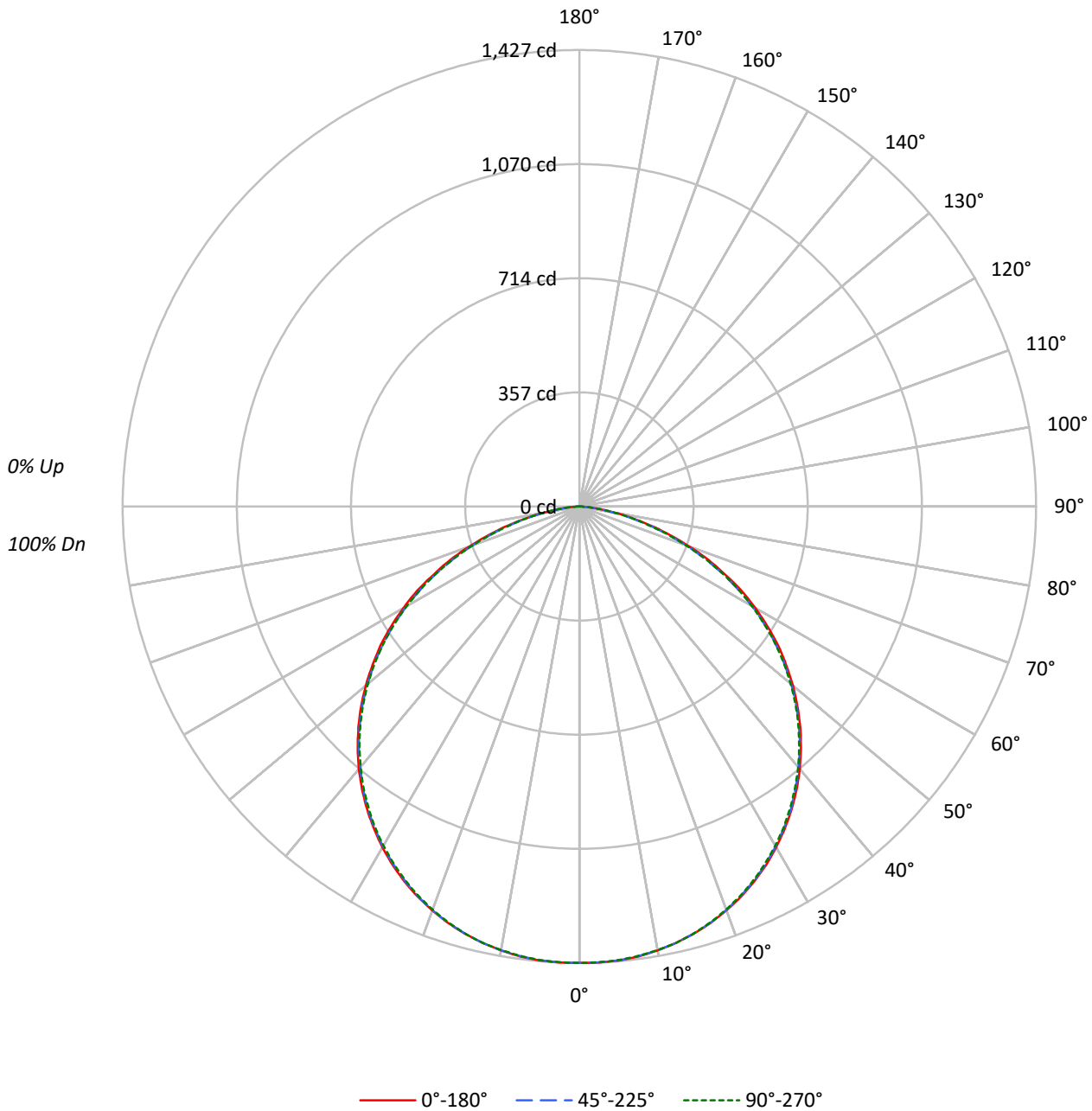
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4033.4 lumens  
Efficiency: N/A  
Efficacy: 113.3 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									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	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°	1920	1920	1920
5°	1924	1924	1923
10°	1925	1925	1924
15°	1926	1925	1925
20°	1924	1923	1920
25°	1920	1916	1913
30°	1912	1906	1902
35°	1899	1894	1887
40°	1882	1871	1868
45°	1858	1847	1842
50°	1823	1809	1804
55°	1780	1755	1753
60°	1706	1676	1676
65°	1596	1558	1564
70°	1436	1392	1388
75°	1206	1158	1153
80°	881	837	873
85°	499	459	466

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1858 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	3.4
10°-20°	390.2	9.7
20°-30°	595.0	14.8
30°-40°	720.9	17.9
40°-50°	748.8	18.6
50°-60°	669.9	16.6
60°-70°	488.2	12.1
70°-80°	241.8	6.0
80°-90°	43.2	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°	1120.7	27.8
0°-40°	1841.6	45.7
0°-60°	3260.2	80.8
0°-90°	4033.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1424	1425	1424	1424	1424	135
15°	1383	1382	1382	1383	1382	390
25°	1294	1292	1291	1290	1289	596
35°	1156	1155	1153	1151	1149	723
45°	976	974	971	969	968	753
55°	759	753	748	748	747	676
65°	501	497	490	492	491	497
75°	232	228	223	227	222	247
85°	32	30	30	30	30	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1427.1	1426.6	1426.6	1427.1	1426.1
5°	1424.5	1425.1	1424.5	1424.5	1423.5
7.5°	1418.9	1418.4	1417.9	1418.4	1416.9
10°	1409.2	1409.2	1408.7	1409.2	1408.2
12.5°	1397.4	1397.4	1397.4	1397.9	1397.4
15°	1382.6	1382.0	1382.0	1383.1	1382.0
17.5°	1365.1	1364.6	1364.6	1364.1	1363.1
20°	1343.6	1343.6	1343.1	1342.6	1341.1
22.5°	1320.6	1320.1	1318.5	1318.5	1316.5
25°	1293.5	1291.9	1290.9	1290.4	1288.8
27.5°	1263.8	1261.7	1260.2	1259.1	1257.6
30°	1230.5	1228.4	1226.9	1225.4	1224.3
32.5°	1194.6	1193.6	1191.0	1190.5	1188.5
35°	1156.2	1154.7	1153.2	1151.1	1149.1
37.5°	1115.3	1113.7	1110.1	1109.1	1107.6
40°	1071.7	1069.7	1065.1	1065.1	1063.5
42.5°	1025.1	1023.1	1020.0	1018.0	1016.9
45°	976.5	974.4	970.9	968.8	967.8
47.5°	924.8	923.2	919.1	917.6	916.1
50°	871.0	869.0	864.4	863.3	861.8
52.5°	814.7	813.7	807.5	807.0	805.5
55°	758.9	753.2	748.1	748.1	747.1
57.5°	697.4	693.3	686.7	686.7	685.6
60°	633.9	630.3	622.7	623.7	622.7
62.5°	572.0	564.3	557.1	560.2	557.6
65°	501.3	497.2	489.5	491.6	491.1
67.5°	436.8	429.1	421.9	426.0	424.0
70°	365.1	361.0	353.8	357.9	352.8
72.5°	297.5	293.9	286.8	291.4	286.2
75°	232.0	228.4	222.7	226.8	221.7
77.5°	170.0	167.4	162.3	166.4	167.4
80°	113.7	110.6	108.0	111.6	112.7
82.5°	66.6	64.5	63.5	64.0	66.6
85°	32.3	29.7	29.7	30.2	30.2
87.5°	8.7	7.7	8.7	9.2	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)