

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: P973466

Luminaire Tested: FLR2-14-42-L850-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973466  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42-L850-CP250  
Description: 1\*4 FLR-2.0 4200 LUMEN at 5000 CCT & 80CRI with Clear Polycarbonate (0.250" thickness)  
  
Light Source:  
Ballast/Driver: -

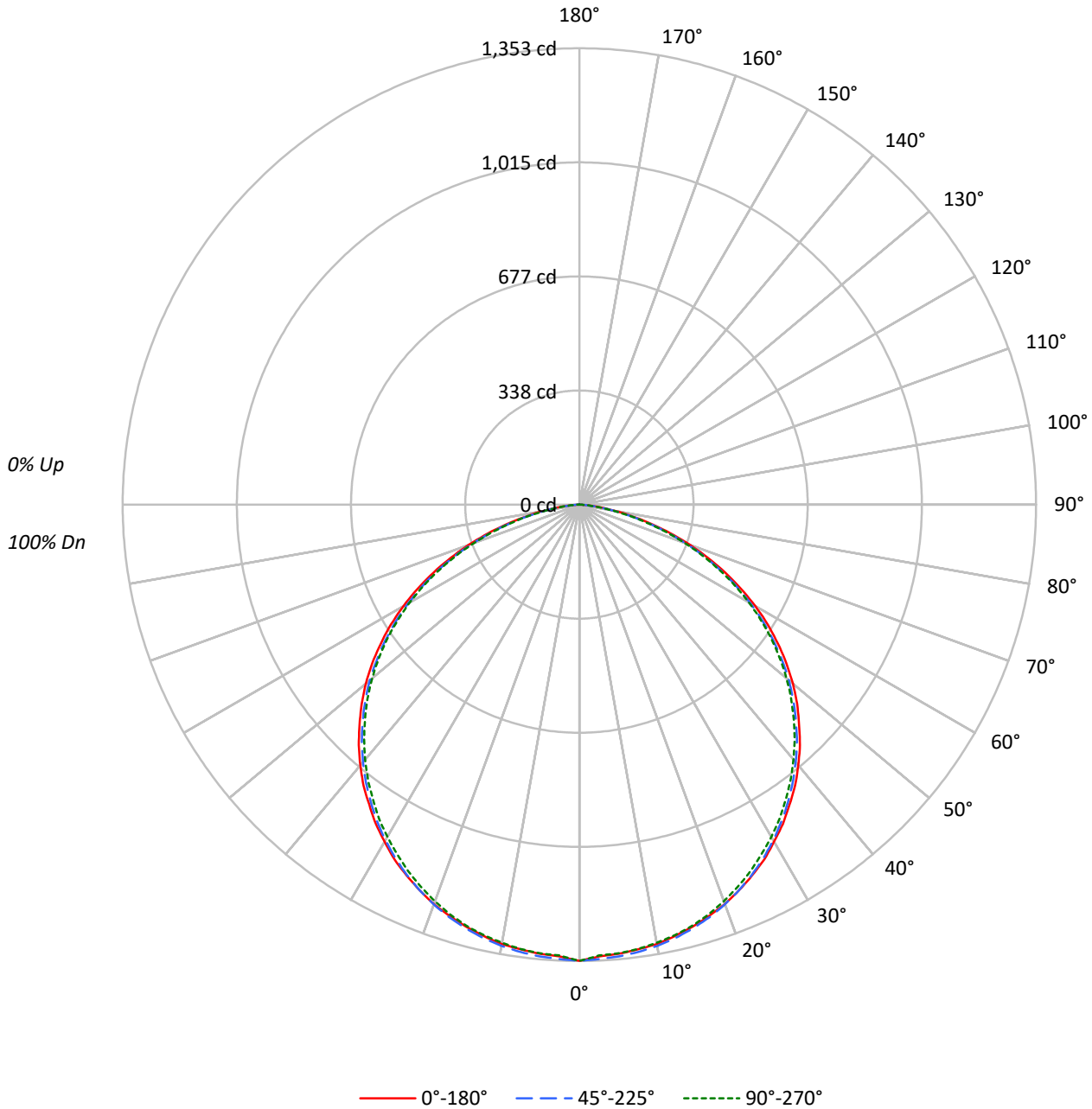
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3785.7 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.7  
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
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	40	34	29	27						27														
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25						25														

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

	0°	45°	90°
0°	3640	3640	3640
5°	3611	3633	3607
10°	3615	3630	3604
15°	3609	3623	3601
20°	3609	3612	3583
25°	3600	3594	3561
30°	3585	3570	3535
35°	3566	3539	3504
40°	3546	3503	3467
45°	3503	3454	3417
50°	3457	3394	3354
55°	3370	3291	3260
60°	3239	3148	3122
65°	3033	2944	2912
70°	2736	2626	2603
75°	2294	2177	2153
80°	1666	1553	1509
85°	883	778	710

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3503 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.1	3.4
10°-20°	367.9	9.7
20°-30°	559.0	14.8
30°-40°	676.2	17.9
40°-50°	702.7	18.6
50°-60°	629.2	16.6
60°-70°	458.9	12.1
70°-80°	226.0	6.0
80°-90°	37.8	1.0
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°	1055.0	27.9
0°-40°	1731.2	45.7
0°-60°	3063.1	80.9
0°-90°	3785.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3785.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1337	1352	1345	1358	1335	127
15°	1296	1307	1300	1312	1293	366
25°	1213	1219	1210	1216	1199	559
35°	1086	1088	1077	1082	1066	680
45°	920	919	908	909	898	711
55°	718	712	702	700	695	641
65°	476	471	462	459	457	471
75°	221	217	209	207	207	235
85°	29	27	25	22	23	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1352.6	1352.6	1352.6	<i>1352.6</i>	1352.6
2.5°	<i>1340.8</i>	<i>1356.0</i>	<i>1348.7</i>	<i>1362.1</i>	<i>1338.0</i>
5°	1336.9	1351.5	1344.8	<i>1357.6</i>	1335.2
7.5°	1330.2	1345.3	1338.0	<i>1350.4</i>	1329.1
10°	1322.9	1336.4	1328.5	<i>1340.8</i>	1319.0
12.5°	1310.1	1323.5	1316.2	<i>1327.4</i>	1307.3
15°	1295.5	1307.3	1300.5	<i>1311.7</i>	1292.7
17.5°	1278.7	1289.9	1282.6	<i>1292.7</i>	1273.7
20°	1260.2	1269.2	1261.3	<i>1269.7</i>	1251.3
22.5°	1237.3	1245.7	1237.3	<i>1242.9</i>	1226.6
25°	1212.6	1218.8	1210.4	<i>1216.0</i>	1199.2
27.5°	1186.3	1189.7	1181.3	<i>1185.8</i>	1168.4
30°	1153.9	1157.8	1148.8	<i>1154.4</i>	1137.6
32.5°	1122.5	1124.7	1114.7	<i>1119.1</i>	1104.0
35°	1085.6	1087.8	1077.2	<i>1081.6</i>	1066.5
37.5°	1050.3	1049.7	1038.5	<i>1041.3</i>	1028.4
40°	1009.4	1008.9	997.1	<i>999.3</i>	987.0
42.5°	967.4	965.2	954.0	<i>955.1</i>	943.9
45°	920.4	919.3	907.5	<i>909.2</i>	898.0
47.5°	875.0	871.7	859.9	<i>860.5</i>	851.0
50°	825.8	820.7	810.7	<i>809.5</i>	801.1
52.5°	773.2	767.6	756.4	<i>755.2</i>	749.1
55°	718.3	712.1	701.5	<i>699.8</i>	694.8
57.5°	661.7	653.9	645.5	<i>642.2</i>	638.2
60°	601.8	594.6	585.0	<i>581.7</i>	580.0
62.5°	539.7	532.4	525.1	<i>521.8</i>	519.5
65°	476.4	470.8	462.4	<i>459.1</i>	457.4
67.5°	412.1	407.0	399.2	<i>395.3</i>	394.7
70°	347.7	342.6	333.7	<i>331.4</i>	330.9
72.5°	283.3	278.8	270.4	<i>268.2</i>	268.2
75°	220.6	216.7	209.4	<i>207.1</i>	207.1
77.5°	161.2	157.9	152.3	<i>149.5</i>	149.5
80°	107.5	105.3	100.2	<i>98.0</i>	97.4
82.5°	62.1	61.0	56.5	<i>54.3</i>	55.4
85°	28.6	27.4	25.2	<i>22.4</i>	23.0
87.5°	7.3	6.7	5.0	<i>3.9</i>	5.0
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)