

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: P973277

Luminaire Tested: FLR2-14-70HE-L850-CP250

Issue Date: 3/13/2025

**Test Information**

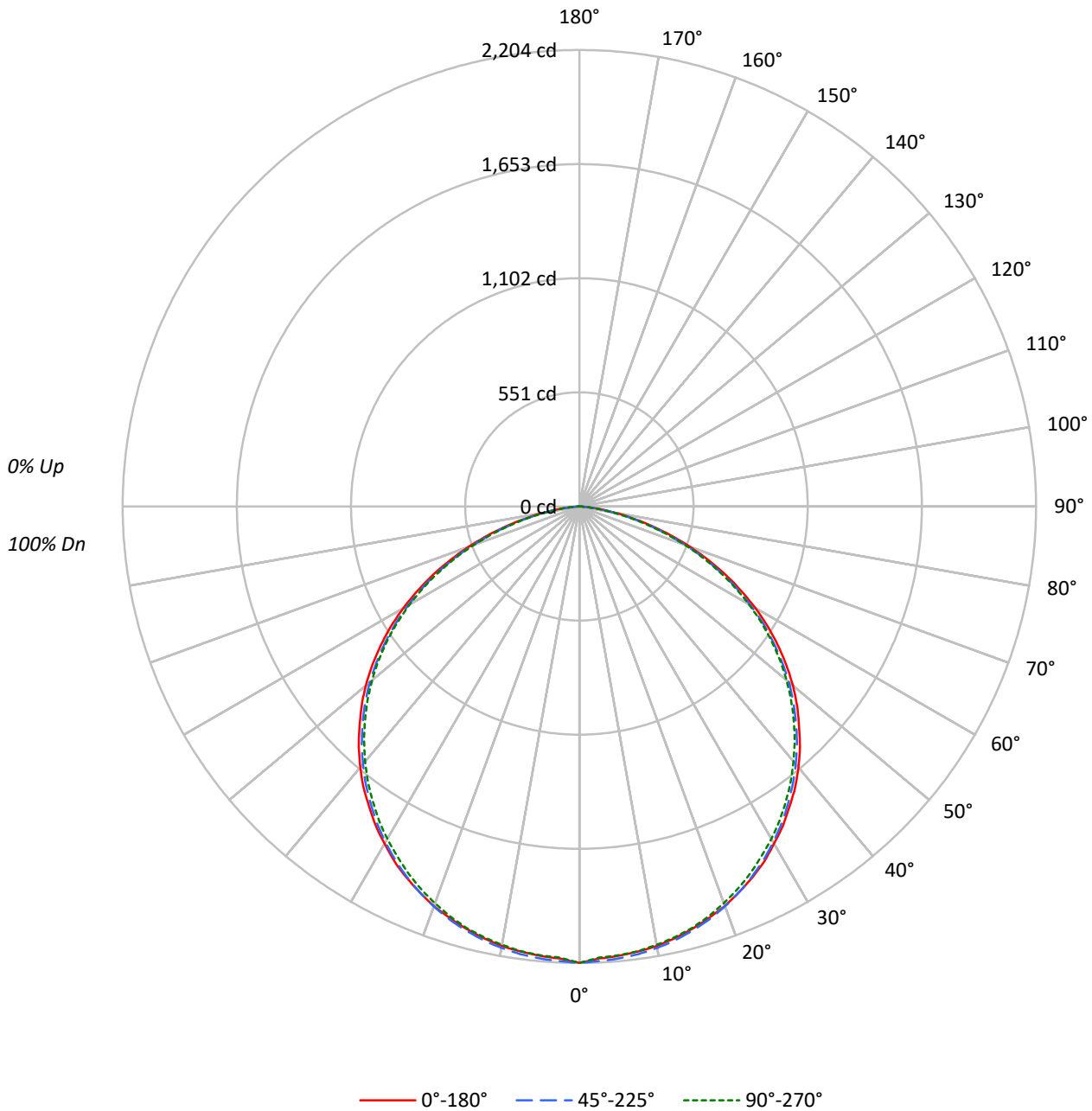
Test Method: LM-79-2019  
Report Number: P973277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-70HE-L850-CP250  
Description: 1\*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.250" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6167.9 lumens  
Efficiency: N/A  
Efficacy: 117.5 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): 52.5  
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°	5930	5930	5930
5°	5884	5918	5877
10°	5890	5914	5872
15°	5880	5903	5867
20°	5880	5885	5838
25°	5866	5855	5801
30°	5841	5816	5759
35°	5810	5765	5708
40°	5777	5707	5649
45°	5707	5627	5568
50°	5632	5529	5465
55°	5491	5362	5311
60°	5278	5130	5086
65°	4942	4797	4745
70°	4456	4277	4242
75°	3737	3546	3509
80°	2713	2531	2459
85°	1436	1266	1155

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5707 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.7	3.4
10°-20°	599.4	9.7
20°-30°	910.7	14.8
30°-40°	1101.6	17.9
40°-50°	1144.9	18.6
50°-60°	1025.1	16.6
60°-70°	747.7	12.1
70°-80°	368.2	6.0
80°-90°	61.6	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°	1718.9	27.9
0°-40°	2820.5	45.7
0°-60°	4990.5	80.9
0°-90°	6167.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6167.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2204	2204	2204	2204	2204	
5°	2178	2202	2191	2212	2176	207
15°	2111	2130	2119	2137	2106	596
25°	1976	1986	1972	1981	1954	911
35°	1769	1772	1755	1762	1738	1108
45°	1500	1498	1479	1481	1463	1158
55°	1170	1160	1143	1140	1132	1045
65°	776	767	753	748	745	767
75°	359	353	341	338	338	383
85°	46	45	41	36	37	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2203.7	2203.7	2203.7	2203.7	2203.7
2.5°	2184.6	2209.2	2197.3	2219.2	2180.0
5°	2178.2	2201.9	2191.0	2211.9	2175.5
7.5°	2167.2	2191.9	2180.0	2200.1	2165.4
10°	2155.4	2177.3	2164.5	2184.6	2149.0
12.5°	2134.4	2156.3	2144.4	2162.7	2129.8
15°	2110.7	2129.8	2118.9	2137.1	2106.1
17.5°	2083.3	2101.6	2089.7	2106.1	2075.1
20°	2053.2	2067.8	2055.1	2068.7	2038.6
22.5°	2015.8	2029.5	2015.8	2025.0	1998.5
25°	1975.7	1985.7	1972.0	1981.2	1953.8
27.5°	1932.8	1938.3	1924.6	1931.9	1903.6
30°	1879.9	1886.3	1871.7	1880.8	1853.5
32.5°	1828.8	1832.5	1816.1	1823.4	1798.7
35°	1768.6	1772.3	1755.0	1762.3	1737.6
37.5°	1711.2	1710.3	1692.0	1696.6	1675.6
40°	1644.6	1643.7	1624.5	1628.2	1608.1
42.5°	1576.2	1572.5	1554.3	1556.1	1537.9
45°	1499.6	1497.7	1478.6	1481.3	1463.1
47.5°	1425.7	1420.2	1401.0	1402.0	1386.5
50°	1345.4	1337.2	1320.8	1319.0	1305.3
52.5°	1259.7	1250.5	1232.3	1230.5	1220.4
55°	1170.3	1160.2	1142.9	1140.2	1132.0
57.5°	1078.2	1065.4	1051.7	1046.2	1039.8
60°	980.6	968.7	953.2	947.7	945.0
62.5°	879.3	867.4	855.6	850.1	846.5
65°	776.2	767.1	753.4	748.0	745.2
67.5°	671.3	663.1	650.4	644.0	643.1
70°	566.4	558.2	543.6	540.0	539.1
72.5°	461.5	454.2	440.6	436.9	436.9
75°	359.4	353.0	341.1	337.5	337.5
77.5°	262.7	257.2	248.1	243.5	243.5
80°	175.1	171.5	163.3	159.6	158.7
82.5°	101.2	99.4	92.1	88.5	90.3
85°	46.5	44.7	41.0	36.5	37.4
87.5°	11.9	10.9	8.2	6.4	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)