

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: P973122

Luminaire Tested: FLR2-14-70HE-L835-CP080

Issue Date: 3/13/2025

**Test Information**

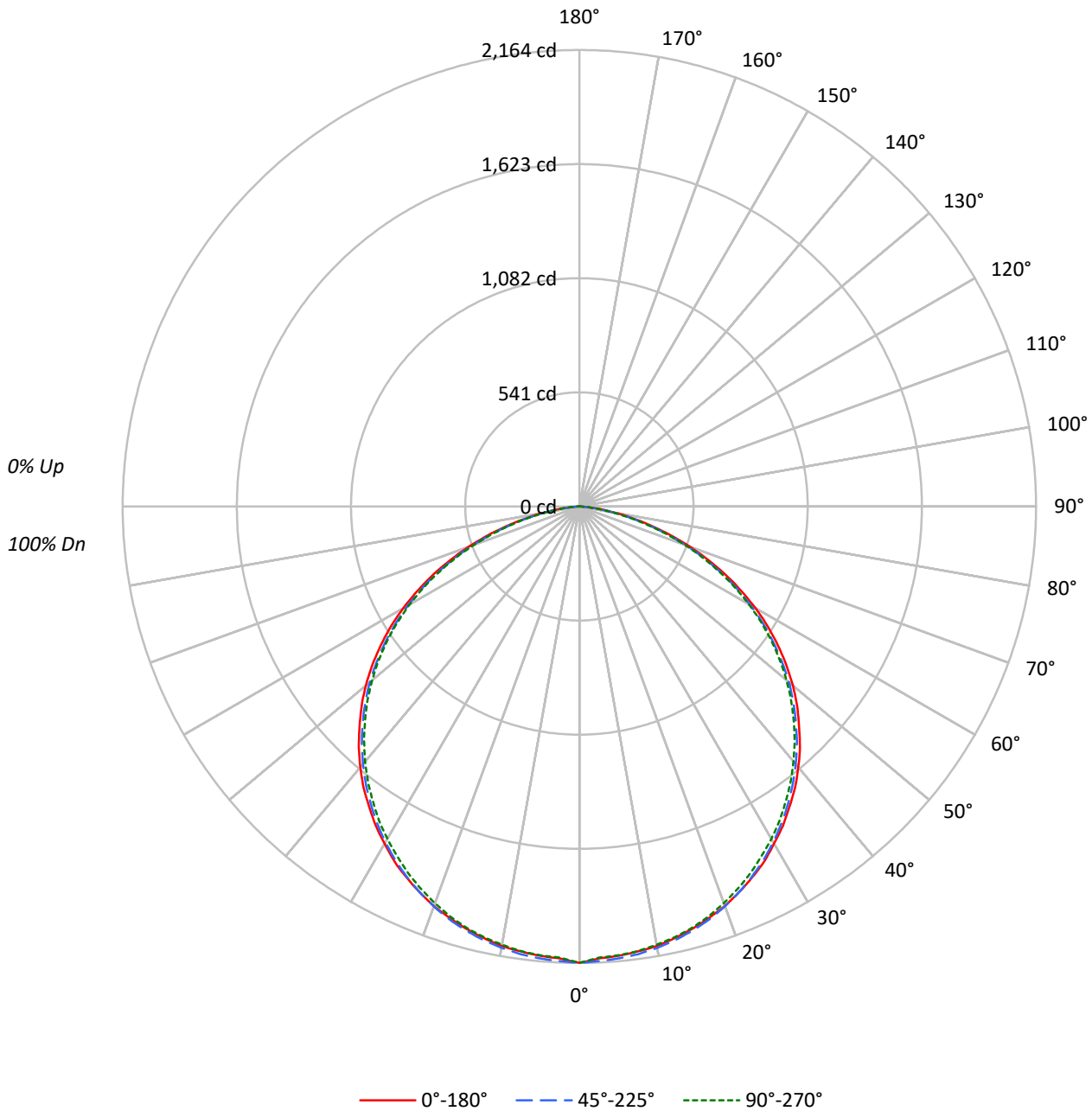
Test Method: LM-79-2019  
Report Number: P973122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-70HE-L835-CP080  
Description: 1\*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 80CRI Clear Polycarbonate (0.080" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6055.4 lumens  
Efficiency: N/A  
Efficacy: 115.3 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°	5822	5822	5822
5°	5777	5810	5769
10°	5782	5807	5765
15°	5773	5796	5760
20°	5773	5778	5731
25°	5759	5749	5695
30°	5735	5710	5654
35°	5704	5660	5604
40°	5672	5603	5546
45°	5603	5524	5466
50°	5530	5429	5365
55°	5390	5264	5214
60°	5181	5036	4993
65°	4853	4710	4658
70°	4375	4199	4164
75°	3668	3482	3445
80°	2664	2484	2414
85°	1411	1244	1133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5603 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.9	3.4
10°-20°	588.5	9.7
20°-30°	894.1	14.8
30°-40°	1081.5	17.9
40°-50°	1124.0	18.6
50°-60°	1006.4	16.6
60°-70°	734.0	12.1
70°-80°	361.4	6.0
80°-90°	60.4	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°	1687.5	27.9
0°-40°	2769.1	45.7
0°-60°	4899.5	80.9
0°-90°	6055.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6055.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2164	2164	2164	2164	2164	
5°	2138	2162	2151	2172	2136	203
15°	2072	2091	2080	2098	2068	585
25°	1940	1950	1936	1945	1918	894
35°	1736	1740	1723	1730	1706	1087
45°	1472	1470	1452	1454	1436	1137
55°	1149	1139	1122	1119	1111	1026
65°	762	753	740	734	732	753
75°	353	347	335	331	331	376
85°	46	44	40	36	37	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2163.5	2163.5	2163.5	2163.5	2163.5
2.5°	2144.7	2168.9	2157.3	2178.8	2140.3
5°	2138.5	2161.7	2151.0	2171.6	2135.8
7.5°	2127.7	2151.9	2140.3	2160.0	2125.9
10°	2116.1	2137.6	2125.0	2144.7	2109.8
12.5°	2095.5	2117.0	2105.3	2123.2	2091.0
15°	2072.2	2091.0	2080.3	2098.2	2067.7
17.5°	2045.3	2063.2	2051.6	2067.7	2037.3
20°	2015.8	2030.1	2017.6	2031.0	2001.4
22.5°	1979.1	1992.5	1979.1	1988.0	1962.0
25°	1939.7	1949.5	1936.1	1945.0	1918.2
27.5°	1897.6	1902.9	1889.5	1896.7	1868.9
30°	1845.6	1851.9	1837.6	1846.5	1819.7
32.5°	1795.5	1799.1	1782.9	1790.1	1765.9
35°	1736.4	1740.0	1722.9	1730.1	1705.9
37.5°	1680.0	1679.1	1661.2	1665.6	1645.0
40°	1614.6	1613.7	1594.9	1598.5	1578.8
42.5°	1547.4	1543.8	1525.9	1527.7	1509.8
45°	1472.2	1470.4	1451.6	1454.3	1436.4
47.5°	1399.7	1394.3	1375.5	1376.4	1361.2
50°	1320.9	1312.8	1296.7	1294.9	1281.5
52.5°	1236.7	1227.7	1209.8	1208.0	1198.2
55°	1148.9	1139.1	1122.1	1119.4	1111.3
57.5°	1058.5	1045.9	1032.5	1027.1	1020.9
60°	962.7	951.0	935.8	930.4	927.7
62.5°	863.3	851.6	840.0	834.6	831.0
65°	762.1	753.1	739.7	734.3	731.6
67.5°	659.1	651.0	638.5	632.2	631.3
70°	556.1	548.0	533.7	530.1	529.2
72.5°	453.1	446.0	432.5	428.9	428.9
75°	352.8	346.6	334.9	331.3	331.3
77.5°	257.9	252.5	243.6	239.1	239.1
80°	171.9	168.4	160.3	156.7	155.8
82.5°	99.4	97.6	90.4	86.9	88.7
85°	45.7	43.9	40.3	35.8	36.7
87.5°	11.6	10.7	8.1	6.3	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)