

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: P973127

Luminaire Tested: FLR2-14-70HE-L835-CP125

Issue Date: 3/13/2025

**Test Information**

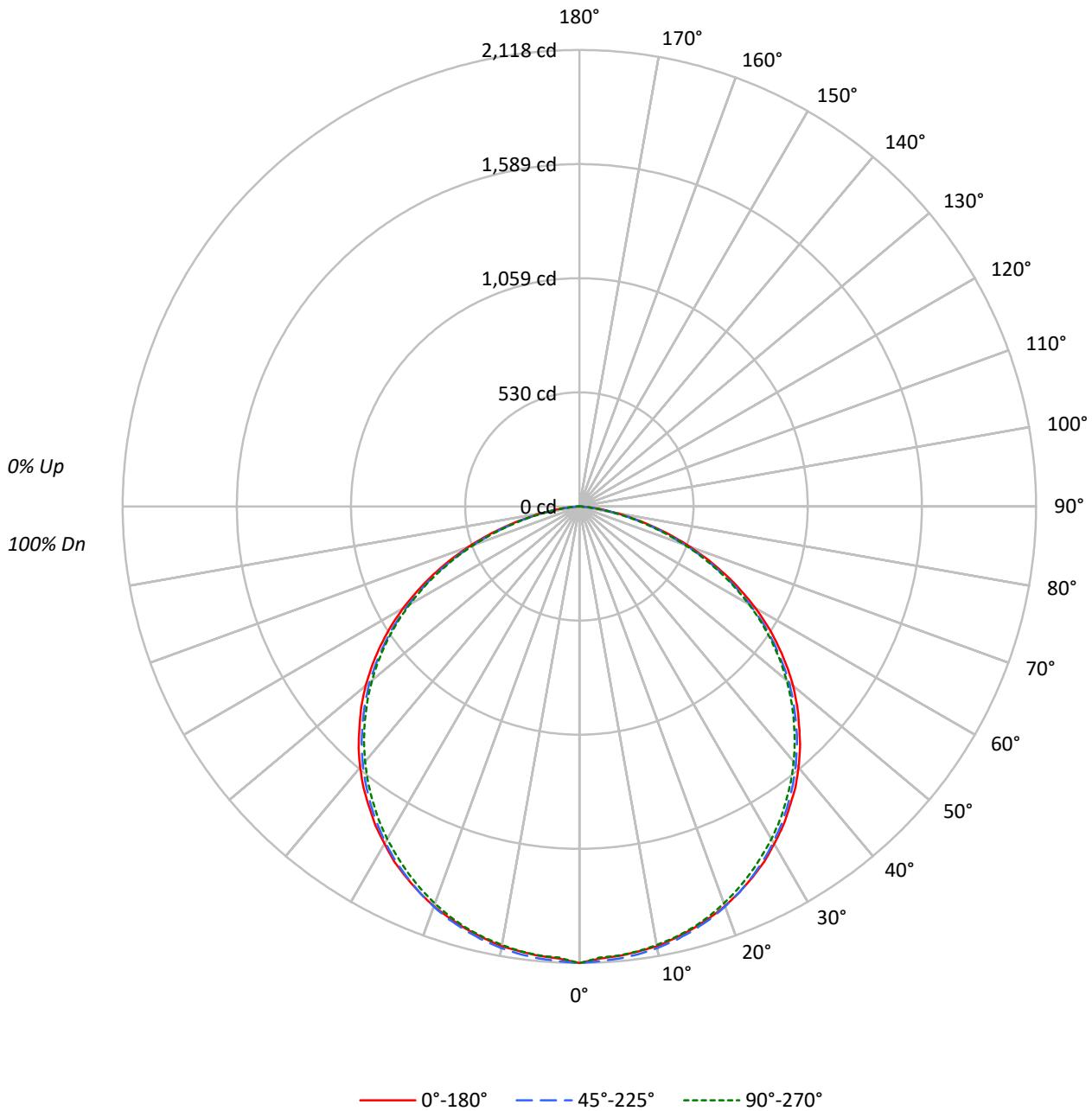
Test Method: LM-79-2019  
Report Number: P973127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-70HE-L835-CP125  
Description: 1\*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 80CRI Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5929.4 lumens  
Efficiency: N/A  
Efficacy: 112.9 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°	5701	5701	5701
5°	5656	5689	5649
10°	5662	5686	5645
15°	5653	5675	5641
20°	5652	5657	5612
25°	5639	5629	5577
30°	5615	5591	5537
35°	5585	5542	5487
40°	5554	5486	5430
45°	5486	5409	5353
50°	5415	5315	5253
55°	5278	5155	5105
60°	5073	4931	4889
65°	4751	4612	4562
70°	4284	4112	4077
75°	3592	3409	3373
80°	2610	2433	2365
85°	1380	1220	1112

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5486 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.7	3.4
10°-20°	576.3	9.7
20°-30°	875.5	14.8
30°-40°	1059.0	17.9
40°-50°	1100.6	18.6
50°-60°	985.4	16.6
60°-70°	718.7	12.1
70°-80°	353.9	6.0
80°-90°	59.2	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°	1652.4	27.9
0°-40°	2711.4	45.7
0°-60°	4797.5	80.9
0°-90°	5929.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5929.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2094	2117	2106	2126	2091	199
15°	2029	2048	2037	2054	2025	573
25°	1899	1909	1896	1905	1878	876
35°	1700	1704	1687	1694	1670	1065
45°	1442	1440	1421	1424	1406	1113
55°	1125	1115	1099	1096	1088	1004
65°	746	737	724	719	716	737
75°	346	339	328	324	324	368
85°	45	43	40	35	36	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2118.5	2118.5	2118.5	2118.5	2118.5
2.5°	2100.1	2123.8	2112.4	2133.4	2095.7
5°	2094.0	2116.8	2106.2	2126.4	2091.3
7.5°	2083.4	2107.1	2095.7	2115.0	2081.7
10°	2072.0	2093.1	2080.8	2100.1	2065.9
12.5°	2051.9	2072.9	2061.5	2079.0	2047.5
15°	2029.1	2047.5	2037.0	2054.5	2024.7
17.5°	2002.8	2020.3	2008.9	2024.7	1994.9
20°	1973.8	1987.9	1975.6	1988.7	1959.8
22.5°	1937.9	1951.0	1937.9	1946.6	1921.2
25°	1899.3	1908.9	1895.8	1904.6	1878.2
27.5°	1858.1	1863.3	1850.2	1857.2	1830.0
30°	1807.2	1813.4	1799.3	1808.1	1781.8
32.5°	1758.1	1761.6	1745.8	1752.9	1729.2
35°	1700.2	1703.8	1687.1	1694.1	1670.4
37.5°	1645.0	1644.1	1626.6	1631.0	1610.8
40°	1581.0	1580.1	1561.7	1565.2	1545.9
42.5°	1515.2	1511.7	1494.2	1495.9	1478.4
45°	1441.6	1439.8	1421.4	1424.0	1406.5
47.5°	1370.5	1365.3	1346.9	1347.7	1332.8
50°	1293.4	1285.5	1269.7	1267.9	1254.8
52.5°	1211.0	1202.2	1184.6	1182.9	1173.2
55°	1125.0	1115.4	1098.7	1096.1	1088.2
57.5°	1036.5	1024.2	1011.0	1005.8	999.6
60°	942.6	931.2	916.3	911.1	908.4
62.5°	845.3	833.9	822.5	817.2	813.7
65°	746.2	737.4	724.3	719.0	716.4
67.5°	645.4	637.5	625.2	619.1	618.2
70°	544.5	536.6	522.6	519.1	518.2
72.5°	443.7	436.7	423.5	420.0	420.0
75°	345.5	339.3	327.9	324.4	324.4
77.5°	252.5	247.3	238.5	234.1	234.1
80°	168.4	164.9	157.0	153.5	152.6
82.5°	97.3	95.6	88.6	85.1	86.8
85°	44.7	43.0	39.5	35.1	36.0
87.5°	11.4	10.5	7.9	6.1	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)