

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: P973303

Luminaire Tested: FLR2-14-80HE-L950-CP125

Issue Date: 3/13/2025

**Test Information**

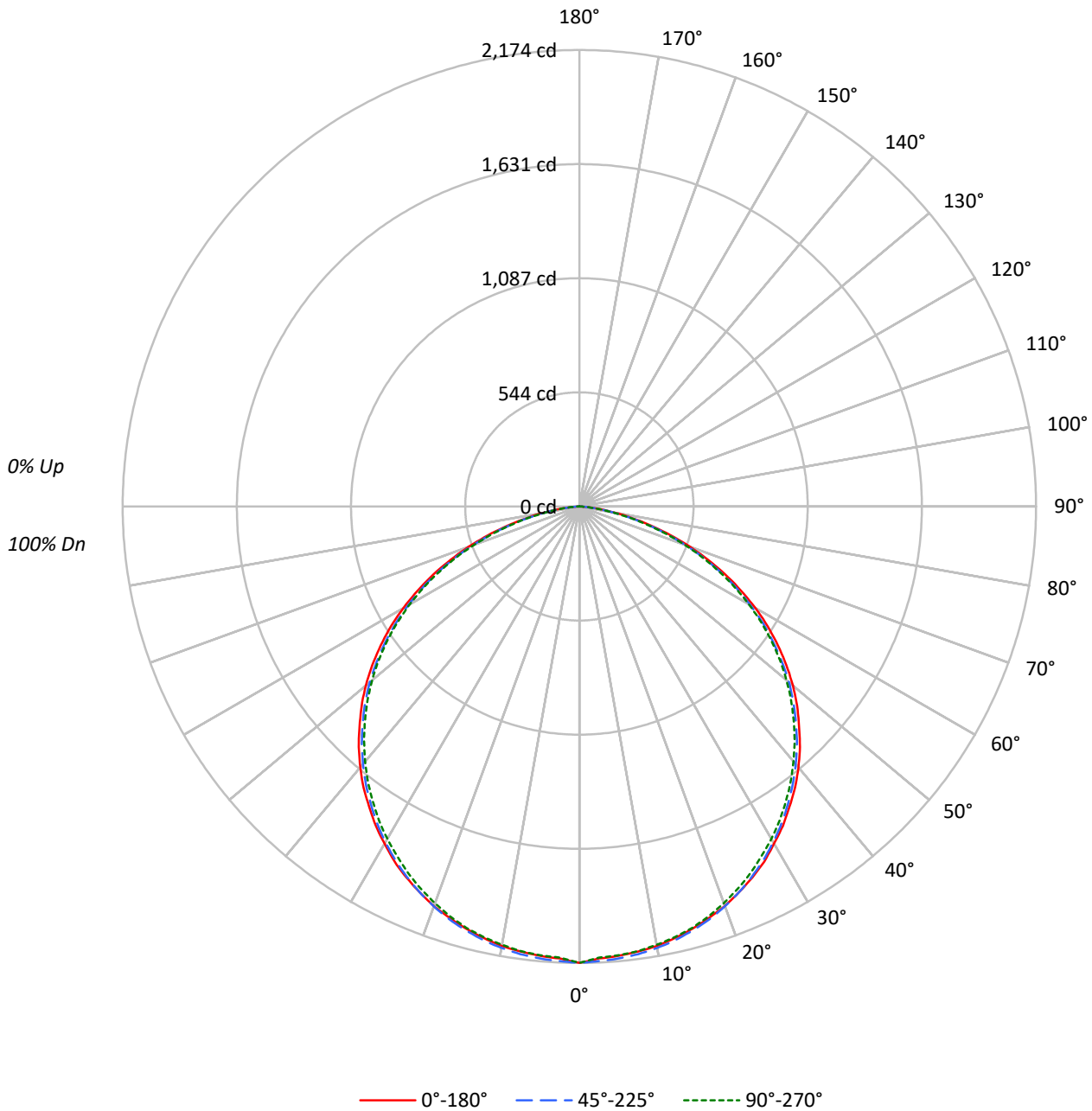
Test Method: LM-79-2019  
Report Number: P973303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-80HE-L950-CP125  
Description: 1\*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6083.8 lumens  
Efficiency: N/A  
Efficacy: 98.3 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): 61.9  
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	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°	5849	5849	5849
5°	5804	5838	5796
10°	5809	5834	5792
15°	5800	5823	5787
20°	5800	5805	5758
25°	5786	5776	5722
30°	5762	5737	5681
35°	5731	5686	5630
40°	5699	5629	5572
45°	5629	5550	5492
50°	5556	5454	5390
55°	5415	5289	5238
60°	5205	5060	5017
65°	4875	4732	4681
70°	4396	4219	4183
75°	3686	3499	3461
80°	2676	2495	2425
85°	1417	1250	1139

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5629 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.9	3.4
10°-20°	591.3	9.7
20°-30°	898.3	14.8
30°-40°	1086.6	17.9
40°-50°	1129.3	18.6
50°-60°	1011.1	16.6
60°-70°	737.5	12.1
70°-80°	363.2	6.0
80°-90°	60.7	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°	1695.4	27.9
0°-40°	2782.0	45.7
0°-60°	4922.5	80.9
0°-90°	6083.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6083.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2174	2174	2174	2174	2174	
5°	2148	2172	2161	2182	2146	204
15°	2082	2101	2090	2108	2077	588
25°	1949	1959	1945	1954	1927	898
35°	1744	1748	1731	1738	1714	1092
45°	1479	1477	1458	1461	1443	1142
55°	1154	1144	1127	1125	1116	1030
65°	766	757	743	738	735	756
75°	354	348	336	333	333	378
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°	2173.7	2173.7	2173.7	2173.7	2173.7
2.5°	2154.8	2179.1	2167.4	2189.0	2150.3
5°	2148.5	2171.9	2161.1	2181.8	2145.8
7.5°	2137.7	2162.0	2150.3	2170.1	2135.9
10°	2126.0	2147.6	2135.0	2154.8	2119.7
12.5°	2105.3	2126.9	2115.2	2133.2	2100.8
15°	2081.9	2100.8	2090.0	2108.0	2077.4
17.5°	2054.9	2072.9	2061.2	2077.4	2046.8
20°	2025.2	2039.6	2027.0	2040.5	2010.8
22.5°	1988.3	2001.8	1988.3	1997.3	1971.2
25°	1948.8	1958.7	1945.2	1954.2	1927.2
27.5°	1906.5	1911.9	1898.4	1905.6	1877.7
30°	1854.3	1860.6	1846.2	1855.2	1828.2
32.5°	1803.9	1807.5	1791.3	1798.5	1774.2
35°	1744.5	1748.1	1731.0	1738.2	1713.9
37.5°	1687.8	1686.9	1668.9	1673.4	1652.8
40°	1622.2	1621.3	1602.4	1606.0	1586.2
42.5°	1554.7	1551.1	1533.1	1534.9	1516.9
45°	1479.1	1477.3	1458.4	1461.1	1443.1
47.5°	1406.2	1400.8	1381.9	1382.8	1367.5
50°	1327.1	1319.0	1302.8	1301.0	1287.5
52.5°	1242.5	1233.5	1215.5	1213.7	1203.8
55°	1154.3	1144.4	1127.3	1124.6	1116.5
57.5°	1063.4	1050.9	1037.4	1032.0	1025.7
60°	967.2	955.5	940.2	934.8	932.1
62.5°	867.3	855.6	843.9	838.5	834.9
65°	765.6	756.6	743.2	737.8	735.1
67.5°	662.2	654.1	641.5	635.2	634.3
70°	558.7	550.6	536.2	532.6	531.7
72.5°	455.2	448.1	434.6	431.0	431.0
75°	354.5	348.2	336.5	332.9	332.9
77.5°	259.1	253.7	244.7	240.2	240.2
80°	172.7	169.1	161.0	157.4	156.5
82.5°	99.9	98.1	90.9	87.3	89.1
85°	45.9	44.1	40.5	36.0	36.9
87.5°	11.7	10.8	8.1	6.3	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)