

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: P973093

Luminaire Tested: FLR2-14-80HE-L930-CP125

Issue Date: 3/13/2025

**Test Information**

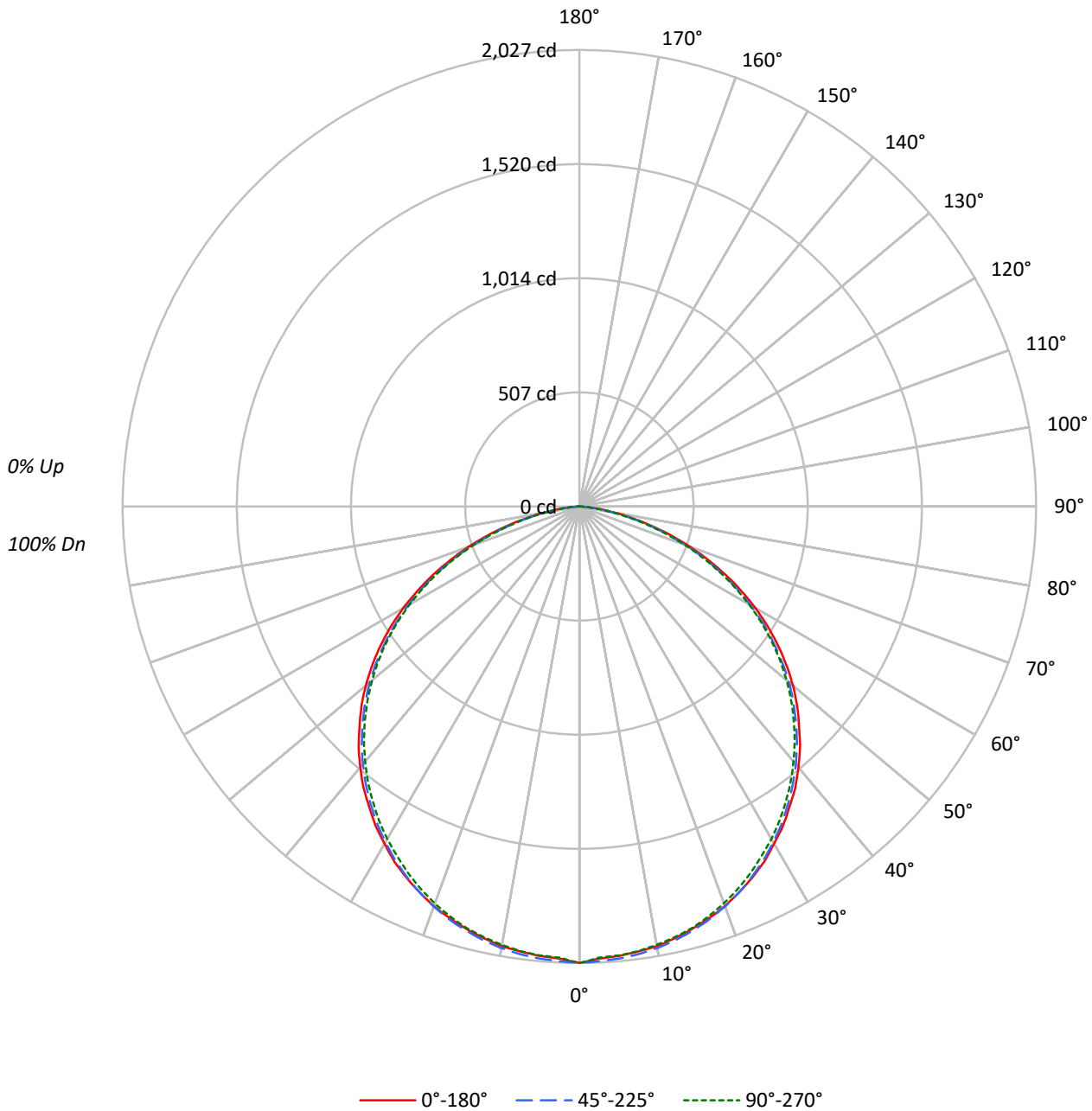
Test Method: LM-79-2019  
Report Number: P973093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-80HE-L930-CP125  
Description: 1\*4 FLR-2.0 8000 Lumen High Efficacy at 3000CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5673.7 lumens  
Efficiency: N/A  
Efficacy: 91.7 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									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°	5455	5455	5455
5°	5412	5444	5405
10°	5418	5441	5402
15°	5409	5430	5397
20°	5409	5414	5370
25°	5396	5386	5336
30°	5373	5350	5298
35°	5344	5303	5251
40°	5314	5249	5196
45°	5249	5176	5122
50°	5181	5086	5027
55°	5050	4932	4885
60°	4855	4719	4679
65°	4546	4413	4365
70°	4099	3935	3902
75°	3437	3263	3227
80°	2497	2328	2263
85°	1321	1167	1062

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5249 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.0	3.4
10°-20°	551.4	9.7
20°-30°	837.7	14.8
30°-40°	1013.3	17.9
40°-50°	1053.2	18.6
50°-60°	942.9	16.6
60°-70°	687.7	12.1
70°-80°	338.7	6.0
80°-90°	56.6	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°	1581.1	27.9
0°-40°	2594.5	45.7
0°-60°	4590.6	80.9
0°-90°	5673.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5673.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2004	2026	2015	2035	2001	191
15°	1942	1959	1949	1966	1937	548
25°	1817	1827	1814	1822	1797	838
35°	1627	1630	1614	1621	1598	1019
45°	1379	1378	1360	1363	1346	1065
55°	1076	1067	1051	1049	1041	961
65°	714	706	693	688	686	705
75°	331	325	314	310	310	352
85°	43	41	38	34	34	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2027.1	2027.1	2027.1	2027.1	2027.1
2.5°	2009.5	2032.2	2021.3	2041.4	2005.3
5°	2003.6	2025.5	2015.4	2034.7	2001.1
7.5°	1993.6	2016.2	2005.3	2023.8	1991.9
10°	1982.7	2002.8	1991.1	2009.5	1976.8
12.5°	1963.4	1983.5	1972.6	1989.4	1959.2
15°	1941.6	1959.2	1949.1	1965.9	1937.4
17.5°	1916.4	1933.2	1922.3	1937.4	1908.8
20°	1888.7	1902.1	1890.4	1903.0	1875.3
22.5°	1854.3	1866.9	1854.3	1862.7	1838.4
25°	1817.4	1826.6	1814.0	1822.4	1797.2
27.5°	1777.9	1783.0	1770.4	1777.1	1751.1
30°	1729.3	1735.2	1721.7	1730.1	1704.9
32.5°	1682.3	1685.6	1670.5	1677.3	1654.6
35°	1626.9	1630.3	1614.3	1621.0	1598.4
37.5°	1574.1	1573.2	1556.4	1560.6	1541.3
40°	1512.8	1512.0	1494.3	1497.7	1479.2
42.5°	1449.9	1446.5	1429.7	1431.4	1414.6
45°	1379.4	1377.7	1360.1	1362.6	1345.8
47.5°	1311.4	1306.4	1288.8	1289.6	1275.4
50°	1237.6	1230.0	1214.9	1213.3	1200.7
52.5°	1158.7	1150.3	1133.6	1131.9	1122.6
55°	1076.5	1067.3	1051.3	1048.8	1041.3
57.5°	991.8	980.0	967.4	962.4	956.5
60°	902.0	891.1	876.8	871.8	869.3
62.5°	808.8	797.9	787.0	782.0	778.6
65°	714.0	705.6	693.1	688.0	685.5
67.5°	617.5	610.0	598.2	592.4	591.5
70°	521.0	513.5	500.1	496.7	495.9
72.5°	424.6	417.8	405.3	401.9	401.9
75°	330.6	324.7	313.8	310.4	310.4
77.5°	241.6	236.6	228.2	224.0	224.0
80°	161.1	157.7	150.2	146.8	146.0
82.5°	93.1	91.5	84.7	81.4	83.1
85°	42.8	41.1	37.8	33.6	34.4
87.5°	10.9	10.1	7.6	5.9	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)