

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: P973108

Luminaire Tested: FLR2-14-80HE-L930-CP375

Issue Date: 3/13/2025

**Test Information**

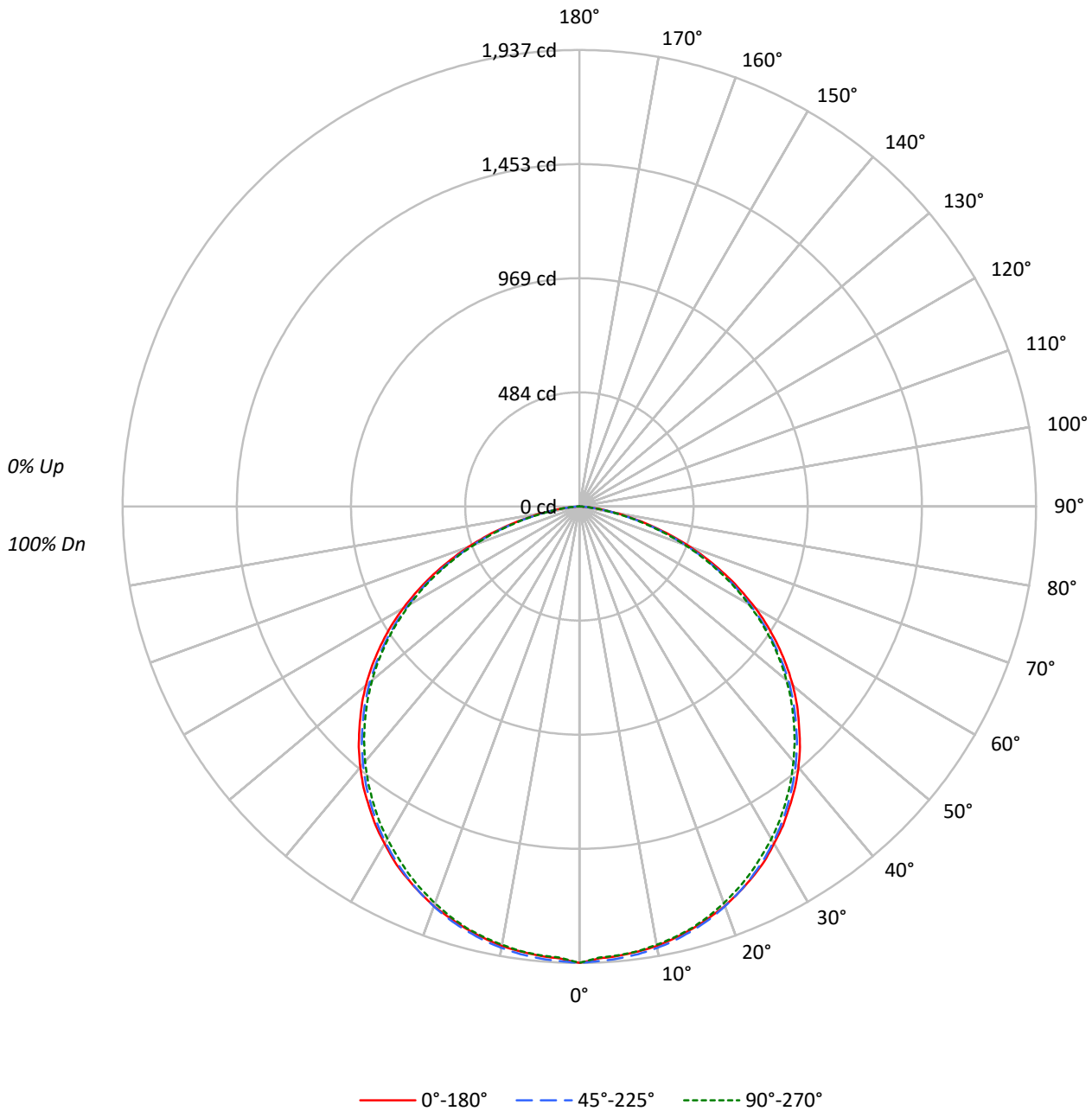
Test Method: LM-79-2019  
Report Number: P973108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-80HE-L930-CP375  
Description: 1\*4 FLR-2.0 8000 Lumen High Efficacy at 3000CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5420.5 lumens  
Efficiency: N/A  
Efficacy: 87.6 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°	5212	5212	5212
5°	5171	5201	5164
10°	5176	5198	5161
15°	5168	5188	5156
20°	5167	5172	5131
25°	5155	5146	5098
30°	5134	5111	5061
35°	5106	5067	5016
40°	5077	5015	4964
45°	5015	4945	4893
50°	4950	4859	4802
55°	4825	4712	4667
60°	4638	4508	4470
65°	4344	4216	4170
70°	3917	3759	3727
75°	3283	3117	3084
80°	2385	2224	2162
85°	1263	1115	1016

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5015 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.4	3.4
10°-20°	526.8	9.7
20°-30°	800.3	14.8
30°-40°	968.1	17.9
40°-50°	1006.2	18.6
50°-60°	900.9	16.6
60°-70°	657.1	12.1
70°-80°	323.6	6.0
80°-90°	54.1	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°	1510.6	27.9
0°-40°	2478.7	45.7
0°-60°	4385.7	80.9
0°-90°	5420.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5420.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1914	1935	1925	1944	1912	182
15°	1855	1872	1862	1878	1851	524
25°	1736	1745	1733	1741	1717	800
35°	1554	1558	1542	1549	1527	973
45°	1318	1316	1299	1302	1286	1017
55°	1028	1020	1004	1002	995	918
65°	682	674	662	657	655	674
75°	316	310	300	297	297	337
85°	41	39	36	32	33	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1936.7	1936.7	1936.7	1936.7	1936.7
2.5°	1919.8	1941.5	1931.0	1950.3	1915.8
5°	1914.2	1935.1	1925.4	1943.9	1911.8
7.5°	1904.6	1926.2	1915.8	1933.5	1903.0
10°	1894.2	1913.4	1902.2	1919.8	1888.6
12.5°	1875.7	1895.0	1884.6	1900.6	1871.7
15°	1854.9	1871.7	1862.1	1878.1	1850.9
17.5°	1830.8	1846.9	1836.5	1850.9	1823.6
20°	1804.4	1817.2	1806.0	1818.0	1791.6
22.5°	1771.5	1783.6	1771.5	1779.5	1756.3
25°	1736.3	1745.1	1733.1	1741.1	1717.0
27.5°	1698.6	1703.4	1691.4	1697.8	1672.9
30°	1652.1	1657.7	1644.9	1652.9	1628.8
32.5°	1607.2	1610.4	1596.0	1602.4	1580.7
35°	1554.3	1557.5	1542.3	1548.7	1527.0
37.5°	1503.8	1503.0	1487.0	1491.0	1472.5
40°	1445.3	1444.5	1427.6	1430.9	1413.2
42.5°	1385.2	1382.0	1365.9	1367.5	1351.5
45°	1317.8	1316.2	1299.4	1301.8	1285.8
47.5°	1252.9	1248.1	1231.3	1232.1	1218.4
50°	1182.4	1175.1	1160.7	1159.1	1147.1
52.5°	1107.0	1099.0	1083.0	1081.4	1072.5
55°	1028.4	1019.6	1004.4	1002.0	994.8
57.5°	947.5	936.3	924.2	919.4	913.8
60°	861.7	851.3	837.7	832.9	830.5
62.5°	772.7	762.3	751.9	747.1	743.9
65°	682.2	674.1	662.1	657.3	654.9
67.5°	590.0	582.8	571.5	565.9	565.1
70°	497.8	490.6	477.8	474.5	473.7
72.5°	405.6	399.2	387.2	384.0	384.0
75°	315.8	310.2	299.8	296.6	296.6
77.5°	230.9	226.1	218.0	214.0	214.0
80°	153.9	150.7	143.5	140.3	139.5
82.5°	89.0	87.4	81.0	77.8	79.4
85°	40.9	39.3	36.1	32.1	32.9
87.5°	10.4	9.6	7.2	5.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)