

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: P973188

Luminaire Tested: FLR2-14-80HE-L935-CA125

Issue Date: 3/13/2025

**Test Information**

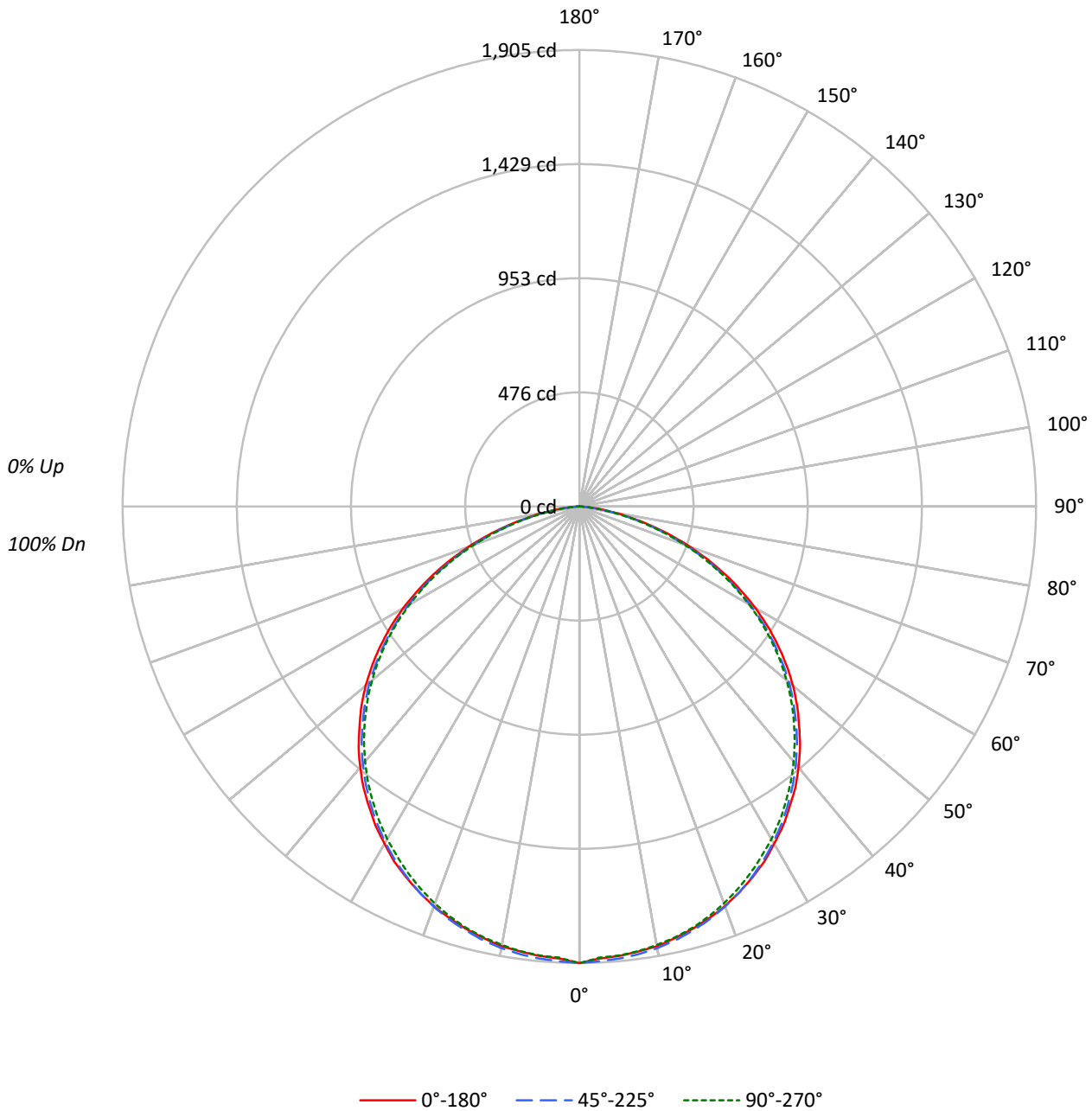
Test Method: LM-79-2019  
Report Number: P973188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-80HE-L935-CA125  
Description: 1\*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Arylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5332.9 lumens  
Efficiency: N/A  
Efficacy: 86.2 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5127	5127	5127
5°	5087	5117	5081
10°	5092	5114	5077
15°	5084	5104	5073
20°	5084	5088	5048
25°	5072	5063	5016
30°	5051	5029	4979
35°	5024	4985	4936
40°	4995	4934	4884
45°	4934	4865	4814
50°	4870	4781	4725
55°	4747	4636	4592
60°	4563	4435	4397
65°	4273	4148	4103
70°	3854	3698	3667
75°	3230	3067	3034
80°	2346	2188	2126
85°	1241	1096	997

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4934 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.5	3.4
10°-20°	518.3	9.7
20°-30°	787.4	14.8
30°-40°	952.5	17.9
40°-50°	989.9	18.6
50°-60°	886.3	16.6
60°-70°	646.5	12.1
70°-80°	318.3	6.0
80°-90°	53.2	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°	1486.2	27.9
0°-40°	2438.7	45.7
0°-60°	4314.9	80.9
0°-90°	5332.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5332.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1883	1904	1894	1912	1881	179
15°	1825	1842	1832	1848	1821	515
25°	1708	1717	1705	1713	1689	787
35°	1529	1532	1517	1524	1502	958
45°	1296	1295	1278	1281	1265	1001
55°	1012	1003	988	986	979	903
65°	671	663	651	647	644	663
75°	311	305	295	292	292	331
85°	40	39	36	32	32	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1905.4	1905.4	1905.4	1905.4	1905.4
2.5°	1888.8	1910.1	1899.9	1918.8	1884.9
5°	1883.3	1903.8	1894.3	1912.5	1880.9
7.5°	1873.8	1895.1	1884.9	1902.2	1872.3
10°	1863.6	1882.5	1871.5	1888.8	1858.1
12.5°	1845.5	1864.4	1854.1	1869.9	1841.5
15°	1824.9	1841.5	1832.0	1847.8	1821.0
17.5°	1801.3	1817.1	1806.8	1821.0	1794.2
20°	1775.3	1787.9	1776.8	1788.7	1762.6
22.5°	1742.9	1754.8	1742.9	1750.8	1727.9
25°	1708.2	1716.9	1705.1	1713.0	1689.3
27.5°	1671.2	1675.9	1664.1	1670.4	1645.9
30°	1625.4	1630.9	1618.3	1626.2	1602.5
32.5°	1581.3	1584.4	1570.2	1576.5	1555.2
35°	1529.2	1532.4	1517.4	1523.7	1502.4
37.5°	1479.5	1478.7	1463.0	1466.9	1448.8
40°	1421.9	1421.2	1404.6	1407.7	1390.4
42.5°	1362.8	1359.6	1343.9	1345.4	1329.7
45°	1296.5	1295.0	1278.4	1280.8	1265.0
47.5°	1232.7	1227.9	1211.4	1212.2	1198.8
50°	1163.3	1156.2	1142.0	1140.4	1128.6
52.5°	1089.1	1081.2	1065.5	1063.9	1055.2
55°	1011.8	1003.2	988.2	985.8	978.7
57.5°	932.2	921.1	909.3	904.6	899.1
60°	847.8	837.6	824.1	819.4	817.0
62.5°	760.3	750.0	739.8	735.0	731.9
65°	671.1	663.3	651.4	646.7	644.3
67.5°	580.5	573.4	562.3	556.8	556.0
70°	489.8	482.7	470.0	466.9	466.1
72.5°	399.1	392.8	380.9	377.8	377.8
75°	310.7	305.2	295.0	291.8	291.8
77.5°	227.1	222.4	214.5	210.6	210.6
80°	151.4	148.3	141.2	138.0	137.2
82.5°	87.5	86.0	79.7	76.5	78.1
85°	40.2	38.6	35.5	31.5	32.3
87.5°	10.3	9.5	7.1	5.5	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)