

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: P973183

Luminaire Tested: FLR2-14-80HE-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973183
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-CA080
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

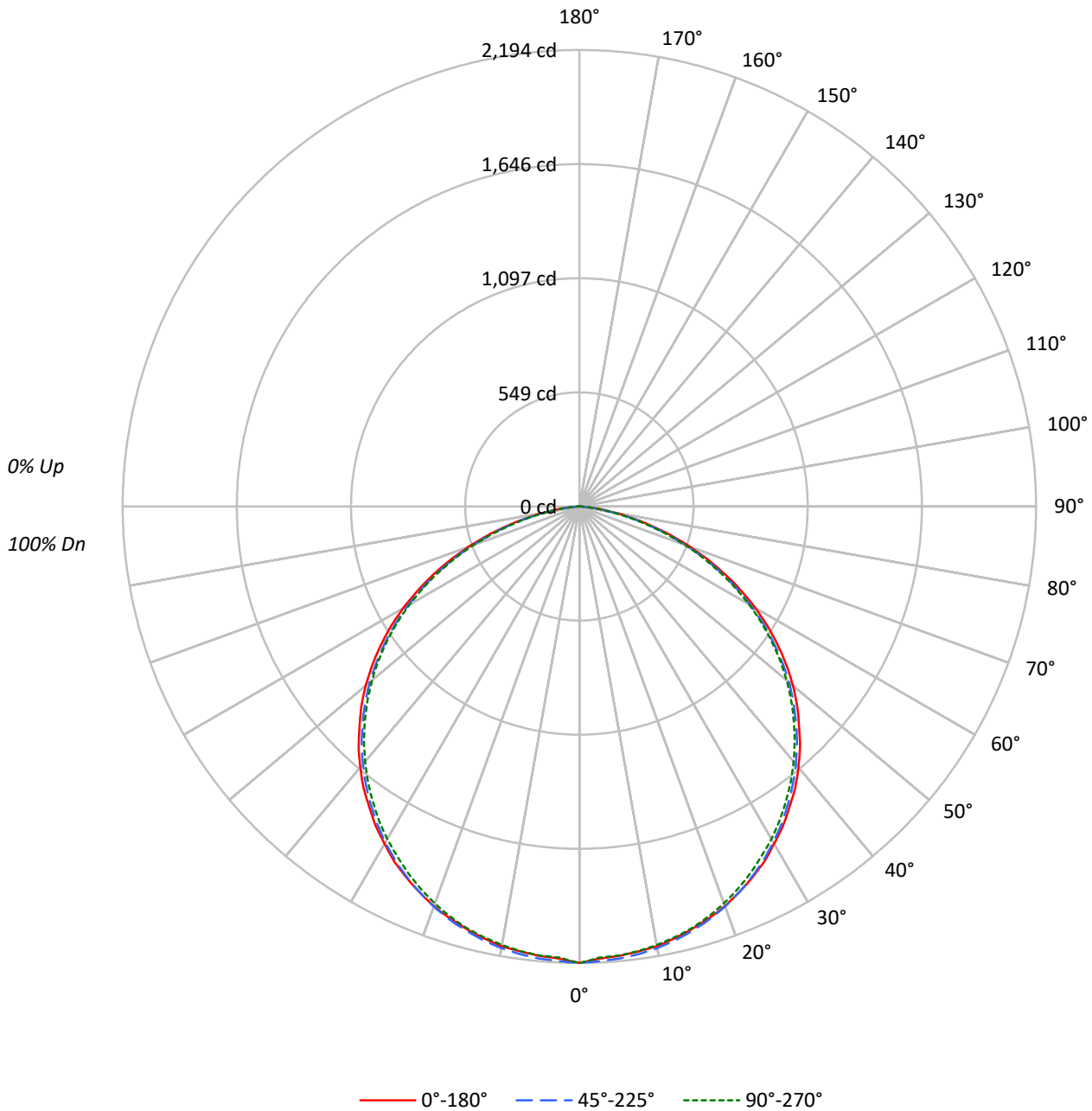
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6141.4 lumens
Efficiency: N/A
Efficacy: 99.2 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

TEST NUMBER: P973183
CATALOG NUMBER: FLR2-14-80HE-L935-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P973183
 CATALOG NUMBER: FLR2-14-80HE-L935-CA080

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	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°	5905	5905	5905
5°	5858	5893	5851
10°	5864	5889	5847
15°	5855	5878	5842
20°	5855	5860	5813
25°	5841	5830	5776
30°	5817	5791	5734
35°	5785	5740	5684
40°	5752	5682	5625
45°	5682	5603	5544
50°	5608	5506	5441
55°	5467	5339	5288
60°	5254	5108	5064
65°	4921	4777	4725
70°	4437	4259	4223
75°	3720	3532	3493
80°	2703	2520	2448
85°	1430	1263	1149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5682 cd/sqm



TEST NUMBER: P973183
 CATALOG NUMBER: FLR2-14-80HE-L935-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	3.4
10°-20°	596.9	9.7
20°-30°	906.8	14.8
30°-40°	1096.9	17.9
40°-50°	1140.0	18.6
50°-60°	1020.7	16.6
60°-70°	744.5	12.1
70°-80°	366.6	6.0
80°-90°	61.3	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°	1711.5	27.9
0°-40°	2808.4	45.7
0°-60°	4969.1	80.9
0°-90°	6141.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6141.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2194	2194	2194	2194	2194	
5°	2169	2192	2182	2202	2166	206
15°	2102	2121	2110	2128	2097	594
25°	1967	1977	1964	1973	1945	907
35°	1761	1765	1747	1755	1730	1103
45°	1493	1491	1472	1475	1457	1153
55°	1165	1155	1138	1135	1127	1040
65°	773	764	750	745	742	763
75°	358	352	340	336	336	381
85°	46	44	41	36	37	67
90°	0	0	0	0	0	



TEST NUMBER: P973183
 CATALOG NUMBER: FLR2-14-80HE-L935-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2194.3	2194.3	2194.3	2194.3	2194.3
2.5°	2175.2	2199.7	2187.9	2209.7	2170.7
5°	2168.8	2192.5	2181.6	2202.4	2166.1
7.5°	2157.9	2182.5	2170.7	2190.6	2156.1
10°	2146.1	2167.9	2155.2	2175.2	2139.8
12.5°	2125.3	2147.0	2135.2	2153.4	2120.7
15°	2101.6	2120.7	2109.8	2128.0	2097.1
17.5°	2074.4	2092.6	2080.7	2097.1	2066.2
20°	2044.4	2058.9	2046.2	2059.9	2029.9
22.5°	2007.2	2020.8	2007.2	2016.3	1989.9
25°	1967.2	1977.2	1963.6	1972.7	1945.4
27.5°	1924.5	1930.0	1916.4	1923.6	1895.5
30°	1871.9	1878.2	1863.7	1872.8	1845.5
32.5°	1821.0	1824.6	1808.3	1815.5	1791.0
35°	1761.1	1764.7	1747.4	1754.7	1730.2
37.5°	1703.8	1702.9	1684.8	1689.3	1668.4
40°	1637.5	1636.6	1617.6	1621.2	1601.2
42.5°	1569.4	1565.8	1547.6	1549.4	1531.3
45°	1493.1	1491.3	1472.2	1475.0	1456.8
47.5°	1419.6	1414.1	1395.0	1395.9	1380.5
50°	1339.6	1331.5	1315.1	1313.3	1299.7
52.5°	1254.3	1245.2	1227.0	1225.2	1215.2
55°	1165.3	1155.3	1138.0	1135.3	1127.1
57.5°	1073.5	1060.8	1047.2	1041.7	1035.4
60°	976.3	964.5	949.1	943.6	940.9
62.5°	875.5	863.7	851.9	846.5	842.8
65°	772.9	763.8	750.2	744.7	742.0
67.5°	668.5	660.3	647.6	641.2	640.3
70°	564.0	555.8	541.3	537.7	536.8
72.5°	459.6	452.3	438.7	435.0	435.0
75°	357.8	351.5	339.7	336.0	336.0
77.5°	261.6	256.1	247.0	242.5	242.5
80°	174.4	170.7	162.6	158.9	158.0
82.5°	100.8	99.0	91.7	88.1	89.9
85°	46.3	44.5	40.9	36.3	37.2
87.5°	11.8	10.9	8.2	6.4	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)