

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: P973263

Luminaire Tested: FLR2-14-80HE-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973263
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-L850-CP080
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 80CRI with Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

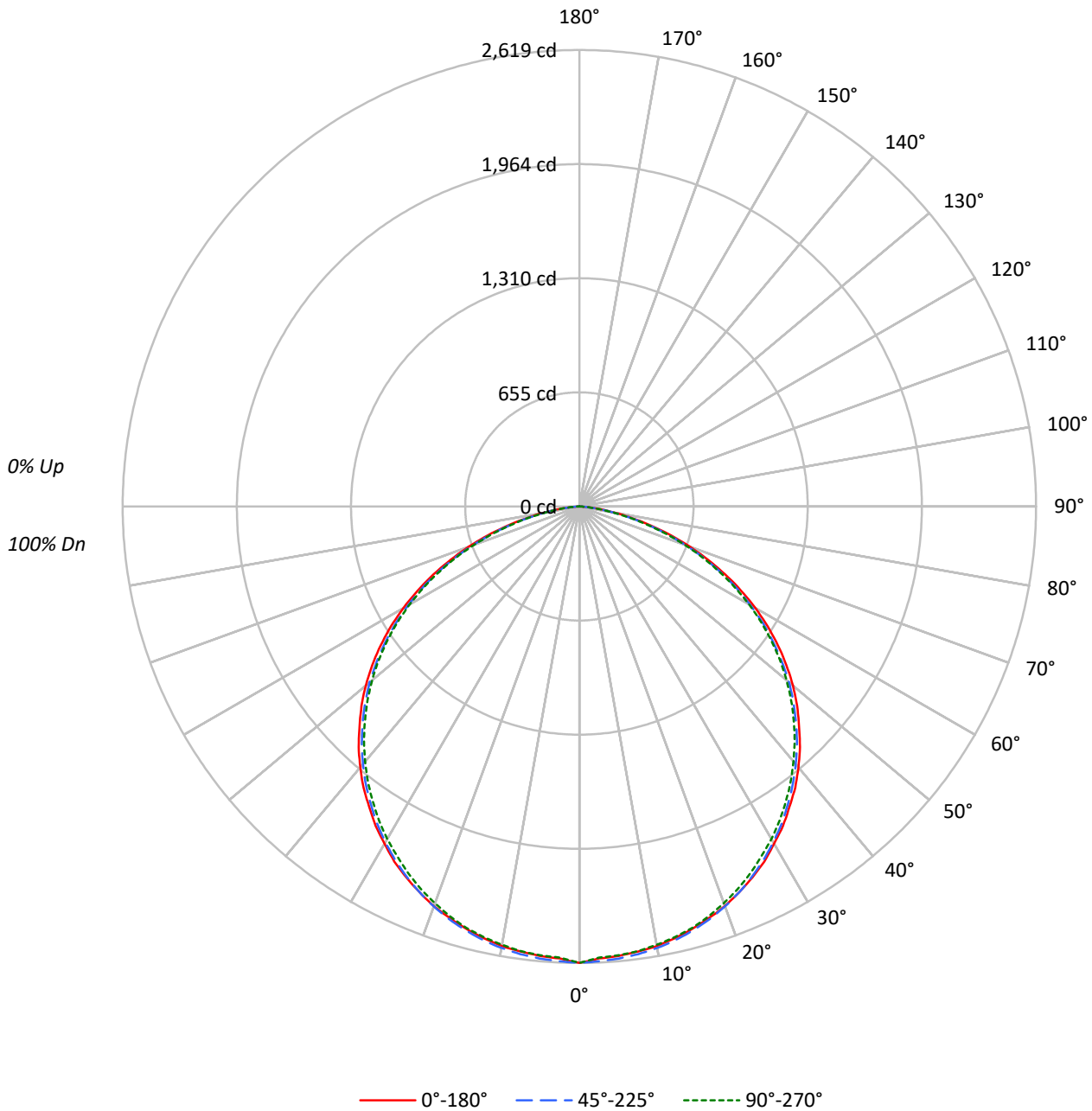
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7330.1 lumens
Efficiency: N/A
Efficacy: 118.4 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°	7048	7048	7048
5°	6992	7034	6984
10°	6999	7029	6979
15°	6988	7015	6973
20°	6988	6994	6938
25°	6972	6959	6894
30°	6942	6912	6844
35°	6905	6851	6784
40°	6866	6782	6713
45°	6782	6687	6617
50°	6694	6571	6494
55°	6525	6373	6312
60°	6272	6097	6044
65°	5874	5701	5639
70°	5297	5083	5040
75°	4441	4215	4170
80°	3225	3006	2923
85°	1707	1507	1371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.1	3.4
10°-20°	712.4	9.7
20°-30°	1082.3	14.8
30°-40°	1309.2	17.9
40°-50°	1360.6	18.6
50°-60°	1218.2	16.6
60°-70°	888.5	12.1
70°-80°	437.5	6.0
80°-90°	73.2	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°	2042.8	27.9
0°-40°	3352.0	45.7
0°-60°	5930.8	80.9
0°-90°	7330.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7330.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2619	2619	2619	2619	2619	
5°	2589	2617	2604	2629	2585	246
15°	2508	2531	2518	2540	2503	708
25°	2348	2360	2344	2354	2322	1082
35°	2102	2106	2086	2094	2065	1316
45°	1782	1780	1757	1760	1739	1376
55°	1391	1379	1358	1355	1345	1241
65°	922	912	895	889	886	911
75°	427	420	405	401	401	455
85°	55	53	49	43	44	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2619.0	2619.0	2619.0	2619.0	2619.0
2.5°	2596.2	2625.5	2611.4	2637.4	2590.8
5°	2588.6	2616.8	2603.8	2628.7	2585.4
7.5°	2575.6	2604.9	2590.8	2614.6	2573.4
10°	2561.5	2587.5	2572.3	2596.2	2553.9
12.5°	2536.6	2562.6	2548.5	2570.2	2531.2
15°	2508.4	2531.2	2518.1	2539.8	2503.0
17.5°	2475.9	2497.5	2483.5	2503.0	2466.1
20°	2440.1	2457.4	2442.3	2458.5	2422.8
22.5°	2395.7	2411.9	2395.7	2406.5	2375.1
25°	2348.0	2359.9	2343.6	2354.5	2321.9
27.5°	2297.0	2303.5	2287.3	2295.9	2262.3
30°	2234.1	2241.7	2224.4	2235.2	2202.7
32.5°	2173.4	2177.8	2158.3	2166.9	2137.7
35°	2101.9	2106.2	2085.6	2094.3	2065.0
37.5°	2033.6	2032.5	2010.8	2016.3	1991.3
40°	1954.5	1953.4	1930.6	1935.0	1911.1
42.5°	1873.2	1868.8	1847.1	1849.3	1827.6
45°	1782.1	1779.9	1757.2	1760.4	1738.7
47.5°	1694.3	1687.8	1665.0	1666.1	1647.7
50°	1598.9	1589.2	1569.6	1567.5	1551.2
52.5°	1497.0	1486.2	1464.5	1462.3	1450.4
55°	1390.8	1378.9	1358.3	1355.0	1345.3
57.5°	1281.3	1266.1	1249.9	1243.4	1235.8
60°	1165.3	1151.2	1132.8	1126.3	1123.0
62.5°	1045.0	1030.9	1016.8	1010.3	1006.0
65°	922.5	911.6	895.4	888.9	885.6
67.5°	797.8	788.1	772.9	765.3	764.2
70°	673.2	663.4	646.1	641.7	640.6
72.5°	548.5	539.8	523.6	519.2	519.2
75°	427.1	419.5	405.4	401.1	401.1
77.5°	312.2	305.7	294.8	289.4	289.4
80°	208.1	203.8	194.0	189.7	188.6
82.5°	120.3	118.2	109.5	105.1	107.3
85°	55.3	53.1	48.8	43.4	44.4
87.5°	14.1	13.0	9.8	7.6	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)