

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: P973268

Luminaire Tested: FLR2-14-80HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973268
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-CP125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

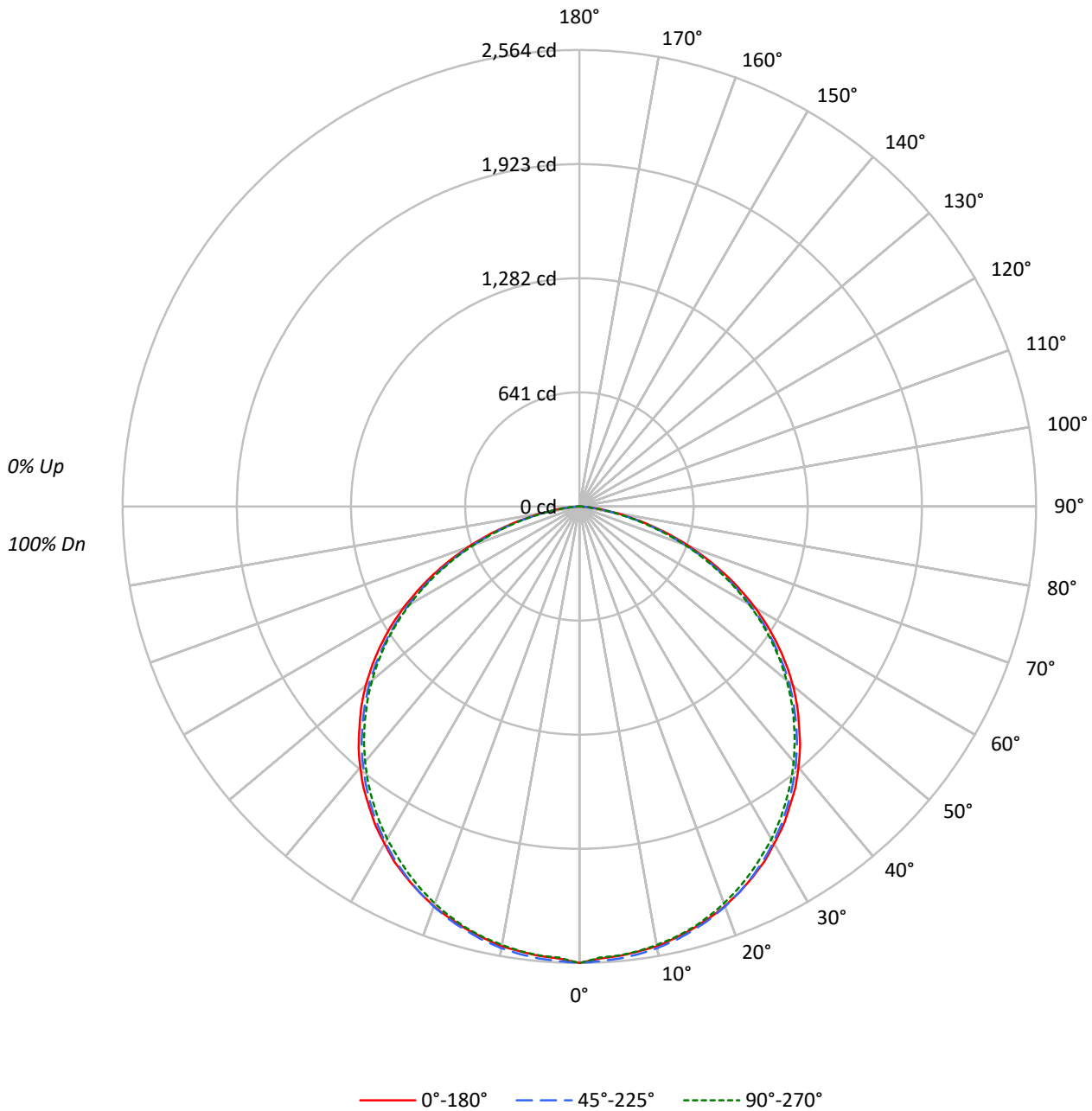
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7177.6 lumens
Efficiency: N/A
Efficacy: 116.0 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°	6901	6901	6901
5°	6847	6887	6838
10°	6854	6883	6833
15°	6843	6869	6828
20°	6842	6848	6794
25°	6826	6814	6751
30°	6797	6768	6702
35°	6761	6709	6643
40°	6723	6641	6574
45°	6641	6548	6479
50°	6554	6435	6359
55°	6389	6240	6180
60°	6141	5970	5919
65°	5752	5583	5522
70°	5187	4977	4936
75°	4348	4128	4083
80°	3158	2944	2862
85°	1670	1476	1343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	3.4
10°-20°	697.6	9.7
20°-30°	1059.8	14.8
30°-40°	1281.9	17.9
40°-50°	1332.3	18.6
50°-60°	1192.9	16.6
60°-70°	870.1	12.1
70°-80°	428.4	6.0
80°-90°	71.7	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°	2000.2	27.9
0°-40°	3282.2	45.7
0°-60°	5807.4	80.9
0°-90°	7177.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7177.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2564	2564	2564	2564	2564	
5°	2535	2562	2550	2574	2532	241
15°	2456	2478	2466	2487	2451	694
25°	2299	2311	2295	2306	2274	1060
35°	2058	2062	2042	2051	2022	1289
45°	1745	1743	1721	1724	1703	1347
55°	1362	1350	1330	1327	1317	1216
65°	903	893	877	870	867	892
75°	418	411	397	393	393	446
85°	54	52	48	42	44	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2564.5	2564.5	2564.5	2564.5	2564.5
2.5°	2542.2	2570.8	2557.0	2582.5	2536.9
5°	2534.7	2562.3	2549.6	2574.0	2531.5
7.5°	2522.0	2550.7	2536.9	2560.2	2519.9
10°	2508.2	2533.7	2518.8	2542.2	2500.8
12.5°	2483.8	2509.3	2495.5	2516.7	2478.5
15°	2456.2	2478.5	2465.7	2487.0	2450.9
17.5°	2424.3	2445.6	2431.8	2450.9	2414.8
20°	2389.3	2406.3	2391.4	2407.4	2372.3
22.5°	2345.8	2361.7	2345.8	2356.4	2325.6
25°	2299.1	2310.8	2294.8	2305.5	2273.6
27.5°	2249.2	2255.6	2239.7	2248.1	2215.2
30°	2187.6	2195.1	2178.1	2188.7	2156.9
32.5°	2128.2	2132.4	2113.3	2121.8	2093.2
35°	2058.1	2062.4	2042.2	2050.7	2022.1
37.5°	1991.3	1990.2	1969.0	1974.3	1949.9
40°	1913.8	1912.7	1890.4	1894.7	1871.3
42.5°	1834.2	1829.9	1808.7	1810.8	1789.6
45°	1745.0	1742.9	1720.6	1723.8	1702.6
47.5°	1659.0	1652.7	1630.4	1631.4	1613.4
50°	1565.6	1556.1	1537.0	1534.9	1518.9
52.5°	1465.9	1455.2	1434.0	1431.9	1420.2
55°	1361.8	1350.2	1330.0	1326.8	1317.3
57.5°	1254.6	1239.8	1223.8	1217.5	1210.0
60°	1141.1	1127.3	1109.2	1102.8	1099.7
62.5°	1023.2	1009.4	995.6	989.3	985.0
65°	903.3	892.7	876.8	870.4	867.2
67.5°	781.2	771.7	756.8	749.4	748.3
70°	659.2	649.6	632.6	628.4	627.3
72.5°	537.1	528.6	512.7	508.4	508.4
75°	418.2	410.8	397.0	392.7	392.7
77.5°	305.7	299.3	288.7	283.4	283.4
80°	203.8	199.6	190.0	185.8	184.7
82.5°	117.8	115.7	107.2	103.0	105.1
85°	54.1	52.0	47.8	42.5	43.5
87.5°	13.8	12.7	9.6	7.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)