

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: P973293

Luminaire Tested: FLR2-14-80HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973293
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-CA125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 80CRI with Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

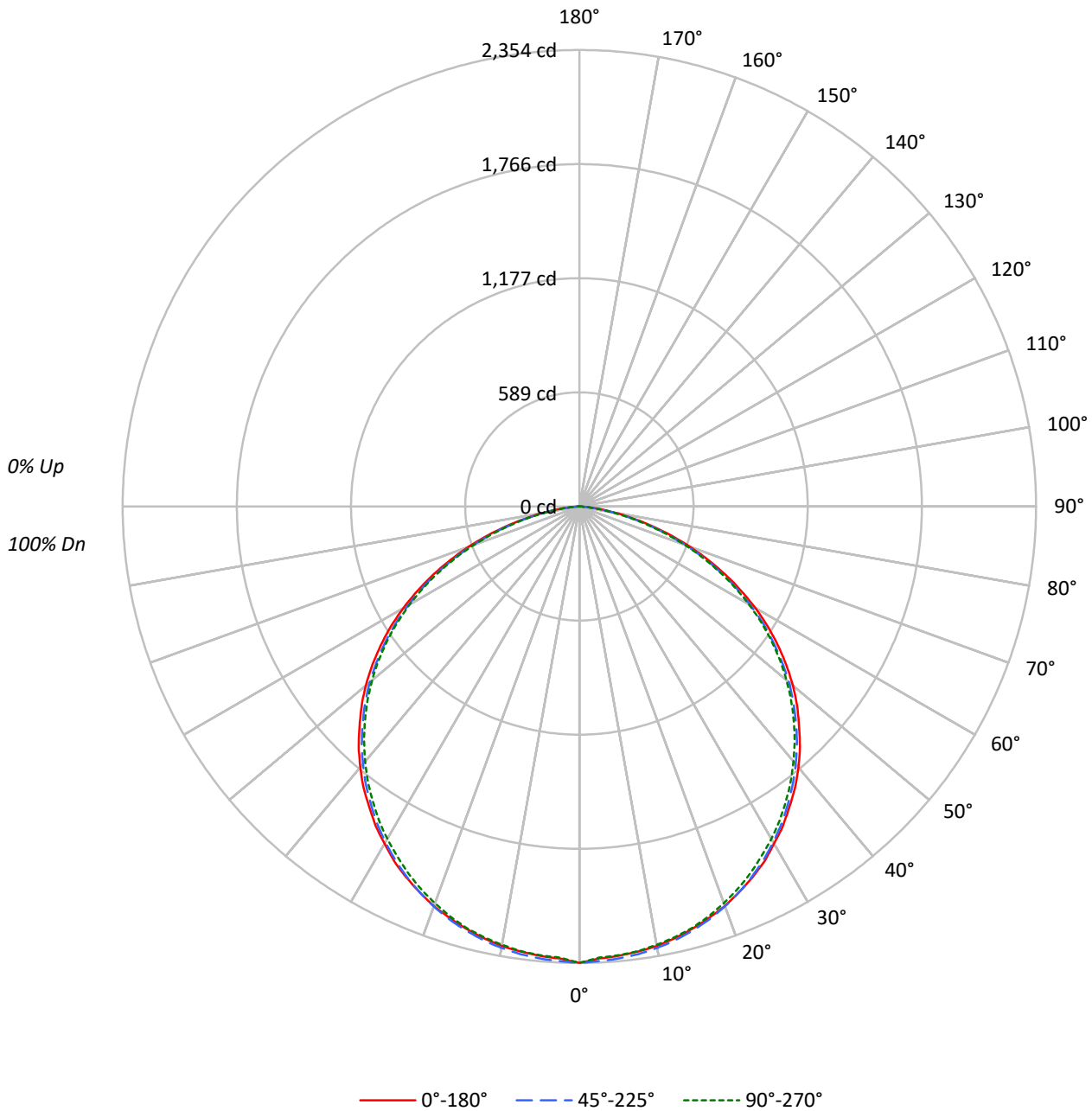
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6587.7 lumens
Efficiency: N/A
Efficacy: 106.4 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°	6334	6334	6334
5°	6284	6321	6276
10°	6290	6317	6272
15°	6280	6305	6267
20°	6280	6285	6235
25°	6266	6254	6196
30°	6239	6212	6151
35°	6206	6158	6097
40°	6170	6095	6034
45°	6095	6010	5947
50°	6016	5906	5836
55°	5864	5727	5672
60°	5637	5479	5432
65°	5279	5124	5068
70°	4760	4568	4530
75°	3990	3789	3748
80°	2899	2703	2627
85°	1535	1352	1232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6095 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.0	3.4
10°-20°	640.2	9.7
20°-30°	972.7	14.8
30°-40°	1176.6	17.9
40°-50°	1222.9	18.6
50°-60°	1094.9	16.6
60°-70°	798.6	12.1
70°-80°	393.2	6.0
80°-90°	65.8	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°	1835.9	27.9
0°-40°	3012.5	45.7
0°-60°	5330.2	80.9
0°-90°	6587.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6587.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2354	2354	2354	2354	2354	
5°	2326	2352	2340	2362	2324	221
15°	2254	2275	2263	2283	2250	637
25°	2110	2121	2106	2116	2087	973
35°	1889	1893	1874	1882	1856	1183
45°	1602	1600	1579	1582	1563	1237
55°	1250	1239	1221	1218	1209	1116
65°	829	819	805	799	796	819
75°	384	377	364	360	360	409
85°	50	48	44	39	40	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2353.7	2353.7	2353.7	2353.7	2353.7
2.5°	2333.3	2359.6	2346.9	2370.3	2328.4
5°	2326.4	2351.8	2340.1	2362.5	2323.5
7.5°	2314.7	2341.1	2328.4	2349.8	2312.8
10°	2302.1	2325.5	2311.8	2333.3	2295.3
12.5°	2279.7	2303.1	2290.4	2309.9	2274.8
15°	2254.3	2274.8	2263.1	2282.6	2249.5
17.5°	2225.1	2244.6	2231.9	2249.5	2216.4
20°	2193.0	2208.6	2194.9	2209.5	2177.4
22.5°	2153.0	2167.6	2153.0	2162.8	2134.5
25°	2110.2	2120.9	2106.3	2116.0	2086.8
27.5°	2064.4	2070.2	2055.6	2063.4	2033.2
30°	2007.9	2014.7	1999.1	2008.8	1979.6
32.5°	1953.3	1957.2	1939.7	1947.5	1921.2
35°	1889.0	1892.9	1874.4	1882.2	1855.9
37.5°	1827.6	1826.7	1807.2	1812.1	1789.6
40°	1756.5	1755.5	1735.1	1739.0	1717.6
42.5°	1683.5	1679.6	1660.1	1662.0	1642.5
45°	1601.6	1599.7	1579.2	1582.1	1562.7
47.5°	1522.7	1516.9	1496.4	1497.4	1480.8
50°	1437.0	1428.2	1410.7	1408.7	1394.1
52.5°	1345.4	1335.7	1316.2	1314.2	1303.5
55°	1249.9	1239.2	1220.7	1217.8	1209.0
57.5°	1151.5	1137.9	1123.3	1117.4	1110.6
60°	1047.3	1034.6	1018.1	1012.2	1009.3
62.5°	939.1	926.5	913.8	908.0	904.1
65°	829.1	819.3	804.7	798.9	795.9
67.5°	717.0	708.3	694.6	687.8	686.8
70°	605.0	596.2	580.6	576.7	575.8
72.5°	493.0	485.2	470.5	466.7	466.7
75°	383.8	377.0	364.4	360.5	360.5
77.5°	280.6	274.7	265.0	260.1	260.1
80°	187.1	183.2	174.4	170.5	169.5
82.5°	108.1	106.2	98.4	94.5	96.4
85°	49.7	47.7	43.8	39.0	39.9
87.5°	12.7	11.7	8.8	6.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)