

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: P973287

Luminaire Tested: FLR2-14-70HE-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973287
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: FLR2-14-70HE-L850-CA080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 80CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

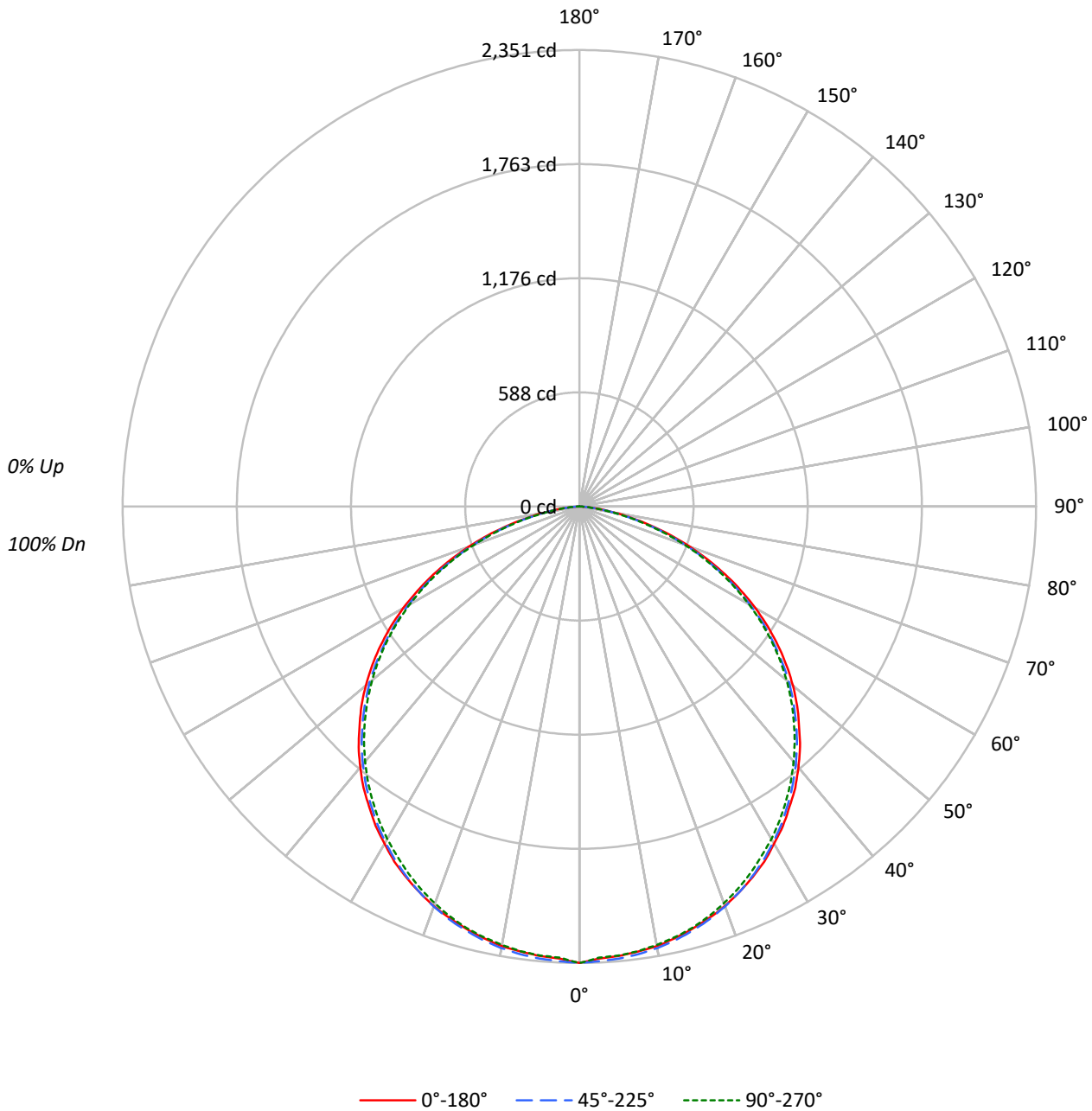
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6580.6 lumens
Efficiency: N/A
Efficacy: 125.3 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): 52.5
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	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	
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°	6327	6327	6327
5°	6277	6314	6270
10°	6284	6310	6265
15°	6274	6298	6260
20°	6273	6279	6229
25°	6259	6247	6189
30°	6232	6205	6145
35°	6199	6151	6090
40°	6164	6088	6027
45°	6089	6003	5941
50°	6009	5900	5830
55°	5858	5721	5666
60°	5631	5473	5426
65°	5273	5118	5063
70°	4755	4563	4525
75°	3986	3785	3744
80°	2895	2700	2624
85°	1531	1352	1232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6089 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	3.4
10°-20°	639.6	9.7
20°-30°	971.6	14.8
30°-40°	1175.3	17.9
40°-50°	1221.5	18.6
50°-60°	1093.7	16.6
60°-70°	797.7	12.1
70°-80°	392.8	6.0
80°-90°	65.7	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°	1833.9	27.9
0°-40°	3009.2	45.7
0°-60°	5324.4	80.9
0°-90°	6580.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6580.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2351	2351	2351	2351	2351	
5°	2324	2349	2338	2360	2321	221
15°	2252	2272	2261	2280	2247	636
25°	2108	2119	2104	2114	2084	972
35°	1887	1891	1872	1880	1854	1182
45°	1600	1598	1578	1580	1561	1235
55°	1249	1238	1219	1216	1208	1114
65°	828	818	804	798	795	818
75°	383	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°	2351.2	2351.2	2351.2	2351.2	2351.2
2.5°	2330.7	2357.0	2344.4	2367.7	2325.9
5°	2323.9	2349.2	2337.6	2359.9	2321.0
7.5°	2312.3	2338.5	2325.9	2347.3	2310.3
10°	2299.6	2323.0	2309.3	2330.7	2292.8
12.5°	2277.2	2300.6	2287.9	2307.4	2272.4
15°	2251.9	2272.4	2260.7	2280.1	2247.1
17.5°	2222.7	2242.2	2229.5	2247.1	2214.0
20°	2190.6	2206.2	2192.6	2207.2	2175.0
22.5°	2150.7	2165.3	2150.7	2160.4	2132.2
25°	2107.9	2118.6	2104.0	2113.7	2084.5
27.5°	2062.2	2068.0	2053.4	2061.2	2031.0
30°	2005.7	2012.5	1996.9	2006.7	1977.5
32.5°	1951.2	1955.1	1937.6	1945.4	1919.1
35°	1887.0	1890.9	1872.4	1880.2	1853.9
37.5°	1825.7	1824.7	1805.2	1810.1	1787.7
40°	1754.6	1753.7	1733.2	1737.1	1715.7
42.5°	1681.6	1677.7	1658.3	1660.2	1640.8
45°	1599.9	1597.9	1577.5	1580.4	1561.0
47.5°	1521.1	1515.2	1494.8	1495.8	1479.2
50°	1435.4	1426.7	1409.2	1407.2	1392.6
52.5°	1343.9	1334.2	1314.8	1312.8	1302.1
55°	1248.6	1237.9	1219.4	1216.5	1207.7
57.5°	1150.3	1136.7	1122.1	1116.2	1109.4
60°	1046.2	1033.5	1017.0	1011.1	1008.2
62.5°	938.1	925.5	912.8	907.0	903.1
65°	828.2	818.4	803.8	798.0	795.1
67.5°	716.3	707.5	693.9	687.1	686.1
70°	604.3	595.6	580.0	576.1	575.1
72.5°	492.4	484.6	470.0	466.1	466.1
75°	383.4	376.6	364.0	360.1	360.1
77.5°	280.3	274.4	264.7	259.8	259.8
80°	186.8	183.0	174.2	170.3	169.3
82.5°	108.0	106.1	98.3	94.4	96.3
85°	49.6	47.7	43.8	38.9	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)