

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: P973217

Luminaire Tested: FLR2-14-70HE-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973217
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-L840-CA080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 4000CCT & 80CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

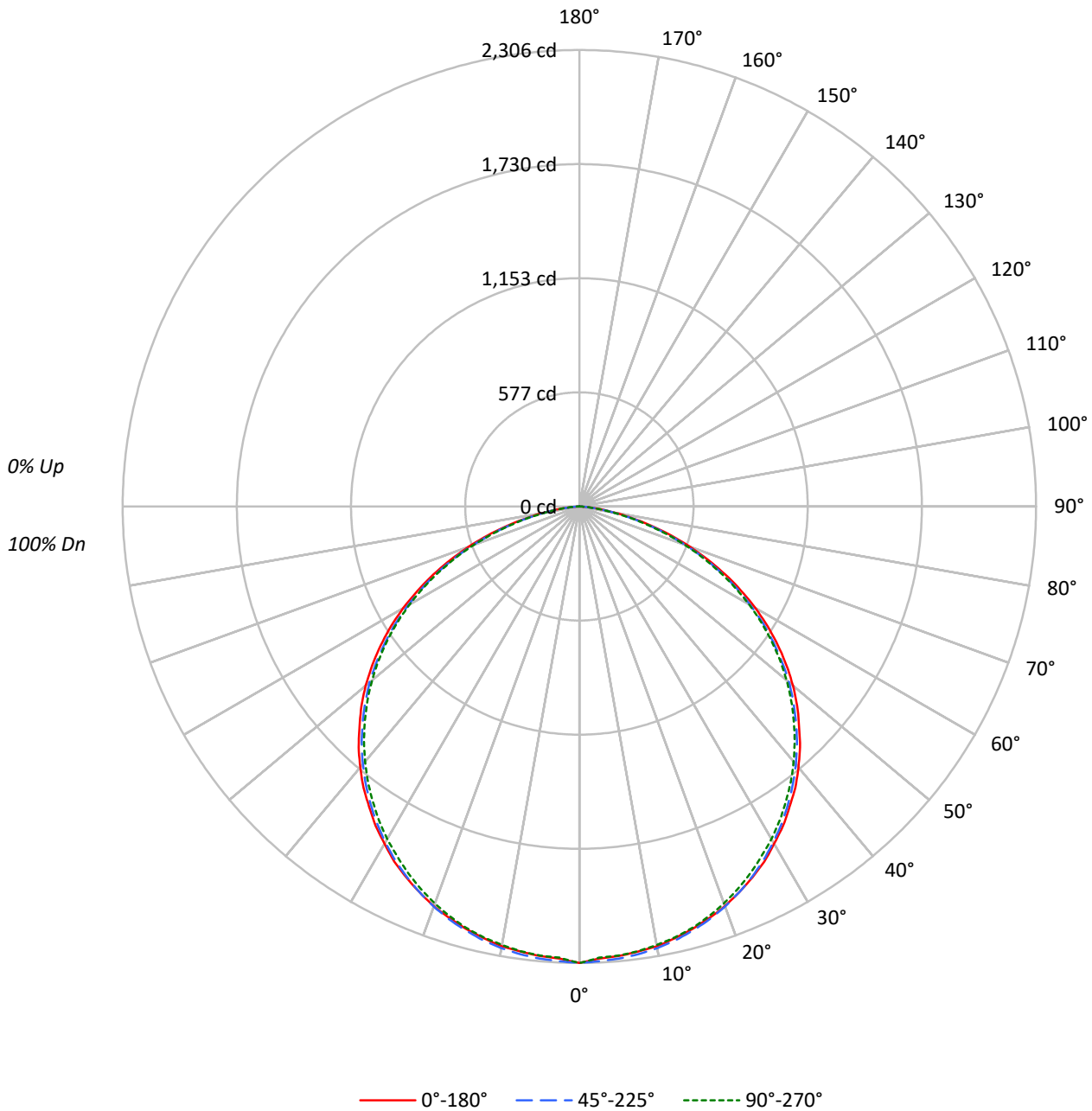
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6455.3 lumens
Efficiency: N/A
Efficacy: 123.0 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): 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									
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	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°	6206	6206	6206
5°	6158	6194	6150
10°	6164	6190	6146
15°	6154	6178	6141
20°	6154	6159	6110
25°	6139	6128	6071
30°	6114	6087	6027
35°	6081	6034	5974
40°	6046	5973	5912
45°	5973	5889	5827
50°	5895	5787	5719
55°	5746	5612	5558
60°	5523	5369	5323
65°	5173	5021	4966
70°	4664	4477	4439
75°	3910	3712	3672
80°	2841	2648	2574
85°	1504	1328	1207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5973 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	3.4
10°-20°	627.4	9.7
20°-30°	953.1	14.8
30°-40°	1152.9	17.9
40°-50°	1198.3	18.6
50°-60°	1072.8	16.6
60°-70°	782.5	12.1
70°-80°	385.3	6.0
80°-90°	64.5	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°	1799.0	27.9
0°-40°	2951.9	45.7
0°-60°	5223.0	80.9
0°-90°	6455.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6455.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2306	2306	2306	2306	2306	
5°	2280	2304	2293	2315	2277	217
15°	2209	2229	2218	2237	2204	624
25°	2068	2078	2064	2074	2045	953
35°	1851	1855	1837	1844	1819	1159
45°	1569	1568	1548	1550	1531	1212
55°	1225	1214	1196	1193	1185	1093
65°	812	803	788	783	780	802
75°	376	369	357	353	353	401
85°	49	47	43	38	39	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2286.4	2312.1	2299.7	2322.6	2281.6
5°	2279.7	2304.5	2293.0	2315.0	2276.8
7.5°	2268.2	2294.0	2281.6	2302.6	2266.3
10°	2255.8	2278.7	2265.3	2286.4	2249.1
12.5°	2233.8	2256.8	2244.3	2263.4	2229.1
15°	2209.0	2229.1	2217.6	2236.7	2204.3
17.5°	2180.4	2199.5	2187.1	2204.3	2171.8
20°	2148.9	2164.2	2150.8	2165.1	2133.6
22.5°	2109.7	2124.1	2109.7	2119.3	2091.6
25°	2067.7	2078.2	2063.9	2073.5	2044.8
27.5°	2022.9	2028.6	2014.3	2021.9	1992.3
30°	1967.5	1974.2	1958.9	1968.5	1939.8
32.5°	1914.0	1917.9	1900.7	1908.3	1882.5
35°	1851.0	1854.9	1836.7	1844.4	1818.6
37.5°	1790.9	1789.9	1770.8	1775.6	1753.7
40°	1721.2	1720.3	1700.2	1704.0	1683.0
42.5°	1649.6	1645.8	1626.7	1628.6	1609.5
45°	1569.4	1567.5	1547.5	1550.3	1531.2
47.5°	1492.1	1486.4	1466.3	1467.3	1451.0
50°	1408.1	1399.5	1382.3	1380.4	1366.1
52.5°	1318.4	1308.8	1289.7	1287.8	1277.3
55°	1224.8	1214.3	1196.2	1193.3	1184.7
57.5°	1128.4	1115.0	1100.7	1095.0	1088.3
60°	1026.2	1013.8	997.6	991.9	989.0
62.5°	920.3	907.9	895.4	889.7	885.9
65°	812.4	802.8	788.5	782.8	779.9
67.5°	702.6	694.0	680.7	674.0	673.0
70°	592.8	584.2	569.0	565.1	564.2
72.5°	483.0	475.4	461.1	457.3	457.3
75°	376.1	369.4	357.0	353.2	353.2
77.5°	274.9	269.2	259.7	254.9	254.9
80°	183.3	179.5	170.9	167.1	166.1
82.5°	106.0	104.1	96.4	92.6	94.5
85°	48.7	46.8	43.0	38.2	39.1
87.5°	12.4	11.5	8.6	6.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)