

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: P973322

Luminaire Tested: FLR2-14-70HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973322
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-L950-CA080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 80 CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

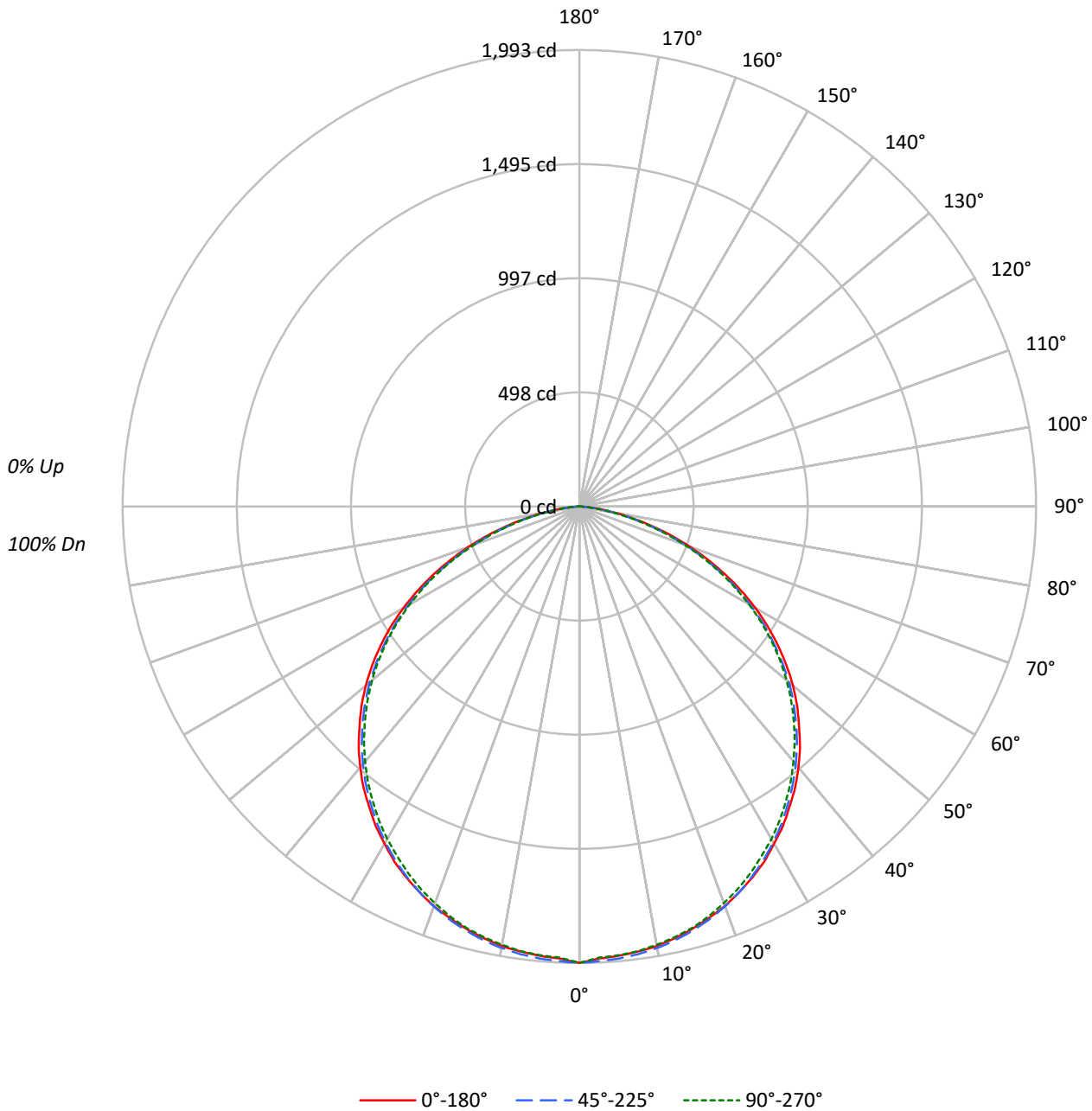
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5577.9 lumens
Efficiency: N/A
Efficacy: 106.2 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									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°	5363	5363	5363
5°	5321	5352	5314
10°	5326	5349	5310
15°	5318	5338	5306
20°	5317	5322	5279
25°	5305	5295	5246
30°	5283	5260	5208
35°	5254	5214	5162
40°	5225	5161	5109
45°	5161	5088	5035
50°	5094	5000	4942
55°	4965	4849	4803
60°	4772	4639	4599
65°	4470	4338	4291
70°	4030	3868	3836
75°	3379	3208	3173
80°	2455	2289	2224
85°	1300	1145	1044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5161 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	3.4
10°-20°	542.1	9.7
20°-30°	823.6	14.8
30°-40°	996.2	17.9
40°-50°	1035.4	18.6
50°-60°	927.0	16.6
60°-70°	676.1	12.1
70°-80°	332.9	6.0
80°-90°	55.7	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°	1554.4	27.9
0°-40°	2550.7	45.7
0°-60°	4513.1	80.9
0°-90°	5577.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5577.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1970	1991	1981	2000	1967	187
15°	1909	1926	1916	1933	1905	539
25°	1787	1796	1783	1792	1767	824
35°	1599	1603	1587	1594	1571	1002
45°	1356	1354	1337	1340	1323	1047
55°	1058	1049	1034	1031	1024	945
65°	702	694	681	676	674	693
75°	325	319	308	305	305	346
85°	42	40	37	33	34	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992.9	1992.9	1992.9	1992.9	1992.9
2.5°	1975.6	1997.9	1987.1	2006.9	1971.5
5°	1969.8	1991.3	1981.4	2000.3	1967.3
7.5°	1959.9	1982.2	1971.5	1989.6	1958.3
10°	1949.2	1969.0	1957.4	1975.6	1943.4
12.5°	1930.2	1950.0	1939.3	1955.8	1926.1
15°	1908.8	1926.1	1916.2	1932.7	1904.6
17.5°	1884.0	1900.5	1889.8	1904.6	1876.6
20°	1856.8	1870.0	1858.5	1870.8	1843.6
22.5°	1823.0	1835.4	1823.0	1831.2	1807.3
25°	1786.7	1795.8	1783.4	1791.6	1766.9
27.5°	1747.9	1752.9	1740.5	1747.1	1721.5
30°	1700.1	1705.8	1692.7	1700.9	1676.2
32.5°	1653.9	1657.2	1642.3	1648.9	1626.7
35°	1599.4	1602.7	1587.1	1593.7	1571.4
37.5°	1547.5	1546.6	1530.2	1534.3	1515.3
40°	1487.3	1486.4	1469.1	1472.4	1454.3
42.5°	1425.4	1422.1	1405.6	1407.2	1390.7
45°	1356.1	1354.5	1337.1	1339.6	1323.1
47.5°	1289.3	1284.3	1267.0	1267.8	1253.8
50°	1216.7	1209.3	1194.4	1192.8	1180.4
52.5°	1139.2	1130.9	1114.4	1112.8	1103.7
55°	1058.3	1049.2	1033.6	1031.1	1023.7
57.5°	975.0	963.5	951.1	946.1	940.4
60°	886.7	876.0	862.0	857.0	854.6
62.5°	795.2	784.5	773.7	768.8	765.5
65°	702.0	693.7	681.3	676.4	673.9
67.5°	607.1	599.7	588.1	582.4	581.5
70°	512.2	504.8	491.6	488.3	487.5
72.5°	417.4	410.8	398.4	395.1	395.1
75°	325.0	319.2	308.5	305.2	305.2
77.5°	237.6	232.6	224.4	220.2	220.2
80°	158.4	155.1	147.7	144.4	143.5
82.5°	91.6	89.9	83.3	80.0	81.7
85°	42.1	40.4	37.1	33.0	33.8
87.5°	10.7	9.9	7.4	5.8	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)