

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: P973232

Luminaire Tested: FLR2-14-70HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973232
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-L940-CP125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 4000CCT & 90 CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

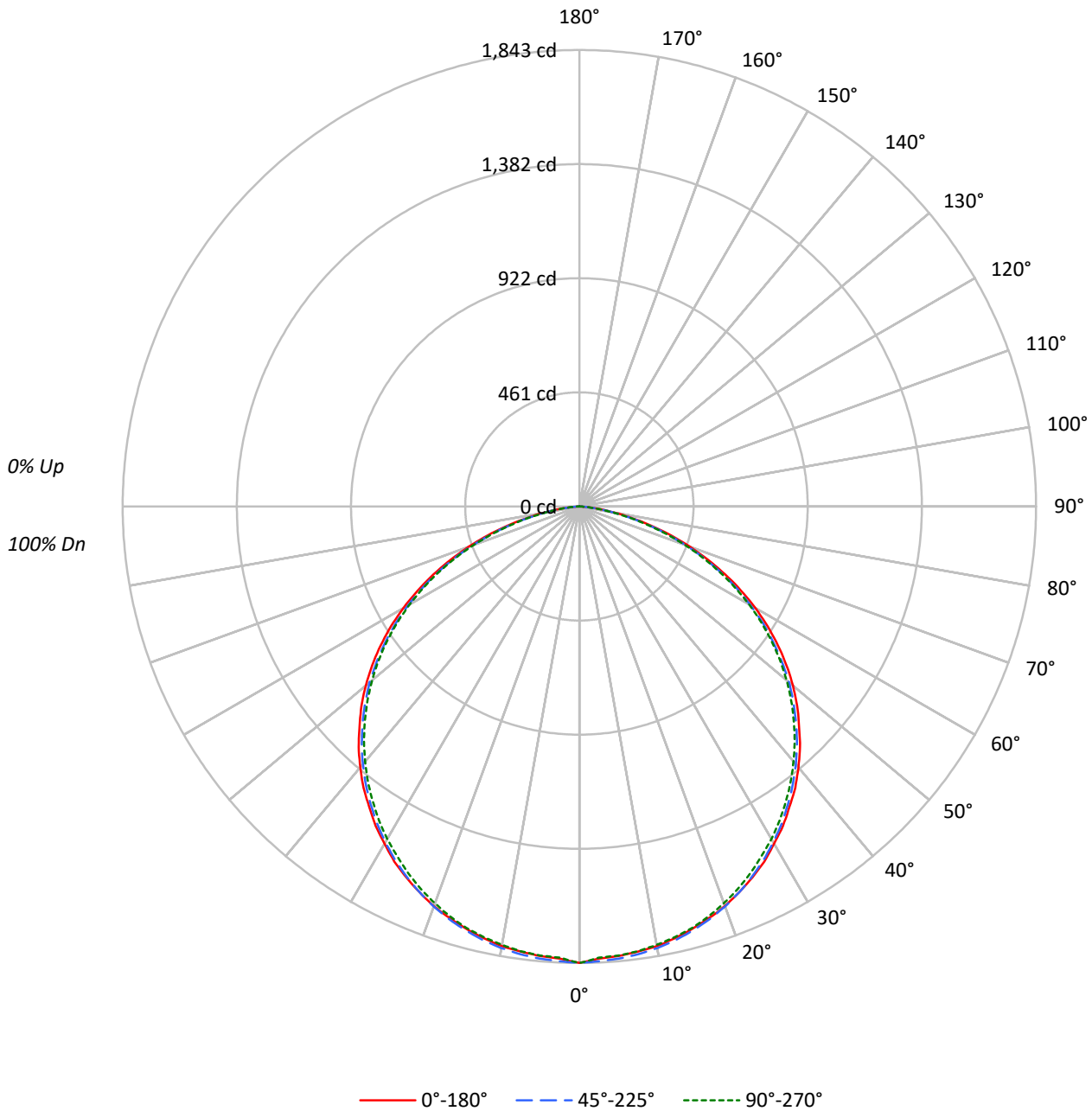
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5158.6 lumens
Efficiency: N/A
Efficacy: 98.3 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										
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°	4960	4960	4960
5°	4921	4950	4915
10°	4926	4947	4911
15°	4918	4937	4907
20°	4918	4922	4883
25°	4906	4897	4852
30°	4886	4864	4817
35°	4859	4822	4774
40°	4832	4773	4724
45°	4773	4706	4657
50°	4711	4624	4570
55°	4592	4485	4442
60°	4414	4290	4253
65°	4134	4012	3969
70°	3727	3578	3548
75°	3125	2966	2935
80°	2270	2117	2056
85°	1201	1059	966

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4773 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	3.4
10°-20°	501.3	9.7
20°-30°	761.7	14.8
30°-40°	921.4	17.9
40°-50°	957.6	18.6
50°-60°	857.3	16.6
60°-70°	625.3	12.1
70°-80°	307.9	6.0
80°-90°	51.5	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°	1437.6	27.9
0°-40°	2359.0	45.7
0°-60°	4173.8	80.9
0°-90°	5158.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5158.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1822	1842	1832	1850	1820	173
15°	1765	1781	1772	1787	1762	499
25°	1652	1661	1649	1657	1634	762
35°	1479	1482	1468	1474	1453	926
45°	1254	1253	1237	1239	1224	968
55°	979	970	956	954	947	874
65°	649	642	630	626	623	641
75°	301	295	285	282	282	320
85°	39	37	34	30	31	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.1	1843.1	1843.1	1843.1	1843.1
2.5°	1827.1	1847.7	1837.8	1856.1	1823.3
5°	1821.7	1841.6	1832.4	1850.0	1819.5
7.5°	1812.6	1833.2	1823.3	1840.1	1811.1
10°	1802.7	1821.0	1810.3	1827.1	1797.3
12.5°	1785.1	1803.4	1793.5	1808.8	1781.3
15°	1765.3	1781.3	1772.2	1787.4	1761.5
17.5°	1742.4	1757.7	1747.7	1761.5	1735.5
20°	1717.2	1729.4	1718.8	1730.2	1705.0
22.5°	1686.0	1697.4	1686.0	1693.6	1671.5
25°	1652.4	1660.8	1649.3	1657.0	1634.1
27.5°	1616.5	1621.1	1609.7	1615.8	1592.1
30°	1572.3	1577.6	1565.4	1573.0	1550.2
32.5°	1529.6	1532.6	1518.9	1525.0	1504.4
35°	1479.2	1482.3	1467.8	1473.9	1453.3
37.5°	1431.2	1430.4	1415.1	1418.9	1401.4
40°	1375.5	1374.7	1358.7	1361.7	1344.9
42.5°	1318.2	1315.2	1299.9	1301.5	1286.2
45°	1254.2	1252.6	1236.6	1238.9	1223.6
47.5°	1192.4	1187.8	1171.8	1172.5	1159.6
50°	1125.2	1118.4	1104.6	1103.1	1091.7
52.5°	1053.5	1045.9	1030.6	1029.1	1020.7
55°	978.8	970.4	955.9	953.6	946.7
57.5°	901.7	891.0	879.6	875.0	869.7
60°	820.1	810.2	797.2	792.6	790.3
62.5°	735.4	725.5	715.6	711.0	707.9
65°	649.2	641.6	630.1	625.6	623.3
67.5°	561.5	554.6	543.9	538.6	537.8
70°	473.7	466.9	454.7	451.6	450.9
72.5°	386.0	379.9	368.5	365.4	365.4
75°	300.6	295.2	285.3	282.3	282.3
77.5°	219.7	215.1	207.5	203.7	203.7
80°	146.5	143.4	136.6	133.5	132.7
82.5°	84.7	83.2	77.1	74.0	75.5
85°	38.9	37.4	34.3	30.5	31.3
87.5°	9.9	9.2	6.9	5.3	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)