

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: P973267

Luminaire Tested: FLR2-14-70HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973267
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-CP125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

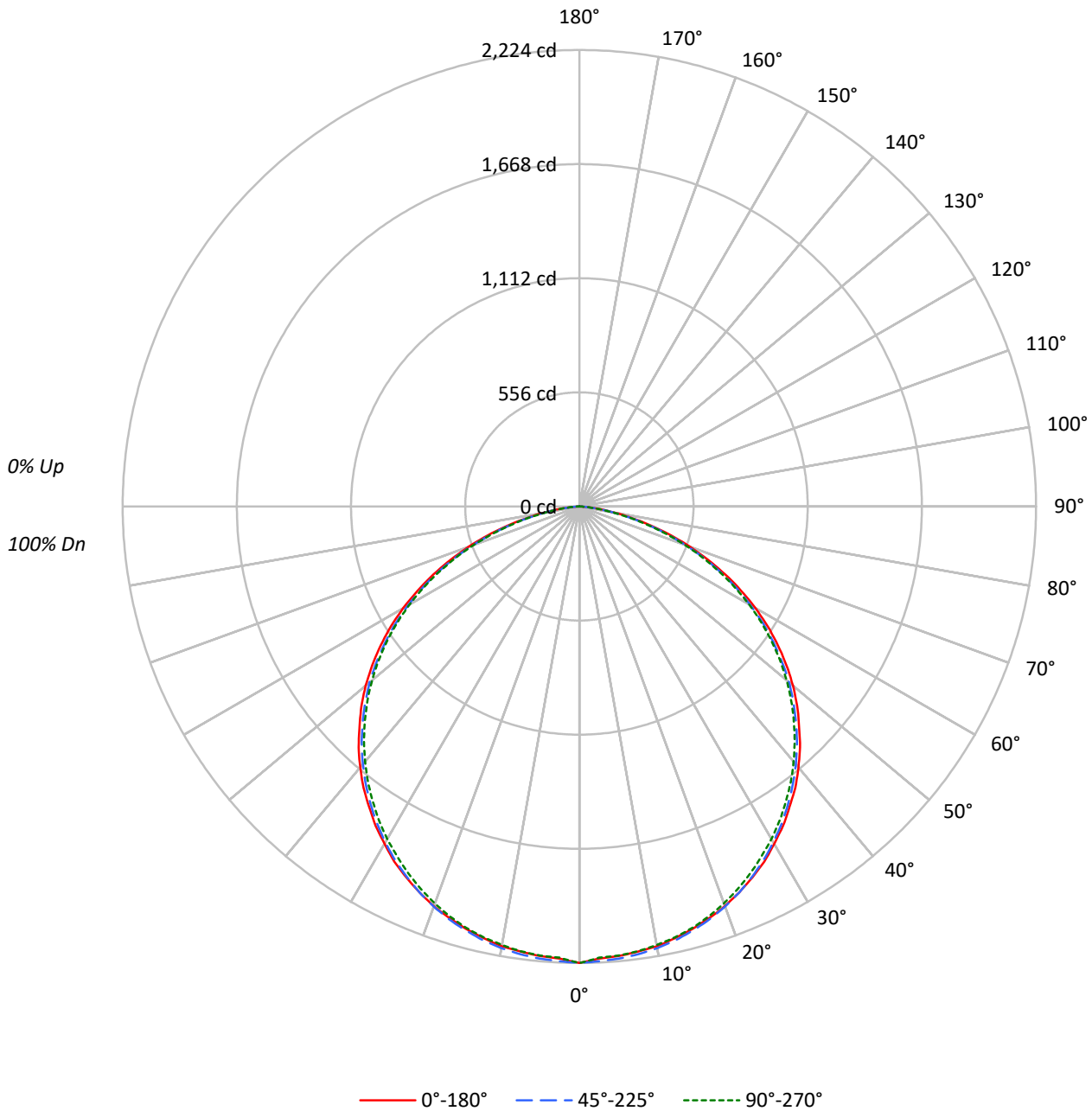
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6225.9 lumens
Efficiency: N/A
Efficacy: 118.6 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°	5986	5986	5986
5°	5939	5974	5932
10°	5945	5970	5927
15°	5935	5958	5923
20°	5935	5940	5893
25°	5921	5910	5856
30°	5896	5871	5813
35°	5865	5819	5762
40°	5831	5760	5702
45°	5760	5680	5620
50°	5685	5581	5516
55°	5542	5412	5361
60°	5327	5178	5134
65°	4989	4842	4790
70°	4499	4317	4281
75°	3772	3580	3542
80°	2740	2554	2483
85°	1451	1278	1164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5760 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	3.4
10°-20°	605.1	9.7
20°-30°	919.3	14.8
30°-40°	1112.0	17.9
40°-50°	1155.7	18.6
50°-60°	1034.7	16.6
60°-70°	754.7	12.1
70°-80°	371.6	6.0
80°-90°	62.1	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°	1735.0	27.9
0°-40°	2847.0	45.7
0°-60°	5037.4	80.9
0°-90°	6225.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6225.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2199	2223	2212	2233	2196	209
15°	2130	2150	2139	2157	2126	602
25°	1994	2004	1991	2000	1972	919
35°	1785	1789	1771	1779	1754	1118
45°	1514	1512	1492	1495	1477	1169
55°	1181	1171	1154	1151	1143	1054
65°	784	774	760	755	752	774
75°	363	356	344	341	341	387
85°	47	45	41	37	38	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2224.4	2224.4	2224.4	2224.4	2224.4
2.5°	2205.1	2230.0	2218.0	2240.1	2200.5
5°	2198.7	2222.6	2211.5	2232.7	2195.9
7.5°	2187.6	2212.5	2200.5	2220.8	2185.8
10°	2175.6	2197.7	2184.8	2205.1	2169.2
12.5°	2154.5	2176.6	2164.6	2183.0	2149.9
15°	2130.5	2149.9	2138.8	2157.2	2125.9
17.5°	2102.9	2121.3	2109.3	2125.9	2094.6
20°	2072.5	2087.2	2074.4	2088.2	2057.8
22.5°	2034.8	2048.6	2034.8	2044.0	2017.3
25°	1994.3	2004.4	1990.6	1999.8	1972.2
27.5°	1951.0	1956.5	1942.7	1950.1	1921.5
30°	1897.6	1904.0	1889.3	1898.5	1870.9
32.5°	1846.0	1849.7	1833.1	1840.5	1815.6
35°	1785.3	1788.9	1771.4	1778.8	1754.0
37.5°	1727.3	1726.3	1707.9	1712.5	1691.3
40°	1660.0	1659.1	1639.8	1643.5	1623.2
42.5°	1591.0	1587.3	1568.9	1570.7	1552.3
45°	1513.6	1511.8	1492.5	1495.2	1476.8
47.5°	1439.1	1433.5	1414.2	1415.1	1399.5
50°	1358.0	1349.8	1333.2	1331.3	1317.5
52.5°	1271.5	1262.3	1243.9	1242.0	1231.9
55°	1181.3	1171.1	1153.6	1150.9	1142.6
57.5°	1088.3	1075.4	1061.6	1056.1	1049.6
60°	989.8	977.8	962.1	956.6	953.9
62.5°	887.6	875.6	863.6	858.1	854.4
65°	783.5	774.3	760.5	755.0	752.2
67.5°	677.6	669.4	656.5	650.0	649.1
70°	571.8	563.5	548.7	545.1	544.1
72.5°	465.9	458.5	444.7	441.0	441.0
75°	362.8	356.3	344.3	340.7	340.7
77.5°	265.2	259.6	250.4	245.8	245.8
80°	176.8	173.1	164.8	161.1	160.2
82.5°	102.2	100.4	93.0	89.3	91.2
85°	47.0	45.1	41.4	36.8	37.7
87.5°	12.0	11.0	8.3	6.4	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)