

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: P973262

Luminaire Tested: FLR2-14-70HE-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973262
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-CP080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

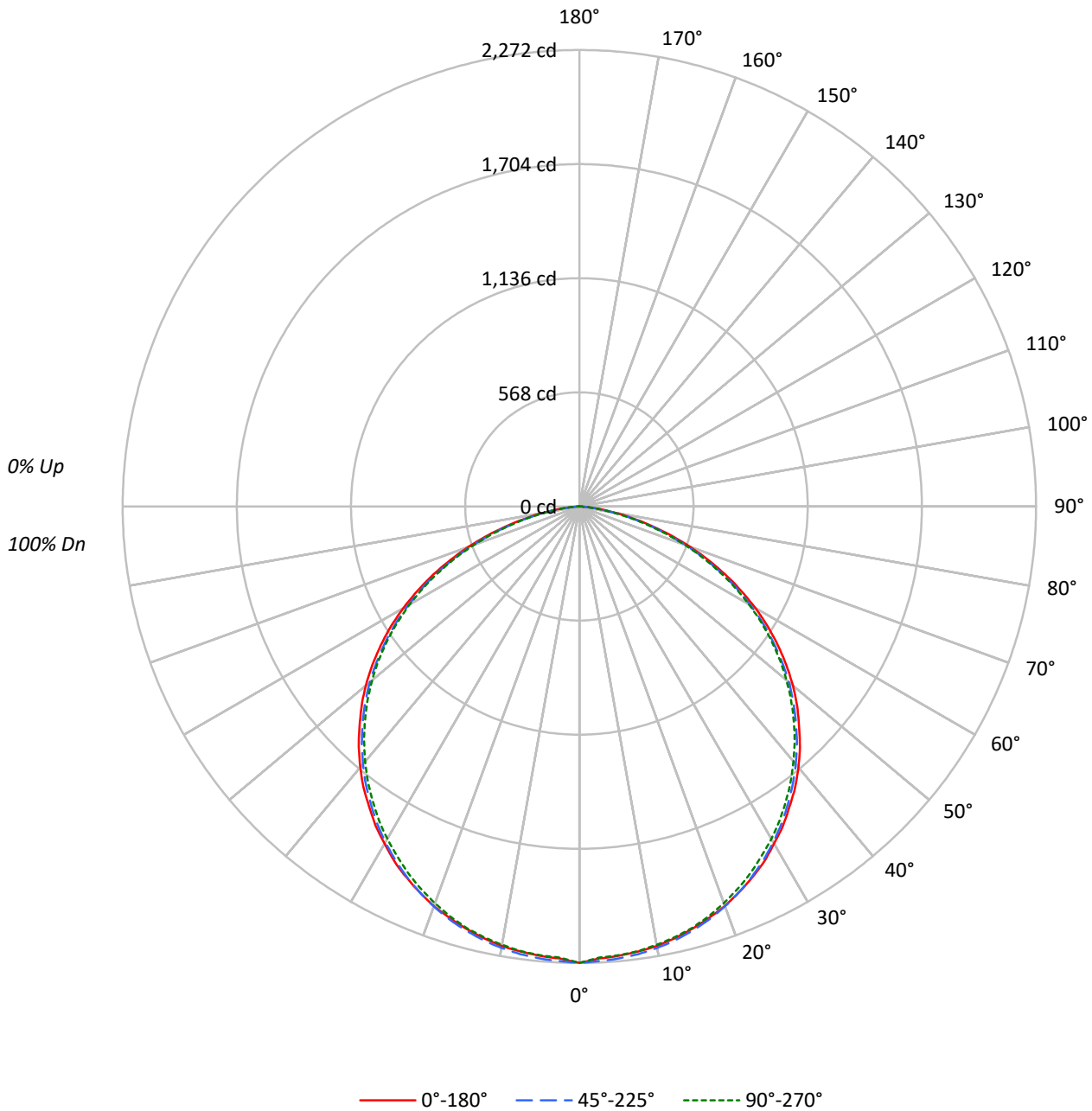
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6358.2 lumens
Efficiency: N/A
Efficacy: 121.1 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	6113	6113	6113
5°	6065	6101	6058
10°	6071	6097	6053
15°	6062	6085	6048
20°	6061	6066	6018
25°	6047	6036	5980
30°	6022	5995	5937
35°	5989	5943	5884
40°	5955	5883	5823
45°	5883	5801	5740
50°	5806	5700	5633
55°	5660	5528	5475
60°	5440	5288	5243
65°	5095	4946	4891
70°	4594	4409	4372
75°	3852	3657	3617
80°	2797	2608	2535
85°	1482	1306	1192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5883 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	3.4
10°-20°	617.9	9.7
20°-30°	938.8	14.8
30°-40°	1135.6	17.9
40°-50°	1180.2	18.6
50°-60°	1056.7	16.6
60°-70°	770.7	12.1
70°-80°	379.6	6.0
80°-90°	63.5	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°	1771.9	27.9
0°-40°	2907.5	45.7
0°-60°	5144.4	80.9
0°-90°	6358.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6358.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2245	2270	2258	2280	2243	214
15°	2176	2196	2184	2203	2171	615
25°	2037	2047	2033	2042	2014	939
35°	1823	1827	1809	1817	1791	1142
45°	1546	1544	1524	1527	1508	1194
55°	1206	1196	1178	1175	1167	1077
65°	800	791	777	771	768	790
75°	370	364	352	348	348	395
85°	48	46	42	38	39	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2271.7	2271.7	2271.7	2271.7	2271.7
2.5°	2252.0	2277.4	2265.1	2287.7	2247.3
5°	2245.4	2269.8	2258.5	2280.2	2242.6
7.5°	2234.1	2259.5	2247.3	2268.0	2232.2
10°	2221.9	2244.4	2231.3	2252.0	2215.3
12.5°	2200.3	2222.8	2210.6	2229.4	2195.6
15°	2175.8	2195.6	2184.3	2203.1	2171.1
17.5°	2147.6	2166.4	2154.2	2171.1	2139.1
20°	2116.6	2131.6	2118.4	2132.6	2101.5
22.5°	2078.0	2092.1	2078.0	2087.4	2060.1
25°	2036.6	2047.0	2032.9	2042.3	2014.1
27.5°	1992.4	1998.1	1984.0	1991.5	1962.4
30°	1937.9	1944.5	1929.5	1938.9	1910.6
32.5°	1885.3	1889.0	1872.1	1879.6	1854.2
35°	1823.2	1827.0	1809.1	1816.6	1791.2
37.5°	1764.0	1763.0	1744.2	1748.9	1727.3
40°	1695.3	1694.4	1674.6	1678.4	1657.7
42.5°	1624.8	1621.0	1602.2	1604.1	1585.3
45°	1545.8	1543.9	1524.2	1527.0	1508.2
47.5°	1469.7	1464.0	1444.3	1445.2	1429.2
50°	1386.9	1378.4	1361.5	1359.6	1345.5
52.5°	1298.5	1289.1	1270.3	1268.4	1258.1
55°	1206.4	1196.0	1178.2	1175.3	1166.9
57.5°	1111.4	1098.2	1084.1	1078.5	1071.9
60°	1010.8	998.6	982.6	976.9	974.1
62.5°	906.4	894.2	882.0	876.3	872.6
65°	800.2	790.8	776.7	771.0	768.2
67.5°	692.0	683.6	670.4	663.8	662.9
70°	583.9	575.5	560.4	556.6	555.7
72.5°	475.8	468.3	454.2	450.4	450.4
75°	370.5	363.9	351.7	347.9	347.9
77.5°	270.8	265.2	255.8	251.1	251.1
80°	180.5	176.8	168.3	164.5	163.6
82.5°	104.4	102.5	95.0	91.2	93.1
85°	48.0	46.1	42.3	37.6	38.6
87.5°	12.2	11.3	8.5	6.6	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)