

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: P973272

Luminaire Tested: FLR2-14-70HE-L850-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973272
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-CP187
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

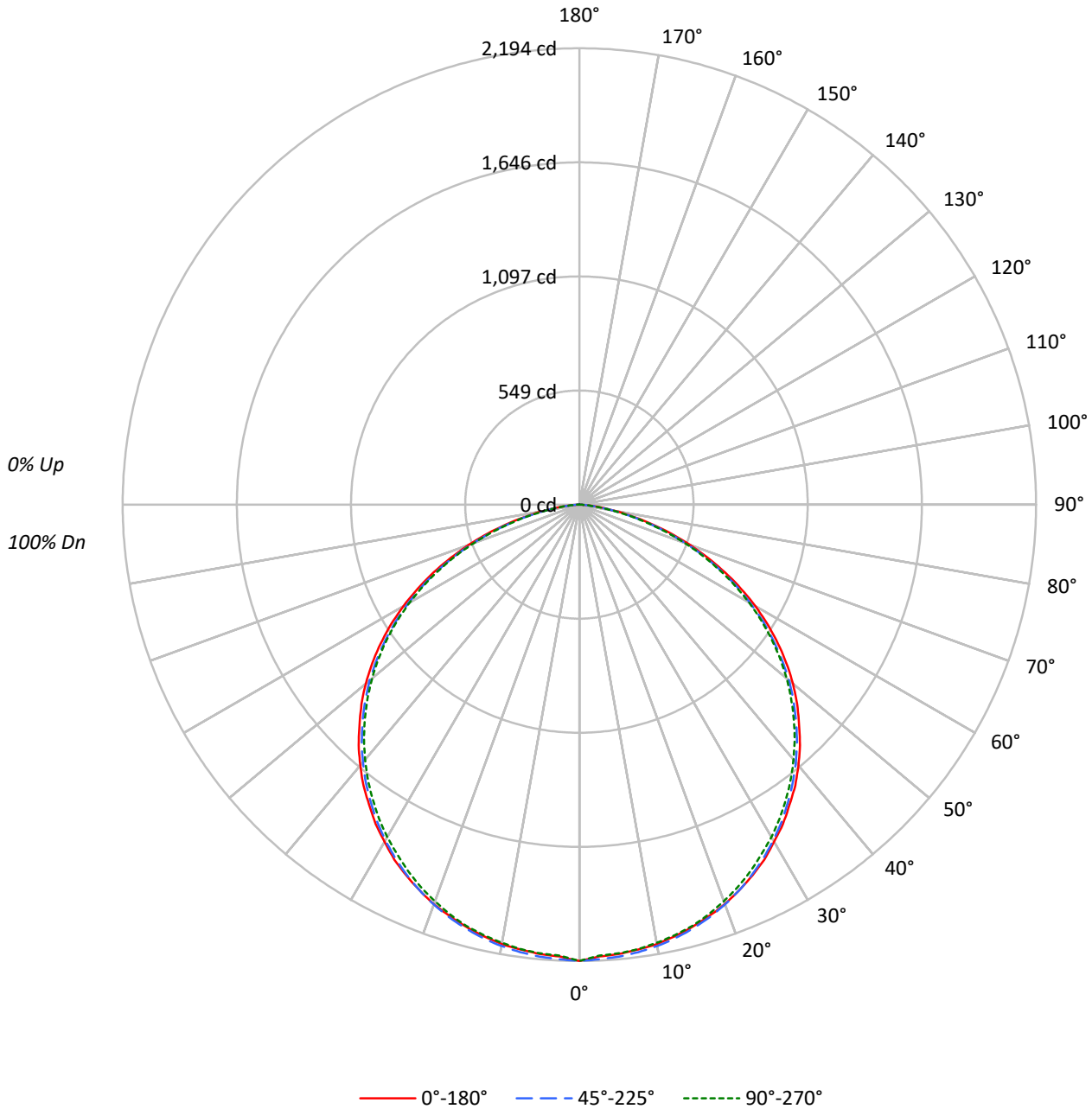
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6140.7 lumens
Efficiency: N/A
Efficacy: 117.0 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

TEST NUMBER: P973272
CATALOG NUMBER: FLR2-14-70HE-L850-CP187

Luminous Intensity Polar Plot





TEST NUMBER: P973272
 CATALOG NUMBER: FLR2-14-70HE-L850-CP187

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°	5904	5904	5904
5°	5858	5892	5851
10°	5864	5889	5846
15°	5854	5877	5841
20°	5854	5859	5812
25°	5840	5830	5776
30°	5816	5790	5734
35°	5784	5740	5683
40°	5752	5682	5624
45°	5681	5602	5543
50°	5608	5505	5440
55°	5466	5339	5287
60°	5254	5107	5063
65°	4921	4776	4724
70°	4437	4258	4223
75°	3720	3531	3493
80°	2703	2520	2448
85°	1430	1263	1149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5681 cd/sqm



TEST NUMBER: P973272
 CATALOG NUMBER: FLR2-14-70HE-L850-CP187

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	3.4
10°-20°	596.8	9.7
20°-30°	906.7	14.8
30°-40°	1096.8	17.9
40°-50°	1139.9	18.6
50°-60°	1020.6	16.6
60°-70°	744.4	12.1
70°-80°	366.5	6.0
80°-90°	61.3	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°	1711.3	27.9
0°-40°	2808.1	45.7
0°-60°	4968.5	80.9
0°-90°	6140.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6140.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2194	2194	2194	2194	2194	
5°	2169	2192	2181	2202	2166	206
15°	2101	2120	2110	2128	2097	593
25°	1967	1977	1963	1972	1945	907
35°	1761	1764	1747	1754	1730	1103
45°	1493	1491	1472	1475	1457	1153
55°	1165	1155	1138	1135	1127	1040
65°	773	764	750	745	742	763
75°	358	351	340	336	336	381
85°	46	44	41	36	37	67
90°	0	0	0	0	0	



TEST NUMBER: P973272
 CATALOG NUMBER: FLR2-14-70HE-L850-CP187

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2194.0	2194.0	2194.0	2194.0	2194.0
2.5°	2174.9	2199.5	2187.7	2209.5	2170.4
5°	2168.6	2192.2	2181.3	2202.2	2165.9
7.5°	2157.7	2182.2	2170.4	2190.4	2155.9
10°	2145.9	2167.7	2155.0	2174.9	2139.5
12.5°	2125.0	2146.8	2135.0	2153.1	2120.5
15°	2101.4	2120.5	2109.6	2127.7	2096.8
17.5°	2074.1	2092.3	2080.5	2096.8	2066.0
20°	2044.2	2058.7	2046.0	2059.6	2029.6
22.5°	2006.9	2020.6	2006.9	2016.0	1989.7
25°	1967.0	1977.0	1963.4	1972.4	1945.2
27.5°	1924.3	1929.8	1916.1	1923.4	1895.2
30°	1871.6	1878.0	1863.5	1872.5	1845.3
32.5°	1820.8	1824.4	1808.1	1815.3	1790.8
35°	1760.8	1764.5	1747.2	1754.5	1730.0
37.5°	1703.6	1702.7	1684.6	1689.1	1668.2
40°	1637.3	1636.4	1617.4	1621.0	1601.0
42.5°	1569.2	1565.6	1547.4	1549.3	1531.1
45°	1492.9	1491.1	1472.1	1474.8	1456.6
47.5°	1419.4	1413.9	1394.9	1395.8	1380.3
50°	1339.5	1331.3	1315.0	1313.1	1299.5
52.5°	1254.1	1245.0	1226.9	1225.1	1215.1
55°	1165.1	1155.1	1137.9	1135.1	1127.0
57.5°	1073.4	1060.7	1047.1	1041.6	1035.3
60°	976.2	964.4	949.0	943.5	940.8
62.5°	875.4	863.6	851.8	846.4	842.7
65°	772.8	763.7	750.1	744.7	741.9
67.5°	668.4	660.2	647.5	641.1	640.2
70°	563.9	555.8	541.2	537.6	536.7
72.5°	459.5	452.2	438.6	435.0	435.0
75°	357.8	351.4	339.6	336.0	336.0
77.5°	261.5	256.1	247.0	242.5	242.5
80°	174.4	170.7	162.6	158.9	158.0
82.5°	100.8	99.0	91.7	88.1	89.9
85°	46.3	44.5	40.9	36.3	37.2
87.5°	11.8	10.9	8.2	6.4	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)