

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P708981

Luminaire Tested: **24APR-67L850-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708981
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67L850-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

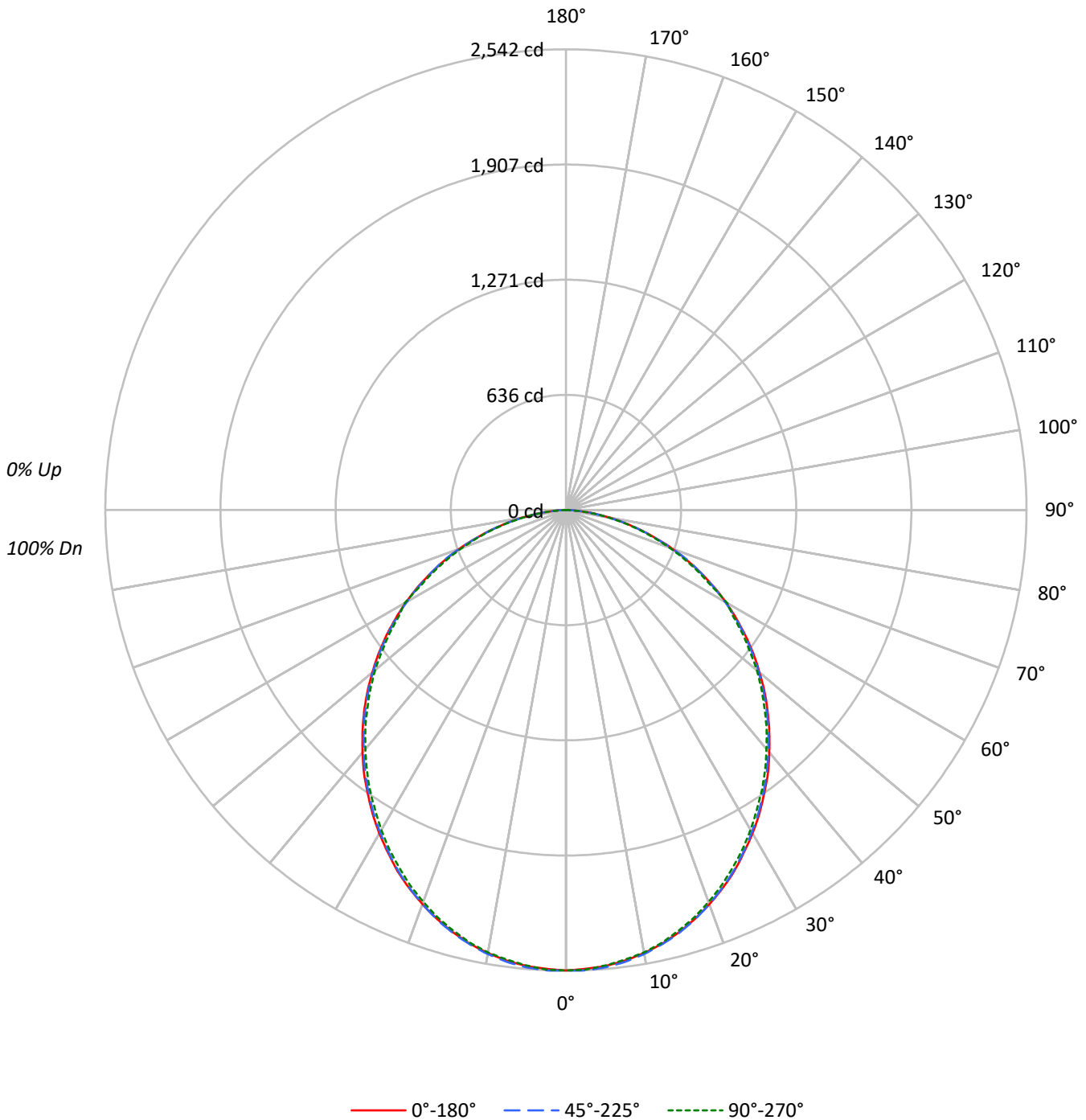
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6766.9 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P708981
CATALOG NUMBER: 24APR-67L850-X-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P708981
 CATALOG NUMBER: 24APR-67L850-X-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	61	61	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3418	3418	3418
5°	3411	3420	3406
10°	3391	3399	3387
15°	3359	3365	3347
20°	3315	3314	3295
25°	3265	3257	3232
30°	3201	3189	3166
35°	3133	3123	3098
40°	3067	3051	3024
45°	2997	2982	2950
50°	2920	2908	2879
55°	2840	2825	2788
60°	2745	2727	2764
65°	2620	2612	2563
70°	2458	2461	2394
75°	2231	2215	2164
80°	1918	1892	1842
85°	1465	1453	1340



TEST NUMBER: P708981
 CATALOG NUMBER: 24APR-67L850-X-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	3.5
10°-20°	679.8	10.0
20°-30°	1009.0	14.9
30°-40°	1187.7	17.6
40°-50°	1207.0	17.8
50°-60°	1072.9	15.9
60°-70°	809.3	12.0
70°-80°	449.5	6.6
80°-90°	111.8	1.7
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°	1928.7	28.5
0°-40°	3116.3	46.1
0°-60°	5396.3	79.7
0°-90°	6766.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6766.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2541	2541	2541	2541	2541	
5°	2525	2529	2532	2528	2522	240
15°	2412	2414	2416	2410	2403	680
25°	2199	2197	2194	2184	2177	1012
35°	1908	1908	1901	1890	1886	1194
45°	1575	1575	1567	1554	1551	1215
55°	1211	1202	1204	1191	1189	1082
65°	823	818	820	810	805	815
75°	429	424	426	423	416	455
85°	95	92	94	90	87	114
90°	0	0	0	0	0	



TEST NUMBER: P708981

CATALOG NUMBER: 24APR-67L850-X-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2540.6	2540.6	2540.6	2540.6	2540.6
2.5°	2534.1	2539.0	2542.2	2538.1	2537.3
5°	2525.2	2529.2	2532.5	2528.4	2521.9
7.5°	2507.3	2512.2	2514.6	2510.6	2501.6
10°	2482.2	2487.0	2487.8	2483.8	2478.9
12.5°	2451.3	2454.6	2454.6	2451.3	2445.6
15°	2411.6	2414.0	2415.6	2409.9	2402.6
17.5°	2366.1	2370.2	2368.6	2359.6	2356.4
20°	2315.0	2318.2	2314.2	2308.5	2301.2
22.5°	2259.0	2259.8	2256.6	2250.1	2242.8
25°	2199.0	2197.3	2194.1	2184.4	2177.1
27.5°	2129.2	2132.4	2124.3	2115.4	2110.5
30°	2060.2	2061.0	2052.9	2041.6	2037.5
32.5°	1986.4	1984.8	1979.1	1966.9	1960.4
35°	1907.7	1908.5	1901.2	1889.8	1885.8
37.5°	1831.4	1826.5	1820.8	1807.9	1805.4
40°	1746.2	1745.4	1737.3	1725.9	1721.8
42.5°	1661.0	1660.2	1653.7	1642.3	1639.1
45°	1575.0	1575.0	1566.9	1553.9	1550.6
47.5°	1487.3	1484.1	1478.4	1467.1	1463.0
50°	1394.8	1392.4	1389.2	1376.2	1375.4
52.5°	1304.0	1302.3	1296.7	1285.3	1278.8
55°	1210.6	1201.7	1204.2	1191.2	1188.7
57.5°	1114.9	1106.0	1110.8	1099.5	1094.6
60°	1020.0	1011.0	1013.5	1006.2	1027.3
62.5°	922.6	916.9	916.9	934.0	903.1
65°	822.8	817.9	820.4	809.8	804.9
67.5°	724.6	717.3	732.7	713.2	705.1
70°	624.8	619.9	625.6	614.3	608.6
72.5°	525.8	521.7	520.1	516.1	511.2
75°	429.2	423.6	426.0	422.8	416.3
77.5°	335.1	333.5	332.7	328.6	323.8
80°	247.5	245.9	244.2	241.0	237.7
82.5°	165.5	163.9	163.1	161.5	160.7
85°	94.9	92.5	94.1	90.1	86.8
87.5°	35.7	34.9	36.5	33.3	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)