

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: P708871

Luminaire Tested: **22APR-22-52L850-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708871
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22-52L850-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

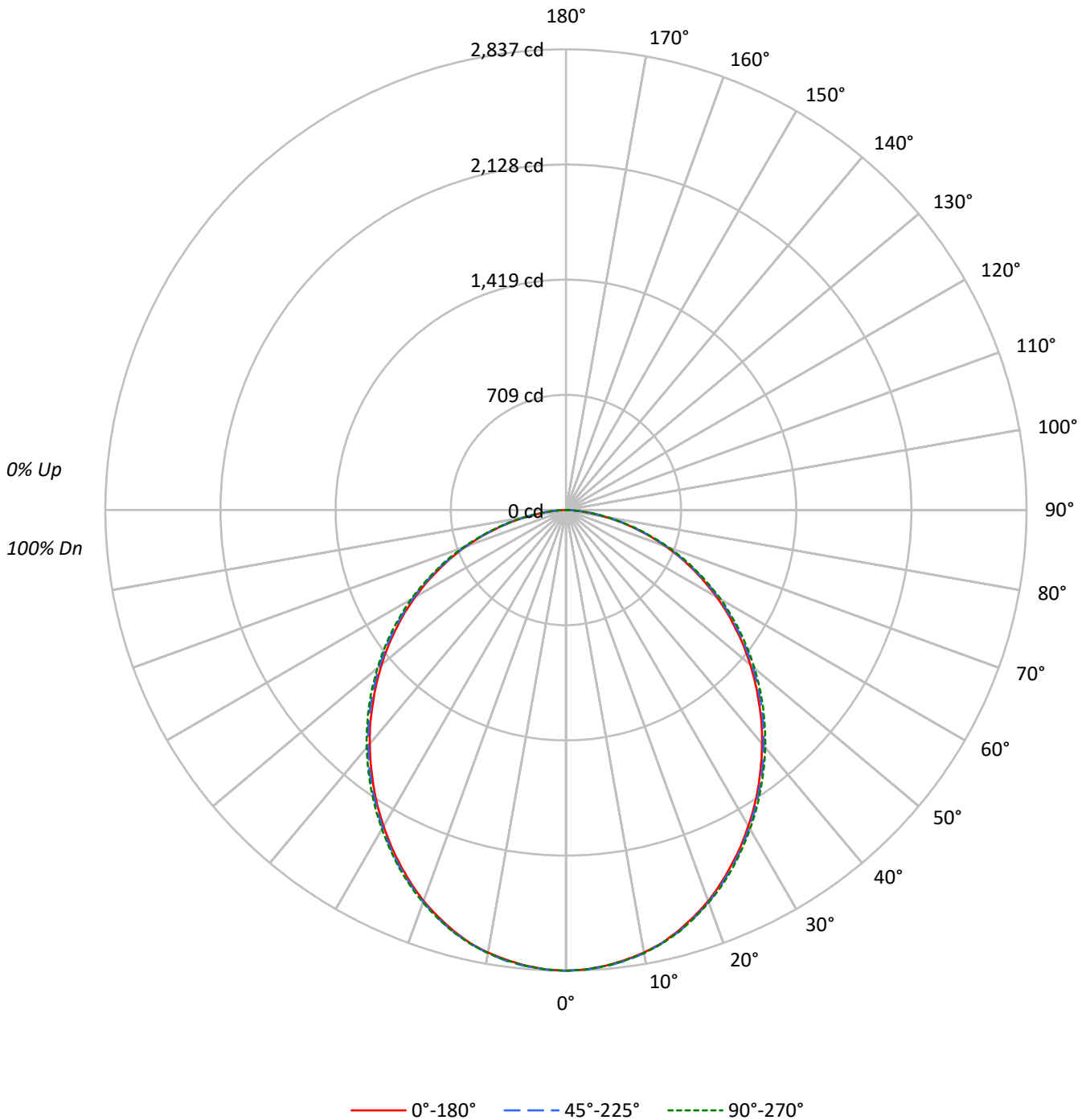
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7378.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63.8
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

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Luminous Intensity Polar Plot





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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	81	76	82	78	74	79	76	73	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	61	53	47	59	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7634	7634	7634
5°	7609	7618	7612
10°	7561	7573	7571
15°	7469	7489	7492
20°	7340	7356	7366
25°	7163	7197	7220
30°	6981	7019	7045
35°	6794	6841	6875
40°	6603	6655	6709
45°	6398	6476	6532
50°	6206	6281	6345
55°	5993	6074	6149
60°	5775	5851	5934
65°	5489	5580	5643
70°	5137	5207	5282
75°	4619	4706	4767
80°	3901	4001	4038
85°	2918	3047	3029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	3.6
10°-20°	757.0	10.3
20°-30°	1115.8	15.1
30°-40°	1302.2	17.6
40°-50°	1312.4	17.8
50°-60°	1158.3	15.7
60°-70°	866.2	11.7
70°-80°	480.0	6.5
80°-90°	118.7	1.6
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°	2140.5	29.0
0°-40°	3442.7	46.7
0°-60°	5913.3	80.1
0°-90°	7378.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7378.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2837	2837	2837	2837	2837	
5°	2817	2820	2820	2821	2818	267
15°	2681	2686	2688	2690	2689	755
25°	2413	2418	2424	2429	2432	1111
35°	2068	2073	2082	2091	2093	1294
45°	1681	1692	1702	1714	1716	1299
55°	1278	1285	1295	1306	1311	1144
65°	862	866	876	883	886	854
75°	444	447	453	457	458	472
85°	94	98	99	98	98	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2836.9	2836.9	2836.9	2836.9	2836.9
2.5°	2831.5	2834.5	2832.1	2834.5	2832.1
5°	2816.8	2820.3	2820.3	2820.9	2818.0
7.5°	2794.9	2799.0	2800.8	2801.4	2797.3
10°	2767.1	2771.3	2771.3	2773.6	2770.7
12.5°	2731.7	2734.0	2733.5	2737.0	2734.6
15°	2680.9	2685.6	2688.0	2690.3	2689.1
17.5°	2624.1	2630.1	2631.8	2636.0	2633.0
20°	2563.3	2567.4	2568.6	2575.1	2572.1
22.5°	2490.6	2494.7	2498.9	2504.8	2505.4
25°	2412.6	2417.9	2423.8	2428.6	2431.5
27.5°	2332.2	2337.6	2342.9	2348.8	2350.0
30°	2246.6	2253.1	2259.0	2266.1	2267.2
32.5°	2160.3	2162.7	2171.5	2179.2	2182.7
35°	2068.1	2072.8	2082.3	2090.6	2092.9
37.5°	1974.2	1981.3	1991.3	2000.2	2002.5
40°	1879.6	1885.5	1894.4	1906.2	1909.8
42.5°	1783.9	1788.0	1799.9	1809.9	1812.9
45°	1681.1	1691.7	1701.8	1713.6	1716.5
47.5°	1583.0	1591.3	1601.3	1612.5	1617.3
50°	1482.5	1492.6	1500.3	1512.7	1515.6
52.5°	1382.1	1388.6	1399.2	1409.9	1414.6
55°	1277.5	1285.2	1294.6	1306.5	1310.6
57.5°	1177.1	1181.2	1191.8	1201.9	1205.4
60°	1073.1	1077.2	1087.2	1097.9	1102.6
62.5°	969.1	972.6	980.9	993.3	993.3
65°	862.1	866.2	876.3	883.4	886.3
67.5°	758.1	761.7	768.7	777.6	781.7
70°	652.9	655.9	661.8	670.7	671.3
72.5°	547.8	550.7	558.4	561.3	565.5
75°	444.3	446.7	452.6	457.3	458.5
77.5°	345.7	349.2	353.4	355.1	356.9
80°	251.7	255.3	258.2	260.0	260.6
82.5°	166.6	170.2	171.9	173.1	172.5
85°	94.5	97.5	98.7	97.5	98.1
87.5°	37.2	39.0	40.2	39.6	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)