

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: P708861

Luminaire Tested: **22APR-22-52L835-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708861
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22-52L835-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

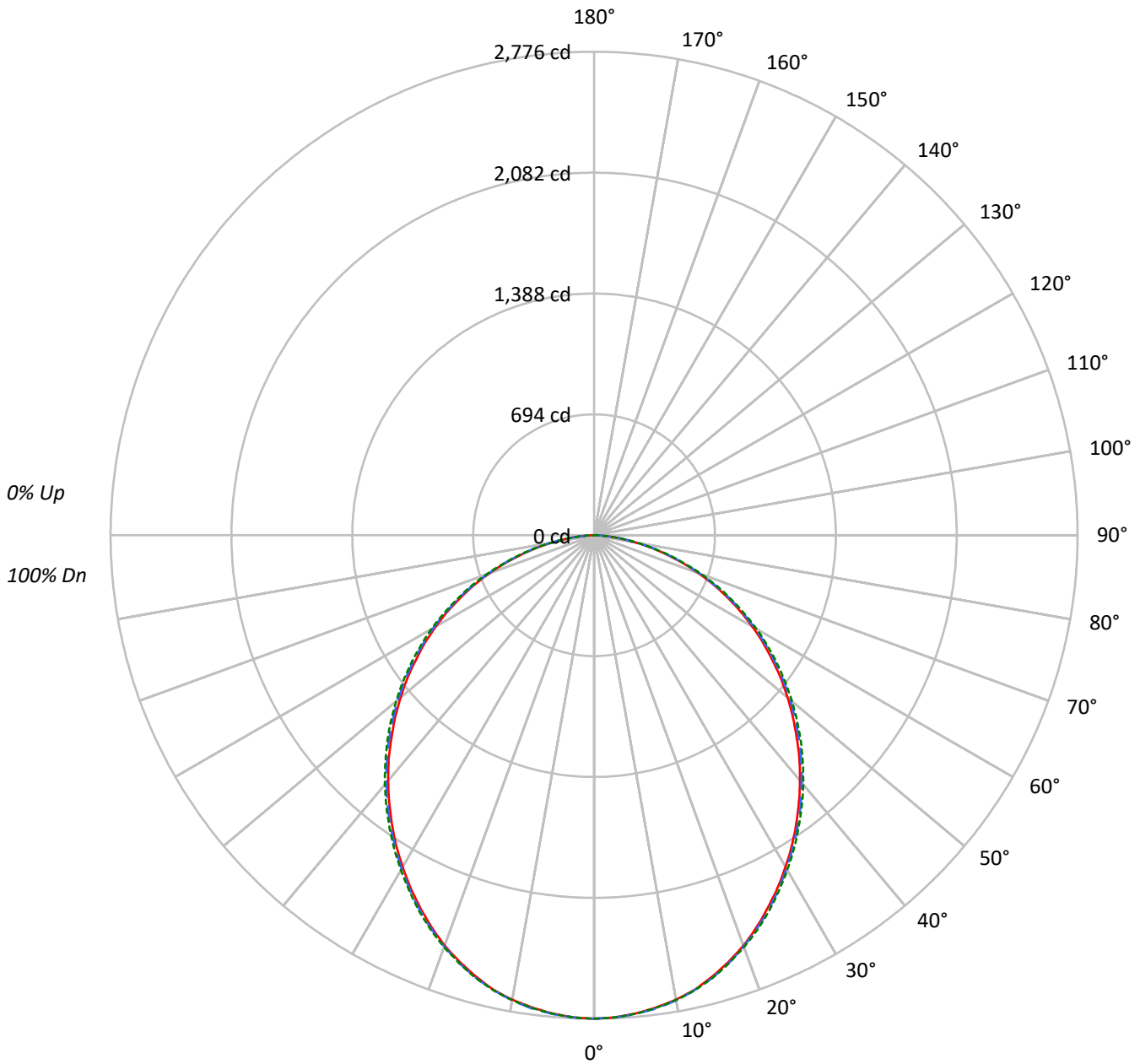
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7218.9 lumens
Efficiency: N/A
Efficacy: 113.1 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



0% Up
100% Dn

— 0°-180° - - 45°-225° - - - 90°-270°



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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°	7469	7469	7469
5°	7444	7454	7448
10°	7398	7409	7407
15°	7307	7327	7330
20°	7182	7197	7207
25°	7009	7041	7064
30°	6830	6868	6893
35°	6647	6693	6727
40°	6460	6511	6564
45°	6259	6336	6391
50°	6072	6145	6208
55°	5864	5943	6016
60°	5651	5725	5806
65°	5371	5459	5522
70°	5026	5094	5167
75°	4520	4604	4664
80°	3817	3914	3952
85°	2856	2979	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	3.6
10°-20°	740.7	10.3
20°-30°	1091.7	15.1
30°-40°	1274.1	17.6
40°-50°	1284.0	17.8
50°-60°	1133.2	15.7
60°-70°	847.5	11.7
70°-80°	469.7	6.5
80°-90°	116.2	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°	2094.2	29.0
0°-40°	3368.3	46.7
0°-60°	5785.6	80.1
0°-90°	7218.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7218.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2776	2776	2776	2776	2776	
5°	2756	2759	2759	2760	2757	262
15°	2623	2628	2630	2632	2631	739
25°	2360	2366	2372	2376	2379	1087
35°	2023	2028	2037	2045	2048	1266
45°	1645	1655	1665	1677	1679	1271
55°	1250	1257	1267	1278	1282	1119
65°	844	848	857	864	867	836
75°	435	437	443	448	449	462
85°	92	95	96	95	96	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2775.6	2775.6	2775.6	2775.6	2775.6
2.5°	2770.4	2773.2	2770.9	2773.2	2770.9
5°	2755.9	2759.4	2759.4	2760.0	2757.1
7.5°	2734.5	2738.6	2740.3	2740.9	2736.8
10°	2707.3	2711.4	2711.4	2713.7	2710.8
12.5°	2672.7	2675.0	2674.4	2677.9	2675.5
15°	2622.9	2627.6	2629.9	2632.2	2631.0
17.5°	2567.4	2573.2	2575.0	2579.0	2576.1
20°	2507.9	2511.9	2513.1	2519.5	2516.6
22.5°	2436.8	2440.8	2444.9	2450.7	2451.2
25°	2360.5	2365.7	2371.5	2376.1	2379.0
27.5°	2281.8	2287.0	2292.3	2298.0	2299.2
30°	2198.0	2204.4	2210.2	2217.1	2218.3
32.5°	2113.6	2115.9	2124.6	2132.1	2135.6
35°	2023.4	2028.1	2037.3	2045.4	2047.7
37.5°	1931.5	1938.4	1948.3	1956.9	1959.3
40°	1839.0	1844.8	1853.5	1865.0	1868.5
42.5°	1745.3	1749.4	1761.0	1770.8	1773.7
45°	1644.8	1655.2	1665.0	1676.6	1679.4
47.5°	1548.8	1556.9	1566.7	1577.7	1582.3
50°	1450.5	1460.3	1467.9	1480.0	1482.9
52.5°	1352.2	1358.6	1369.0	1379.4	1384.0
55°	1249.9	1257.4	1266.7	1278.2	1282.3
57.5°	1151.6	1155.7	1166.1	1175.9	1179.4
60°	1049.9	1053.9	1063.7	1074.2	1078.8
62.5°	948.1	951.6	959.7	971.8	971.8
65°	843.5	847.5	857.4	864.3	867.2
67.5°	741.7	745.2	752.1	760.8	764.9
70°	638.8	641.7	647.5	656.2	656.7
72.5°	535.9	538.8	546.3	549.2	553.3
75°	434.7	437.1	442.8	447.5	448.6
77.5°	338.2	341.7	345.7	347.5	349.2
80°	246.3	249.7	252.6	254.4	255.0
82.5°	163.0	166.5	168.2	169.4	168.8
85°	92.5	95.4	96.5	95.4	96.0
87.5°	36.4	38.2	39.3	38.7	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)