

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: P708878

Luminaire Tested: **22APR-34-80L935-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708878
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34-80L935-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

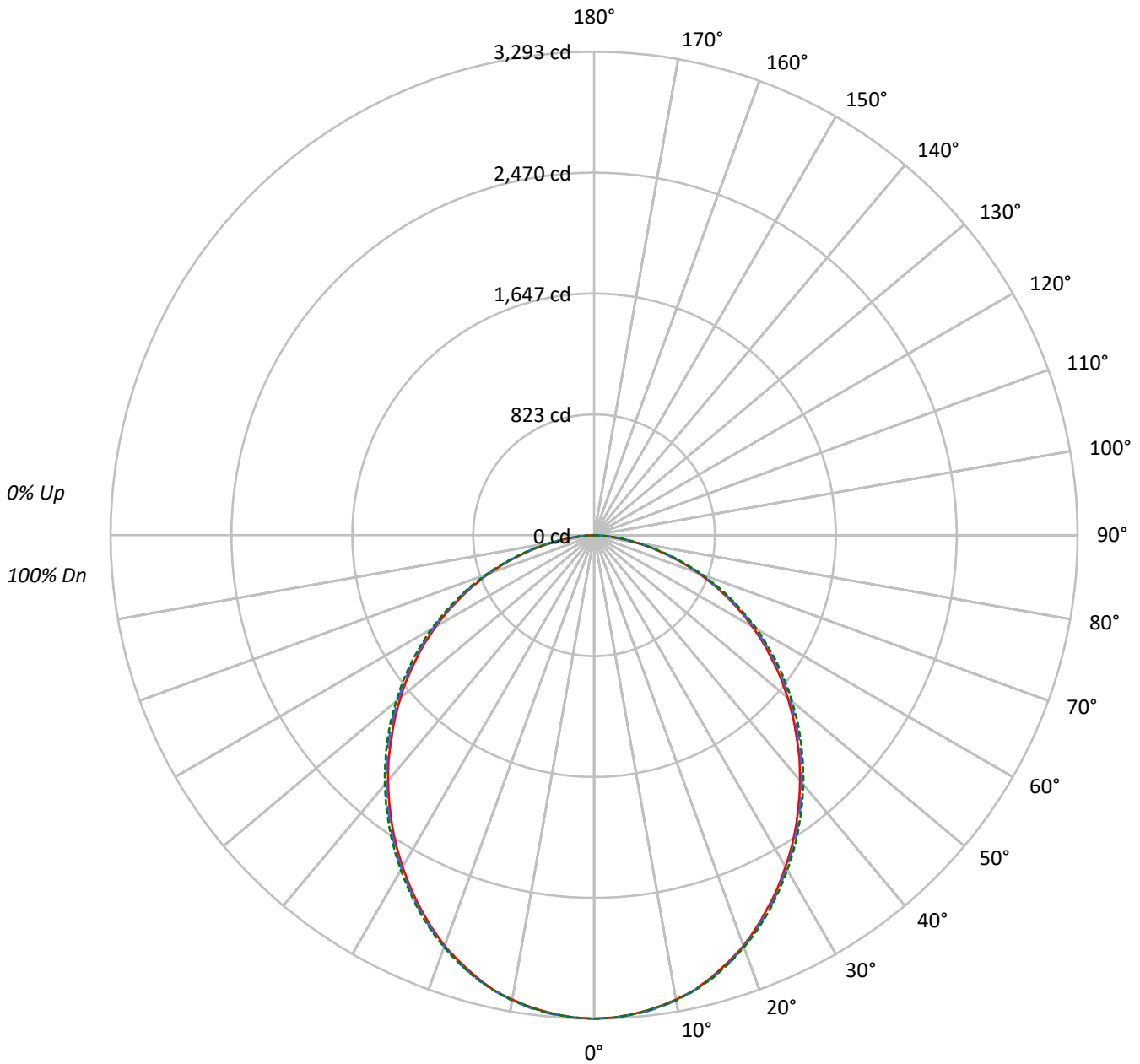
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8565.5 lumens
Efficiency: N/A
Efficacy: 82.9 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): 103.3
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

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Luminous Intensity Polar Plot



— 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°	8862	8862	8862
5°	8833	8844	8837
10°	8778	8791	8789
15°	8670	8693	8697
20°	8521	8539	8551
25°	8316	8355	8381
30°	8104	8149	8178
35°	7887	7941	7982
40°	7665	7725	7788
45°	7427	7518	7583
50°	7205	7291	7366
55°	6958	7051	7138
60°	6704	6793	6889
65°	6372	6478	6551
70°	5964	6045	6131
75°	5363	5463	5534
80°	4528	4646	4688
85°	3390	3538	3517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	3.6
10°-20°	878.8	10.3
20°-30°	1295.3	15.1
30°-40°	1511.7	17.6
40°-50°	1523.5	17.8
50°-60°	1344.6	15.7
60°-70°	1005.6	11.7
70°-80°	557.3	6.5
80°-90°	137.8	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°	2484.8	29.0
0°-40°	3996.6	46.7
0°-60°	6864.8	80.1
0°-90°	8565.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8565.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3293	3293	3293	3293	3293	
5°	3270	3274	3274	3275	3271	310
15°	3112	3118	3120	3123	3122	877
25°	2801	2807	2814	2819	2823	1290
35°	2401	2406	2417	2427	2430	1502
45°	1952	1964	1976	1989	1993	1508
55°	1483	1492	1503	1517	1522	1328
65°	1001	1006	1017	1026	1029	991
75°	516	519	525	531	532	548
85°	110	113	115	113	114	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3293.3	3293.3	3293.3	3293.3	3293.3
2.5°	3287.1	3290.6	3287.8	3290.6	3287.8
5°	3270.0	3274.1	3274.1	3274.8	3271.4
7.5°	3244.6	3249.4	3251.5	3252.2	3247.4
10°	3212.4	3217.2	3217.2	3219.9	3216.5
12.5°	3171.2	3174.0	3173.3	3177.4	3174.6
15°	3112.2	3117.7	3120.5	3123.2	3121.8
17.5°	3046.4	3053.2	3055.3	3060.1	3056.7
20°	2975.7	2980.5	2981.9	2989.4	2986.0
22.5°	2891.3	2896.1	2900.9	2907.8	2908.5
25°	2800.8	2807.0	2813.8	2819.3	2822.7
27.5°	2707.5	2713.7	2719.8	2726.7	2728.1
30°	2608.0	2615.6	2622.4	2630.7	2632.0
32.5°	2507.9	2510.6	2520.9	2529.8	2534.0
35°	2400.9	2406.4	2417.3	2426.9	2429.7
37.5°	2291.8	2300.0	2311.7	2322.0	2324.7
40°	2182.1	2188.9	2199.2	2212.9	2217.0
42.5°	2070.9	2075.7	2089.4	2101.1	2104.5
45°	1951.6	1963.9	1975.6	1989.3	1992.7
47.5°	1837.7	1847.3	1859.0	1872.0	1877.5
50°	1721.1	1732.7	1741.7	1756.1	1759.5
52.5°	1604.5	1612.0	1624.4	1636.7	1642.2
55°	1483.1	1492.0	1502.9	1516.7	1521.5
57.5°	1366.4	1371.2	1383.6	1395.3	1399.4
60°	1245.7	1250.5	1262.2	1274.5	1280.0
62.5°	1125.0	1129.1	1138.7	1153.1	1153.1
65°	1000.8	1005.6	1017.3	1025.5	1028.9
67.5°	880.1	884.2	892.4	902.7	907.5
70°	758.0	761.4	768.3	778.6	779.3
72.5°	635.9	639.3	648.2	651.7	656.5
75°	515.8	518.6	525.4	530.9	532.3
77.5°	401.3	405.4	410.2	412.3	414.3
80°	292.2	296.3	299.8	301.8	302.5
82.5°	193.4	197.6	199.6	201.0	200.3
85°	109.8	113.2	114.6	113.2	113.9
87.5°	43.2	45.3	46.6	46.0	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)