

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: P708873

Luminaire Tested: **22APR-34-80L930-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708873
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34-80L930-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

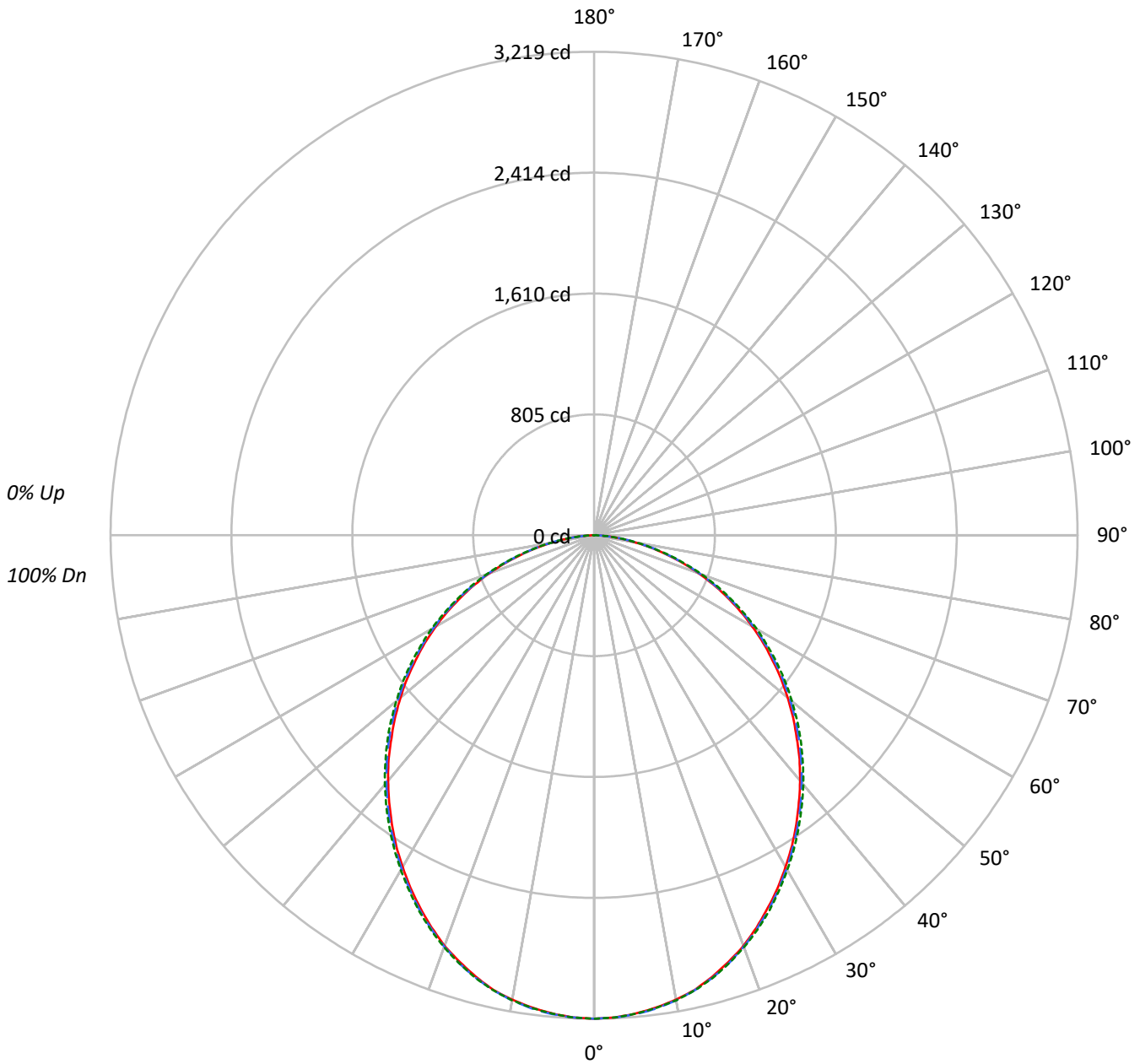
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8373.1 lumens
Efficiency: N/A
Efficacy: 81.1 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): 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°	8663	8663	8663
5°	8635	8646	8638
10°	8581	8593	8591
15°	8476	8498	8502
20°	8330	8347	8359
25°	8129	8167	8193
30°	7922	7965	7995
35°	7710	7763	7802
40°	7493	7552	7613
45°	7260	7349	7413
50°	7043	7127	7201
55°	6801	6893	6978
60°	6554	6640	6734
65°	6229	6332	6404
70°	5830	5909	5994
75°	5243	5340	5411
80°	4427	4541	4582
85°	3313	3458	3436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	3.6
10°-20°	859.1	10.3
20°-30°	1266.2	15.1
30°-40°	1477.8	17.6
40°-50°	1489.3	17.8
50°-60°	1314.4	15.7
60°-70°	983.0	11.7
70°-80°	544.8	6.5
80°-90°	134.7	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°	2429.0	29.0
0°-40°	3906.8	46.7
0°-60°	6710.6	80.1
0°-90°	8373.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8373.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3219	3219	3219	3219	3219	
5°	3196	3201	3201	3201	3198	303
15°	3042	3048	3050	3053	3052	857
25°	2738	2744	2751	2756	2759	1261
35°	2347	2352	2363	2372	2375	1468
45°	1908	1920	1931	1945	1948	1474
55°	1450	1458	1469	1483	1487	1298
65°	978	983	994	1002	1006	969
75°	504	507	514	519	520	536
85°	107	111	112	111	111	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3219.3	3219.3	3219.3	3219.3	3219.3
2.5°	3213.3	3216.7	3214.0	3216.7	3214.0
5°	3196.5	3200.6	3200.6	3201.2	3197.9
7.5°	3171.7	3176.4	3178.4	3179.1	3174.4
10°	3140.2	3144.9	3144.9	3147.6	3144.2
12.5°	3100.0	3102.7	3102.0	3106.0	3103.3
15°	3042.3	3047.7	3050.4	3053.0	3051.7
17.5°	2977.9	2984.6	2986.7	2991.3	2988.0
20°	2908.9	2913.6	2914.9	2922.3	2918.9
22.5°	2826.4	2831.1	2835.8	2842.5	2843.2
25°	2737.9	2743.9	2750.6	2756.0	2759.3
27.5°	2646.7	2652.7	2658.8	2665.5	2666.8
30°	2549.5	2556.8	2563.5	2571.6	2572.9
32.5°	2451.6	2454.2	2464.3	2473.0	2477.0
35°	2346.9	2352.3	2363.0	2372.4	2375.1
37.5°	2240.3	2248.4	2259.8	2269.8	2272.5
40°	2133.0	2139.7	2149.8	2163.2	2167.2
42.5°	2024.4	2029.1	2042.5	2053.9	2057.3
45°	1907.7	1919.8	1931.2	1944.6	1948.0
47.5°	1796.4	1805.8	1817.2	1829.9	1835.3
50°	1682.4	1693.8	1702.5	1716.6	1720.0
52.5°	1568.4	1575.8	1587.9	1599.9	1605.3
55°	1449.7	1458.5	1469.2	1482.6	1487.3
57.5°	1335.7	1340.4	1352.5	1363.9	1367.9
60°	1217.7	1222.4	1233.8	1245.9	1251.3
62.5°	1099.7	1103.7	1113.1	1127.2	1127.2
65°	978.3	983.0	994.4	1002.5	1005.8
67.5°	860.3	864.3	872.4	882.5	887.1
70°	741.0	744.3	751.0	761.1	761.8
72.5°	621.6	625.0	633.7	637.0	641.7
75°	504.3	506.9	513.6	519.0	520.4
77.5°	392.3	396.3	401.0	403.0	405.0
80°	285.7	289.7	293.0	295.0	295.7
82.5°	189.1	193.1	195.1	196.5	195.8
85°	107.3	110.6	112.0	110.6	111.3
87.5°	42.2	44.3	45.6	44.9	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)