

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: P708808

Luminaire Tested: **22APR-34L950-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708808
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34L950-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

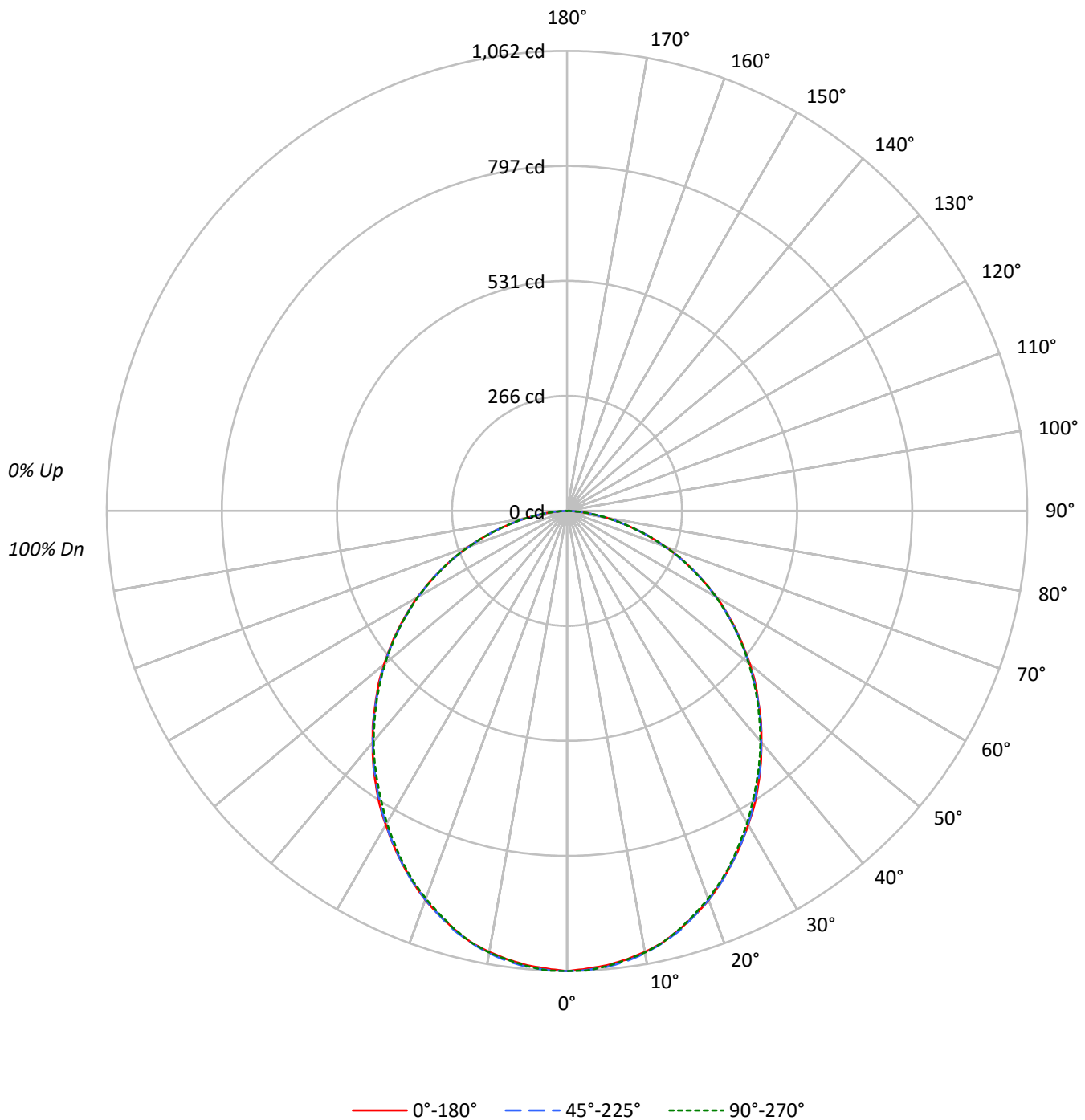
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2714.6 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.5
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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	47	42		53	47	42		52
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2859	2859	2859
5°	2844	2854	2850
10°	2825	2833	2829
15°	2788	2795	2786
20°	2738	2736	2728
25°	2669	2669	2660
30°	2599	2597	2583
35°	2529	2521	2507
40°	2451	2449	2439
45°	2377	2374	2365
50°	2307	2298	2292
55°	2228	2217	2217
60°	2144	2137	2140
65°	2032	2037	2023
70°	1899	1888	1888
75°	1694	1701	1701
80°	1433	1433	1444
85°	1087	1087	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.7
10°-20°	282.3	10.4
20°-30°	414.0	15.2
30°-40°	480.2	17.7
40°-50°	481.5	17.7
50°-60°	423.5	15.6
60°-70°	316.0	11.6
70°-80°	173.9	6.4
80°-90°	43.0	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°	796.5	29.3
0°-40°	1276.7	47.0
0°-60°	2181.6	80.4
0°-90°	2714.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2714.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1053	1057	1057	1057	1055	100
15°	1001	1005	1003	1002	1000	282
25°	899	903	899	898	896	414
35°	770	770	768	765	763	481
45°	624	627	624	623	622	483
55°	475	476	473	473	473	425
65°	319	319	320	318	318	316
75°	163	164	164	162	164	174
85°	35	36	35	35	36	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.5	1062.5	1062.5	1062.5	1062.5
2.5°	1058.1	1061.8	1061.1	1063.3	1061.8
5°	1053.0	1056.7	1056.7	1056.7	1055.2
7.5°	1044.9	1048.6	1048.6	1048.6	1045.6
10°	1033.9	1037.6	1036.8	1036.8	1035.4
12.5°	1020.7	1022.9	1021.4	1021.4	1020.7
15°	1000.9	1005.3	1003.1	1001.6	1000.2
17.5°	978.9	983.3	979.6	978.9	976.7
20°	956.1	959.1	955.4	955.4	952.5
22.5°	928.2	931.2	929.0	927.5	926.0
25°	898.9	902.6	898.9	898.2	896.0
27.5°	868.8	871.7	868.1	865.1	863.7
30°	836.5	838.7	835.8	833.6	831.4
32.5°	805.0	805.0	802.0	799.8	796.9
35°	769.7	770.5	767.5	765.3	763.1
37.5°	734.5	736.0	733.1	730.9	729.4
40°	697.8	699.3	697.1	694.9	694.2
42.5°	662.6	662.6	661.1	658.9	657.5
45°	624.5	626.7	623.7	623.0	621.5
47.5°	589.2	589.2	586.3	584.8	584.8
50°	551.1	552.5	548.9	548.1	547.4
52.5°	512.9	512.2	511.4	510.7	510.0
55°	474.8	475.5	472.6	473.3	472.6
57.5°	436.6	435.9	435.1	434.4	433.7
60°	398.4	397.7	397.0	396.2	397.7
62.5°	358.8	359.6	357.4	359.6	356.6
65°	319.2	319.2	319.9	318.5	317.7
67.5°	281.0	281.0	279.6	279.6	282.5
70°	241.4	242.1	239.9	242.9	239.9
72.5°	202.5	203.3	202.5	201.8	203.3
75°	162.9	163.6	163.6	162.2	163.6
77.5°	126.9	127.7	126.9	126.2	126.9
80°	92.5	93.2	92.5	91.7	93.2
82.5°	61.6	62.4	61.6	61.6	62.4
85°	35.2	36.0	35.2	35.2	36.0
87.5°	13.9	14.7	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)