

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: P708999

Luminaire Tested: **24APR-85L950-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708999
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-85L950-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

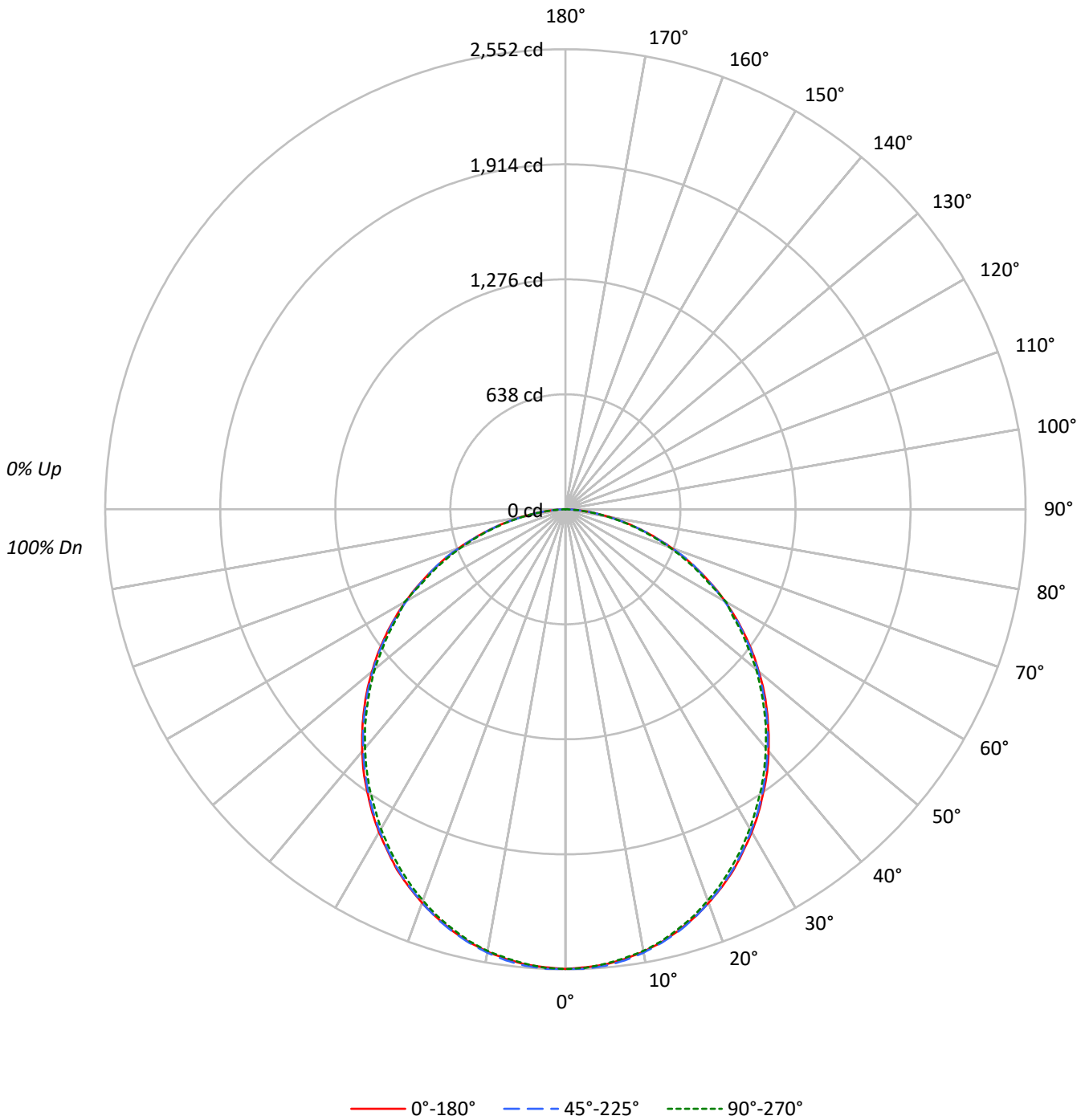
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6791.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 78.3
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





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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	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	61	61	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3431	3431	3431
5°	3423	3433	3419
10°	3404	3412	3399
15°	3372	3377	3359
20°	3327	3326	3307
25°	3276	3269	3244
30°	3213	3201	3177
35°	3145	3134	3109
40°	3078	3062	3035
45°	3008	2992	2961
50°	2930	2919	2889
55°	2850	2835	2799
60°	2755	2737	2774
65°	2629	2621	2572
70°	2467	2470	2403
75°	2240	2223	2172
80°	1925	1899	1849
85°	1471	1459	1345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	3.5
10°-20°	682.2	10.0
20°-30°	1012.7	14.9
30°-40°	1192.0	17.6
40°-50°	1211.4	17.8
50°-60°	1076.9	15.9
60°-70°	812.3	12.0
70°-80°	451.2	6.6
80°-90°	112.2	1.7
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°	1935.7	28.5
0°-40°	3127.8	46.1
0°-60°	5416.0	79.7
0°-90°	6791.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6791.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2550	2550	2550	2550	2550	
5°	2534	2538	2542	2538	2531	241
15°	2420	2423	2424	2419	2411	682
25°	2207	2205	2202	2192	2185	1016
35°	1915	1916	1908	1897	1893	1199
45°	1581	1581	1573	1560	1556	1219
55°	1215	1206	1209	1196	1193	1086
65°	826	821	823	813	808	818
75°	431	425	428	424	418	457
85°	95	93	94	90	87	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2549.9	2549.9	2549.9	2549.9	2549.9
2.5°	2543.4	2548.3	2551.5	2547.4	2546.6
5°	2534.4	2538.5	2541.7	2537.7	2531.2
7.5°	2516.5	2521.4	2523.8	2519.8	2510.8
10°	2491.3	2496.1	2497.0	2492.9	2488.0
12.5°	2460.3	2463.6	2463.6	2460.3	2454.6
15°	2420.4	2422.8	2424.5	2418.8	2411.4
17.5°	2374.8	2378.9	2377.2	2368.3	2365.0
20°	2323.5	2326.7	2322.7	2317.0	2309.6
22.5°	2267.3	2268.1	2264.8	2258.3	2251.0
25°	2207.0	2205.4	2202.1	2192.4	2185.0
27.5°	2137.0	2140.2	2132.1	2123.1	2118.3
30°	2067.8	2068.6	2060.4	2049.0	2045.0
32.5°	1993.7	1992.0	1986.3	1974.1	1967.6
35°	1914.7	1915.5	1908.1	1896.7	1892.7
37.5°	1838.1	1833.2	1827.5	1814.5	1812.0
40°	1752.6	1751.8	1743.6	1732.2	1728.2
42.5°	1667.1	1666.3	1659.7	1648.3	1645.1
45°	1580.8	1580.8	1572.6	1559.6	1556.3
47.5°	1492.8	1489.5	1483.8	1472.4	1468.4
50°	1400.0	1397.5	1394.3	1381.2	1380.4
52.5°	1308.7	1307.1	1301.4	1290.0	1283.5
55°	1215.1	1206.1	1208.6	1195.5	1193.1
57.5°	1119.0	1110.0	1114.9	1103.5	1098.6
60°	1023.7	1014.7	1017.2	1009.9	1031.0
62.5°	926.0	920.3	920.3	937.4	906.4
65°	825.8	820.9	823.4	812.8	807.9
67.5°	727.3	719.9	735.4	715.9	707.7
70°	627.1	622.2	627.9	616.5	610.8
72.5°	527.7	523.7	522.0	518.0	513.1
75°	430.8	425.1	427.6	424.3	417.8
77.5°	336.3	334.7	333.9	329.8	324.9
80°	248.4	246.8	245.1	241.9	238.6
82.5°	166.1	164.5	163.7	162.1	161.3
85°	95.3	92.8	94.5	90.4	87.1
87.5°	35.8	35.0	36.6	33.4	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)