

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: P708980

Luminaire Tested: **24APR-76L850-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708980
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-76L850-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

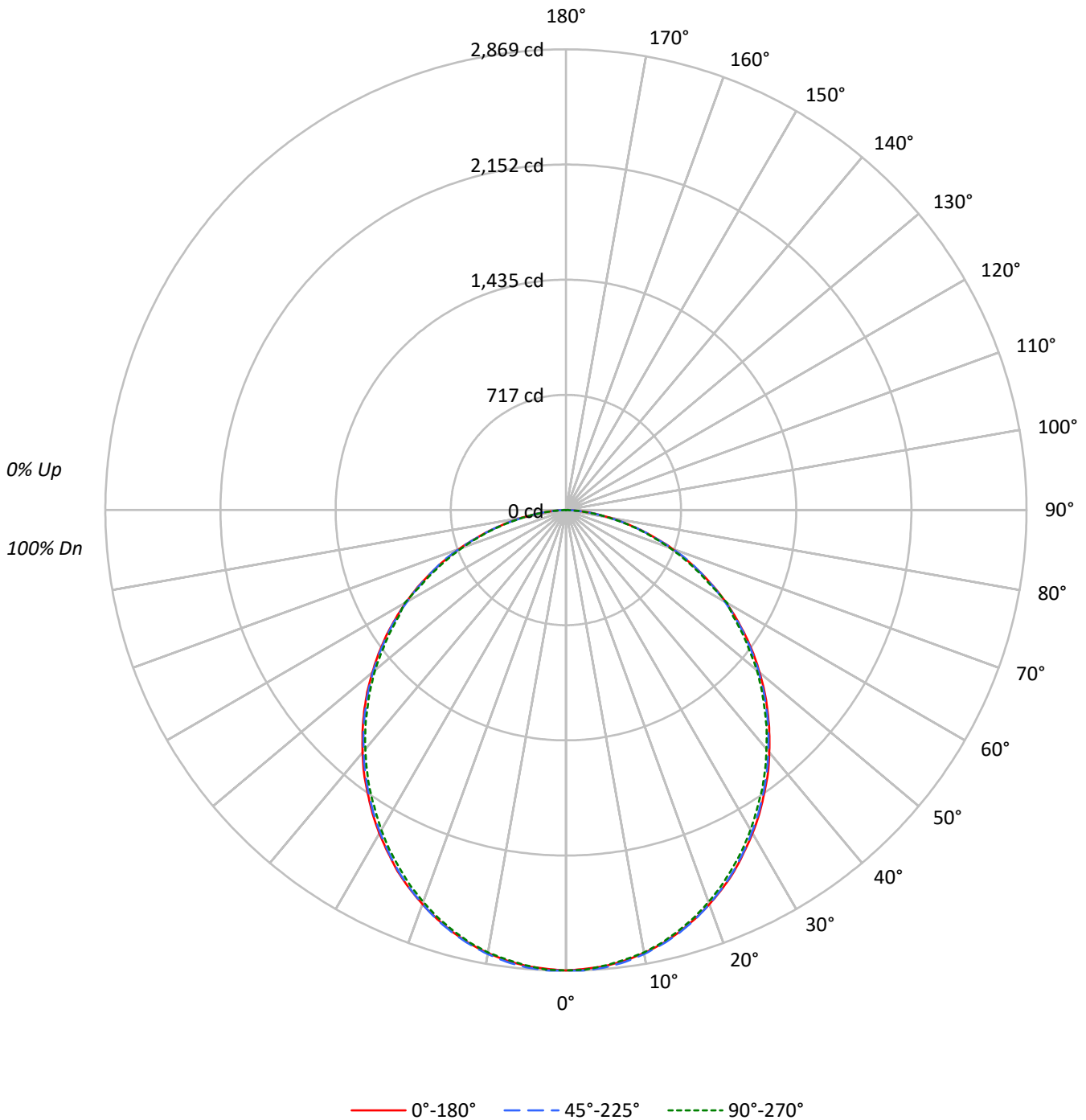
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7637.5 lumens
Efficiency: N/A
Efficacy: 110.0 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): 69.4
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°	3858	3858	3858
5°	3849	3861	3844
10°	3828	3836	3822
15°	3791	3798	3777
20°	3741	3740	3719
25°	3685	3676	3648
30°	3613	3600	3573
35°	3537	3525	3496
40°	3462	3444	3413
45°	3382	3365	3330
50°	3295	3282	3249
55°	3205	3188	3147
60°	3098	3078	3120
65°	2956	2948	2892
70°	2774	2778	2702
75°	2519	2499	2442
80°	2164	2136	2079
85°	1655	1639	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.8	3.5
10°-20°	767.2	10.0
20°-30°	1138.8	14.9
30°-40°	1340.4	17.6
40°-50°	1362.2	17.8
50°-60°	1211.0	15.9
60°-70°	913.5	12.0
70°-80°	507.4	6.6
80°-90°	126.1	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°	2176.8	28.5
0°-40°	3517.3	46.1
0°-60°	6090.5	79.7
0°-90°	7637.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7637.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2867	2867	2867	2867	2867	
5°	2850	2855	2858	2854	2846	270
15°	2722	2725	2726	2720	2712	767
25°	2482	2480	2476	2465	2457	1142
35°	2153	2154	2146	2133	2128	1348
45°	1778	1778	1768	1754	1750	1371
55°	1366	1356	1359	1344	1342	1221
65°	929	923	926	914	908	919
75°	484	478	481	477	470	514
85°	107	104	106	102	98	129
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2867.4	2867.4	2867.4	2867.4	2867.4
2.5°	2860.1	2865.6	2869.3	2864.7	2863.8
5°	2850.0	2854.6	2858.3	2853.7	2846.4
7.5°	2829.9	2835.4	2838.1	2833.5	2823.5
10°	2801.5	2807.0	2807.9	2803.3	2797.8
12.5°	2766.7	2770.4	2770.4	2766.7	2760.3
15°	2721.8	2724.6	2726.4	2720.0	2711.7
17.5°	2670.5	2675.1	2673.3	2663.2	2659.5
20°	2612.8	2616.5	2611.9	2605.5	2597.3
22.5°	2549.6	2550.6	2546.9	2539.6	2531.3
25°	2481.9	2480.0	2476.4	2465.4	2457.1
27.5°	2403.1	2406.8	2397.6	2387.5	2382.0
30°	2325.3	2326.2	2317.0	2304.2	2299.6
32.5°	2241.9	2240.1	2233.7	2219.9	2212.6
35°	2153.1	2154.0	2145.8	2132.9	2128.4
37.5°	2067.0	2061.5	2055.1	2040.4	2037.7
40°	1970.8	1969.9	1960.8	1948.0	1943.4
42.5°	1874.7	1873.8	1866.4	1853.6	1850.0
45°	1777.6	1777.6	1768.4	1753.8	1750.1
47.5°	1678.7	1675.0	1668.6	1655.8	1651.2
50°	1574.3	1571.5	1567.9	1553.2	1552.3
52.5°	1471.7	1469.9	1463.5	1450.7	1443.3
55°	1366.4	1356.3	1359.1	1344.4	1341.7
57.5°	1258.3	1248.3	1253.8	1240.9	1235.4
60°	1151.2	1141.1	1143.9	1135.6	1159.4
62.5°	1041.3	1034.9	1034.9	1054.1	1019.3
65°	928.6	923.1	925.9	914.0	908.5
67.5°	817.8	809.6	827.0	805.0	795.8
70°	705.2	699.7	706.1	693.3	686.9
72.5°	593.5	588.9	587.0	582.5	577.0
75°	484.5	478.1	480.8	477.1	469.8
77.5°	378.2	376.4	375.5	370.9	365.4
80°	279.3	277.5	275.7	272.0	268.3
82.5°	186.8	185.0	184.1	182.2	181.3
85°	107.2	104.4	106.2	101.7	98.0
87.5°	40.3	39.4	41.2	37.5	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)