

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: P708990

Luminaire Tested: **24APR-76L935-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708990
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-76L935-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

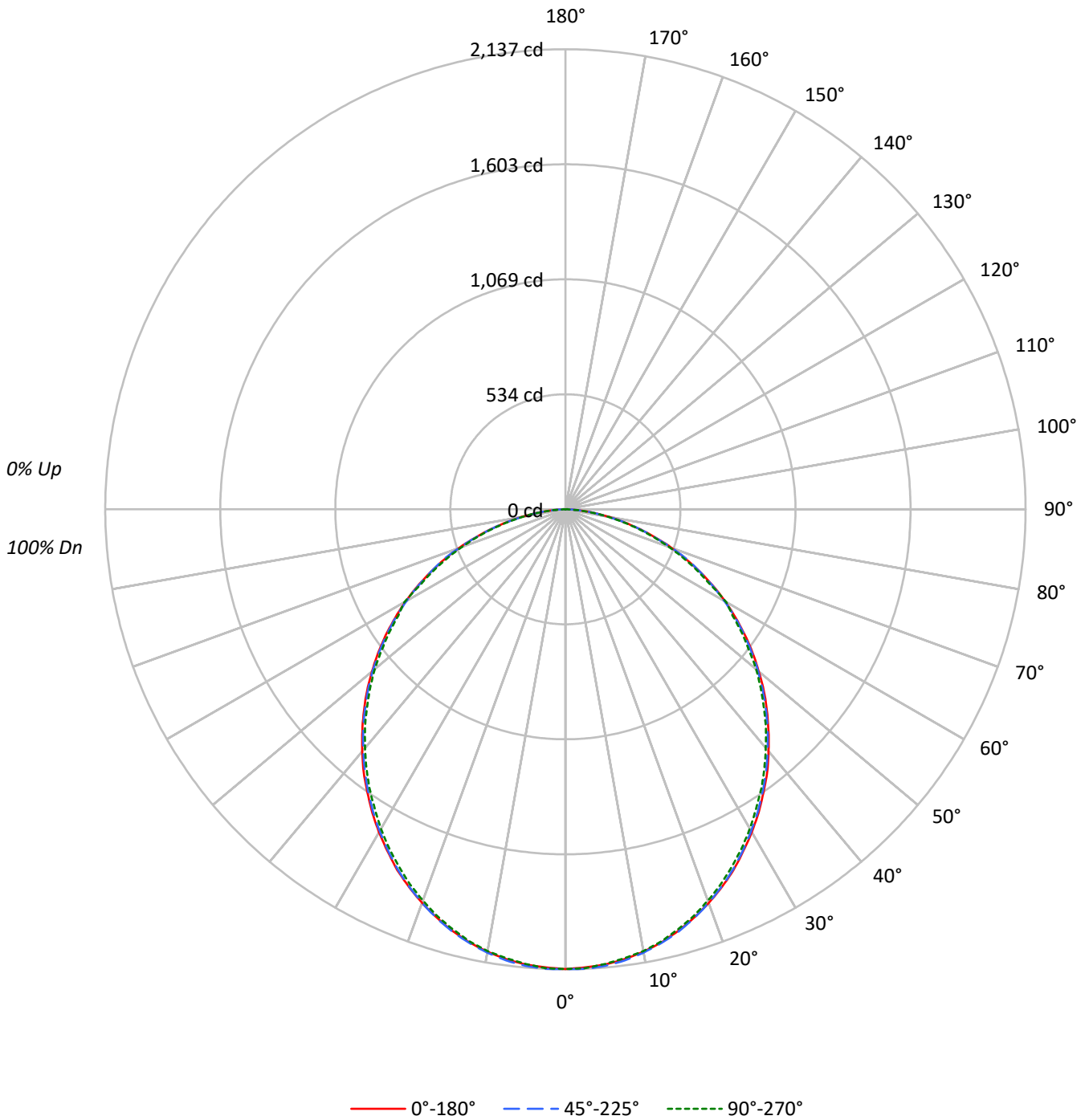
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5688.2 lumens
Efficiency: N/A
Efficacy: 82.0 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				
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°	2873	2873	2873
5°	2867	2875	2863
10°	2851	2857	2847
15°	2824	2828	2813
20°	2786	2785	2770
25°	2744	2738	2717
30°	2691	2681	2661
35°	2634	2625	2604
40°	2578	2565	2542
45°	2519	2506	2480
50°	2454	2444	2420
55°	2387	2374	2344
60°	2307	2292	2324
65°	2202	2195	2154
70°	2066	2069	2013
75°	1876	1862	1819
80°	1612	1591	1548
85°	1232	1221	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	3.5
10°-20°	571.4	10.0
20°-30°	848.1	14.9
30°-40°	998.3	17.6
40°-50°	1014.6	17.8
50°-60°	901.9	15.9
60°-70°	680.3	12.0
70°-80°	377.9	6.6
80°-90°	94.0	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°	1621.2	28.5
0°-40°	2619.6	46.1
0°-60°	4536.0	79.7
0°-90°	5688.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5688.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2123	2126	2129	2125	2120	201
15°	2027	2029	2030	2026	2020	571
25°	1848	1847	1844	1836	1830	851
35°	1604	1604	1598	1589	1585	1004
45°	1324	1324	1317	1306	1304	1021
55°	1018	1010	1012	1001	999	909
65°	692	688	690	681	677	685
75°	361	356	358	355	350	383
85°	80	78	79	76	73	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.6	2135.6	2135.6	2135.6	2135.6
2.5°	2130.1	2134.2	2136.9	2133.5	2132.9
5°	2122.6	2126.0	2128.8	2125.4	2119.9
7.5°	2107.6	2111.7	2113.8	2110.3	2102.8
10°	2086.5	2090.6	2091.3	2087.8	2083.7
12.5°	2060.6	2063.3	2063.3	2060.6	2055.8
15°	2027.1	2029.2	2030.5	2025.8	2019.6
17.5°	1988.9	1992.3	1991.0	1983.5	1980.8
20°	1946.0	1948.7	1945.3	1940.5	1934.4
22.5°	1898.9	1899.6	1896.9	1891.4	1885.3
25°	1848.4	1847.1	1844.3	1836.2	1830.0
27.5°	1789.8	1792.5	1785.7	1778.2	1774.1
30°	1731.8	1732.5	1725.7	1716.1	1712.7
32.5°	1669.7	1668.4	1663.6	1653.4	1647.9
35°	1603.6	1604.2	1598.1	1588.6	1585.1
37.5°	1539.4	1535.4	1530.6	1519.7	1517.6
40°	1467.8	1467.1	1460.3	1450.8	1447.4
42.5°	1396.2	1395.5	1390.1	1380.5	1377.8
45°	1323.9	1323.9	1317.1	1306.2	1303.5
47.5°	1250.2	1247.5	1242.7	1233.2	1229.8
50°	1172.5	1170.4	1167.7	1156.8	1156.1
52.5°	1096.1	1094.7	1090.0	1080.4	1075.0
55°	1017.7	1010.2	1012.2	1001.3	999.2
57.5°	937.2	929.7	933.8	924.2	920.1
60°	857.4	849.9	851.9	845.8	863.5
62.5°	775.5	770.7	770.7	785.1	759.2
65°	691.6	687.5	689.6	680.7	676.6
67.5°	609.1	603.0	615.9	599.5	592.7
70°	525.2	521.1	525.9	516.3	511.6
72.5°	442.0	438.6	437.2	433.8	429.7
75°	360.8	356.0	358.1	355.4	349.9
77.5°	281.7	280.3	279.7	276.2	272.1
80°	208.0	206.7	205.3	202.6	199.8
82.5°	139.1	137.8	137.1	135.7	135.1
85°	79.8	77.8	79.1	75.7	73.0
87.5°	30.0	29.3	30.7	28.0	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)