

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: P708953

Luminaire Tested: **24APR-X-116L935-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708953
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-X-116L935-UNV
Description: ArcMed Patient Recessed 2x4 Fixture EXAM Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

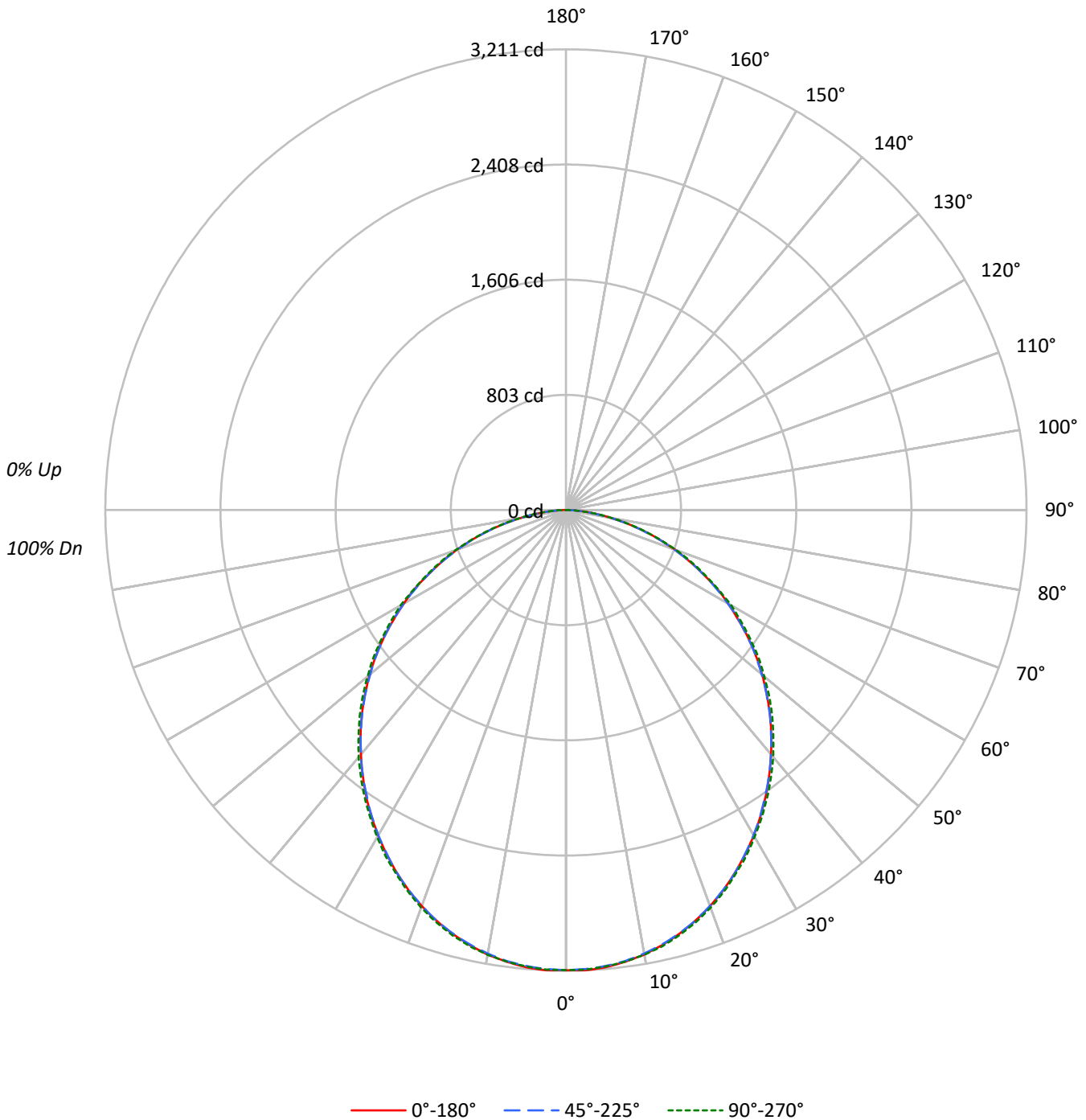
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8704.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 85.9
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	94	98	94	91	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4316	4316	4316
5°	4320	4309	4313
10°	4298	4289	4300
15°	4258	4255	4271
20°	4207	4204	4223
25°	4140	4142	4155
30°	4068	4065	4088
35°	3991	3982	4018
40°	3906	3904	3948
45°	3826	3823	3869
50°	3737	3730	3780
55°	3635	3630	3681
60°	3516	3514	3581
65°	3356	3362	3401
70°	3182	3156	3222
75°	2908	2885	2940
80°	2516	2485	2536
85°	1979	1959	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	3.5
10°-20°	862.1	9.9
20°-30°	1285.7	14.8
30°-40°	1521.3	17.5
40°-50°	1554.5	17.9
50°-60°	1389.2	16.0
60°-70°	1047.1	12.0
70°-80°	589.4	6.8
80°-90°	151.4	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°	2451.0	28.2
0°-40°	3972.3	45.6
0°-60°	6916.1	79.5
0°-90°	8704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3207	3207	3207	3207	3207	
5°	3199	3194	3190	3193	3193	304
15°	3057	3053	3054	3061	3066	862
25°	2789	2785	2790	2799	2799	1285
35°	2430	2425	2424	2440	2446	1519
45°	2010	2009	2009	2025	2033	1551
55°	1550	1550	1548	1561	1569	1384
65°	1054	1049	1056	1066	1068	1047
75°	559	549	555	552	566	592
85°	128	123	127	129	130	153
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3207.4	3207.4	3207.4	3207.4	3207.4
2.5°	3210.9	3206.0	3202.5	3204.3	3205.6
5°	3198.6	3194.1	3190.2	3193.3	3193.3
7.5°	3175.2	3173.0	3169.9	3172.6	3173.4
10°	3146.1	3141.3	3139.1	3145.2	3147.5
12.5°	3105.2	3099.4	3101.2	3109.1	3112.7
15°	3056.7	3052.7	3054.5	3060.7	3066.4
17.5°	3001.6	2997.2	3001.2	3006.5	3011.8
20°	2938.2	2933.8	2936.0	2943.5	2949.2
22.5°	2867.7	2863.3	2866.0	2872.6	2878.7
25°	2788.9	2784.9	2789.8	2798.6	2799.0
27.5°	2706.5	2702.1	2703.4	2712.7	2721.0
30°	2618.4	2612.7	2616.6	2625.9	2631.2
32.5°	2525.9	2520.6	2523.7	2534.3	2540.4
35°	2429.9	2424.6	2424.1	2440.4	2446.2
37.5°	2328.1	2325.0	2327.7	2340.9	2347.9
40°	2224.1	2219.7	2222.8	2239.6	2247.9
42.5°	2118.9	2116.2	2116.7	2133.4	2140.0
45°	2010.5	2008.7	2009.2	2024.6	2033.4
47.5°	1898.6	1894.6	1896.4	1912.3	1921.5
50°	1785.4	1784.5	1781.9	1797.7	1805.7
52.5°	1669.1	1667.3	1667.3	1681.4	1692.9
55°	1549.7	1549.7	1547.5	1561.2	1569.1
57.5°	1424.6	1425.5	1429.0	1441.4	1449.3
60°	1306.6	1302.2	1305.7	1316.7	1330.8
62.5°	1188.9	1175.7	1179.2	1189.4	1195.1
65°	1054.1	1049.3	1055.9	1066.0	1068.2
67.5°	930.4	925.5	929.0	936.1	945.8
70°	808.8	796.0	802.2	809.7	818.9
72.5°	681.0	670.0	678.8	685.0	691.6
75°	559.4	548.9	555.0	552.4	565.6
77.5°	437.4	429.9	435.2	440.5	450.6
80°	324.7	316.3	320.7	322.9	327.3
82.5°	221.1	215.0	216.3	225.1	222.5
85°	128.2	122.9	126.9	128.6	130.4
87.5°	50.7	45.8	49.8	51.1	51.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)