

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: P708874

Luminaire Tested: **22APR-30-71L930-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708874
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30-71L930-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

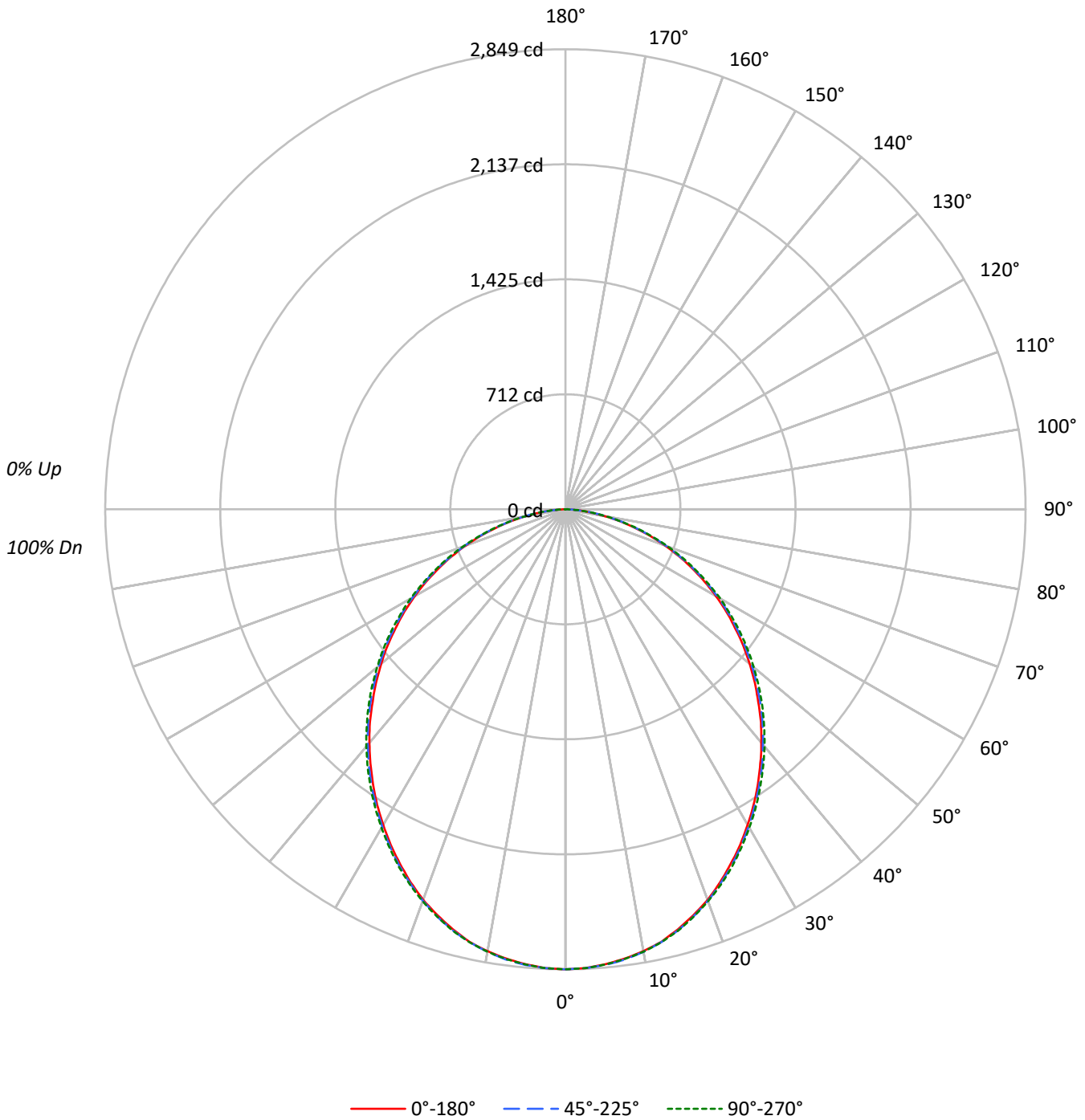
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7410.2 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 90.1
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	81	76	82	78	74	79	76	73	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	61	53	47	59	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7667	7667	7667
5°	7642	7651	7645
10°	7594	7605	7603
15°	7501	7521	7524
20°	7372	7387	7397
25°	7194	7228	7251
30°	7011	7049	7075
35°	6823	6870	6905
40°	6631	6683	6738
45°	6425	6504	6561
50°	6233	6308	6373
55°	6019	6100	6176
60°	5800	5877	5960
65°	5513	5604	5668
70°	5160	5230	5304
75°	4640	4727	4788
80°	3918	4018	4055
85°	2933	3060	3041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.8	3.6
10°-20°	760.3	10.3
20°-30°	1120.6	15.1
30°-40°	1307.8	17.6
40°-50°	1318.0	17.8
50°-60°	1163.3	15.7
60°-70°	870.0	11.7
70°-80°	482.1	6.5
80°-90°	119.3	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°	2149.7	29.0
0°-40°	3457.5	46.7
0°-60°	5938.8	80.1
0°-90°	7410.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7410.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2849	2849	2849	2849	2849	
5°	2829	2832	2832	2833	2830	268
15°	2692	2697	2700	2702	2701	759
25°	2423	2428	2434	2439	2442	1116
35°	2077	2082	2091	2100	2102	1299
45°	1688	1699	1709	1721	1724	1304
55°	1283	1291	1300	1312	1316	1149
65°	866	870	880	887	890	858
75°	446	449	455	459	460	474
85°	95	98	99	98	98	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2849.1	2849.1	2849.1	2849.1	2849.1
2.5°	2843.8	2846.7	2844.4	2846.7	2844.4
5°	2828.9	2832.5	2832.5	2833.1	2830.1
7.5°	2807.0	2811.1	2812.9	2813.5	2809.3
10°	2779.1	2783.2	2783.2	2785.6	2782.6
12.5°	2743.5	2745.8	2745.3	2748.8	2746.4
15°	2692.4	2697.2	2699.6	2701.9	2700.7
17.5°	2635.5	2641.4	2643.2	2647.3	2644.4
20°	2574.3	2578.5	2579.7	2586.2	2583.2
22.5°	2501.4	2505.5	2509.7	2515.6	2516.2
25°	2423.0	2428.4	2434.3	2439.0	2442.0
27.5°	2342.3	2347.7	2353.0	2358.9	2360.1
30°	2256.3	2262.8	2268.7	2275.8	2277.0
32.5°	2169.6	2172.0	2180.9	2188.6	2192.2
35°	2077.0	2081.8	2091.3	2099.6	2102.0
37.5°	1982.7	1989.8	1999.9	2008.8	2011.2
40°	1887.7	1893.7	1902.6	1914.4	1918.0
42.5°	1791.6	1795.8	1807.6	1817.7	1820.7
45°	1688.3	1699.0	1709.1	1721.0	1723.9
47.5°	1589.8	1598.1	1608.2	1619.5	1624.2
50°	1488.9	1499.0	1506.7	1519.2	1522.2
52.5°	1388.1	1394.6	1405.3	1415.9	1420.7
55°	1283.0	1290.7	1300.2	1312.1	1316.3
57.5°	1182.1	1186.3	1197.0	1207.1	1210.6
60°	1077.7	1081.8	1091.9	1102.6	1107.4
62.5°	973.2	976.8	985.1	997.6	997.6
65°	865.8	870.0	880.1	887.2	890.2
67.5°	761.4	764.9	772.1	781.0	785.1
70°	655.8	658.7	664.7	673.6	674.1
72.5°	550.1	553.1	560.8	563.8	567.9
75°	446.3	448.6	454.6	459.3	460.5
77.5°	347.2	350.7	354.9	356.7	358.4
80°	252.8	256.4	259.3	261.1	261.7
82.5°	167.4	170.9	172.7	173.9	173.3
85°	95.0	97.9	99.1	97.9	98.5
87.5°	37.4	39.2	40.4	39.8	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)