

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: P708879

Luminaire Tested: **22APR-30-71L935-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708879
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30-71L935-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

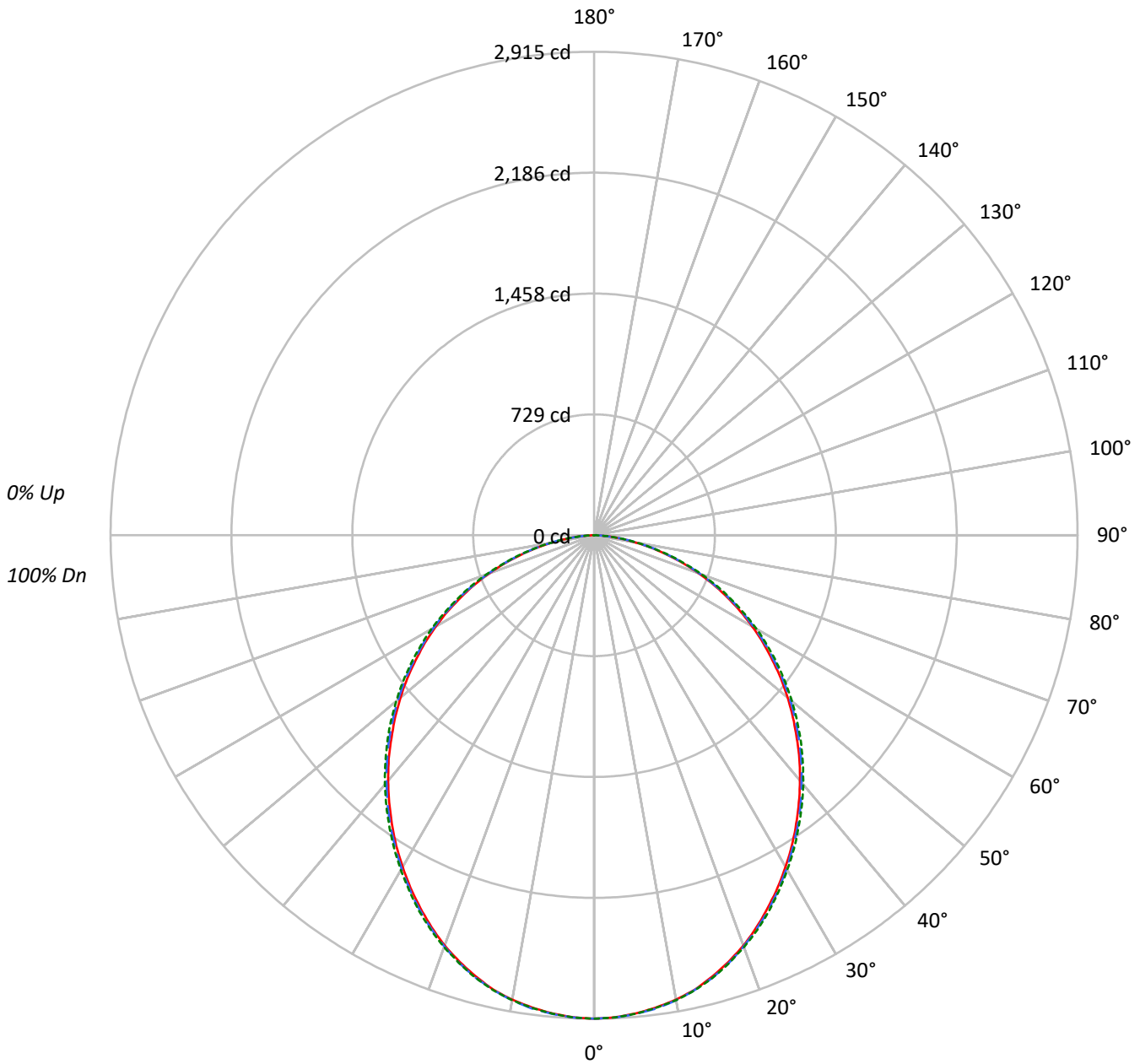
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7580.5 lumens
Efficiency: N/A
Efficacy: 84.1 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



— 0°-180° - - 45°-225° - - - 90°-270°



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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°	7843	7843	7843
5°	7817	7827	7821
10°	7768	7780	7778
15°	7673	7694	7697
20°	7542	7557	7568
25°	7360	7394	7417
30°	7172	7212	7238
35°	6980	7028	7064
40°	6784	6837	6893
45°	6573	6654	6712
50°	6377	6453	6519
55°	6158	6240	6317
60°	5934	6012	6097
65°	5640	5733	5798
70°	5278	5349	5426
75°	4746	4835	4898
80°	4007	4111	4148
85°	2998	3131	3112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.0	3.6
10°-20°	777.8	10.3
20°-30°	1146.4	15.1
30°-40°	1337.9	17.6
40°-50°	1348.4	17.8
50°-60°	1190.0	15.7
60°-70°	890.0	11.7
70°-80°	493.2	6.5
80°-90°	122.0	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°	2199.1	29.0
0°-40°	3537.0	46.7
0°-60°	6075.3	80.1
0°-90°	7580.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7580.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2915	2915	2915	2915	2915	
5°	2894	2898	2898	2898	2895	275
15°	2754	2759	2762	2764	2763	776
25°	2479	2484	2490	2495	2498	1142
35°	2125	2130	2139	2148	2150	1329
45°	1727	1738	1748	1760	1764	1334
55°	1312	1320	1330	1342	1346	1175
65°	886	890	900	908	911	877
75°	456	459	465	470	471	485
85°	97	100	101	100	101	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2914.6	2914.6	2914.6	2914.6	2914.6
2.5°	2909.1	2912.1	2909.7	2912.1	2909.7
5°	2893.9	2897.6	2897.6	2898.2	2895.2
7.5°	2871.5	2875.7	2877.5	2878.2	2873.9
10°	2842.9	2847.2	2847.2	2849.6	2846.6
12.5°	2806.5	2808.9	2808.3	2812.0	2809.6
15°	2754.3	2759.2	2761.6	2764.0	2762.8
17.5°	2696.0	2702.1	2703.9	2708.2	2705.1
20°	2633.5	2637.8	2639.0	2645.6	2642.6
22.5°	2558.8	2563.1	2567.3	2573.4	2574.0
25°	2478.7	2484.2	2490.2	2495.1	2498.1
27.5°	2396.1	2401.6	2407.1	2413.1	2414.3
30°	2308.1	2314.8	2320.9	2328.1	2329.4
32.5°	2219.5	2221.9	2231.0	2238.9	2242.5
35°	2124.8	2129.6	2139.3	2147.8	2150.3
37.5°	2028.2	2035.5	2045.9	2055.0	2057.4
40°	1931.1	1937.2	1946.3	1958.4	1962.1
42.5°	1832.8	1837.0	1849.2	1859.5	1862.5
45°	1727.1	1738.1	1748.4	1760.5	1763.6
47.5°	1626.4	1634.9	1645.2	1656.7	1661.6
50°	1523.2	1533.5	1541.4	1554.1	1557.2
52.5°	1420.0	1426.6	1437.6	1448.5	1453.3
55°	1312.5	1320.4	1330.1	1342.2	1346.5
57.5°	1209.3	1213.5	1224.5	1234.8	1238.4
60°	1102.5	1106.7	1117.0	1127.9	1132.8
62.5°	995.6	999.2	1007.7	1020.5	1020.5
65°	885.7	890.0	900.3	907.6	910.6
67.5°	778.9	782.5	789.8	798.9	803.2
70°	670.8	673.9	679.9	689.0	689.6
72.5°	562.8	565.8	573.7	576.7	581.0
75°	456.5	459.0	465.0	469.9	471.1
77.5°	355.1	358.8	363.0	364.9	366.7
80°	258.6	262.3	265.3	267.1	267.7
82.5°	171.2	174.8	176.7	177.9	177.3
85°	97.1	100.2	101.4	100.2	100.8
87.5°	38.2	40.1	41.3	40.7	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)