

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: P708891

Luminaire Tested: **22APR-22-52L950-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708891
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22-52L950-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

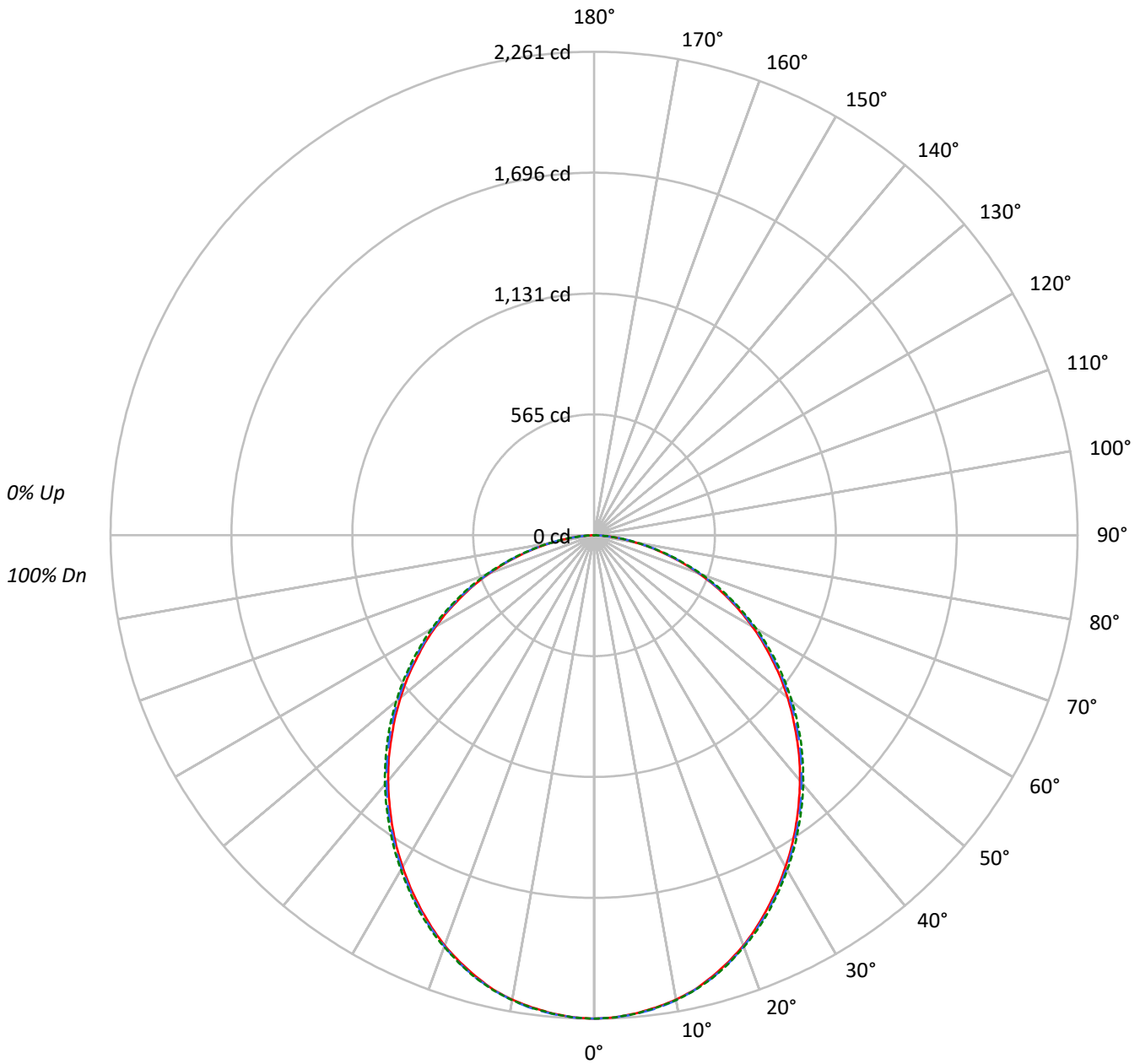
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5879.5 lumens
Efficiency: N/A
Efficacy: 92.2 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): 63.8
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°	6083	6083	6083
5°	6063	6071	6066
10°	6025	6034	6033
15°	5952	5967	5970
20°	5849	5861	5869
25°	5708	5735	5753
30°	5563	5593	5614
35°	5414	5451	5479
40°	5262	5303	5346
45°	5098	5161	5205
50°	4946	5005	5056
55°	4776	4840	4900
60°	4602	4663	4729
65°	4374	4446	4497
70°	4094	4150	4209
75°	3682	3750	3799
80°	3109	3189	3217
85°	2325	2427	2414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	3.6
10°-20°	603.2	10.3
20°-30°	889.1	15.1
30°-40°	1037.7	17.6
40°-50°	1045.8	17.8
50°-60°	923.0	15.7
60°-70°	690.3	11.7
70°-80°	382.5	6.5
80°-90°	94.6	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°	1705.6	29.0
0°-40°	2743.3	46.7
0°-60°	4712.1	80.1
0°-90°	5879.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5879.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2261	2261	2261	2261	2261	
5°	2245	2247	2247	2248	2246	213
15°	2136	2140	2142	2144	2143	602
25°	1922	1927	1931	1935	1938	886
35°	1648	1652	1659	1666	1668	1031
45°	1340	1348	1356	1366	1368	1035
55°	1018	1024	1032	1041	1044	911
65°	687	690	698	704	706	681
75°	354	356	361	364	365	376
85°	75	78	79	78	78	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2260.6	2260.6	2260.6	2260.6	2260.6
2.5°	2256.3	2258.7	2256.8	2258.7	2256.8
5°	2244.6	2247.4	2247.4	2247.9	2245.5
7.5°	2227.1	2230.4	2231.8	2232.3	2229.0
10°	2205.0	2208.3	2208.3	2210.2	2207.8
12.5°	2176.8	2178.6	2178.2	2181.0	2179.1
15°	2136.3	2140.0	2141.9	2143.8	2142.9
17.5°	2091.1	2095.8	2097.2	2100.5	2098.1
20°	2042.6	2045.9	2046.8	2052.0	2049.6
22.5°	1984.6	1987.9	1991.2	1995.9	1996.4
25°	1922.5	1926.7	1931.4	1935.2	1937.6
27.5°	1858.5	1862.7	1866.9	1871.6	1872.6
30°	1790.2	1795.4	1800.1	1805.7	1806.7
32.5°	1721.4	1723.3	1730.4	1736.5	1739.3
35°	1648.0	1651.8	1659.3	1665.9	1667.8
37.5°	1573.1	1578.8	1586.8	1593.8	1595.7
40°	1497.8	1502.5	1509.6	1519.0	1521.8
42.5°	1421.5	1424.8	1434.2	1442.2	1444.6
45°	1339.6	1348.1	1356.1	1365.5	1367.8
47.5°	1261.4	1268.0	1276.0	1285.0	1288.7
50°	1181.4	1189.4	1195.5	1205.4	1207.7
52.5°	1101.3	1106.5	1115.0	1123.5	1127.2
55°	1018.0	1024.1	1031.6	1041.1	1044.4
57.5°	937.9	941.2	949.7	957.7	960.5
60°	855.1	858.4	866.4	874.8	878.6
62.5°	772.2	775.0	781.6	791.5	791.5
65°	687.0	690.3	698.3	703.9	706.3
67.5°	604.1	606.9	612.6	619.6	622.9
70°	520.3	522.6	527.4	534.4	534.9
72.5°	436.5	438.8	445.0	447.3	450.6
75°	354.1	356.0	360.7	364.4	365.4
77.5°	275.4	278.3	281.6	283.0	284.4
80°	200.6	203.4	205.8	207.2	207.6
82.5°	132.8	135.6	137.0	138.0	137.5
85°	75.3	77.7	78.6	77.7	78.2
87.5°	29.7	31.1	32.0	31.5	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)