

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: P708850

Luminaire Tested: **24APR-X-62L950-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-X-62L950-UNV
Description: ArcMed Patient Recessed 2x2 Fixture EXAM Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

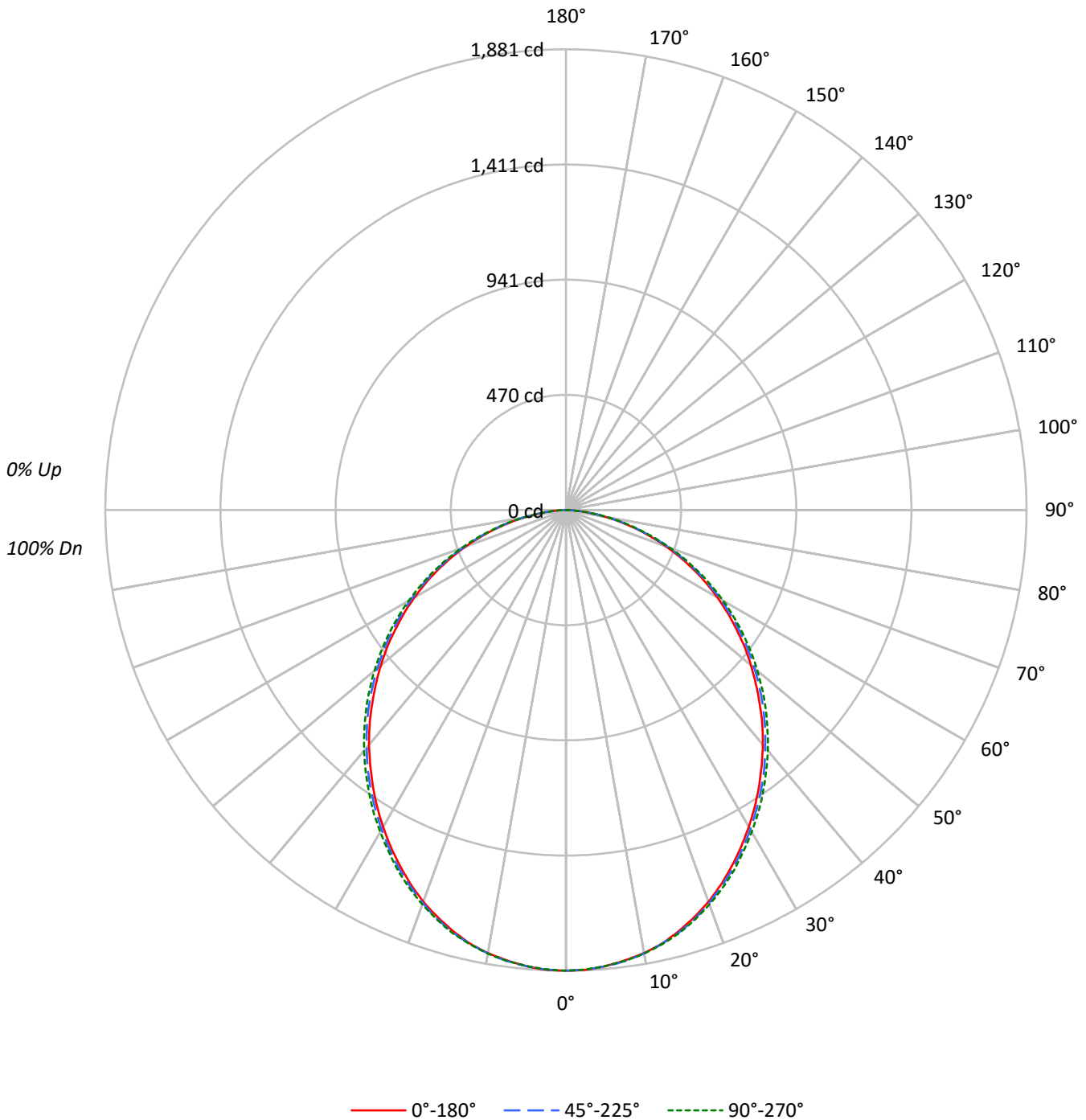
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4929.5 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 51.3
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	80	76	82	78	74	79	76	73	73	73	73	70
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	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	43	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	40	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°	5061	5061	5061
5°	5049	5051	5048
10°	5018	5023	5025
15°	4959	4973	4982
20°	4875	4891	4908
25°	4760	4792	4820
30°	4640	4678	4713
35°	4517	4567	4611
40°	4395	4445	4505
45°	4257	4334	4394
50°	4129	4206	4272
55°	3987	4071	4143
60°	3843	3922	3997
65°	3657	3740	3812
70°	3425	3500	3570
75°	3091	3167	3225
80°	2608	2704	2729
85°	1939	2062	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	3.6
10°-20°	502.9	10.2
20°-30°	742.8	15.1
30°-40°	869.2	17.6
40°-50°	877.8	17.8
50°-60°	775.9	15.7
60°-70°	580.8	11.8
70°-80°	322.8	6.5
80°-90°	79.8	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°	1423.2	28.9
0°-40°	2292.3	46.5
0°-60°	3946.1	80.1
0°-90°	4929.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4929.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1869	1870	1870	1870	1869	177
15°	1780	1781	1785	1788	1788	502
25°	1603	1606	1614	1619	1623	738
35°	1375	1379	1390	1400	1404	860
45°	1119	1127	1139	1150	1154	864
55°	850	857	868	878	883	761
65°	574	578	587	595	599	569
75°	297	299	305	310	310	315
85°	63	65	67	66	66	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1880.9	1880.9	1880.9	1880.9	1880.9
2.5°	1879.2	1879.2	1877.6	1878.1	1877.0
5°	1869.1	1869.7	1869.7	1870.3	1868.6
7.5°	1854.6	1855.7	1857.4	1857.9	1856.2
10°	1836.6	1837.7	1838.3	1840.5	1838.9
12.5°	1813.1	1813.6	1814.2	1817.5	1815.9
15°	1780.0	1781.1	1785.0	1788.4	1788.4
17.5°	1742.9	1745.2	1749.7	1754.1	1753.0
20°	1702.5	1704.2	1708.1	1714.3	1713.8
22.5°	1654.9	1656.5	1662.2	1668.9	1670.6
25°	1603.2	1605.5	1613.9	1619.0	1623.4
27.5°	1550.0	1552.8	1560.6	1568.5	1570.7
30°	1493.3	1497.8	1505.6	1514.1	1516.9
32.5°	1435.5	1437.8	1448.4	1457.4	1463.0
35°	1374.9	1378.9	1390.1	1399.6	1403.5
37.5°	1312.7	1318.3	1330.1	1340.2	1343.5
40°	1251.0	1255.4	1265.5	1278.4	1282.4
42.5°	1187.0	1190.9	1203.3	1214.5	1218.4
45°	1118.6	1127.0	1138.8	1150.5	1154.5
47.5°	1052.4	1060.2	1072.0	1083.8	1088.3
50°	986.2	994.6	1004.7	1017.0	1020.4
52.5°	920.0	926.7	937.4	948.0	953.1
55°	849.9	856.6	867.8	878.5	883.0
57.5°	783.7	788.2	798.8	808.9	812.8
60°	714.1	718.6	728.7	739.4	742.7
62.5°	645.7	648.5	658.0	668.1	670.4
65°	574.4	578.4	587.3	595.2	598.6
67.5°	504.9	508.2	516.1	524.5	526.2
70°	435.3	437.6	444.8	451.0	453.8
72.5°	365.2	367.4	375.3	378.7	381.5
75°	297.3	299.0	304.6	310.2	310.2
77.5°	231.1	233.9	238.4	240.7	241.8
80°	168.3	171.1	174.5	176.7	176.1
82.5°	111.1	113.9	116.1	117.2	116.1
85°	62.8	65.1	66.8	65.6	65.6
87.5°	24.7	25.8	26.9	26.4	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)