

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: P708992

Luminaire Tested: **24APR-58L935-X-UNV**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708992  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/12/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24APR-58L935-X-UNV  
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

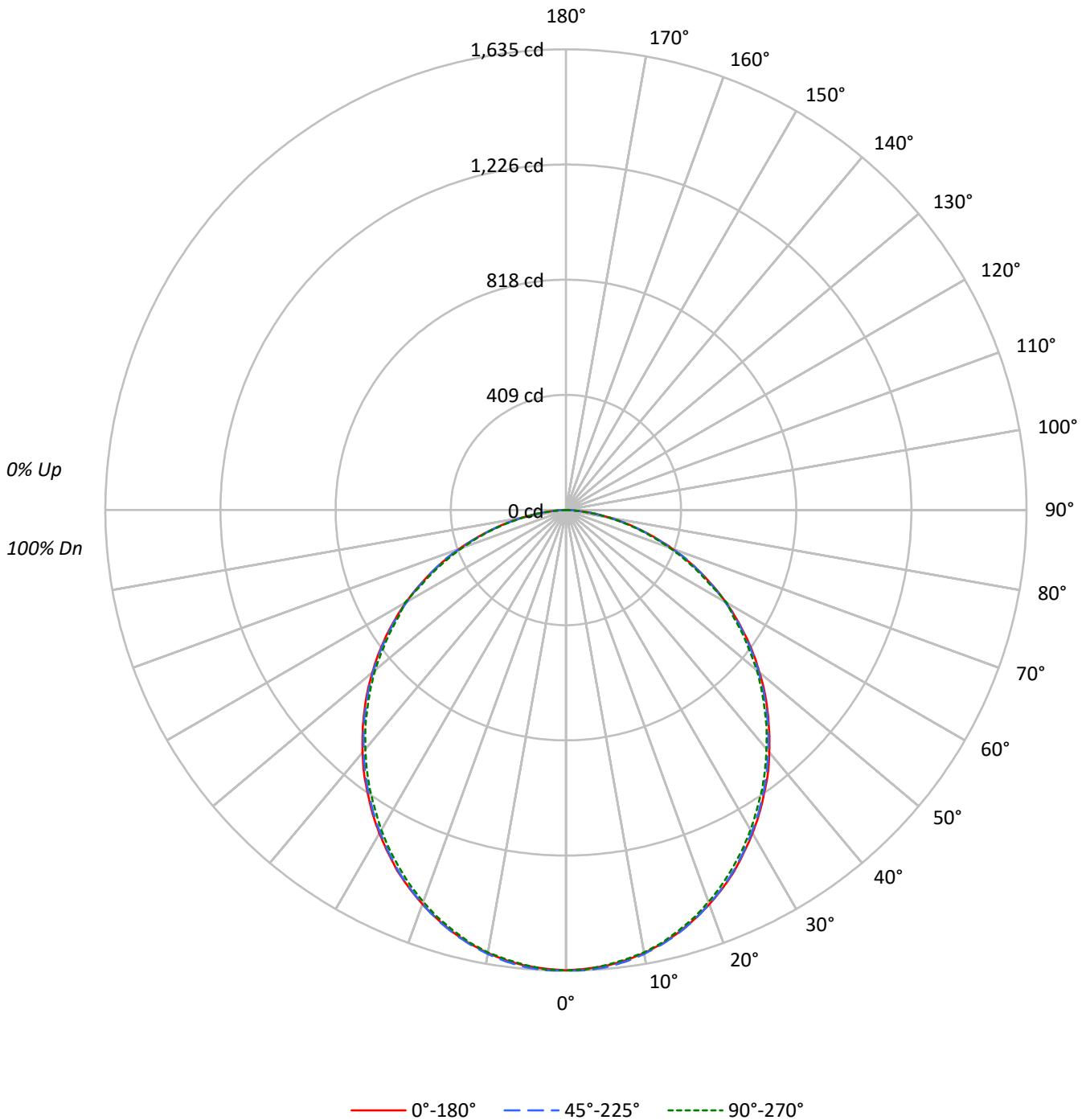
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4351.8 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 51.8  
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





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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	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	61	61	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2198	2198	2198
5°	2193	2200	2190
10°	2181	2186	2178
15°	2160	2164	2152
20°	2132	2131	2119
25°	2099	2095	2079
30°	2058	2051	2036
35°	2015	2008	1992
40°	1972	1962	1945
45°	1927	1917	1897
50°	1878	1870	1851
55°	1826	1817	1793
60°	1765	1754	1778
65°	1684	1680	1648
70°	1581	1583	1540
75°	1435	1424	1392
80°	1234	1217	1185
85°	943	934	861



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.3	3.5
10°-20°	437.1	10.0
20°-30°	648.9	14.9
30°-40°	763.8	17.6
40°-50°	776.2	17.8
50°-60°	690.0	15.9
60°-70°	520.5	12.0
70°-80°	289.1	6.6
80°-90°	71.9	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°	1240.3	28.5
0°-40°	2004.1	46.1
0°-60°	3470.3	79.7
0°-90°	4351.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4351.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1624	1626	1629	1626	1622	154
15°	1551	1552	1554	1550	1545	437
25°	1414	1413	1411	1405	1400	651
35°	1227	1227	1223	1215	1213	768
45°	1013	1013	1008	999	997	781
55°	779	773	774	766	764	696
65°	529	526	528	521	518	524
75°	276	272	274	272	268	293
85°	61	60	60	58	56	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1633.8	1633.8	1633.8	1633.8	1633.8
2.5°	1629.7	1632.8	1634.9	1632.3	1631.8
5°	1623.9	1626.5	1628.6	1626.0	1621.8
7.5°	1612.4	1615.6	1617.1	1614.5	1608.8
10°	1596.3	1599.4	1599.9	1597.3	1594.2
12.5°	1576.4	1578.5	1578.5	1576.4	1572.8
15°	1550.9	1552.4	1553.5	1549.8	1545.1
17.5°	1521.6	1524.3	1523.2	1517.5	1515.4
20°	1488.8	1490.9	1488.2	1484.6	1479.9
22.5°	1452.8	1453.3	1451.2	1447.0	1442.3
25°	1414.1	1413.1	1411.0	1404.8	1400.1
27.5°	1369.3	1371.4	1366.1	1360.4	1357.3
30°	1324.9	1325.4	1320.2	1312.9	1310.3
32.5°	1277.4	1276.4	1272.7	1264.9	1260.7
35°	1226.8	1227.3	1222.6	1215.3	1212.7
37.5°	1177.8	1174.6	1171.0	1162.6	1161.1
40°	1123.0	1122.4	1117.2	1109.9	1107.3
42.5°	1068.2	1067.7	1063.5	1056.2	1054.1
45°	1012.9	1012.9	1007.6	999.3	997.2
47.5°	956.5	954.4	950.8	943.5	940.9
50°	897.0	895.5	893.4	885.0	884.5
52.5°	838.6	837.5	833.9	826.6	822.4
55°	778.6	772.8	774.4	766.0	764.5
57.5°	717.0	711.2	714.4	707.1	703.9
60°	655.9	650.2	651.8	647.1	660.6
62.5°	593.3	589.7	589.7	600.6	580.8
65°	529.1	526.0	527.6	520.8	517.7
67.5°	466.0	461.3	471.2	458.7	453.5
70°	401.8	398.7	402.3	395.0	391.4
72.5°	338.1	335.5	334.5	331.9	328.8
75°	276.0	272.4	274.0	271.9	267.7
77.5°	215.5	214.5	213.9	211.3	208.2
80°	159.2	158.1	157.1	155.0	152.9
82.5°	106.5	105.4	104.9	103.8	103.3
85°	61.1	59.5	60.5	57.9	55.8
87.5°	23.0	22.4	23.5	21.4	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)