

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: P

Luminaire Tested: **4APN-24-26L935-UNV-ASY**

Issue Date: 06/06/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 06/06/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 4APN-24-26L935-UNV-ASY  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture Ambient and Exam Light  
w/ ASYMMETRIC Lens  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

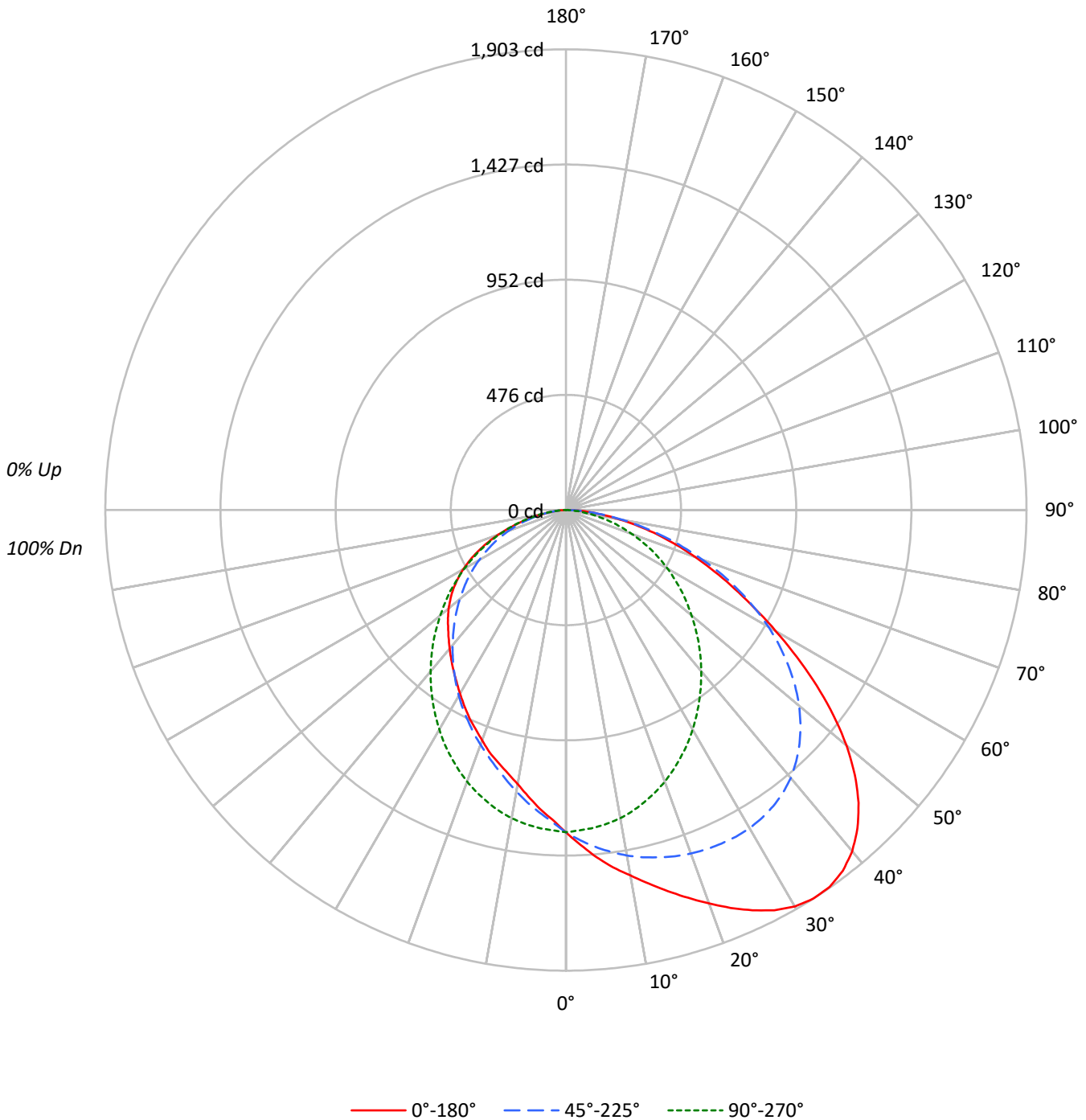
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4122.7 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 1.53 / 1.18 / 1.46  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
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				
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	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	52	52	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	35	35	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	31	31	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	25	25	25	23

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

	0°	90°	180°
0°	12814	12814	12814
5°	13905	12736	11970
10°	14980	12637	11231
15°	16248	12454	10768
20°	17717	12235	10369
25°	19381	11948	10048
30°	21024	11634	9725
35°	22329	11290	9516
40°	23122	10931	9392
45°	23283	10554	9370
50°	22671	10152	9472
55°	21229	9789	9532
60°	19297	9342	9439
65°	17497	8836	9073
70°	16014	8191	8332
75°	14529	7365	7164
80°	12707	6160	5522
85°	10693	4474	4109



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	3.1
10°-20°	367.6	8.9
20°-30°	576.0	14.0
30°-40°	722.1	17.5
40°-50°	768.7	18.6
50°-60°	693.9	16.8
60°-70°	513.7	12.5
70°-80°	281.9	6.8
80°-90°	72.4	1.8
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°	1070.0	26.0
0°-40°	1792.1	43.5
0°-60°	3254.7	78.9
0°-90°	4122.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1331	1331	1331	1331	1331	
5°	1439	1397	1318	1254	1239	140
15°	1630	1485	1250	1103	1080	465
25°	1824	1520	1125	959	946	844
35°	1900	1494	961	807	810	1185
45°	1710	1365	775	649	688	1311
55°	1265	1123	583	494	568	1128
65°	768	791	388	334	398	766
75°	391	414	198	171	193	415
85°	97	95	40	38	37	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0
2.5°	1384.6	1381.9	1378.6	1377.5	1372.6	1366.0	1360.0	1360.0	1352.9	1335.9	1323.9
5°	1438.8	1434.4	1426.2	1419.6	1409.2	1396.7	1384.1	1376.4	1359.5	1333.7	1317.9
7.5°	1488.6	1483.1	1472.7	1460.1	1443.2	1424.6	1403.8	1387.4	1361.6	1327.2	1306.9
10°	1532.3	1527.4	1514.8	1499.5	1475.4	1449.2	1418.5	1393.9	1358.9	1316.2	1292.7
12.5°	1580.5	1575.5	1558.0	1537.2	1504.4	1469.4	1428.9	1395.0	1351.8	1300.4	1273.6
15°	1630.2	1623.7	1604.0	1576.1	1532.3	1485.3	1435.5	1391.7	1340.3	1281.2	1249.5
17.5°	1679.5	1672.9	1648.3	1612.7	1558.0	1499.5	1438.2	1384.1	1323.9	1257.7	1223.2
20°	1729.3	1722.7	1691.5	1646.7	1580.5	1509.9	1437.7	1372.6	1304.2	1230.9	1194.2
22.5°	1779.0	1771.4	1733.6	1678.9	1599.1	1517.0	1431.7	1356.7	1279.6	1200.3	1160.9
25°	1824.5	1816.8	1775.2	1710.7	1618.8	1520.3	1421.3	1334.8	1252.2	1166.3	1124.8
27.5°	1863.8	1854.5	1811.3	1740.2	1635.7	1521.4	1407.6	1310.2	1220.5	1129.7	1087.6
30°	1891.2	1883.0	1837.0	1761.0	1645.6	1517.6	1390.1	1281.2	1183.8	1090.3	1046.5
32.5°	1903.2	1896.1	1850.7	1770.8	1647.2	1507.7	1368.8	1248.9	1145.6	1048.7	1004.4
35°	1899.9	1892.8	1849.6	1769.2	1642.3	1493.5	1341.9	1212.3	1104.5	1005.5	960.6
37.5°	1879.2	1871.0	1831.6	1754.4	1628.1	1472.7	1311.3	1172.4	1060.2	961.2	915.8
40°	1839.8	1831.6	1797.6	1726.5	1604.0	1444.8	1276.3	1129.7	1014.8	914.7	869.8
42.5°	1783.4	1774.7	1747.9	1682.8	1569.5	1408.1	1236.4	1084.3	966.7	869.8	822.8
45°	1710.1	1701.4	1683.3	1628.1	1524.7	1364.9	1191.0	1035.0	916.3	819.0	775.2
47.5°	1619.3	1611.6	1602.9	1560.2	1469.4	1315.1	1140.1	982.5	863.8	771.4	726.5
50°	1513.7	1506.1	1508.8	1479.8	1405.4	1257.7	1084.3	927.3	809.7	718.3	677.8
52.5°	1393.9	1387.9	1401.0	1388.4	1331.0	1193.7	1024.6	870.4	754.4	668.0	629.1
55°	1264.8	1258.2	1283.4	1287.2	1247.9	1123.1	956.8	811.3	698.6	618.7	583.2
57.5°	1131.9	1126.4	1158.7	1176.7	1157.0	1047.1	888.4	750.6	641.2	567.3	531.7
60°	1002.2	997.8	1031.8	1061.3	1059.1	966.7	817.3	684.9	583.7	515.3	485.2
62.5°	880.2	875.3	909.2	944.2	956.8	880.8	746.7	620.4	526.3	463.4	436.6
65°	768.1	763.2	792.1	828.3	851.2	791.1	670.7	553.6	468.3	410.8	387.9
67.5°	665.2	665.2	683.3	716.7	744.6	699.1	593.0	490.2	408.7	362.2	339.2
70°	568.9	568.4	581.5	605.1	637.3	600.7	514.2	423.4	352.3	311.3	291.0
72.5°	477.6	481.4	486.3	504.4	538.3	506.6	436.0	357.8	297.1	260.9	244.0
75°	390.6	390.1	397.2	413.0	437.7	414.1	357.8	293.8	242.3	212.8	198.0
77.5°	307.4	306.9	312.9	322.2	343.0	324.4	282.3	234.7	188.7	164.1	153.7
80°	229.2	229.2	234.7	239.6	254.9	240.2	210.6	175.6	138.4	119.3	111.1
82.5°	159.2	162.5	160.3	166.9	175.6	163.0	144.4	120.4	91.9	78.8	73.3
85°	96.8	99.6	96.8	102.3	106.1	95.2	85.9	71.7	53.1	44.3	40.5
87.5°	49.8	49.2	48.7	51.4	52.5	46.0	40.5	34.5	23.5	18.1	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0	1331.0
2.5°	1316.8	1320.1	1315.1	1297.1	1290.0	1282.3	1279.0	1275.8	1281.8	1280.1
5°	1305.8	1302.0	1289.4	1266.5	1254.4	1241.8	1235.8	1232.0	1240.2	1238.6
7.5°	1291.1	1280.1	1261.5	1233.6	1218.3	1201.4	1193.1	1188.2	1193.7	1192.6
10°	1272.5	1254.4	1231.4	1198.1	1180.0	1161.4	1152.1	1145.0	1149.4	1148.8
12.5°	1248.9	1225.4	1197.5	1159.8	1141.2	1122.0	1113.8	1108.9	1114.4	1112.7
15°	1222.7	1194.2	1162.0	1123.7	1103.4	1085.9	1079.9	1076.1	1080.4	1080.4
17.5°	1193.7	1160.3	1124.8	1085.9	1066.8	1053.1	1047.1	1044.3	1046.5	1049.8
20°	1161.4	1124.2	1085.9	1048.2	1031.8	1017.5	1012.1	1009.3	1014.3	1012.1
22.5°	1125.9	1086.5	1046.5	1011.0	996.2	982.0	976.5	974.9	980.3	978.1
25°	1088.1	1045.4	1006.0	973.8	959.0	947.0	942.0	940.4	943.1	945.9
27.5°	1052.5	1004.4	965.6	936.6	923.4	912.0	907.6	904.8	907.0	910.3
30°	1009.3	962.8	924.5	897.7	885.1	874.2	870.9	868.7	872.0	874.8
32.5°	968.8	921.8	883.5	857.2	846.3	835.9	835.4	834.3	838.1	841.4
35°	925.1	879.1	841.9	817.3	806.9	798.2	799.8	801.4	805.8	809.7
37.5°	880.8	835.9	800.4	777.9	768.1	761.0	765.9	768.1	774.1	777.9
40°	835.9	791.1	758.2	738.0	728.1	724.9	732.0	736.9	744.0	747.3
42.5°	790.0	748.4	715.6	697.0	688.8	688.8	698.1	705.7	713.9	717.2
45°	744.0	703.5	672.3	655.4	649.4	653.7	664.7	674.5	684.9	688.2
47.5°	697.5	658.1	629.7	614.4	611.1	617.6	631.3	644.4	656.5	660.9
50°	651.0	615.4	587.0	572.8	572.8	581.0	598.5	614.9	628.0	632.4
52.5°	604.5	570.6	541.6	531.2	533.4	544.9	565.1	582.1	596.8	601.2
55°	557.5	524.1	498.9	490.2	494.0	508.2	529.0	548.7	562.9	567.9
57.5°	511.0	479.2	456.3	449.1	454.6	470.5	494.5	511.5	526.3	530.7
60°	463.9	431.6	413.6	408.1	415.2	431.6	456.3	472.1	485.8	490.2
62.5°	417.4	387.3	371.5	366.5	374.7	392.2	416.3	430.5	440.9	445.3
65°	370.4	343.6	328.8	325.5	334.3	351.2	374.2	386.2	393.9	398.3
67.5°	323.9	300.9	287.2	284.5	293.8	309.1	330.4	337.0	344.1	348.5
70°	277.9	257.1	245.6	244.0	252.2	267.0	285.0	288.3	292.1	296.0
72.5°	232.5	216.1	204.6	204.1	211.7	223.7	238.5	239.1	240.2	244.0
75°	188.7	174.0	165.2	166.9	171.2	181.1	192.6	189.3	189.8	192.6
77.5°	146.6	134.6	128.6	129.7	132.9	140.0	147.7	143.9	141.7	144.4
80°	105.6	95.2	93.0	93.5	95.7	100.7	105.0	101.8	97.4	99.6
82.5°	69.5	62.9	61.8	62.4	64.0	66.7	67.8	62.9	61.8	63.5
85°	38.3	35.6	35.6	37.2	37.7	38.3	38.3	35.6	36.1	37.2
87.5°	15.3	15.3	17.0	18.6	17.5	15.3	13.1	8.8	8.8	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)