

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-X-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-X-26L935-UNV-ASY  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/  
ASYMMETRIC Lens  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

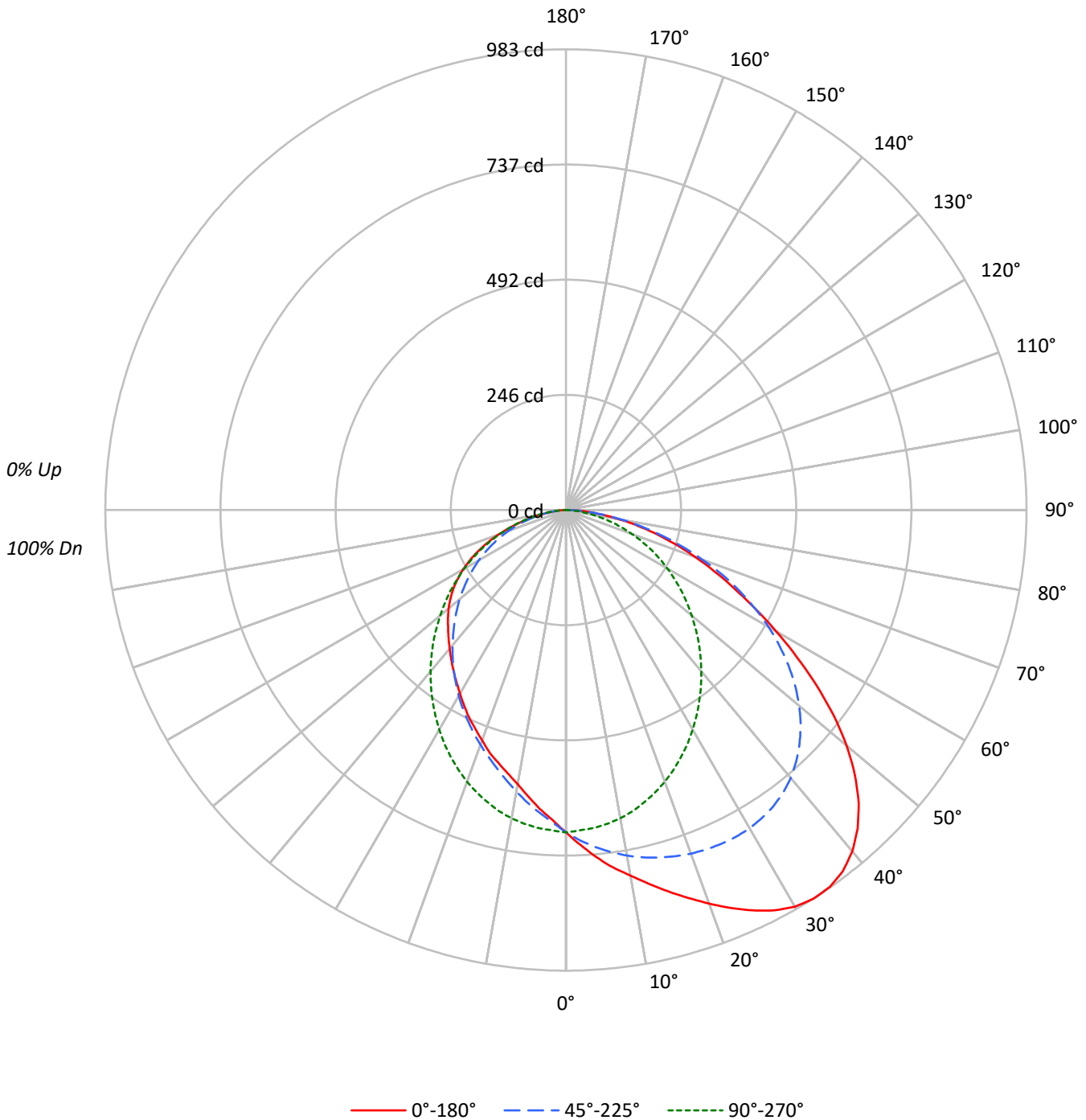
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2130.3 lumens  
Efficiency: N/A  
Efficacy: 75.5 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): 28.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	6622	6622	6622
5°	7184	6581	6185
10°	7741	6530	5803
15°	8396	6435	5565
20°	9155	6322	5358
25°	10014	6174	5192
30°	10863	6012	5025
35°	11538	5834	4917
40°	11948	5649	4852
45°	12032	5454	4842
50°	11715	5245	4895
55°	10971	5057	4925
60°	9972	4827	4877
65°	9041	4565	4688
70°	8276	4234	4304
75°	7506	3805	3701
80°	6564	3182	2850
85°	5523	2309	2121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	3.1
10°-20°	190.0	8.9
20°-30°	297.6	14.0
30°-40°	373.1	17.5
40°-50°	397.2	18.6
50°-60°	358.6	16.8
60°-70°	265.4	12.5
70°-80°	145.6	6.8
80°-90°	37.4	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°	552.9	26.0
0°-40°	926.0	43.5
0°-60°	1681.8	78.9
0°-90°	2130.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2130.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	688	688	688	688	688	
5°	743	722	681	648	640	72
15°	842	768	646	570	558	240
25°	943	786	581	496	489	436
35°	982	772	496	417	418	612
45°	884	705	401	336	356	677
55°	654	580	301	255	293	583
65°	397	409	200	173	206	396
75°	202	214	102	88	100	215
85°	50	49	21	20	19	59
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°	687.8	687.8	687.8	687.8	687.8	687.8	687.8	687.8	687.8	687.8	687.8
2.5°	715.5	714.1	712.4	711.8	709.2	705.9	702.7	702.7	699.1	690.3	684.1
5°	743.4	741.2	736.9	733.6	728.2	721.7	715.2	711.2	702.5	689.2	681.0
7.5°	769.2	766.3	761.0	754.5	745.7	736.1	725.4	716.9	703.6	685.8	675.3
10°	791.8	789.2	782.7	774.8	762.4	748.8	733.0	720.3	702.2	680.1	668.0
12.5°	816.7	814.1	805.1	794.3	777.4	759.3	738.4	720.8	698.5	671.9	658.1
15°	842.4	839.0	828.8	814.4	791.8	767.5	741.8	719.1	692.6	662.0	645.6
17.5°	867.8	864.4	851.7	833.3	805.1	774.8	743.2	715.2	684.1	649.9	632.1
20°	893.6	890.2	874.0	850.9	816.7	780.2	742.9	709.2	673.9	636.0	617.1
22.5°	919.3	915.3	895.8	867.5	826.3	783.9	739.8	701.0	661.2	620.2	599.8
25°	942.7	938.8	917.3	883.9	836.5	785.6	734.4	689.7	647.1	602.7	581.2
27.5°	963.1	958.3	936.0	899.2	845.2	786.1	727.3	677.0	630.7	583.7	562.0
30°	977.2	973.0	949.2	909.9	850.3	784.2	718.3	662.0	611.7	563.4	540.8
32.5°	983.4	979.8	956.3	915.0	851.2	779.1	707.3	645.4	591.9	541.9	519.0
35°	981.7	978.1	955.7	914.2	848.6	771.7	693.4	626.4	570.7	519.6	496.4
37.5°	971.0	966.8	946.4	906.6	841.3	761.0	677.6	605.8	547.8	496.7	473.2
40°	950.7	946.4	928.9	892.1	828.8	746.6	659.5	583.7	524.4	472.6	449.5
42.5°	921.5	917.0	903.2	869.5	811.0	727.6	638.9	560.3	499.5	449.5	425.2
45°	883.7	879.1	869.8	841.3	787.8	705.3	615.4	534.8	473.5	423.2	400.6
47.5°	836.7	832.8	828.3	806.2	759.3	679.6	589.1	507.7	446.4	398.6	375.4
50°	782.2	778.2	779.6	764.7	726.2	649.9	560.3	479.1	418.4	371.2	350.2
52.5°	720.3	717.2	723.9	717.4	687.8	616.8	529.5	449.7	389.8	345.2	325.1
55°	653.6	650.2	663.2	665.1	644.8	580.3	494.4	419.2	361.0	319.7	301.3
57.5°	584.9	582.0	598.7	608.0	597.9	541.1	459.1	387.8	331.3	293.1	274.8
60°	517.9	515.6	533.1	548.4	547.3	499.5	422.3	353.9	301.6	266.3	250.7
62.5°	454.8	452.3	469.8	487.9	494.4	455.1	385.9	320.6	271.9	239.4	225.6
65°	396.9	394.3	409.3	428.0	439.9	408.8	346.6	286.1	242.0	212.3	200.4
67.5°	343.7	343.7	353.1	370.3	384.7	361.3	306.4	253.3	211.2	187.1	175.3
70°	294.0	293.7	300.5	312.6	329.3	310.4	265.7	218.8	182.0	160.8	150.4
72.5°	246.8	248.8	251.3	260.6	278.2	261.8	225.3	184.9	153.5	134.8	126.1
75°	201.8	201.6	205.2	213.4	226.1	214.0	184.9	151.8	125.2	110.0	102.3
77.5°	158.9	158.6	161.7	166.5	177.2	167.6	145.9	121.3	97.5	84.8	79.4
80°	118.4	118.4	121.3	123.8	131.7	124.1	108.8	90.7	71.5	61.6	57.4
82.5°	82.3	84.0	82.8	86.2	90.7	84.2	74.6	62.2	47.5	40.7	37.9
85°	50.0	51.4	50.0	52.9	54.8	49.2	44.4	37.0	27.4	22.9	20.9
87.5°	25.7	25.4	25.2	26.6	27.1	23.7	20.9	17.8	12.2	9.3	7.9
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°	687.8	687.8	687.8	687.8	687.8	687.8	687.8	687.8	687.8	687.8
2.5°	680.4	682.1	679.6	670.2	666.6	662.6	660.9	659.2	662.3	661.5
5°	674.8	672.8	666.3	654.4	648.2	641.7	638.6	636.6	640.8	640.0
7.5°	667.1	661.5	651.9	637.4	629.5	620.8	616.5	614.0	616.8	616.2
10°	657.5	648.2	636.3	619.1	609.7	600.1	595.3	591.6	593.9	593.6
12.5°	645.4	633.2	618.8	599.3	589.7	579.8	575.5	573.0	575.8	575.0
15°	631.8	617.1	600.4	580.6	570.2	561.1	558.0	556.0	558.3	558.3
17.5°	616.8	599.6	581.2	561.1	551.2	544.2	541.1	539.6	540.8	542.5
20°	600.1	580.9	561.1	541.6	533.1	525.8	523.0	521.5	524.1	523.0
22.5°	581.8	561.4	540.8	522.4	514.8	507.4	504.6	503.7	506.6	505.4
25°	562.3	540.2	519.8	503.2	495.5	489.3	486.8	485.9	487.3	488.8
27.5°	543.9	519.0	498.9	483.9	477.2	471.2	469.0	467.6	468.7	470.4
30°	521.5	497.5	477.7	463.9	457.4	451.7	450.0	448.9	450.6	452.0
32.5°	500.6	476.3	456.5	443.0	437.3	431.9	431.7	431.1	433.1	434.8
35°	478.0	454.3	435.0	422.3	417.0	412.4	413.3	414.1	416.4	418.4
37.5°	455.1	431.9	413.6	402.0	396.9	393.2	395.8	396.9	400.0	402.0
40°	431.9	408.8	391.8	381.3	376.2	374.6	378.2	380.8	384.4	386.1
42.5°	408.2	386.7	369.7	360.1	355.9	355.9	360.7	364.7	368.9	370.6
45°	384.4	363.5	347.4	338.7	335.5	337.8	343.5	348.5	353.9	355.6
47.5°	360.4	340.1	325.4	317.4	315.8	319.1	326.2	333.0	339.2	341.5
50°	336.4	318.0	303.3	296.0	296.0	300.2	309.3	317.7	324.5	326.8
52.5°	312.4	294.8	279.9	274.5	275.6	281.5	292.0	300.8	308.4	310.7
55°	288.1	270.8	257.8	253.3	255.3	262.6	273.4	283.5	290.9	293.4
57.5°	264.0	247.6	235.8	232.1	234.9	243.1	255.5	264.3	271.9	274.2
60°	239.7	223.0	213.7	210.9	214.6	223.0	235.8	244.0	251.0	253.3
62.5°	215.7	200.1	191.9	189.4	193.6	202.7	215.1	222.5	227.8	230.1
65°	191.4	177.5	169.9	168.2	172.7	181.5	193.4	199.6	203.5	205.8
67.5°	167.3	155.5	148.4	147.0	151.8	159.7	170.7	174.1	177.8	180.1
70°	143.6	132.9	126.9	126.1	130.3	137.9	147.3	149.0	151.0	152.9
72.5°	120.1	111.7	105.7	105.4	109.4	115.6	123.2	123.5	124.1	126.1
75°	97.5	89.9	85.4	86.2	88.5	93.6	99.5	97.8	98.1	99.5
77.5°	75.8	69.5	66.4	67.0	68.7	72.4	76.3	74.3	73.2	74.6
80°	54.6	49.2	48.1	48.3	49.5	52.0	54.3	52.6	50.3	51.4
82.5°	35.9	32.5	31.9	32.2	33.1	34.5	35.1	32.5	31.9	32.8
85°	19.8	18.4	18.4	19.2	19.5	19.8	19.8	18.4	18.7	19.2
87.5°	7.9	7.9	8.8	9.6	9.0	7.9	6.8	4.5	4.5	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)