

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-26L950-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-26L950-UNV-ASY  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/  
ASYMMETRIC Lens  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

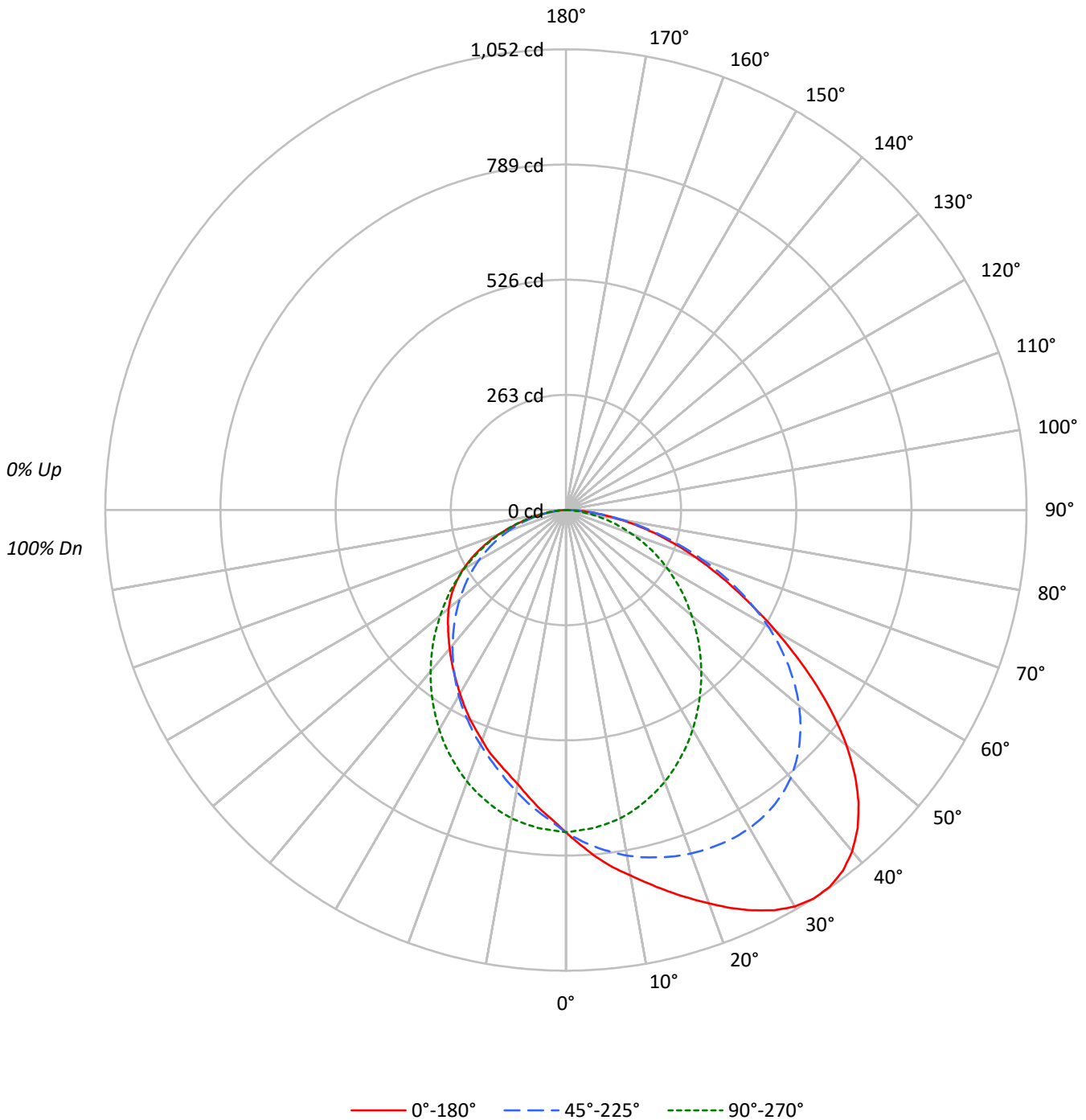
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2279.2 lumens  
Efficiency: N/A  
Efficacy: 80.8 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°	7084	7084	7084
5°	7687	7041	6617
10°	8281	6987	6209
15°	8983	6885	5953
20°	9794	6764	5732
25°	10714	6605	5555
30°	11623	6432	5376
35°	12345	6242	5261
40°	12783	6044	5192
45°	12872	5835	5181
50°	12535	5612	5236
55°	11736	5411	5269
60°	10669	5166	5218
65°	9672	4884	5016
70°	8853	4529	4605
75°	8031	4073	3962
80°	7024	3404	3049
85°	5910	2474	2276



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	3.1
10°-20°	203.3	8.9
20°-30°	318.4	14.0
30°-40°	399.2	17.5
40°-50°	425.0	18.6
50°-60°	383.6	16.8
60°-70°	284.0	12.5
70°-80°	155.8	6.8
80°-90°	40.0	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°	591.6	26.0
0°-40°	990.8	43.5
0°-60°	1799.4	78.9
0°-90°	2279.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2279.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	736	736	736	736	736	
5°	795	772	729	694	685	77
15°	901	821	691	610	597	257
25°	1009	840	622	530	523	467
35°	1050	826	531	446	448	655
45°	945	755	429	359	380	725
55°	699	621	322	273	314	624
65°	425	437	214	185	220	424
75°	216	229	110	95	106	230
85°	54	53	22	21	21	63
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°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	765.5	764.0	762.2	761.6	758.8	755.2	751.9	751.9	747.9	738.6	731.9
5°	795.4	793.0	788.5	784.8	779.1	772.1	765.2	760.9	751.6	737.4	728.6
7.5°	822.9	819.9	814.2	807.2	797.8	787.6	776.1	767.0	752.8	733.7	722.5
10°	847.1	844.4	837.5	829.0	815.7	801.2	784.2	770.6	751.3	727.7	714.7
12.5°	873.8	871.0	861.4	849.9	831.7	812.4	790.0	771.2	747.3	718.9	704.1
15°	901.3	897.6	886.8	871.3	847.1	821.1	793.6	769.4	741.0	708.3	690.8
17.5°	928.5	924.9	911.3	891.6	861.4	829.0	795.1	765.2	731.9	695.3	676.3
20°	956.0	952.4	935.2	910.4	873.8	834.7	794.8	758.8	721.0	680.5	660.2
22.5°	983.5	979.3	958.4	928.2	884.0	838.7	791.5	750.1	707.4	663.6	641.8
25°	1008.6	1004.4	981.4	945.7	894.9	840.5	785.7	738.0	692.3	644.8	621.8
27.5°	1030.4	1025.3	1001.4	962.1	904.3	841.1	778.2	724.4	674.7	624.5	601.3
30°	1045.5	1041.0	1015.6	973.6	909.7	839.0	768.5	708.3	654.5	602.8	578.6
32.5°	1052.2	1048.3	1023.2	979.0	910.7	833.5	756.7	690.5	633.3	579.8	555.3
35°	1050.4	1046.5	1022.6	978.1	907.9	825.7	741.9	670.2	610.6	555.9	531.1
37.5°	1038.9	1034.4	1012.6	969.9	900.1	814.2	725.0	648.1	586.1	531.4	506.3
40°	1017.1	1012.6	993.8	954.5	886.8	798.8	705.6	624.5	561.0	505.7	480.9
42.5°	986.0	981.1	966.3	930.3	867.7	778.5	683.5	599.4	534.4	480.9	454.9
45°	945.4	940.6	930.6	900.1	842.9	754.6	658.4	572.2	506.6	452.8	428.6
47.5°	895.2	891.0	886.2	862.6	812.4	727.1	630.3	543.2	477.6	426.4	401.6
50°	836.9	832.6	834.1	818.1	777.0	695.3	599.4	512.6	447.6	397.1	374.7
52.5°	770.6	767.3	774.6	767.6	735.8	659.9	566.5	481.2	417.1	369.3	347.8
55°	699.2	695.6	709.5	711.6	689.9	620.9	529.0	448.5	386.2	342.1	322.4
57.5°	625.8	622.7	640.6	650.6	639.7	578.9	491.2	415.0	354.5	313.6	294.0
60°	554.1	551.7	570.4	586.7	585.5	534.4	451.8	378.7	322.7	284.9	268.3
62.5°	486.6	483.9	502.7	522.0	529.0	486.9	412.8	343.0	290.9	256.2	241.3
65°	424.6	421.9	437.9	457.9	470.6	437.3	370.8	306.1	258.9	227.1	214.4
67.5°	367.8	367.8	377.8	396.2	411.6	386.5	327.8	271.0	225.9	200.2	187.5
70°	314.5	314.2	321.5	334.5	352.3	332.1	284.3	234.1	194.8	172.1	160.9
72.5°	264.0	266.1	268.9	278.9	297.6	280.1	241.0	197.8	164.2	144.3	134.9
75°	215.9	215.6	219.6	228.3	242.0	228.9	197.8	162.4	134.0	117.7	109.5
77.5°	170.0	169.7	173.0	178.1	189.6	179.3	156.1	129.7	104.3	90.7	85.0
80°	126.7	126.7	129.7	132.5	140.9	132.8	116.4	97.1	76.5	65.9	61.4
82.5°	88.0	89.8	88.6	92.2	97.1	90.1	79.8	66.5	50.8	43.6	40.5
85°	53.5	55.0	53.5	56.6	58.7	52.6	47.5	39.6	29.3	24.5	22.4
87.5°	27.5	27.2	26.9	28.4	29.0	25.4	22.4	19.1	13.0	10.0	8.5
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°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	728.0	729.8	727.1	717.1	713.2	708.9	707.1	705.3	708.6	707.7
5°	721.9	719.8	712.9	700.2	693.5	686.5	683.2	681.1	685.6	684.7
7.5°	713.8	707.7	697.4	682.0	673.5	664.2	659.6	656.9	659.9	659.3
10°	703.5	693.5	680.8	662.3	652.4	642.1	636.9	633.0	635.4	635.1
12.5°	690.5	677.5	662.0	641.2	630.9	620.3	615.8	613.1	616.1	615.2
15°	676.0	660.2	642.4	621.2	610.0	600.3	597.0	594.9	597.3	597.3
17.5°	659.9	641.5	621.8	600.3	589.8	582.2	578.9	577.4	578.6	580.4
20°	642.1	621.5	600.3	579.5	570.4	562.5	559.5	558.0	560.7	559.5
22.5°	622.4	600.7	578.6	558.9	550.7	542.9	539.9	539.0	542.0	540.8
25°	601.6	578.0	556.2	538.3	530.2	523.5	520.8	519.9	521.4	522.9
27.5°	581.9	555.3	533.8	517.8	510.5	504.2	501.8	500.2	501.4	503.3
30°	558.0	532.3	511.1	496.3	489.4	483.3	481.5	480.3	482.1	483.6
32.5°	535.6	509.6	488.4	473.9	467.9	462.1	461.8	461.2	463.3	465.2
35°	511.4	486.0	465.5	451.8	446.1	441.3	442.2	443.1	445.5	447.6
37.5°	486.9	462.1	442.5	430.1	424.6	420.7	423.4	424.6	428.0	430.1
40°	462.1	437.3	419.2	408.0	402.6	400.7	404.7	407.4	411.3	413.1
42.5°	436.7	413.7	395.6	385.3	380.8	380.8	385.9	390.2	394.7	396.5
45°	411.3	388.9	371.7	362.3	359.0	361.4	367.5	372.9	378.7	380.5
47.5°	385.6	363.8	348.1	339.6	337.8	341.5	349.0	356.3	362.9	365.4
50°	359.9	340.2	324.5	316.7	316.7	321.2	330.9	339.9	347.2	349.6
52.5°	334.2	315.4	299.4	293.7	294.9	301.2	312.4	321.8	330.0	332.4
55°	308.2	289.7	275.8	271.0	273.1	281.0	292.5	303.4	311.2	313.9
57.5°	282.5	264.9	252.2	248.3	251.3	260.1	273.4	282.8	290.9	293.4
60°	256.5	238.6	228.6	225.6	229.6	238.6	252.2	261.0	268.6	271.0
62.5°	230.8	214.1	205.4	202.6	207.2	216.9	230.2	238.0	243.8	246.2
65°	204.8	189.9	181.8	180.0	184.8	194.2	206.9	213.5	217.8	220.2
67.5°	179.0	166.3	158.8	157.3	162.4	170.9	182.7	186.3	190.2	192.7
70°	153.6	142.1	135.8	134.9	139.4	147.6	157.6	159.4	161.5	163.6
72.5°	128.5	119.5	113.1	112.8	117.0	123.7	131.9	132.2	132.8	134.9
75°	104.3	96.2	91.3	92.2	94.7	100.1	106.5	104.6	104.9	106.5
77.5°	81.1	74.4	71.1	71.7	73.5	77.4	81.7	79.5	78.3	79.8
80°	58.4	52.6	51.4	51.7	52.9	55.6	58.1	56.3	53.8	55.0
82.5°	38.4	34.8	34.2	34.5	35.4	36.9	37.5	34.8	34.2	35.1
85°	21.2	19.7	19.7	20.6	20.9	21.2	21.2	19.7	20.0	20.6
87.5°	8.5	8.5	9.4	10.3	9.7	8.5	7.3	4.8	4.8	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)