

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-X-NL935-UNV-NP**

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-X-NL935-UNV-NP  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture NIGHT Light w/ Nature Pattern Lens  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

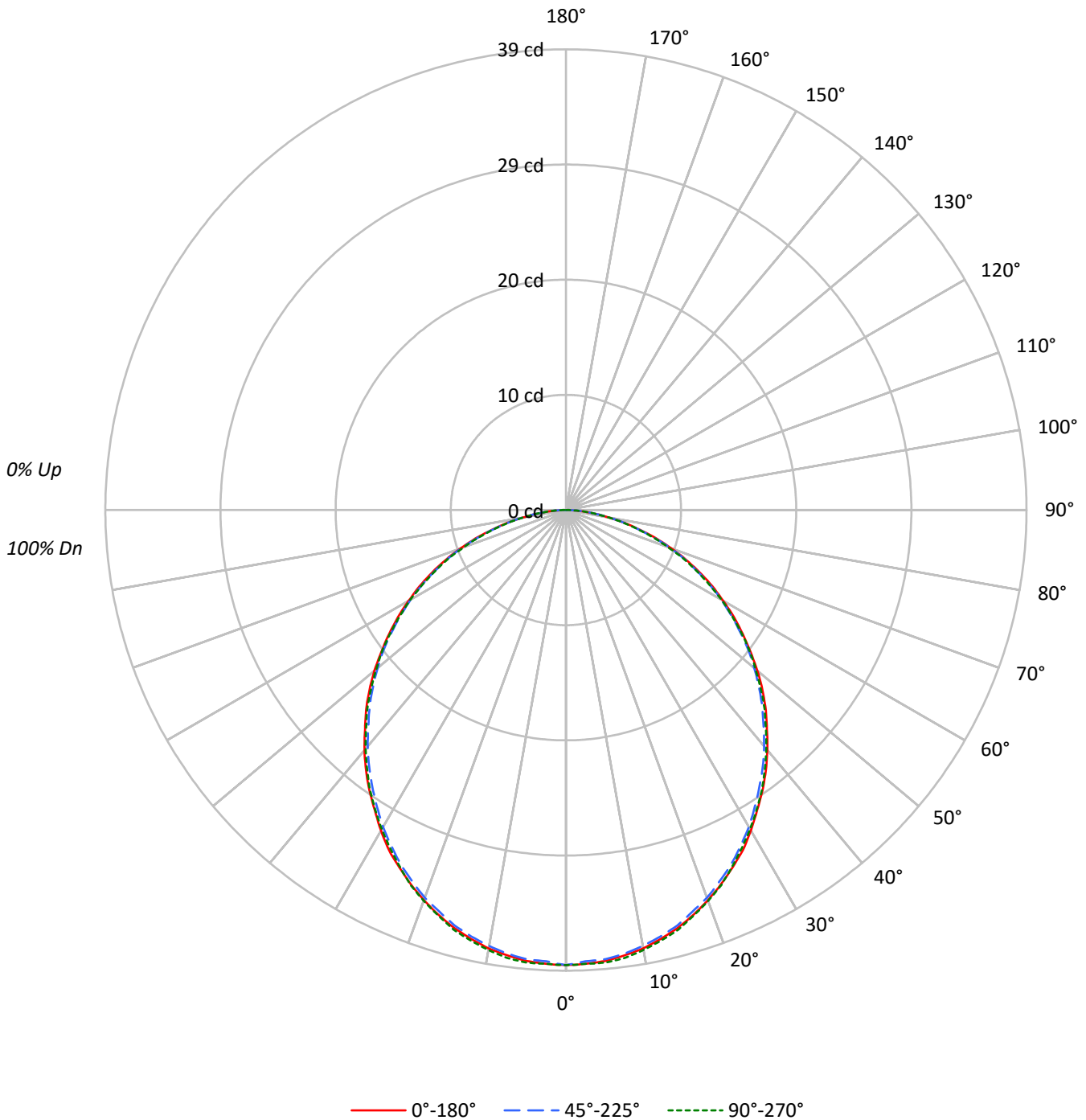
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 102.8 lumens  
Efficiency: N/A  
Efficacy: 29.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.5  
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

TEST NUMBER: P  
CATALOG NUMBER: 4APN-X-X-NL935-UNV-NP

### Luminous Intensity Polar Plot





TEST NUMBER: P  
 CATALOG NUMBER: 4APN-X-X-NL935-UNV-NP

**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	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	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	62	70	65	61	61	61	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	54	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°	207	207	207
5°	207	206	208
10°	206	205	207
15°	204	203	205
20°	201	200	202
25°	198	197	198
30°	195	193	194
35°	191	188	190
40°	186	183	185
45°	182	179	181
50°	177	174	175
55°	171	169	170
60°	166	163	164
65°	159	156	155
70°	150	148	144
75°	135	133	132
80°	116	118	114
85°	96	100	96



TEST NUMBER: P  
 CATALOG NUMBER: 4APN-X-X-NL935-UNV-NP

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.6	3.5
10°-20°	10.3	10.0
20°-30°	15.3	14.9
30°-40°	18.0	17.5
40°-50°	18.3	17.8
50°-60°	16.2	15.8
60°-70°	12.2	11.9
70°-80°	6.9	6.7
80°-90°	1.8	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°	29.3	28.5
0°-40°	47.3	46.1
0°-60°	81.8	79.6
0°-90°	102.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	102.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	39	39	39	39	39	
5°	38	39	38	38	38	4
15°	37	37	36	37	37	10
25°	33	34	33	33	33	15
35°	29	29	29	29	29	18
45°	24	24	24	24	24	18
55°	18	18	18	18	18	16
65°	12	12	12	12	12	12
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P  
 CATALOG NUMBER: 4APN-X-X-NL935-UNV-NP

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	38.5	38.5	38.5	38.5	38.5
2.5°	38.5	38.7	38.2	38.5	38.5
5°	38.3	38.7	38.2	38.2	38.5
7.5°	38.0	38.4	37.9	38.0	38.2
10°	37.7	38.0	37.5	37.7	37.8
12.5°	37.2	37.5	37.0	37.2	37.3
15°	36.6	36.8	36.4	36.6	36.8
17.5°	35.9	36.1	35.6	35.9	36.0
20°	35.2	35.4	34.9	35.1	35.2
22.5°	34.3	34.5	34.0	34.1	34.4
25°	33.4	33.6	33.1	33.1	33.3
27.5°	32.5	32.5	32.0	32.1	32.3
30°	31.3	31.5	31.0	31.1	31.2
32.5°	30.1	30.3	29.8	29.9	30.1
35°	29.0	29.1	28.6	28.7	28.9
37.5°	27.8	27.8	27.4	27.5	27.7
40°	26.5	26.5	26.1	26.2	26.4
42.5°	25.2	25.2	24.8	24.9	25.1
45°	23.9	23.9	23.5	23.6	23.8
47.5°	22.6	22.5	22.2	22.2	22.4
50°	21.2	21.1	20.8	20.8	21.0
52.5°	19.7	19.8	19.5	19.5	19.6
55°	18.3	18.4	18.0	18.1	18.1
57.5°	16.9	16.9	16.6	16.7	16.7
60°	15.4	15.5	15.2	15.2	15.2
62.5°	14.0	14.0	13.8	13.8	13.7
65°	12.5	12.4	12.3	12.4	12.2
67.5°	11.0	10.9	10.9	10.9	10.8
70°	9.5	9.5	9.4	9.3	9.2
72.5°	8.1	8.0	7.8	7.9	7.8
75°	6.5	6.5	6.4	6.5	6.4
77.5°	5.2	5.1	5.1	5.1	5.0
80°	3.7	3.7	3.8	3.8	3.7
82.5°	2.6	2.5	2.6	2.7	2.5
85°	1.6	1.6	1.6	1.6	1.6
87.5°	0.6	0.6	0.8	0.8	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)