

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: P709051

Luminaire Tested: **4APN-X-X-NL950-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709051
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN-X-X-NL950-UNV
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture NIGHT Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

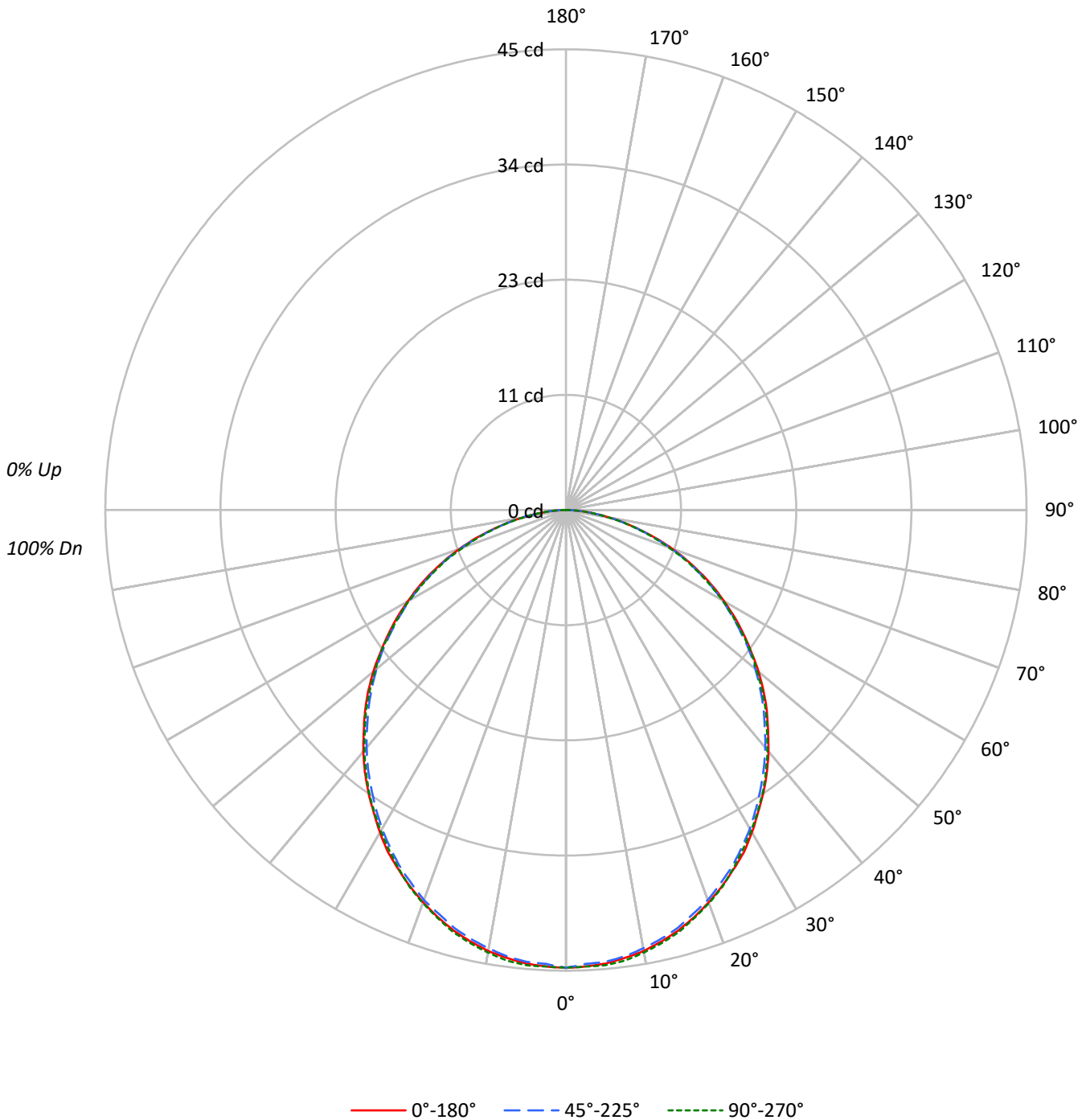
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 119.2 lumens
Efficiency: N/A
Efficacy: 34.1 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 (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	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°	241	241	241
5°	240	239	241
10°	239	238	240
15°	237	235	238
20°	234	232	234
25°	230	228	230
30°	226	223	225
35°	221	218	221
40°	216	213	215
45°	211	208	210
50°	206	202	204
55°	199	196	198
60°	192	190	190
65°	185	181	180
70°	174	171	168
75°	157	155	153
80°	135	137	132
85°	111	116	111



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	3.5
10°-20°	12.0	10.0
20°-30°	17.8	14.9
30°-40°	20.9	17.5
40°-50°	21.2	17.8
50°-60°	18.8	15.8
60°-70°	14.2	11.9
70°-80°	8.0	6.7
80°-90°	2.1	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°	34.0	28.5
0°-40°	54.9	46.1
0°-60°	95.0	79.6
0°-90°	119.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	119.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	45	45	45	45	45	
5°	44	45	44	44	45	4
15°	42	43	42	42	43	12
25°	39	39	38	38	39	18
35°	34	34	33	33	34	21
45°	28	28	27	27	28	21
55°	21	21	21	21	21	19
65°	14	14	14	14	14	14
75°	8	8	7	8	7	8
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	44.7	44.7	44.7	44.7	44.7
2.5°	44.6	45.0	44.4	44.7	44.6
5°	44.5	44.9	44.3	44.4	44.6
7.5°	44.1	44.6	44.0	44.1	44.4
10°	43.7	44.1	43.5	43.7	43.9
12.5°	43.2	43.5	42.9	43.2	43.3
15°	42.5	42.8	42.3	42.4	42.7
17.5°	41.7	41.9	41.4	41.7	41.8
20°	40.8	41.0	40.5	40.7	40.9
22.5°	39.8	40.0	39.5	39.6	39.9
25°	38.7	39.0	38.4	38.4	38.7
27.5°	37.7	37.8	37.2	37.3	37.4
30°	36.4	36.5	36.0	36.0	36.2
32.5°	35.0	35.1	34.6	34.6	34.9
35°	33.7	33.7	33.2	33.3	33.6
37.5°	32.3	32.3	31.8	31.9	32.1
40°	30.8	30.8	30.3	30.4	30.6
42.5°	29.2	29.2	28.7	28.9	29.1
45°	27.8	27.7	27.3	27.4	27.6
47.5°	26.2	26.1	25.7	25.8	26.0
50°	24.6	24.5	24.2	24.2	24.3
52.5°	22.9	22.9	22.6	22.6	22.8
55°	21.2	21.3	20.9	21.0	21.1
57.5°	19.6	19.6	19.2	19.3	19.3
60°	17.9	17.9	17.6	17.7	17.7
62.5°	16.2	16.2	16.0	16.0	15.9
65°	14.5	14.4	14.3	14.3	14.2
67.5°	12.8	12.7	12.6	12.6	12.5
70°	11.1	11.0	10.9	10.8	10.7
72.5°	9.3	9.3	9.1	9.2	9.0
75°	7.5	7.5	7.5	7.5	7.4
77.5°	6.0	5.9	5.9	5.9	5.8
80°	4.3	4.3	4.4	4.4	4.3
82.5°	3.0	3.0	3.0	3.1	3.0
85°	1.8	1.8	1.9	1.9	1.8
87.5°	0.7	0.7	0.9	0.9	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)