

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: P708907

Luminaire Tested: **22APR-X-X-UNV-NL950**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708907  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/12/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22APR-X-X-UNV-NL950  
Description: ArcMed Patient Recessed 2x2 Fixture NIGHT Light  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

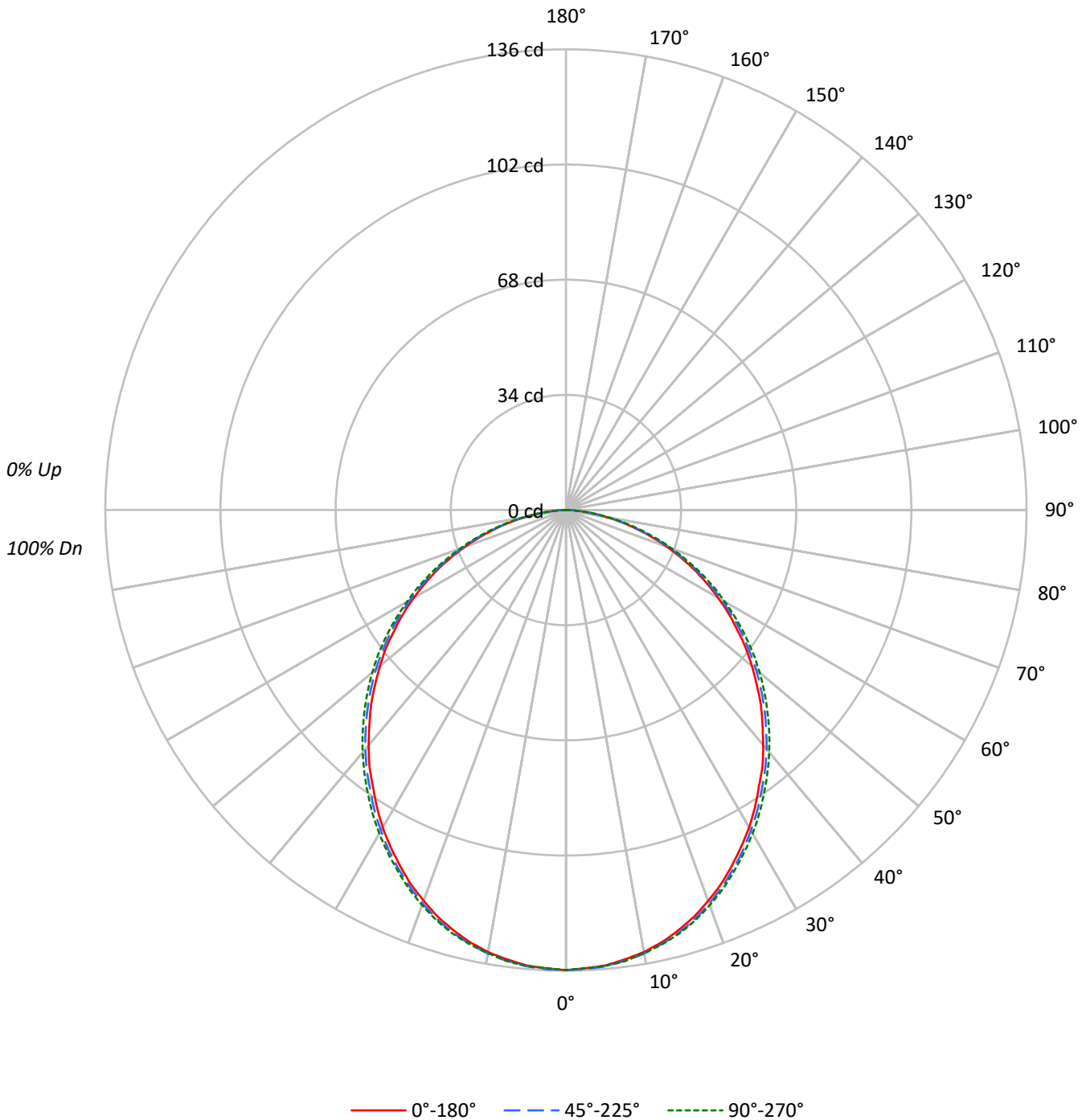
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 358.5 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	53	53	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	29	29	29	28
10	54	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°	365	365	365
5°	364	365	365
10°	362	363	363
15°	358	360	360
20°	352	354	356
25°	344	347	349
30°	336	340	343
35°	327	331	335
40°	318	324	328
45°	310	315	320
50°	300	307	312
55°	290	297	303
60°	279	285	292
65°	267	273	280
70°	249	255	262
75°	224	230	238
80°	192	199	203
85°	141	143	153



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.8	3.6
10°-20°	36.4	10.1
20°-30°	53.8	15.0
30°-40°	63.1	17.6
40°-50°	63.9	17.8
50°-60°	56.6	15.8
60°-70°	42.4	11.8
70°-80°	23.6	6.6
80°-90°	5.8	1.6
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°	103.0	28.7
0°-40°	166.1	46.3
0°-60°	286.6	80.0
0°-90°	358.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	136	136	136	136	136	
5°	135	135	135	135	135	13
15°	128	129	129	129	129	36
25°	116	116	117	117	118	53
35°	99	100	101	102	102	62
45°	81	82	83	84	84	63
55°	62	62	63	64	65	55
65°	42	42	43	44	44	41
75°	22	22	22	23	23	23
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	135.8	135.8	135.8	135.8	135.8
2.5°	135.4	135.7	135.7	135.5	135.3
5°	134.9	135.1	135.2	135.1	135.1
7.5°	133.8	134.1	134.2	134.2	134.3
10°	132.5	132.9	133.0	133.0	132.8
12.5°	130.7	131.1	131.2	131.3	131.3
15°	128.4	128.9	129.1	129.4	129.4
17.5°	125.9	126.3	126.6	127.0	127.0
20°	122.8	123.3	123.7	124.2	124.2
22.5°	119.6	120.0	120.4	120.9	121.1
25°	115.9	116.4	116.9	117.3	117.6
27.5°	112.1	112.5	113.3	113.9	114.0
30°	108.2	108.6	109.3	110.1	110.2
32.5°	103.9	104.3	105.2	105.8	106.2
35°	99.4	100.0	100.8	101.8	102.0
37.5°	95.3	95.7	96.6	97.6	97.8
40°	90.6	91.3	92.2	93.2	93.4
42.5°	85.9	86.5	87.5	88.6	88.8
45°	81.4	81.9	82.9	84.0	84.2
47.5°	76.4	77.1	78.1	79.2	79.4
50°	71.7	72.3	73.3	74.5	74.6
52.5°	67.0	67.3	68.2	69.3	69.7
55°	61.8	62.3	63.3	64.3	64.6
57.5°	57.0	57.4	58.3	59.4	59.5
60°	51.9	52.2	53.0	54.1	54.2
62.5°	46.9	47.2	48.0	48.9	49.1
65°	41.9	42.2	42.9	43.8	43.9
67.5°	36.8	36.9	37.6	38.4	38.4
70°	31.7	31.9	32.4	33.2	33.2
72.5°	26.6	26.8	27.3	28.0	28.2
75°	21.6	21.8	22.2	22.8	22.9
77.5°	17.0	16.9	17.3	17.8	17.9
80°	12.4	12.4	12.9	13.0	13.1
82.5°	8.2	8.2	8.5	8.8	8.8
85°	4.6	4.6	4.6	4.9	5.0
87.5°	1.9	1.8	1.9	2.0	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)