

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: P708901

Luminaire Tested: **22APR-X-X-UNV-NL835**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708901  
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-NL835  
Description: ArcMed Patient Recessed 2x2 Fixture NIGHT Light  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

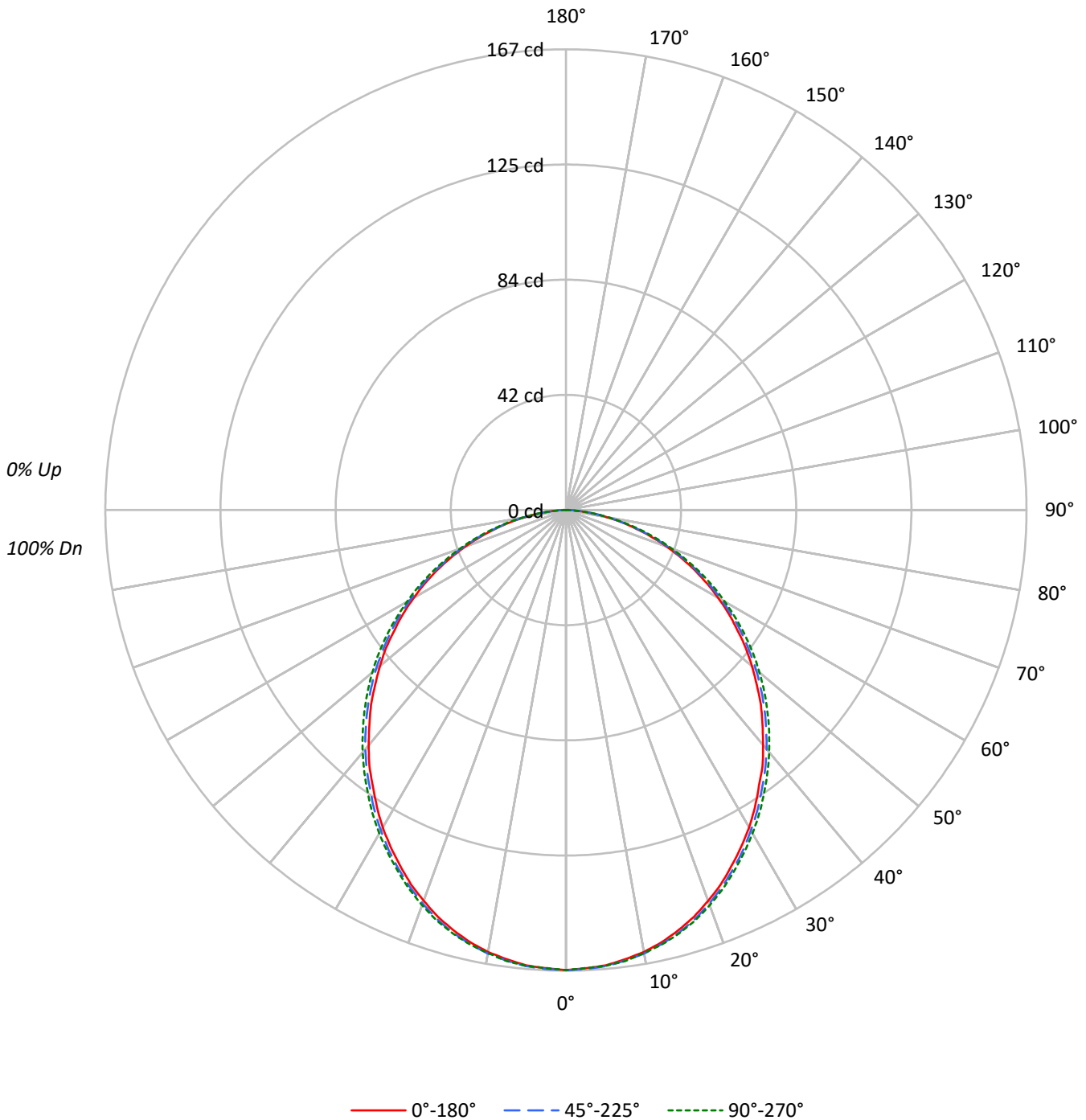
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 440.2 lumens  
Efficiency: N/A  
Efficacy: 73.4 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°	449	449	449
5°	447	448	448
10°	444	446	446
15°	439	442	443
20°	432	435	437
25°	422	426	429
30°	413	417	421
35°	401	406	411
40°	391	397	403
45°	380	387	393
50°	369	376	384
55°	356	365	372
60°	343	350	358
65°	327	335	343
70°	306	313	321
75°	276	283	292
80°	236	245	250
85°	173	176	188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.7	3.6
10°-20°	44.7	10.1
20°-30°	66.1	15.0
30°-40°	77.5	17.6
40°-50°	78.5	17.8
50°-60°	69.5	15.8
60°-70°	52.0	11.8
70°-80°	29.0	6.6
80°-90°	7.2	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°	126.5	28.7
0°-40°	204.0	46.3
0°-60°	351.9	80.0
0°-90°	440.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	440.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	167	167	167	167	167	
5°	166	166	166	166	166	16
15°	158	158	159	159	159	44
25°	142	143	144	144	144	66
35°	122	123	124	125	125	76
45°	100	101	102	103	103	77
55°	76	77	78	79	79	68
65°	51	52	53	54	54	51
75°	27	27	27	28	28	28
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	166.8	166.8	166.8	166.8	166.8
2.5°	166.3	166.7	166.6	166.4	166.2
5°	165.7	165.9	166.0	165.9	165.9
7.5°	164.3	164.7	164.8	164.8	164.9
10°	162.7	163.2	163.3	163.3	163.1
12.5°	160.5	161.0	161.1	161.2	161.3
15°	157.7	158.3	158.6	158.9	158.9
17.5°	154.6	155.1	155.5	156.0	156.0
20°	150.8	151.4	151.9	152.5	152.5
22.5°	146.9	147.4	147.9	148.5	148.7
25°	142.3	142.9	143.6	144.1	144.4
27.5°	137.7	138.2	139.1	139.9	140.0
30°	132.9	133.4	134.2	135.2	135.4
32.5°	127.6	128.1	129.2	130.0	130.5
35°	122.0	122.7	123.7	125.0	125.3
37.5°	117.0	117.4	118.6	119.8	120.0
40°	111.2	112.0	113.1	114.4	114.6
42.5°	105.4	106.2	107.4	108.7	109.0
45°	99.9	100.5	101.7	103.1	103.3
47.5°	93.8	94.6	95.8	97.2	97.5
50°	88.0	88.7	89.9	91.4	91.6
52.5°	82.2	82.6	83.7	85.1	85.6
55°	75.8	76.5	77.7	78.9	79.3
57.5°	70.0	70.4	71.5	72.9	73.0
60°	63.7	64.1	65.1	66.4	66.5
62.5°	57.6	57.9	58.9	60.0	60.3
65°	51.4	51.8	52.6	53.7	53.9
67.5°	45.1	45.3	46.1	47.1	47.1
70°	38.9	39.1	39.8	40.8	40.8
72.5°	32.7	32.9	33.5	34.4	34.6
75°	26.5	26.7	27.2	28.0	28.1
77.5°	20.9	20.7	21.2	21.9	22.0
80°	15.2	15.2	15.8	16.0	16.1
82.5°	10.1	10.1	10.4	10.8	10.8
85°	5.6	5.6	5.7	6.0	6.1
87.5°	2.3	2.2	2.3	2.4	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)