

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: P708897

Luminaire Tested: **22APR-X-X-UNV-RL935**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708897  
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-RL935  
Description: ArcMed Patient Recessed 2x2 Fixture READING Light  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

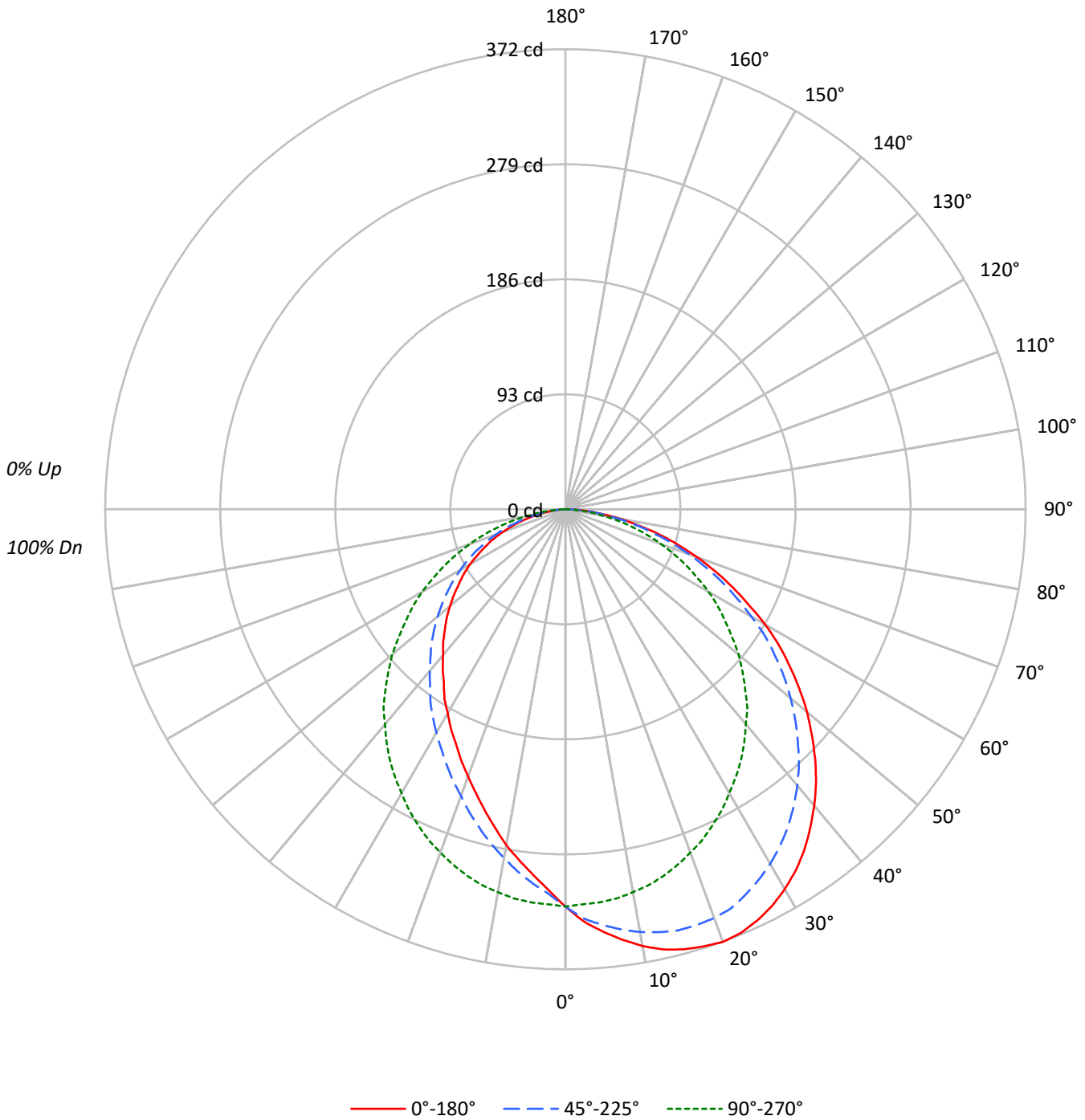
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 896.1 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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	94	98	94	91	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	72	72	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	53	53	53	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	46	46	46	44
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	26	26	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	864	864	864
5°	925	862	802
10°	980	859	753
15°	1026	855	702
20°	1066	846	658
25°	1089	836	621
30°	1102	823	591
35°	1105	813	563
40°	1099	797	540
45°	1087	782	524
50°	1068	765	510
55°	1039	739	493
60°	1004	721	480
65°	950	688	456
70°	892	647	425
75°	815	585	379
80°	708	507	307
85°	587	398	213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.4	3.4
10°-20°	87.3	9.7
20°-30°	131.6	14.7
30°-40°	157.1	17.5
40°-50°	161.2	18.0
50°-60°	144.2	16.1
60°-70°	108.3	12.1
70°-80°	60.5	6.8
80°-90°	15.4	1.7
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°	249.3	27.8
0°-40°	406.4	45.4
0°-60°	711.8	79.4
0°-90°	896.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	321	321	321	321	321	
5°	343	337	319	304	297	33
15°	368	352	307	267	252	104
25°	367	344	282	228	209	169
35°	336	314	247	190	171	210
45°	286	266	206	153	138	220
55°	222	207	158	116	105	198
65°	149	140	108	79	72	148
75°	78	73	56	40	36	83
85°	19	18	13	8	7	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	333.4	331.9	331.1	325.8	319.7	317.4	311.3	311.3	308.3
5°	342.6	341.0	337.2	328.9	319.0	312.1	303.7	300.7	296.9
7.5°	350.9	347.9	342.6	330.4	317.4	306.8	295.4	290.0	286.2
10°	358.5	355.5	347.1	331.9	314.4	300.7	286.2	279.4	275.6
12.5°	364.6	360.8	350.2	331.9	311.3	293.1	277.1	268.0	263.4
15°	368.4	364.6	352.5	331.1	306.8	286.2	267.2	257.3	252.0
17.5°	370.7	366.2	352.5	328.9	301.5	277.9	257.3	245.9	240.6
20°	372.2	366.9	351.7	325.1	295.4	269.5	246.6	236.0	229.9
22.5°	370.7	364.6	349.4	321.2	289.3	260.3	237.5	225.3	220.0
25°	366.9	361.6	344.1	315.2	281.7	252.0	227.6	214.7	209.3
27.5°	361.6	356.3	338.0	308.3	274.0	242.8	217.7	204.8	200.2
30°	354.7	348.6	331.1	300.7	264.9	232.9	208.6	195.6	190.3
32.5°	346.4	340.3	322.8	293.1	256.5	223.8	199.4	186.5	181.9
35°	336.5	331.1	313.6	282.4	247.4	214.7	190.3	175.8	171.3
37.5°	325.1	319.7	303.0	273.3	237.5	205.5	179.7	167.5	162.9
40°	312.9	307.5	291.6	261.9	226.9	195.6	170.5	158.3	153.8
42.5°	299.9	294.6	279.4	251.2	217.7	185.7	161.4	150.0	146.2
45°	285.5	280.9	265.7	239.0	205.5	174.3	153.0	141.6	137.8
47.5°	270.2	265.7	252.0	226.9	194.1	164.4	143.9	133.2	130.2
50°	255.0	250.4	237.5	213.1	182.7	153.8	134.7	124.8	121.8
52.5°	238.3	234.5	223.0	200.2	169.8	143.9	125.6	117.2	113.4
55°	221.5	217.7	207.1	186.5	157.6	134.0	116.5	108.1	105.1
57.5°	204.8	201.7	191.8	170.5	146.2	123.3	107.3	99.7	97.4
60°	186.5	183.5	173.6	156.1	134.0	112.7	98.2	91.3	89.1
62.5°	166.7	164.4	156.8	140.8	120.3	102.0	89.1	82.2	79.9
65°	149.2	146.9	140.1	126.4	108.1	91.3	79.2	73.8	71.6
67.5°	130.9	129.4	123.3	111.1	95.2	80.7	69.3	64.7	63.2
70°	113.4	111.9	106.6	95.9	82.2	69.3	60.1	55.6	54.0
72.5°	95.2	95.2	89.8	80.7	70.0	57.9	50.2	47.2	44.9
75°	78.4	76.9	73.1	66.2	56.3	47.2	40.3	37.3	36.5
77.5°	60.9	60.9	57.9	51.8	44.9	36.5	32.0	28.9	28.2
80°	45.7	45.7	42.6	38.1	32.7	26.6	22.8	21.3	19.8
82.5°	31.2	31.2	28.9	25.1	22.1	17.5	15.2	13.7	12.9
85°	19.0	18.3	17.5	15.2	12.9	9.9	8.4	7.6	6.9
87.5°	9.1	9.1	8.4	6.1	5.3	3.8	3.0	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)