

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: P708904

Luminaire Tested: **22APR-X-X-UNV-NL930**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708904  
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-NL930  
Description: ArcMed Patient Recessed 2x2 Fixture NIGHT Light  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

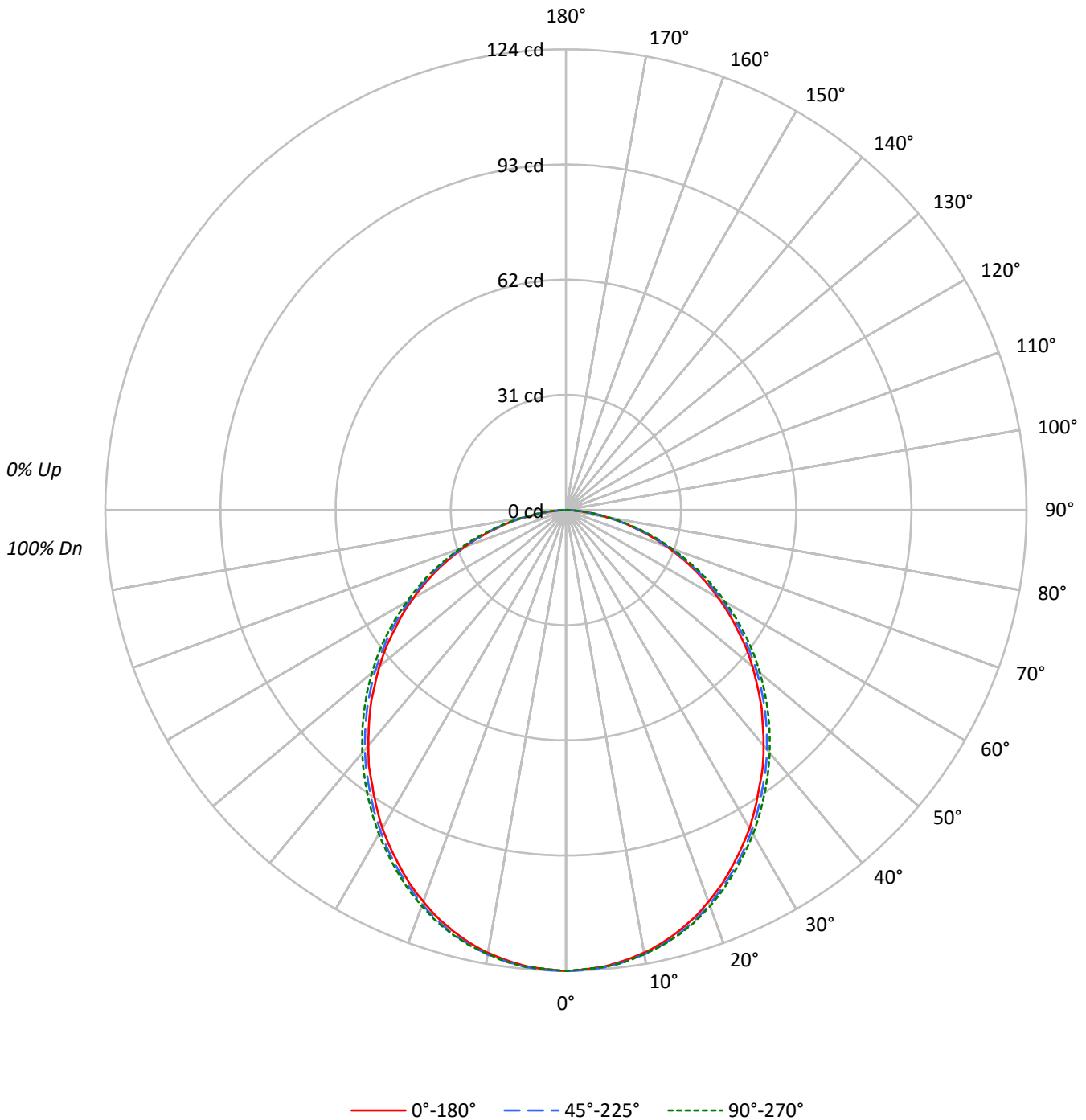
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 327.5 lumens  
Efficiency: N/A  
Efficacy: 54.6 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°	334	334	334
5°	333	334	333
10°	331	332	332
15°	327	329	329
20°	321	324	325
25°	314	317	319
30°	307	310	313
35°	298	302	306
40°	291	296	300
45°	283	288	293
50°	274	280	285
55°	265	271	277
60°	255	261	266
65°	244	249	255
70°	228	233	239
75°	205	211	218
80°	175	182	186
85°	129	131	140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.7	3.6
10°-20°	33.2	10.1
20°-30°	49.2	15.0
30°-40°	57.7	17.6
40°-50°	58.4	17.8
50°-60°	51.7	15.8
60°-70°	38.7	11.8
70°-80°	21.6	6.6
80°-90°	5.3	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°	94.1	28.7
0°-40°	151.8	46.3
0°-60°	261.9	80.0
0°-90°	327.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	327.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	124	124	124	124	124	
5°	123	123	123	123	123	12
15°	117	118	118	118	118	33
25°	106	106	107	107	107	49
35°	91	91	92	93	93	57
45°	74	75	76	77	77	57
55°	56	57	58	59	59	51
65°	38	39	39	40	40	38
75°	20	20	20	21	21	21
85°	4	4	4	4	5	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	124.1	124.1	124.1	124.1	124.1
2.5°	123.7	124.0	123.9	123.8	123.6
5°	123.3	123.4	123.5	123.4	123.4
7.5°	122.2	122.5	122.6	122.6	122.7
10°	121.0	121.4	121.5	121.5	121.3
12.5°	119.4	119.8	119.9	119.9	120.0
15°	117.3	117.8	118.0	118.2	118.2
17.5°	115.0	115.4	115.7	116.1	116.1
20°	112.2	112.6	113.0	113.5	113.5
22.5°	109.3	109.7	110.0	110.5	110.6
25°	105.9	106.3	106.8	107.2	107.4
27.5°	102.4	102.8	103.5	104.1	104.1
30°	98.9	99.2	99.8	100.6	100.7
32.5°	94.9	95.3	96.1	96.7	97.1
35°	90.8	91.3	92.1	93.0	93.2
37.5°	87.1	87.4	88.3	89.2	89.3
40°	82.8	83.4	84.2	85.2	85.3
42.5°	78.5	79.1	80.0	80.9	81.1
45°	74.4	74.8	75.7	76.8	76.9
47.5°	69.8	70.4	71.3	72.4	72.6
50°	65.5	66.0	66.9	68.0	68.2
52.5°	61.2	61.5	62.3	63.4	63.7
55°	56.4	57.0	57.8	58.7	59.0
57.5°	52.1	52.4	53.2	54.3	54.3
60°	47.4	47.7	48.5	49.4	49.5
62.5°	42.9	43.1	43.8	44.7	44.9
65°	38.3	38.6	39.2	40.0	40.1
67.5°	33.6	33.7	34.3	35.1	35.1
70°	29.0	29.1	29.6	30.4	30.4
72.5°	24.3	24.5	24.9	25.6	25.8
75°	19.7	19.9	20.3	20.8	20.9
77.5°	15.6	15.4	15.8	16.3	16.4
80°	11.3	11.3	11.8	11.9	12.0
82.5°	7.5	7.5	7.7	8.0	8.0
85°	4.2	4.2	4.2	4.5	4.5
87.5°	1.7	1.6	1.7	1.8	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)