

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: P708919

Luminaire Tested: **24APR-X-X-UNV-NL850**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708919  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/12/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24APR-X-X-UNV-NL850  
Description: ArcMed Patient Recessed 2x4 Fixture NIGHT Light  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

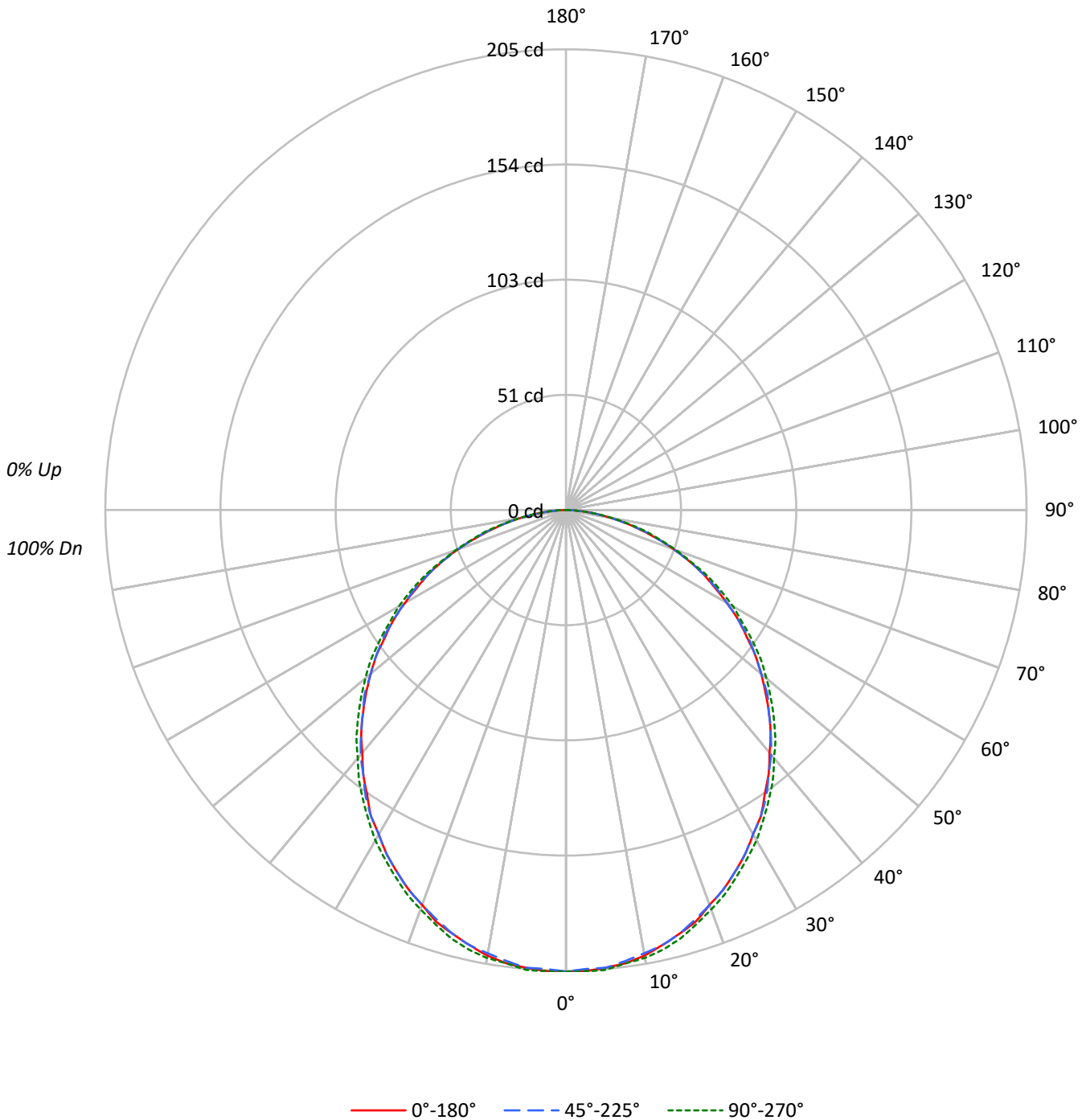
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 557.1 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' 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	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	76	82	78	74	79	75	72	72	72	72	70
3	90	80	72	65	88	78	71	65	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	65	58	53	62	57	53	53	53	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	26	26	26	25

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

	0°	45°	90°
0°	276	276	276
5°	276	276	277
10°	275	274	277
15°	272	272	275
20°	268	268	271
25°	264	264	267
30°	259	259	264
35°	253	255	259
40°	248	250	253
45°	243	243	249
50°	237	237	244
55°	230	232	237
60°	223	223	231
65°	215	215	221
70°	201	201	205
75°	181	186	191
80°	158	158	167
85°	127	127	127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.4	3.5
10°-20°	55.2	9.9
20°-30°	82.3	14.8
30°-40°	97.4	17.5
40°-50°	99.4	17.8
50°-60°	88.9	15.9
60°-70°	67.1	12.1
70°-80°	37.8	6.8
80°-90°	9.7	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°	156.9	28.2
0°-40°	254.2	45.6
0°-60°	442.5	79.4
0°-90°	557.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	557.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	205	205	205	205	205	
5°	204	205	204	204	205	19
15°	195	195	195	196	197	55
25°	178	179	178	179	180	82
35°	154	155	155	156	157	97
45°	128	129	128	130	131	99
55°	98	99	99	100	101	88
65°	68	68	68	68	70	66
75°	35	36	36	36	37	37
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	205.4	205.4	205.4	205.4	205.4
2.5°	205.4	205.4	204.4	205.4	205.4
5°	204.4	205.4	204.4	204.4	205.4
7.5°	203.4	203.4	202.4	202.4	203.4
10°	201.3	201.3	200.3	201.3	202.4
12.5°	198.3	198.3	198.3	199.3	200.3
15°	195.2	195.2	195.2	196.2	197.3
17.5°	192.1	192.1	191.1	192.1	193.2
20°	187.0	188.1	187.0	188.1	189.1
22.5°	182.9	184.0	182.9	184.0	185.0
25°	177.8	178.9	177.8	178.9	179.9
27.5°	172.7	173.8	172.7	173.8	174.8
30°	166.6	167.6	166.6	168.6	169.7
32.5°	161.5	161.5	161.5	162.5	163.5
35°	154.3	155.4	155.4	156.4	157.4
37.5°	148.2	148.2	148.2	150.2	151.3
40°	141.0	142.1	142.1	143.1	144.1
42.5°	134.9	134.9	134.9	137.0	138.0
45°	127.8	128.8	127.8	129.8	130.8
47.5°	120.6	121.6	121.6	122.6	123.7
50°	113.4	113.4	113.4	115.5	116.5
52.5°	106.3	106.3	106.3	108.3	109.4
55°	98.1	99.1	99.1	100.2	101.2
57.5°	91.0	91.0	91.0	92.0	93.0
60°	82.8	83.8	82.8	84.8	85.9
62.5°	74.6	75.6	75.6	76.7	77.7
65°	67.5	67.5	67.5	68.5	69.5
67.5°	59.3	59.3	59.3	60.3	60.3
70°	51.1	51.1	51.1	52.1	52.1
72.5°	42.9	42.9	42.9	43.9	43.9
75°	34.8	35.8	35.8	35.8	36.8
77.5°	27.6	27.6	27.6	28.6	28.6
80°	20.4	20.4	20.4	21.5	21.5
82.5°	14.3	13.3	14.3	14.3	14.3
85°	8.2	8.2	8.2	8.2	8.2
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)