

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: P708917

Luminaire Tested: **24APR-X-X-UNV-NL835**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708917  
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-NL835  
Description: ArcMed Patient Recessed 2x4 Fixture NIGHT Light  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

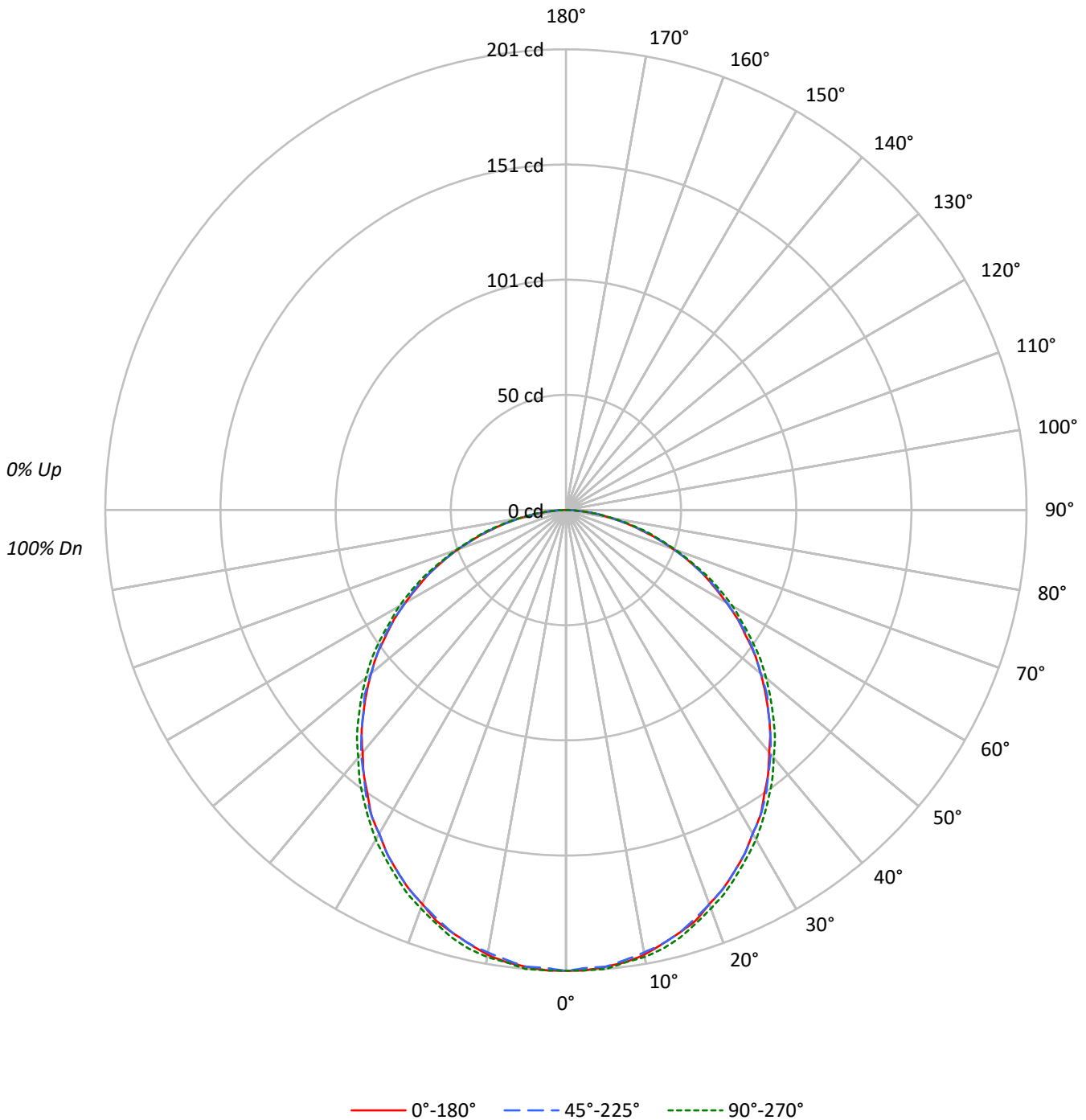
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 545.1 lumens  
Efficiency: N/A  
Efficacy: 90.8 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	32	27	38	31	27	37	31	26	26	26	26	25

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

	0°	45°	90°
0°	270	270	270
5°	270	270	271
10°	269	268	271
15°	266	266	269
20°	262	262	265
25°	258	258	261
30°	253	253	258
35°	248	250	253
40°	242	244	248
45°	238	238	244
50°	232	232	239
55°	225	228	232
60°	218	218	226
65°	210	210	216
70°	197	197	201
75°	177	182	187
80°	155	155	163
85°	124	124	124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.0	3.5
10°-20°	54.0	9.9
20°-30°	80.5	14.8
30°-40°	95.3	17.5
40°-50°	97.3	17.8
50°-60°	86.9	15.9
60°-70°	65.7	12.0
70°-80°	36.9	6.8
80°-90°	9.5	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°	153.5	28.2
0°-40°	248.7	45.6
0°-60°	433.0	79.4
0°-90°	545.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	201	201	201	201	201	
5°	200	201	200	200	201	19
15°	191	191	191	192	193	54
25°	174	175	174	175	176	80
35°	151	152	152	153	154	95
45°	125	126	125	127	128	96
55°	96	97	97	98	99	86
65°	66	66	66	67	68	65
75°	34	35	35	35	36	36
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°	201	201	201	201	201
2.5°	201	201	200	201	201
5°	200	201	200	200	201
7.5°	199	199	198	198	199
10°	197	197	196	197	198
12.5°	194	194	194	195	196
15°	191	191	191	192	193
17.5°	188	188	187	188	189
20°	183	184	183	184	185
22.5°	179	180	179	180	181
25°	174	175	174	175	176
27.5°	169	170	169	170	171
30°	163	164	163	165	166
32.5°	158	158	158	159	160
35°	151	152	152	153	154
37.5°	145	145	145	147	148
40°	138	139	139	140	141
42.5°	132	132	132	134	135
45°	125	126	125	127	128
47.5°	118	119	119	120	121
50°	111	111	111	113	114
52.5°	104	104	104	106	107
55°	96	97	97	98	99
57.5°	89	89	89	90	91
60°	81	82	81	83	84
62.5°	73	74	74	75	76
65°	66	66	66	67	68
67.5°	58	58	58	59	59
70°	50	50	50	51	51
72.5°	42	42	42	43	43
75°	34	35	35	35	36
77.5°	27	27	27	28	28
80°	20	20	20	21	21
82.5°	14	13	14	14	14
85°	8	8	8	8	8
87.5°	3	3	3	3	3
90°	0	0	0	0	0

(END OF REPORT)