

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: P708921

Luminaire Tested: **24APR-X-X-UNV-NL935**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708921
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-NL935
Description: ArcMed Patient Recessed 2x4 Fixture NIGHT Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

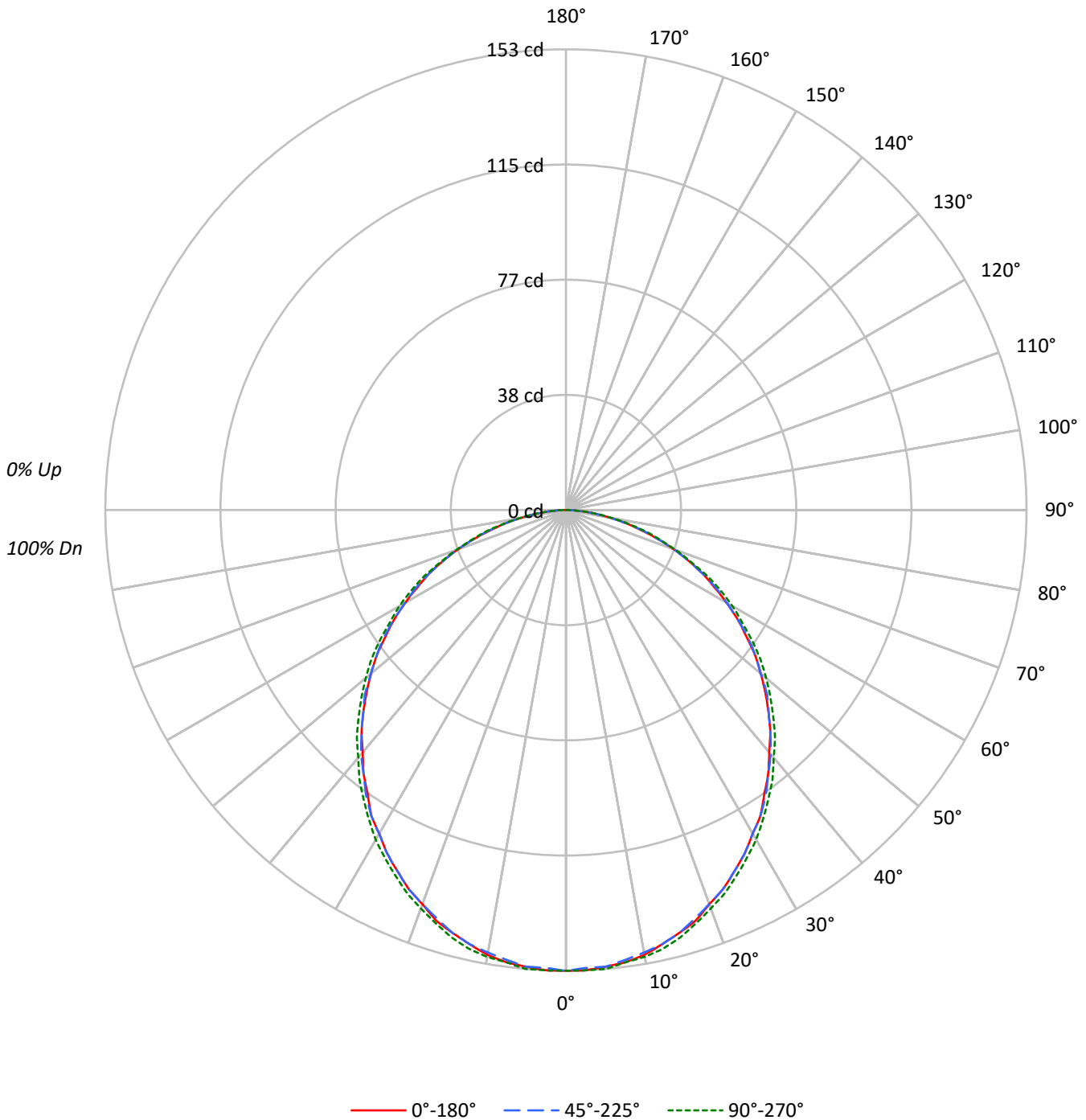
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 414.9 lumens
Efficiency: N/A
Efficacy: 69.2 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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CATALOG NUMBER: 24APR-X-X-UNV-NL935

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°	206	206	206
5°	206	206	207
10°	205	204	206
15°	203	203	205
20°	199	199	202
25°	197	197	199
30°	193	193	196
35°	189	190	193
40°	184	186	188
45°	181	181	185
50°	177	177	182
55°	171	173	177
60°	166	166	172
65°	160	160	165
70°	150	150	153
75°	135	138	142
80°	118	118	124
85°	94	94	94



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	3.5
10°-20°	41.1	9.9
20°-30°	61.3	14.8
30°-40°	72.5	17.5
40°-50°	74.1	17.8
50°-60°	66.2	15.9
60°-70°	50.0	12.0
70°-80°	28.1	6.8
80°-90°	7.2	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°	116.8	28.2
0°-40°	189.3	45.6
0°-60°	329.6	79.4
0°-90°	414.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	414.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	153	153	153	153	153	
5°	152	153	152	152	153	14
15°	145	145	145	146	147	41
25°	132	133	132	133	134	61
35°	115	116	116	116	117	72
45°	95	96	95	97	97	73
55°	73	74	74	75	75	66
65°	50	50	50	51	52	49
75°	26	27	27	27	27	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°	153.0	153.0	153.0	153.0	153.0
2.5°	153.0	153.0	152.2	153.0	153.0
5°	152.2	153.0	152.2	152.2	153.0
7.5°	151.5	151.5	150.7	150.7	151.5
10°	150.0	150.0	149.2	150.0	150.7
12.5°	147.7	147.7	147.7	148.4	149.2
15°	145.4	145.4	145.4	146.2	146.9
17.5°	143.1	143.1	142.3	143.1	143.9
20°	139.3	140.1	139.3	140.1	140.8
22.5°	136.3	137.0	136.3	137.0	137.8
25°	132.4	133.2	132.4	133.2	134.0
27.5°	128.6	129.4	128.6	129.4	130.2
30°	124.1	124.8	124.1	125.6	126.4
32.5°	120.3	120.3	120.3	121.0	121.8
35°	114.9	115.7	115.7	116.5	117.2
37.5°	110.4	110.4	110.4	111.9	112.7
40°	105.0	105.8	105.8	106.6	107.3
42.5°	100.5	100.5	100.5	102.0	102.8
45°	95.2	95.9	95.2	96.7	97.4
47.5°	89.8	90.6	90.6	91.3	92.1
50°	84.5	84.5	84.5	86.0	86.8
52.5°	79.2	79.2	79.2	80.7	81.4
55°	73.1	73.8	73.8	74.6	75.4
57.5°	67.7	67.7	67.7	68.5	69.3
60°	61.7	62.4	61.7	63.2	63.9
62.5°	55.6	56.3	56.3	57.1	57.9
65°	50.2	50.2	50.2	51.0	51.8
67.5°	44.1	44.1	44.1	44.9	44.9
70°	38.1	38.1	38.1	38.8	38.8
72.5°	32.0	32.0	32.0	32.7	32.7
75°	25.9	26.6	26.6	26.6	27.4
77.5°	20.6	20.6	20.6	21.3	21.3
80°	15.2	15.2	15.2	16.0	16.0
82.5°	10.7	9.9	10.7	10.7	10.7
85°	6.1	6.1	6.1	6.1	6.1
87.5°	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)