

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: P

Luminaire Tested: **4APN-X-X-NL930-UNV-NP**

Issue Date: 06/06/2024



Test Information

Test Method: LM-79-08
Report Number: P
Test Lab: INNOVATION CENTER(G2)
Issue Date: 06/06/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN-X-X-NL930-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture NIGHT Light w/ Nature Pattern Lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

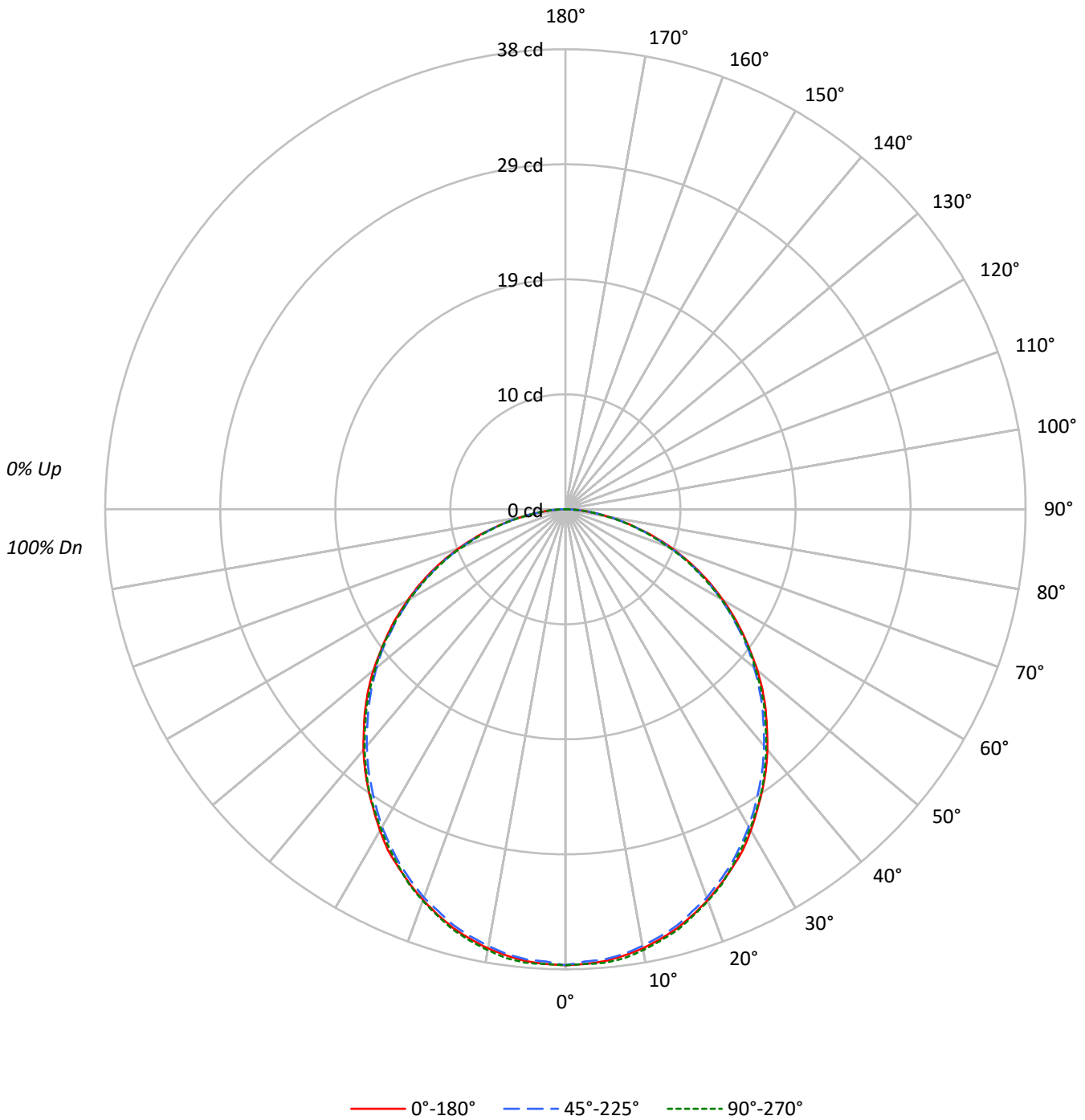
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 100.4 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.32
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
Input Voltage (V): 120
Input Current (A_{in}): 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				
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	94	92	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	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	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°	203	203	203
5°	202	202	203
10°	201	200	202
15°	199	198	200
20°	197	196	197
25°	194	192	193
30°	190	188	189
35°	186	184	186
40°	182	179	181
45°	178	175	177
50°	173	170	172
55°	168	165	166
60°	162	160	160
65°	155	153	152
70°	147	144	141
75°	132	131	129
80°	113	115	111
85°	94	98	94



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	3.5
10°-20°	10.1	10.0
20°-30°	15.0	14.9
30°-40°	17.6	17.5
40°-50°	17.9	17.8
50°-60°	15.9	15.8
60°-70°	11.9	11.9
70°-80°	6.7	6.7
80°-90°	1.8	1.8
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°	28.6	28.5
0°-40°	46.3	46.1
0°-60°	80.0	79.6
0°-90°	100.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	100.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38	38	38	38	38	
5°	37	38	37	37	38	4
15°	36	36	36	36	36	10
25°	33	33	32	32	33	15
35°	28	28	28	28	28	18
45°	23	23	23	23	23	18
55°	18	18	18	18	18	16
65°	12	12	12	12	12	12
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	37.7	37.7	37.7	37.7	37.7
2.5°	37.6	37.9	37.4	37.7	37.6
5°	37.5	37.8	37.3	37.4	37.6
7.5°	37.2	37.5	37.1	37.1	37.4
10°	36.8	37.1	36.6	36.8	37.0
12.5°	36.4	36.6	36.1	36.4	36.5
15°	35.8	36.0	35.6	35.7	35.9
17.5°	35.1	35.3	34.8	35.1	35.2
20°	34.4	34.6	34.1	34.3	34.4
22.5°	33.5	33.7	33.3	33.3	33.6
25°	32.6	32.8	32.4	32.4	32.6
27.5°	31.7	31.8	31.3	31.4	31.5
30°	30.6	30.8	30.3	30.4	30.5
32.5°	29.5	29.6	29.1	29.2	29.4
35°	28.4	28.4	27.9	28.1	28.3
37.5°	27.2	27.2	26.8	26.8	27.0
40°	25.9	25.9	25.5	25.6	25.8
42.5°	24.6	24.6	24.2	24.4	24.5
45°	23.4	23.3	23.0	23.0	23.2
47.5°	22.1	22.0	21.7	21.7	21.9
50°	20.7	20.6	20.4	20.4	20.5
52.5°	19.2	19.3	19.0	19.0	19.2
55°	17.9	17.9	17.6	17.7	17.7
57.5°	16.5	16.5	16.2	16.3	16.3
60°	15.0	15.1	14.8	14.9	14.9
62.5°	13.7	13.7	13.5	13.5	13.4
65°	12.2	12.1	12.0	12.1	11.9
67.5°	10.8	10.7	10.6	10.6	10.6
70°	9.3	9.3	9.2	9.1	9.0
72.5°	7.9	7.8	7.7	7.7	7.6
75°	6.3	6.3	6.3	6.3	6.2
77.5°	5.0	5.0	5.0	5.0	4.9
80°	3.7	3.7	3.7	3.7	3.6
82.5°	2.6	2.5	2.6	2.6	2.5
85°	1.5	1.5	1.6	1.6	1.5
87.5°	0.6	0.6	0.8	0.8	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)