

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-NL940-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-NL940-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture NIGHT Light w/ Nature Pattern Lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

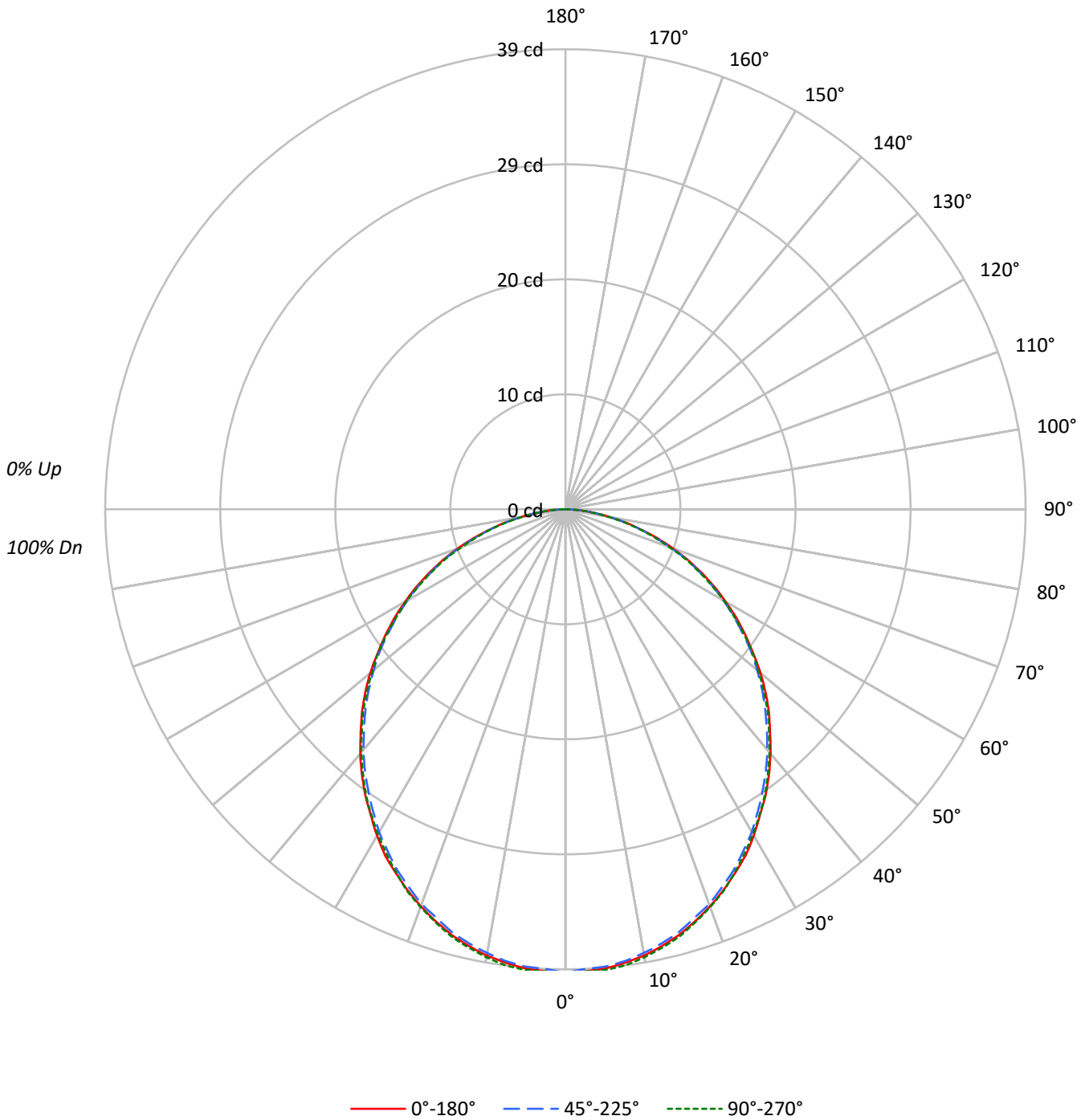
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 104.7 lumens
Efficiency: N/A
Efficacy: 29.9 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	94	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°	211	211	211
5°	211	210	212
10°	210	209	211
15°	208	207	209
20°	205	204	206
25°	202	200	202
30°	198	196	198
35°	194	191	194
40°	190	187	189
45°	186	182	184
50°	181	178	179
55°	175	172	173
60°	169	166	167
65°	162	159	159
70°	153	151	147
75°	138	136	135
80°	118	120	116
85°	98	102	98



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	3.5
10°-20°	10.5	10.0
20°-30°	15.6	14.9
30°-40°	18.4	17.5
40°-50°	18.6	17.8
50°-60°	16.5	15.8
60°-70°	12.5	11.9
70°-80°	7.0	6.7
80°-90°	1.9	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°	29.9	28.5
0°-40°	48.2	46.1
0°-60°	83.4	79.6
0°-90°	104.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	104.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	39	39	39	39	39	
5°	39	39	39	39	39	4
15°	37	38	37	37	37	11
25°	34	34	34	34	34	16
35°	30	30	29	29	29	18
45°	24	24	24	24	24	19
55°	19	19	18	18	18	17
65°	13	13	13	13	12	13
75°	7	7	7	7	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°	39.3	39.3	39.3	39.3	39.3
2.5°	39.2	39.5	39.0	39.3	39.2
5°	39.1	39.4	38.9	39.0	39.2
7.5°	38.8	39.1	38.6	38.7	39.0
10°	38.4	38.7	38.2	38.4	38.6
12.5°	37.9	38.2	37.7	37.9	38.1
15°	37.3	37.6	37.1	37.3	37.5
17.5°	36.6	36.8	36.3	36.6	36.7
20°	35.8	36.0	35.6	35.8	35.9
22.5°	35.0	35.2	34.7	34.7	35.0
25°	34.0	34.2	33.7	33.7	34.0
27.5°	33.1	33.2	32.7	32.7	32.9
30°	31.9	32.1	31.6	31.7	31.8
32.5°	30.7	30.9	30.4	30.4	30.7
35°	29.6	29.6	29.1	29.3	29.5
37.5°	28.3	28.3	27.9	28.0	28.2
40°	27.1	27.1	26.6	26.7	26.9
42.5°	25.7	25.7	25.3	25.4	25.5
45°	24.4	24.3	24.0	24.0	24.2
47.5°	23.0	23.0	22.6	22.7	22.8
50°	21.6	21.5	21.2	21.2	21.4
52.5°	20.1	20.2	19.9	19.9	20.0
55°	18.6	18.7	18.4	18.4	18.5
57.5°	17.2	17.2	16.9	17.0	17.0
60°	15.7	15.8	15.5	15.5	15.5
62.5°	14.2	14.2	14.0	14.0	14.0
65°	12.7	12.7	12.5	12.6	12.5
67.5°	11.2	11.2	11.1	11.1	11.0
70°	9.7	9.6	9.6	9.5	9.4
72.5°	8.2	8.1	8.0	8.1	7.9
75°	6.6	6.6	6.6	6.6	6.5
77.5°	5.3	5.2	5.2	5.2	5.1
80°	3.8	3.8	3.9	3.9	3.7
82.5°	2.7	2.6	2.7	2.7	2.6
85°	1.6	1.6	1.7	1.7	1.6
87.5°	0.7	0.7	0.8	0.8	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)