

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-NL950-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-NL950-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture NIGHT Light w/ Nature Pattern Lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

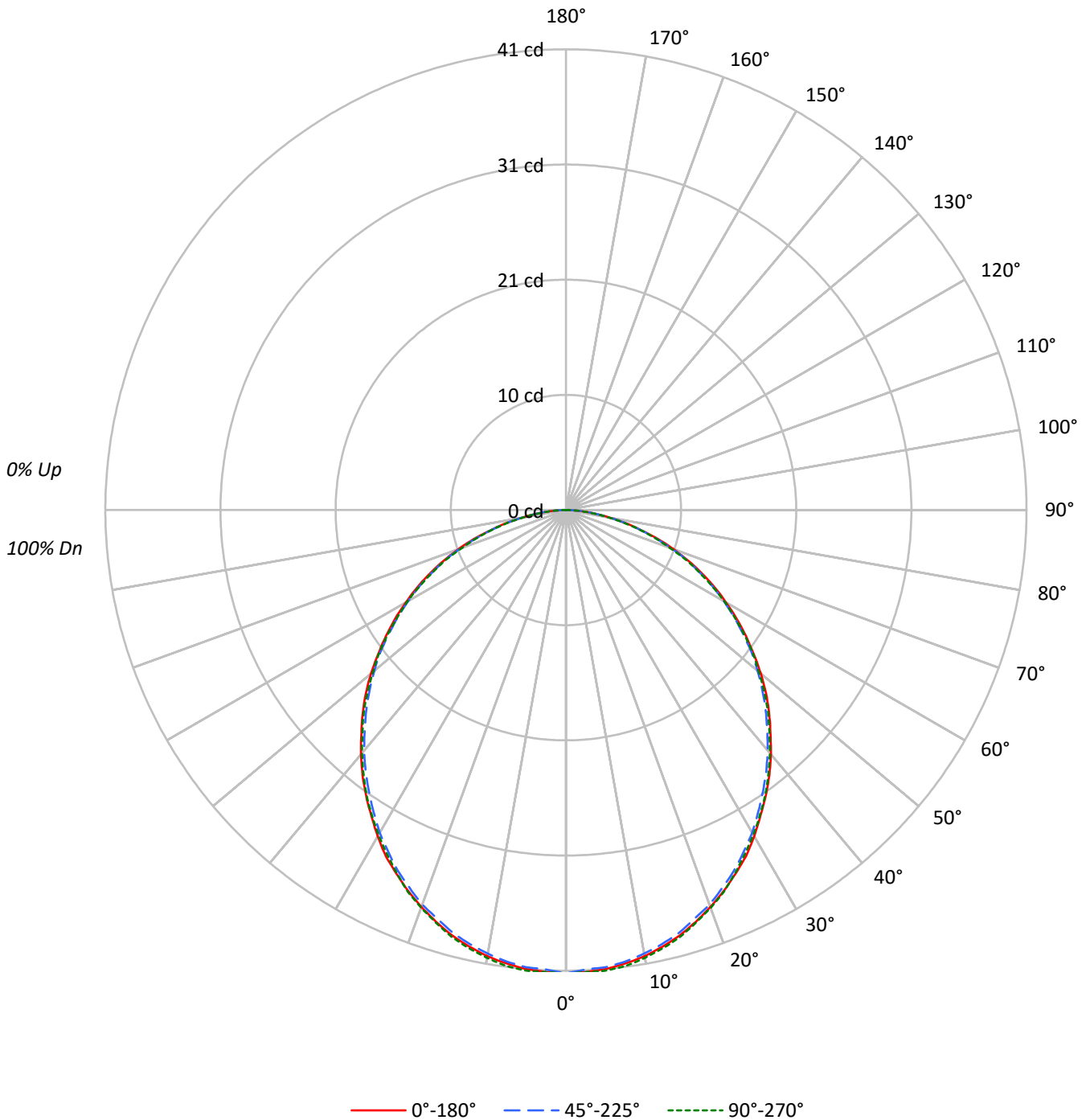
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 109.9 lumens
Efficiency: N/A
Efficacy: 31.4 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				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	100				100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84				84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70				70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59				59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51				51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	222	222	222
5°	222	221	222
10°	220	219	221
15°	218	217	219
20°	215	214	216
25°	212	210	212
30°	208	206	207
35°	204	201	203
40°	199	196	198
45°	195	191	194
50°	190	187	188
55°	184	181	182
60°	177	175	176
65°	170	167	166
70°	160	158	155
75°	144	143	141
80°	124	126	122
85°	103	107	103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	3.5
10°-20°	11.0	10.0
20°-30°	16.4	14.9
30°-40°	19.3	17.5
40°-50°	19.6	17.8
50°-60°	17.4	15.8
60°-70°	13.1	11.9
70°-80°	7.3	6.7
80°-90°	2.0	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°	31.3	28.5
0°-40°	50.6	46.1
0°-60°	87.5	79.6
0°-90°	109.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	109.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	41	41	41	41	41	
5°	41	41	41	41	41	4
15°	39	39	39	39	39	11
25°	36	36	35	35	36	16
35°	31	31	31	31	31	19
45°	26	26	25	25	25	20
55°	20	20	19	19	19	17
65°	13	13	13	13	13	13
75°	7	7	7	7	7	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°	41.2	41.2	41.2	41.2	41.2
2.5°	41.2	41.5	40.9	41.2	41.2
5°	41.0	41.4	40.8	40.9	41.2
7.5°	40.7	41.1	40.5	40.6	40.9
10°	40.3	40.6	40.1	40.3	40.5
12.5°	39.8	40.1	39.6	39.8	39.9
15°	39.2	39.4	39.0	39.1	39.3
17.5°	38.4	38.7	38.1	38.4	38.5
20°	37.6	37.8	37.4	37.5	37.7
22.5°	36.7	36.9	36.4	36.5	36.8
25°	35.7	35.9	35.4	35.4	35.6
27.5°	34.7	34.8	34.3	34.4	34.5
30°	33.5	33.7	33.2	33.2	33.4
32.5°	32.2	32.4	31.9	31.9	32.2
35°	31.0	31.1	30.6	30.7	31.0
37.5°	29.7	29.7	29.3	29.4	29.6
40°	28.4	28.4	27.9	28.0	28.2
42.5°	27.0	27.0	26.5	26.7	26.8
45°	25.6	25.5	25.1	25.2	25.5
47.5°	24.2	24.1	23.7	23.8	23.9
50°	22.7	22.6	22.3	22.3	22.4
52.5°	21.1	21.1	20.8	20.8	21.0
55°	19.6	19.6	19.3	19.3	19.4
57.5°	18.0	18.0	17.7	17.8	17.8
60°	16.5	16.5	16.2	16.3	16.3
62.5°	15.0	15.0	14.7	14.7	14.7
65°	13.4	13.3	13.1	13.2	13.1
67.5°	11.8	11.7	11.6	11.6	11.6
70°	10.2	10.1	10.0	10.0	9.8
72.5°	8.6	8.5	8.4	8.5	8.3
75°	6.9	6.9	6.9	6.9	6.8
77.5°	5.5	5.4	5.4	5.4	5.4
80°	4.0	4.0	4.1	4.1	3.9
82.5°	2.8	2.7	2.8	2.9	2.7
85°	1.7	1.7	1.7	1.7	1.7
87.5°	0.7	0.7	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)