

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-NL835-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-NL835-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture NIGHT Light w/ Nature Pattern Lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

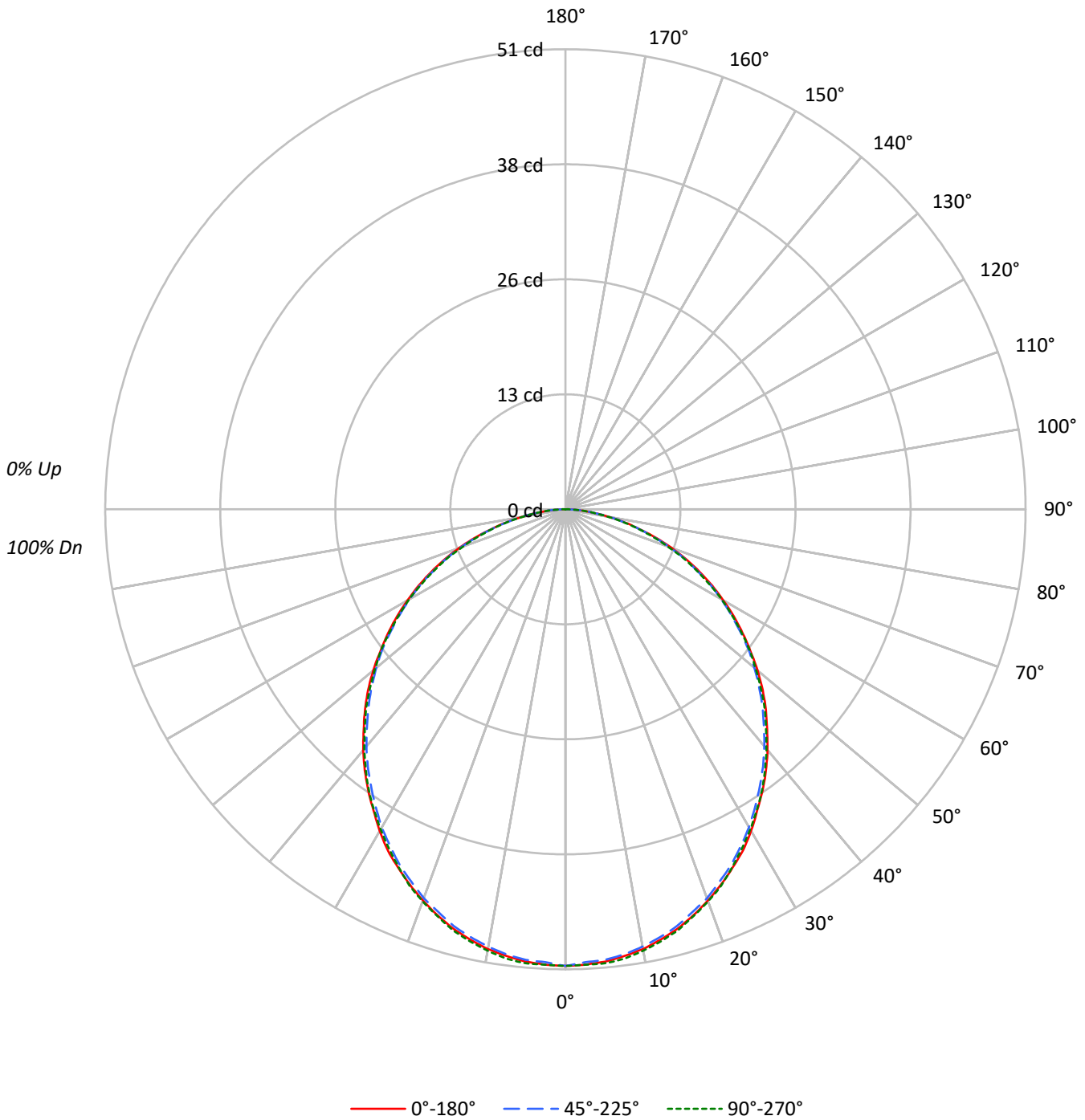
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 135.0 lumens
Efficiency: N/A
Efficacy: 38.6 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	100	100
1	109	104	100	96	106	102	98	94	98	94	92	94	91	89	90	88	86	84	84	84	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70	70	70	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59	59	59	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51	51	51	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	34	34	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	30	30	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	27	27	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	272	272	272
5°	272	271	273
10°	271	269	272
15°	268	266	269
20°	264	263	265
25°	260	258	260
30°	256	253	255
35°	250	247	250
40°	245	241	244
45°	239	235	238
50°	233	229	231
55°	225	222	224
60°	218	215	216
65°	209	205	204
70°	197	194	190
75°	177	176	173
80°	152	155	149
85°	126	132	126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	3.5
10°-20°	13.6	10.0
20°-30°	20.1	14.9
30°-40°	23.7	17.5
40°-50°	24.0	17.8
50°-60°	21.3	15.8
60°-70°	16.1	11.9
70°-80°	9.0	6.7
80°-90°	2.4	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°	38.5	28.5
0°-40°	62.2	46.1
0°-60°	107.5	79.6
0°-90°	135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	51	51	51	51	51	
5°	50	51	50	50	51	5
15°	48	48	48	48	48	14
25°	44	44	43	43	44	20
35°	38	38	38	38	38	24
45°	31	31	31	31	31	24
55°	24	24	24	24	24	21
65°	16	16	16	16	16	16
75°	9	9	8	9	8	9
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°	50.6	50.6	50.6	50.6	50.6
2.5°	50.5	50.9	50.3	50.6	50.5
5°	50.3	50.8	50.2	50.3	50.5
7.5°	50.0	50.4	49.8	49.9	50.3
10°	49.5	49.9	49.2	49.5	49.7
12.5°	48.9	49.2	48.6	48.9	49.0
15°	48.1	48.4	47.8	48.0	48.3
17.5°	47.2	47.5	46.8	47.2	47.3
20°	46.2	46.4	45.9	46.1	46.3
22.5°	45.1	45.3	44.7	44.8	45.2
25°	43.9	44.1	43.5	43.5	43.8
27.5°	42.6	42.7	42.1	42.2	42.4
30°	41.2	41.3	40.7	40.8	41.0
32.5°	39.6	39.8	39.1	39.2	39.5
35°	38.1	38.2	37.5	37.7	38.0
37.5°	36.5	36.5	36.0	36.1	36.3
40°	34.9	34.9	34.3	34.4	34.7
42.5°	33.1	33.1	32.5	32.7	32.9
45°	31.4	31.3	30.9	31.0	31.2
47.5°	29.7	29.6	29.1	29.2	29.4
50°	27.8	27.7	27.4	27.4	27.5
52.5°	25.9	26.0	25.6	25.6	25.8
55°	24.0	24.1	23.6	23.7	23.8
57.5°	22.2	22.2	21.8	21.9	21.9
60°	20.2	20.3	19.9	20.0	20.0
62.5°	18.4	18.4	18.1	18.1	18.0
65°	16.4	16.3	16.1	16.2	16.0
67.5°	14.5	14.4	14.3	14.3	14.2
70°	12.5	12.4	12.3	12.2	12.1
72.5°	10.6	10.5	10.3	10.4	10.2
75°	8.5	8.5	8.4	8.5	8.3
77.5°	6.8	6.7	6.7	6.7	6.6
80°	4.9	4.9	5.0	5.0	4.8
82.5°	3.4	3.3	3.4	3.5	3.3
85°	2.0	2.0	2.1	2.1	2.0
87.5°	0.8	0.8	1.0	1.0	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)