

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: P708903

Luminaire Tested: **22APR-X-X-UNV-NL850**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708903
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-X-X-UNV-NL850
Description: ArcMed Patient Recessed 2x2 Fixture NIGHT Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

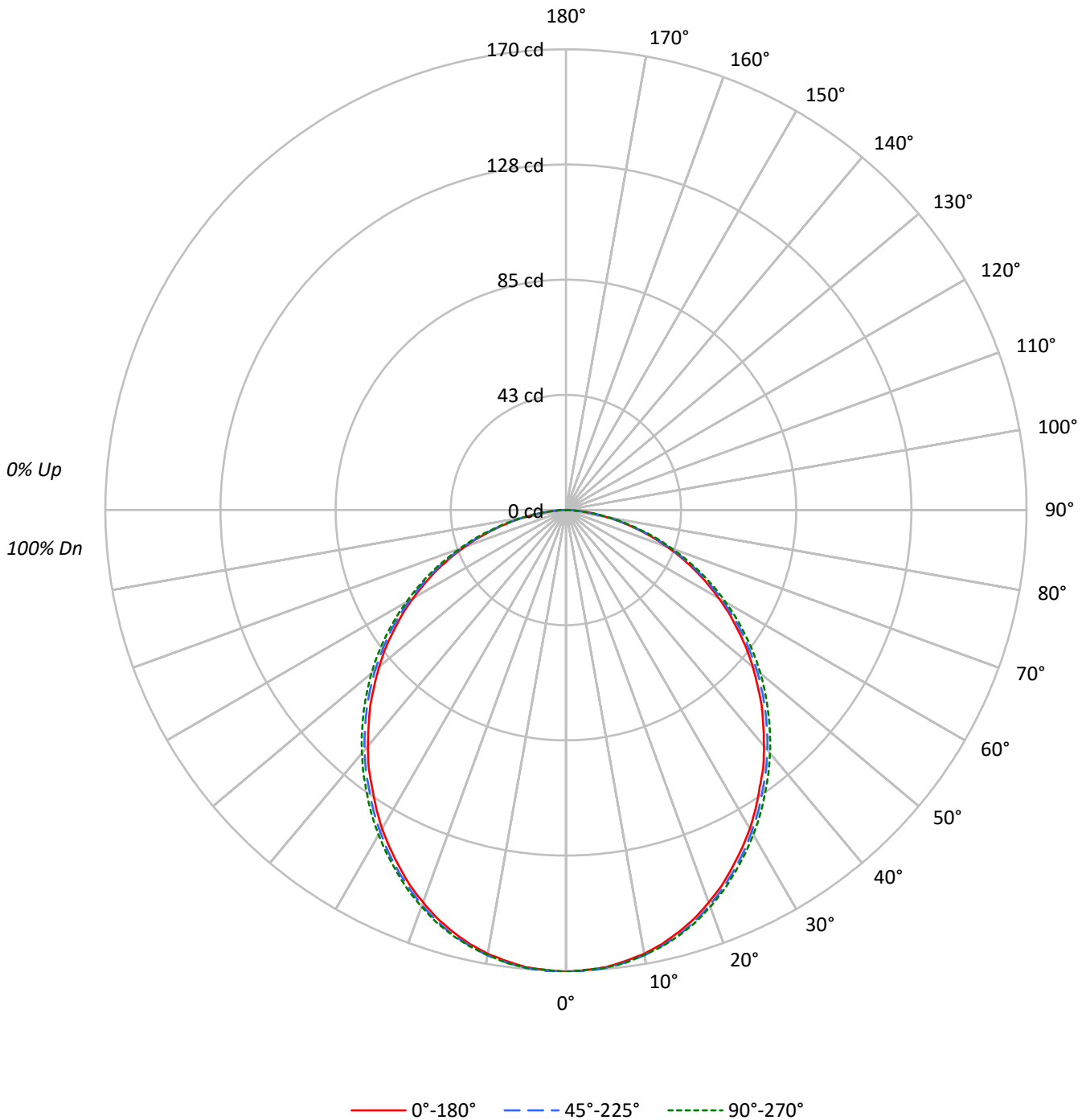
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 449.9 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' 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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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	95	98	95	92	94	91	89	90	88	86	84	84	84	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70	70	70	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59	59	59	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44	44	44	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	34	34	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31	31	31	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28	28
10	54	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°	459	459	459
5°	457	458	458
10°	454	456	455
15°	449	451	452
20°	441	444	446
25°	432	436	438
30°	422	426	430
35°	410	415	421
40°	399	406	412
45°	389	396	402
50°	377	385	392
55°	364	373	380
60°	351	358	366
65°	335	342	351
70°	313	320	328
75°	282	289	299
80°	241	250	255
85°	177	180	193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	3.6
10°-20°	45.6	10.1
20°-30°	67.6	15.0
30°-40°	79.2	17.6
40°-50°	80.2	17.8
50°-60°	71.0	15.8
60°-70°	53.2	11.8
70°-80°	29.6	6.6
80°-90°	7.3	1.6
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°	129.3	28.7
0°-40°	208.5	46.3
0°-60°	359.7	80.0
0°-90°	449.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	170	170	170	170	170	
5°	169	170	170	170	170	16
15°	161	162	162	162	162	45
25°	145	146	147	147	148	67
35°	125	125	126	128	128	78
45°	102	103	104	105	106	79
55°	78	78	79	81	81	69
65°	53	53	54	55	55	52
75°	27	27	28	29	29	29
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°	170.4	170.4	170.4	170.4	170.4
2.5°	169.9	170.3	170.2	170.0	169.8
5°	169.3	169.5	169.6	169.5	169.5
7.5°	167.9	168.3	168.4	168.4	168.5
10°	166.3	166.8	166.9	166.9	166.7
12.5°	164.0	164.5	164.6	164.7	164.8
15°	161.1	161.8	162.1	162.4	162.4
17.5°	158.0	158.5	158.9	159.4	159.4
20°	154.1	154.7	155.2	155.8	155.8
22.5°	150.1	150.6	151.1	151.7	151.9
25°	145.4	146.0	146.7	147.2	147.5
27.5°	140.7	141.2	142.1	142.9	143.0
30°	135.8	136.3	137.1	138.1	138.3
32.5°	130.4	130.9	132.0	132.8	133.3
35°	124.7	125.5	126.5	127.7	128.0
37.5°	119.6	120.0	121.3	122.5	122.7
40°	113.7	114.5	115.6	117.0	117.2
42.5°	107.8	108.6	109.8	111.1	111.5
45°	102.1	102.8	104.0	105.4	105.6
47.5°	95.9	96.7	98.0	99.4	99.7
50°	90.0	90.7	91.9	93.5	93.7
52.5°	84.1	84.5	85.6	87.0	87.5
55°	77.5	78.2	79.5	80.7	81.1
57.5°	71.6	72.0	73.1	74.5	74.6
60°	65.1	65.5	66.6	67.9	68.0
62.5°	58.9	59.2	60.2	61.4	61.7
65°	52.6	53.0	53.8	54.9	55.1
67.5°	46.1	46.3	47.1	48.2	48.2
70°	39.8	40.0	40.7	41.7	41.7
72.5°	33.4	33.6	34.3	35.2	35.4
75°	27.1	27.3	27.8	28.6	28.7
77.5°	21.4	21.2	21.7	22.4	22.5
80°	15.5	15.5	16.2	16.4	16.5
82.5°	10.3	10.3	10.6	11.0	11.0
85°	5.7	5.7	5.8	6.1	6.2
87.5°	2.4	2.3	2.4	2.5	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)