

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: P708906

Luminaire Tested: **22APR-X-X-UNV-NL940**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708906
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-NL940
Description: ArcMed Patient Recessed 2x2 Fixture NIGHT Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

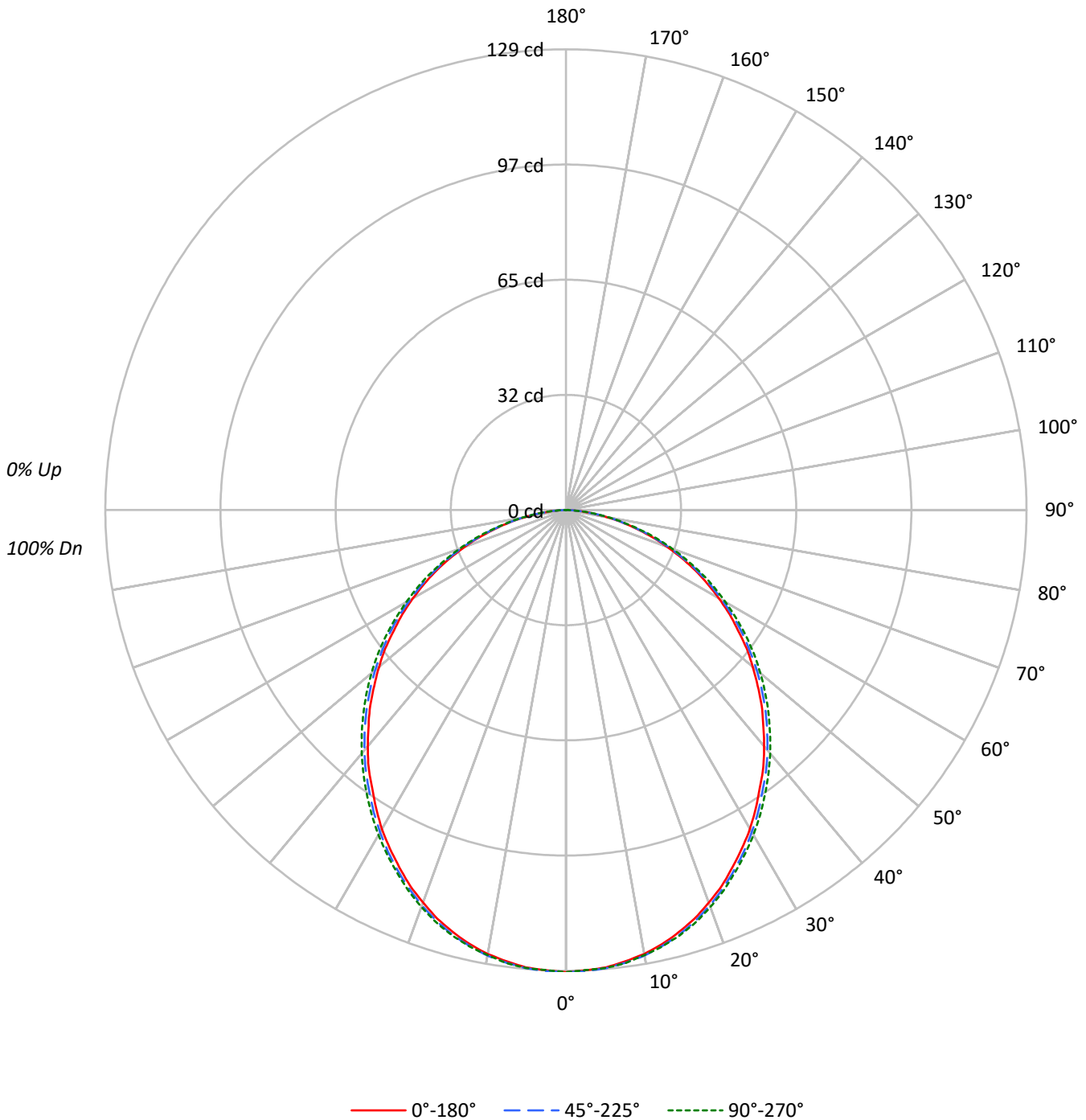
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 341.6 lumens
Efficiency: N/A
Efficacy: 56.9 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	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	53	53	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	29	29	29	28
10	54	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°	348	348	348
5°	347	348	348
10°	345	346	346
15°	341	343	343
20°	335	337	339
25°	328	331	333
30°	320	323	326
35°	311	315	319
40°	303	308	313
45°	295	300	305
50°	286	292	298
55°	276	283	289
60°	266	272	278
65°	254	260	266
70°	238	243	249
75°	214	219	227
80°	183	190	194
85°	134	136	146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	3.6
10°-20°	34.7	10.1
20°-30°	51.3	15.0
30°-40°	60.1	17.6
40°-50°	60.9	17.8
50°-60°	53.9	15.8
60°-70°	40.4	11.8
70°-80°	22.5	6.6
80°-90°	5.6	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°	98.2	28.7
0°-40°	158.3	46.3
0°-60°	273.1	80.0
0°-90°	341.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	341.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	129	129	129	129	129	
5°	129	129	129	129	129	12
15°	122	123	123	123	123	34
25°	110	111	111	112	112	51
35°	95	95	96	97	97	59
45°	78	78	79	80	80	60
55°	59	59	60	61	62	53
65°	40	40	41	42	42	39
75°	21	21	21	22	22	22
85°	4	4	4	5	5	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	129.4	129.4	129.4	129.4	129.4
2.5°	129.0	129.3	129.3	129.1	128.9
5°	128.6	128.7	128.8	128.7	128.7
7.5°	127.5	127.8	127.9	127.9	127.9
10°	126.2	126.6	126.7	126.7	126.5
12.5°	124.5	124.9	125.0	125.1	125.1
15°	122.3	122.8	123.0	123.3	123.3
17.5°	119.9	120.3	120.6	121.0	121.0
20°	117.0	117.5	117.8	118.3	118.3
22.5°	114.0	114.3	114.7	115.2	115.4
25°	110.4	110.9	111.4	111.8	112.0
27.5°	106.8	107.2	107.9	108.5	108.6
30°	103.1	103.5	104.1	104.9	105.0
32.5°	99.0	99.4	100.2	100.8	101.2
35°	94.7	95.3	96.0	97.0	97.2
37.5°	90.8	91.1	92.1	93.0	93.2
40°	86.3	86.9	87.8	88.8	89.0
42.5°	81.8	82.4	83.4	84.4	84.6
45°	77.6	78.0	79.0	80.0	80.2
47.5°	72.8	73.4	74.4	75.5	75.7
50°	68.3	68.9	69.8	71.0	71.1
52.5°	63.8	64.1	65.0	66.1	66.5
55°	58.8	59.4	60.3	61.3	61.6
57.5°	54.3	54.7	55.5	56.6	56.7
60°	49.5	49.8	50.5	51.5	51.6
62.5°	44.7	45.0	45.7	46.6	46.8
65°	39.9	40.2	40.8	41.7	41.8
67.5°	35.0	35.2	35.8	36.6	36.6
70°	30.2	30.4	30.9	31.7	31.7
72.5°	25.4	25.5	26.0	26.7	26.9
75°	20.6	20.7	21.1	21.7	21.8
77.5°	16.2	16.1	16.5	17.0	17.1
80°	11.8	11.8	12.3	12.4	12.5
82.5°	7.8	7.8	8.1	8.4	8.4
85°	4.4	4.4	4.4	4.7	4.7
87.5°	1.8	1.7	1.8	1.9	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)