

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: P708798

Luminaire Tested: **22APR-34L935-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708798
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34L935-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

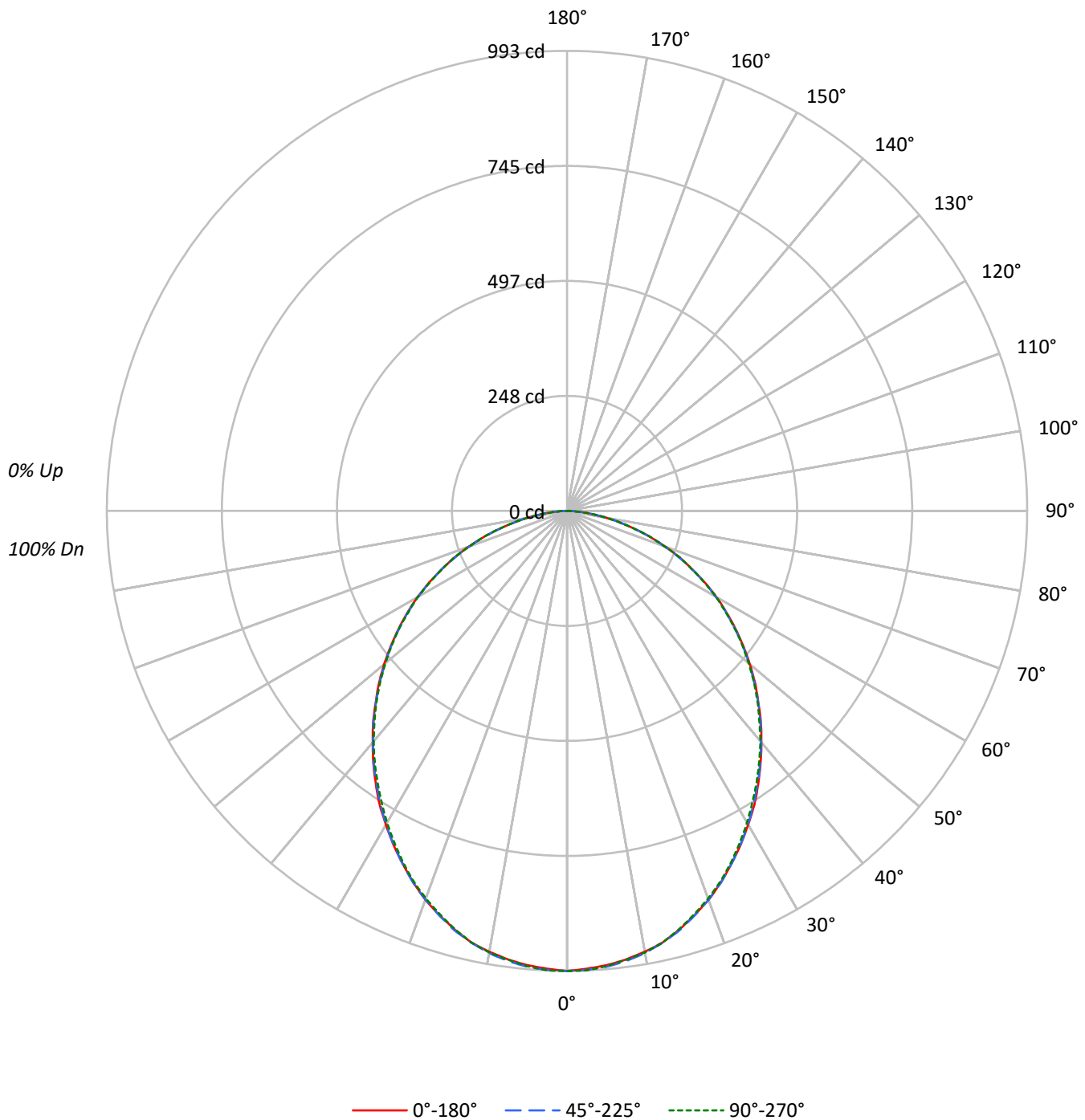
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2537.1 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.5
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

TEST NUMBER: P708798
CATALOG NUMBER: 22APR-34L935-X-UNV

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	47	42		53	47	42		52
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2672	2672	2672
5°	2659	2668	2664
10°	2640	2648	2644
15°	2606	2612	2604
20°	2559	2557	2549
25°	2494	2494	2486
30°	2429	2427	2414
35°	2363	2357	2343
40°	2291	2289	2279
45°	2221	2219	2211
50°	2156	2148	2142
55°	2082	2072	2072
60°	2004	1997	2000
65°	1899	1904	1891
70°	1775	1765	1765
75°	1583	1590	1590
80°	1339	1339	1350
85°	1016	1016	1037



TEST NUMBER: P708798
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.7
10°-20°	263.9	10.4
20°-30°	386.9	15.2
30°-40°	448.8	17.7
40°-50°	450.0	17.7
50°-60°	395.8	15.6
60°-70°	295.3	11.6
70°-80°	162.5	6.4
80°-90°	40.2	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°	744.4	29.3
0°-40°	1193.2	47.0
0°-60°	2039.0	80.4
0°-90°	2537.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	984	988	988	988	986	93
15°	936	940	938	936	935	264
25°	840	844	840	840	837	387
35°	719	720	717	715	713	450
45°	584	586	583	582	581	451
55°	444	444	442	442	442	397
65°	298	298	299	298	297	296
75°	152	153	153	152	153	162
85°	33	34	33	33	34	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.1	993.1	993.1	993.1	993.1
2.5°	989.0	992.4	991.7	993.8	992.4
5°	984.2	987.6	987.6	987.6	986.2
7.5°	976.6	980.0	980.0	980.0	977.3
10°	966.3	969.8	969.1	969.1	967.7
12.5°	954.0	956.0	954.7	954.7	954.0
15°	935.5	939.6	937.5	936.2	934.8
17.5°	914.9	919.0	915.6	914.9	912.8
20°	893.6	896.4	892.9	892.9	890.2
22.5°	867.6	870.3	868.3	866.9	865.5
25°	840.1	843.6	840.1	839.5	837.4
27.5°	812.0	814.8	811.3	808.6	807.2
30°	781.8	783.9	781.2	779.1	777.0
32.5°	752.4	752.4	749.6	747.6	744.8
35°	719.4	720.1	717.4	715.3	713.3
37.5°	686.5	687.9	685.1	683.1	681.7
40°	652.2	653.6	651.5	649.5	648.8
42.5°	619.3	619.3	617.9	615.9	614.5
45°	583.6	585.7	583.0	582.3	580.9
47.5°	550.7	550.7	548.0	546.6	546.6
50°	515.1	516.4	513.0	512.3	511.6
52.5°	479.4	478.7	478.0	477.3	476.7
55°	443.7	444.4	441.7	442.4	441.7
57.5°	408.1	407.4	406.7	406.0	405.3
60°	372.4	371.7	371.0	370.3	371.7
62.5°	335.4	336.1	334.0	336.1	333.3
65°	298.3	298.3	299.0	297.6	297.0
67.5°	262.7	262.7	261.3	261.3	264.0
70°	225.6	226.3	224.3	227.0	224.3
72.5°	189.3	190.0	189.3	188.6	190.0
75°	152.3	152.9	152.9	151.6	152.9
77.5°	118.6	119.3	118.6	118.0	118.6
80°	86.4	87.1	86.4	85.7	87.1
82.5°	57.6	58.3	57.6	57.6	58.3
85°	32.9	33.6	32.9	32.9	33.6
87.5°	13.0	13.7	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)