

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: P708799

Luminaire Tested: **22APR-30L935-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708799
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30L935-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

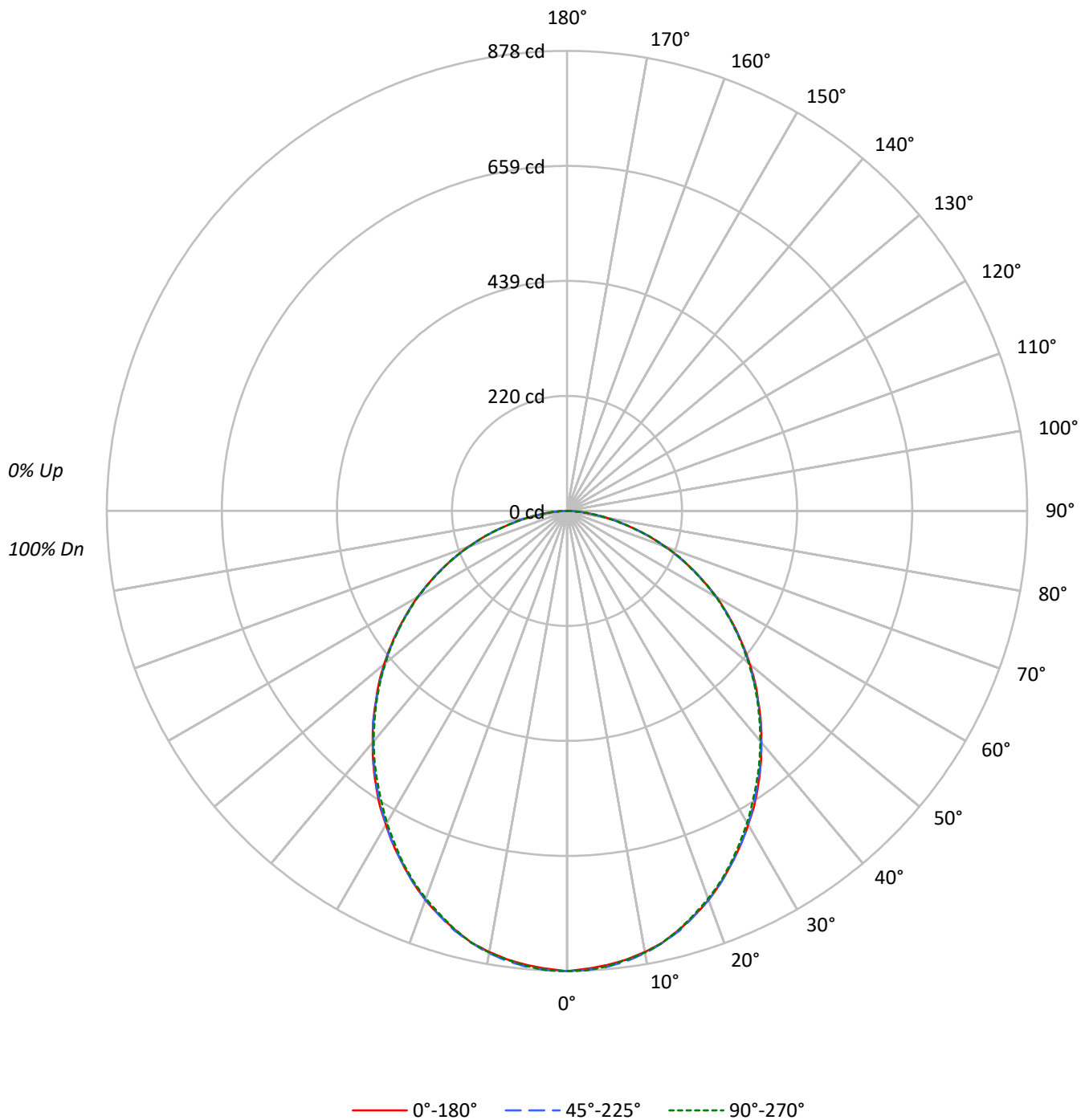
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2243.9 lumens
Efficiency: N/A
Efficacy: 74.5 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): 30.1
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
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°	2363	2363	2363
5°	2351	2360	2356
10°	2335	2342	2339
15°	2305	2310	2303
20°	2263	2262	2255
25°	2206	2206	2199
30°	2149	2147	2135
35°	2090	2084	2072
40°	2026	2024	2016
45°	1964	1962	1955
50°	1907	1899	1894
55°	1841	1833	1833
60°	1773	1766	1770
65°	1680	1684	1672
70°	1570	1560	1560
75°	1400	1407	1407
80°	1184	1184	1193
85°	898	898	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	3.7
10°-20°	233.4	10.4
20°-30°	342.2	15.2
30°-40°	397.0	17.7
40°-50°	398.0	17.7
50°-60°	350.0	15.6
60°-70°	261.2	11.6
70°-80°	143.7	6.4
80°-90°	35.6	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°	658.4	29.3
0°-40°	1055.3	47.0
0°-60°	1803.4	80.4
0°-90°	2243.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	870	874	874	874	872	83
15°	827	831	829	828	827	233
25°	743	746	743	742	741	342
35°	636	637	634	633	631	398
45°	516	518	516	515	514	399
55°	392	393	391	391	391	351
65°	264	264	264	263	263	262
75°	135	135	135	134	135	144
85°	29	30	29	29	30	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.3	878.3	878.3	878.3	878.3
2.5°	874.7	877.7	877.1	878.9	877.7
5°	870.4	873.5	873.5	873.5	872.2
7.5°	863.8	866.8	866.8	866.8	864.4
10°	854.7	857.7	857.1	857.1	855.9
12.5°	843.7	845.6	844.3	844.3	843.7
15°	827.4	831.0	829.2	828.0	826.8
17.5°	809.2	812.8	809.8	809.2	807.3
20°	790.4	792.8	789.8	789.8	787.3
22.5°	767.3	769.7	767.9	766.7	765.5
25°	743.0	746.1	743.0	742.4	740.6
27.5°	718.2	720.6	717.6	715.1	713.9
30°	691.5	693.3	690.9	689.1	687.2
32.5°	665.4	665.4	663.0	661.2	658.7
35°	636.3	636.9	634.5	632.7	630.8
37.5°	607.2	608.4	606.0	604.1	602.9
40°	576.8	578.1	576.2	574.4	573.8
42.5°	547.7	547.7	546.5	544.7	543.5
45°	516.2	518.0	515.6	515.0	513.8
47.5°	487.1	487.1	484.6	483.4	483.4
50°	455.5	456.7	453.7	453.1	452.5
52.5°	424.0	423.4	422.8	422.2	421.6
55°	392.5	393.1	390.6	391.2	390.6
57.5°	360.9	360.3	359.7	359.1	358.5
60°	329.4	328.8	328.2	327.5	328.8
62.5°	296.6	297.2	295.4	297.2	294.8
65°	263.9	263.9	264.5	263.3	262.6
67.5°	232.3	232.3	231.1	231.1	233.5
70°	199.6	200.2	198.3	200.8	198.3
72.5°	167.4	168.0	167.4	166.8	168.0
75°	134.7	135.3	135.3	134.1	135.3
77.5°	104.9	105.5	104.9	104.3	104.9
80°	76.4	77.0	76.4	75.8	77.0
82.5°	51.0	51.6	51.0	51.0	51.6
85°	29.1	29.7	29.1	29.1	29.7
87.5°	11.5	12.1	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)