

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: P708787

Luminaire Tested: **22APR-38L850-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708787
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-38L850-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

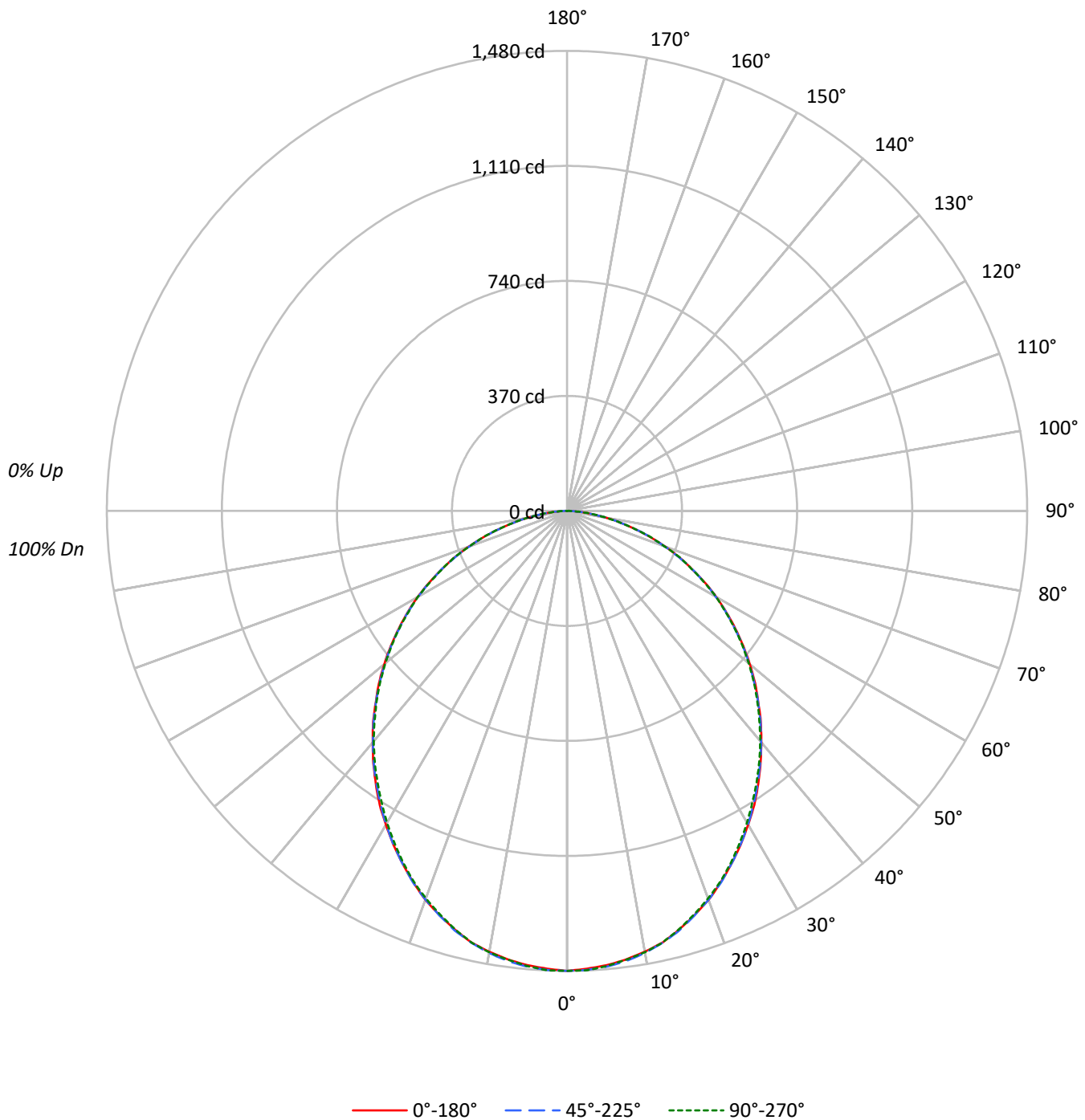
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3781.2 lumens
Efficiency: N/A
Efficacy: 97.0 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): 39
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		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86		84
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80	76	73		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71	66	62		60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53		51
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47		45
6	71	58	49	43	69	57	48	42	55	47	42		53	47	42		52	46	41		39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37		35
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43	37	33		31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30		28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3983	3983	3983
5°	3962	3976	3970
10°	3935	3947	3941
15°	3884	3892	3881
20°	3814	3811	3799
25°	3718	3718	3706
30°	3621	3617	3599
35°	3522	3512	3492
40°	3414	3411	3397
45°	3310	3306	3295
50°	3213	3201	3192
55°	3103	3088	3088
60°	2987	2976	2982
65°	2831	2837	2818
70°	2646	2629	2629
75°	2359	2370	2370
80°	1996	1996	2011
85°	1516	1516	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.7
10°-20°	393.2	10.4
20°-30°	576.6	15.2
30°-40°	668.9	17.7
40°-50°	670.7	17.7
50°-60°	589.8	15.6
60°-70°	440.2	11.6
70°-80°	242.2	6.4
80°-90°	60.0	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°	1109.4	29.3
0°-40°	1778.3	47.0
0°-60°	3038.8	80.4
0°-90°	3781.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1467	1472	1472	1472	1470	139
15°	1394	1400	1397	1395	1393	393
25°	1252	1257	1252	1251	1248	577
35°	1072	1073	1069	1066	1063	671
45°	870	873	869	868	866	672
55°	661	662	658	659	658	591
65°	445	445	446	444	443	441
75°	227	228	228	226	228	242
85°	49	50	49	49	50	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1480.0	1480.0	1480.0	1480.0	1480.0
2.5°	1473.9	1479.0	1478.0	1481.0	1479.0
5°	1466.7	1471.8	1471.8	1471.8	1469.8
7.5°	1455.5	1460.6	1460.6	1460.6	1456.5
10°	1440.2	1445.3	1444.3	1444.3	1442.2
12.5°	1421.8	1424.8	1422.8	1422.8	1421.8
15°	1394.2	1400.3	1397.2	1395.2	1393.1
17.5°	1363.5	1369.6	1364.5	1363.5	1360.4
20°	1331.8	1335.9	1330.8	1330.8	1326.7
22.5°	1293.0	1297.1	1294.0	1292.0	1289.9
25°	1252.1	1257.2	1252.1	1251.1	1248.0
27.5°	1210.2	1214.3	1209.2	1205.1	1203.0
30°	1165.2	1168.3	1164.2	1161.1	1158.1
32.5°	1121.3	1121.3	1117.2	1114.1	1110.0
35°	1072.2	1073.2	1069.1	1066.1	1063.0
37.5°	1023.1	1025.2	1021.1	1018.0	1016.0
40°	972.0	974.1	971.0	967.9	966.9
42.5°	923.0	923.0	920.9	917.9	915.8
45°	869.8	872.9	868.8	867.8	865.7
47.5°	820.8	820.8	816.7	814.6	814.6
50°	767.6	769.7	764.5	763.5	762.5
52.5°	714.5	713.4	712.4	711.4	710.4
55°	661.3	662.3	658.2	659.3	658.2
57.5°	608.2	607.1	606.1	605.1	604.1
60°	555.0	554.0	553.0	551.9	554.0
62.5°	499.8	500.8	497.8	500.8	496.7
65°	444.6	444.6	445.6	443.6	442.6
67.5°	391.5	391.5	389.4	389.4	393.5
70°	336.3	337.3	334.2	338.3	334.2
72.5°	282.1	283.1	282.1	281.1	283.1
75°	226.9	227.9	227.9	225.9	227.9
77.5°	176.8	177.8	176.8	175.8	176.8
80°	128.8	129.8	128.8	127.8	129.8
82.5°	85.9	86.9	85.9	85.9	86.9
85°	49.1	50.1	49.1	49.1	50.1
87.5°	19.4	20.4	20.4	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)