

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: P708782

Luminaire Tested: **22APR-38L840-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708782
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-38L840-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

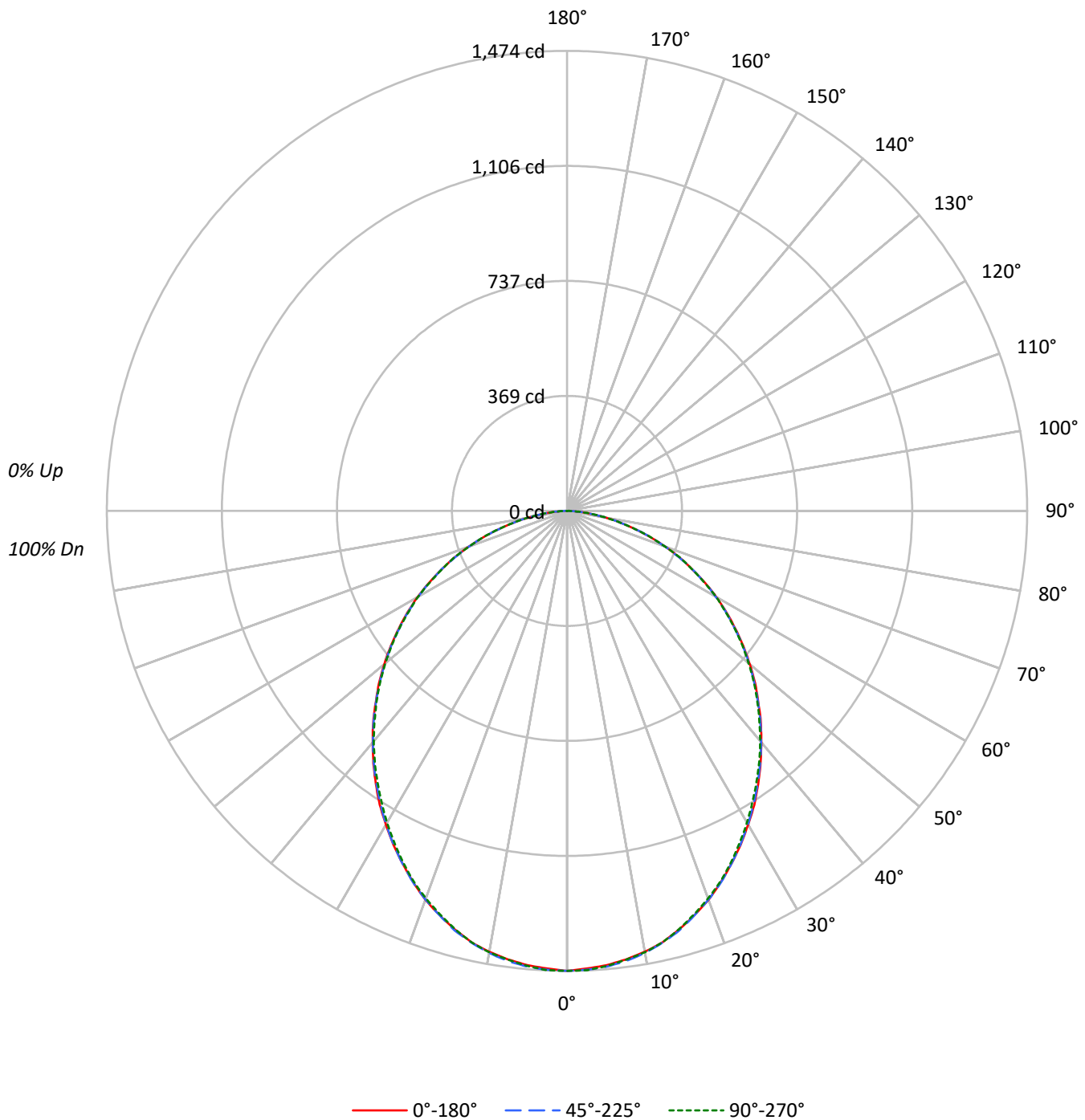
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3765.4 lumens
Efficiency: N/A
Efficacy: 96.5 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): 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

TEST NUMBER: P708782
CATALOG NUMBER: 22APR-38L840-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°	3966	3966	3966
5°	3945	3959	3954
10°	3919	3930	3924
15°	3868	3876	3865
20°	3798	3795	3783
25°	3702	3702	3690
30°	3605	3602	3583
35°	3507	3498	3478
40°	3400	3397	3382
45°	3296	3293	3281
50°	3200	3187	3179
55°	3089	3075	3075
60°	2975	2964	2969
65°	2819	2826	2806
70°	2635	2618	2618
75°	2350	2360	2360
80°	1987	1987	2004
85°	1510	1510	1541



TEST NUMBER: P708782
 CATALOG NUMBER: 22APR-38L840-X-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	3.7
10°-20°	391.6	10.4
20°-30°	574.2	15.2
30°-40°	666.1	17.7
40°-50°	667.9	17.7
50°-60°	587.4	15.6
60°-70°	438.3	11.6
70°-80°	241.2	6.4
80°-90°	59.7	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°	1104.8	29.3
0°-40°	1770.9	47.0
0°-60°	3026.1	80.4
0°-90°	3765.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3765.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1461	1466	1466	1466	1464	139
15°	1388	1394	1391	1389	1387	391
25°	1247	1252	1247	1246	1243	574
35°	1068	1069	1065	1062	1059	668
45°	866	869	865	864	862	669
55°	658	660	656	656	656	589
65°	443	443	444	442	441	439
75°	226	227	227	225	227	241
85°	49	50	49	49	50	59
90°	0	0	0	0	0	

TEST NUMBER: P708782

CATALOG NUMBER: 22APR-38L840-X-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.8	1473.8	1473.8	1473.8	1473.8
2.5°	1467.7	1472.8	1471.8	1474.9	1472.8
5°	1460.6	1465.7	1465.7	1465.7	1463.7
7.5°	1449.4	1454.5	1454.5	1454.5	1450.4
10°	1434.1	1439.2	1438.2	1438.2	1436.2
12.5°	1415.8	1418.9	1416.8	1416.8	1415.8
15°	1388.3	1394.4	1391.4	1389.4	1387.3
17.5°	1357.8	1363.9	1358.8	1357.8	1354.7
20°	1326.2	1330.3	1325.2	1325.2	1321.2
22.5°	1287.6	1291.6	1288.6	1286.6	1284.5
25°	1246.9	1251.9	1246.9	1245.8	1242.8
27.5°	1205.1	1209.2	1204.1	1200.0	1198.0
30°	1160.3	1163.4	1159.3	1156.3	1153.2
32.5°	1116.6	1116.6	1112.5	1109.4	1105.4
35°	1067.7	1068.7	1064.7	1061.6	1058.6
37.5°	1018.9	1020.9	1016.8	1013.8	1011.7
40°	968.0	970.0	967.0	963.9	962.9
42.5°	919.1	919.1	917.1	914.0	912.0
45°	866.2	869.2	865.2	864.1	862.1
47.5°	817.3	817.3	813.3	811.2	811.2
50°	764.4	766.4	761.3	760.3	759.3
52.5°	711.5	710.5	709.4	708.4	707.4
55°	658.5	659.6	655.5	656.5	655.5
57.5°	605.6	604.6	603.6	602.6	601.5
60°	552.7	551.7	550.7	549.6	551.7
62.5°	497.7	498.7	495.7	498.7	494.7
65°	442.8	442.8	443.8	441.7	440.7
67.5°	389.8	389.8	387.8	387.8	391.9
70°	334.9	335.9	332.8	336.9	332.8
72.5°	280.9	281.9	280.9	279.9	281.9
75°	226.0	227.0	227.0	224.9	227.0
77.5°	176.1	177.1	176.1	175.1	176.1
80°	128.2	129.3	128.2	127.2	129.3
82.5°	85.5	86.5	85.5	85.5	86.5
85°	48.9	49.9	48.9	48.9	49.9
87.5°	19.3	20.4	20.4	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)