

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: P708783

Luminaire Tested: **22APR-34L840-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708783
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34L840-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

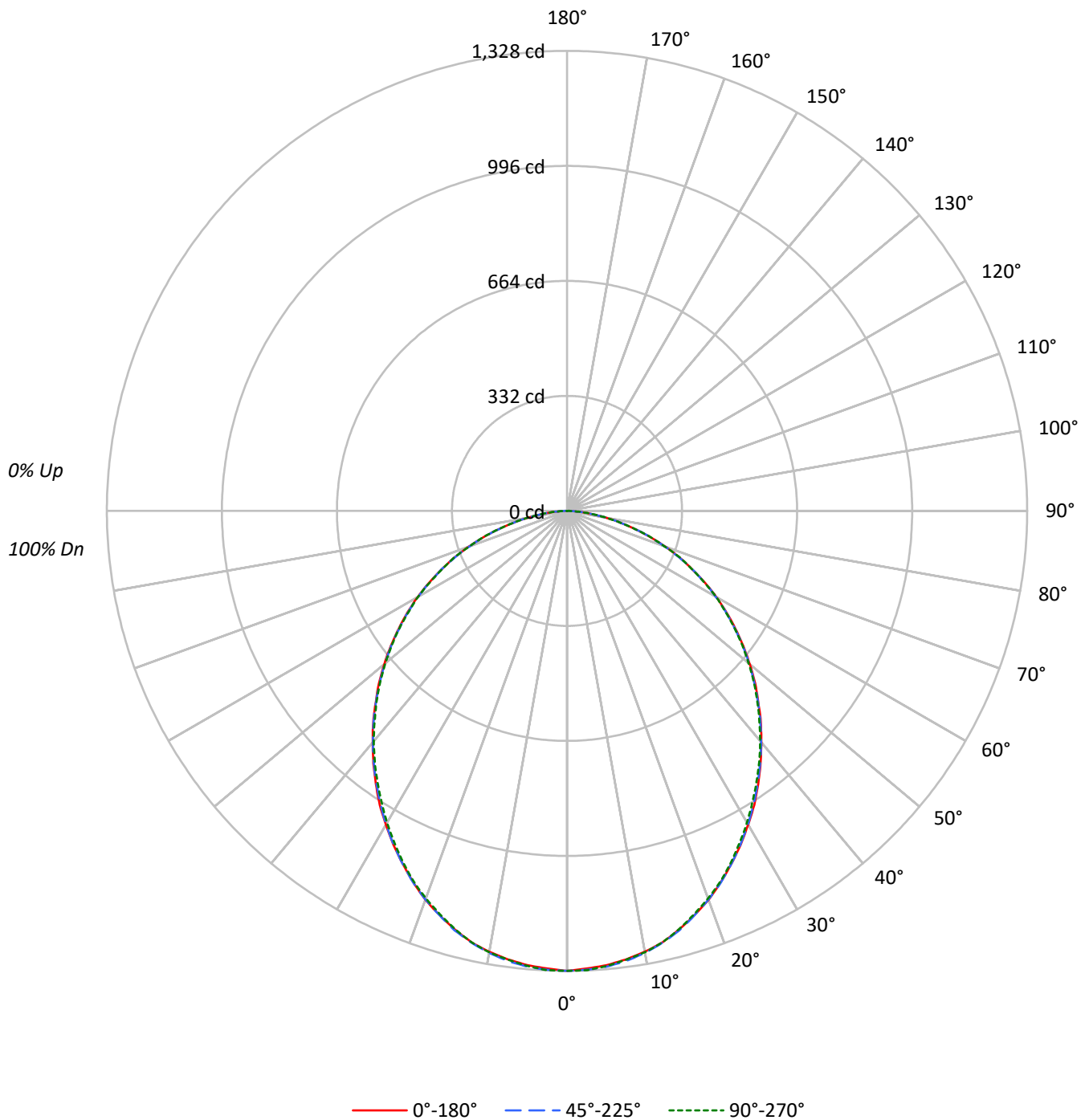
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3392.3 lumens
Efficiency: N/A
Efficacy: 98.3 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

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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°	3573	3573	3573
5°	3555	3567	3562
10°	3531	3540	3536
15°	3485	3492	3482
20°	3422	3419	3409
25°	3335	3335	3325
30°	3248	3246	3228
35°	3160	3151	3133
40°	3064	3060	3047
45°	2970	2966	2956
50°	2883	2871	2864
55°	2784	2771	2771
60°	2680	2670	2675
65°	2540	2546	2528
70°	2374	2360	2360
75°	2117	2126	2126
80°	1790	1790	1805
85°	1359	1359	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.7
10°-20°	352.8	10.4
20°-30°	517.3	15.2
30°-40°	600.1	17.7
40°-50°	601.7	17.7
50°-60°	529.2	15.6
60°-70°	394.9	11.6
70°-80°	217.3	6.4
80°-90°	53.8	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°	995.3	29.3
0°-40°	1595.4	47.0
0°-60°	2726.3	80.4
0°-90°	3392.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3392.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1316	1320	1320	1320	1319	125
15°	1251	1256	1254	1252	1250	352
25°	1123	1128	1123	1122	1120	517
35°	962	963	959	956	954	602
45°	780	783	780	778	777	603
55°	593	594	591	592	591	531
65°	399	399	400	398	397	395
75°	204	204	204	203	204	217
85°	44	45	44	44	45	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.8	1327.8	1327.8	1327.8	1327.8
2.5°	1322.3	1326.9	1326.0	1328.7	1326.9
5°	1315.9	1320.5	1320.5	1320.5	1318.7
7.5°	1305.8	1310.4	1310.4	1310.4	1306.7
10°	1292.1	1296.6	1295.7	1295.7	1293.9
12.5°	1275.6	1278.3	1276.5	1276.5	1275.6
15°	1250.8	1256.3	1253.5	1251.7	1249.9
17.5°	1223.3	1228.8	1224.2	1223.3	1220.5
20°	1194.9	1198.5	1193.9	1193.9	1190.3
22.5°	1160.0	1163.7	1160.9	1159.1	1157.3
25°	1123.3	1127.9	1123.3	1122.4	1119.7
27.5°	1085.7	1089.4	1084.8	1081.1	1079.3
30°	1045.4	1048.1	1044.5	1041.7	1039.0
32.5°	1006.0	1006.0	1002.3	999.5	995.9
35°	961.9	962.9	959.2	956.4	953.7
37.5°	917.9	919.8	916.1	913.3	911.5
40°	872.1	873.9	871.2	868.4	867.5
42.5°	828.1	828.1	826.2	823.5	821.6
45°	780.4	783.1	779.5	778.5	776.7
47.5°	736.4	736.4	732.7	730.9	730.9
50°	688.7	690.5	685.9	685.0	684.1
52.5°	641.0	640.1	639.2	638.2	637.3
55°	593.3	594.2	590.6	591.5	590.6
57.5°	545.6	544.7	543.8	542.9	541.9
60°	497.9	497.0	496.1	495.2	497.0
62.5°	448.4	449.3	446.6	449.3	445.7
65°	398.9	398.9	399.8	398.0	397.1
67.5°	351.2	351.2	349.4	349.4	353.0
70°	301.7	302.6	299.9	303.5	299.9
72.5°	253.1	254.0	253.1	252.2	254.0
75°	203.6	204.5	204.5	202.7	204.5
77.5°	158.6	159.6	158.6	157.7	158.6
80°	115.5	116.5	115.5	114.6	116.5
82.5°	77.0	77.9	77.0	77.0	77.9
85°	44.0	44.9	44.0	44.0	44.9
87.5°	17.4	18.3	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)