

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: P708788

Luminaire Tested: **22APR-34L850-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708788
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34L850-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

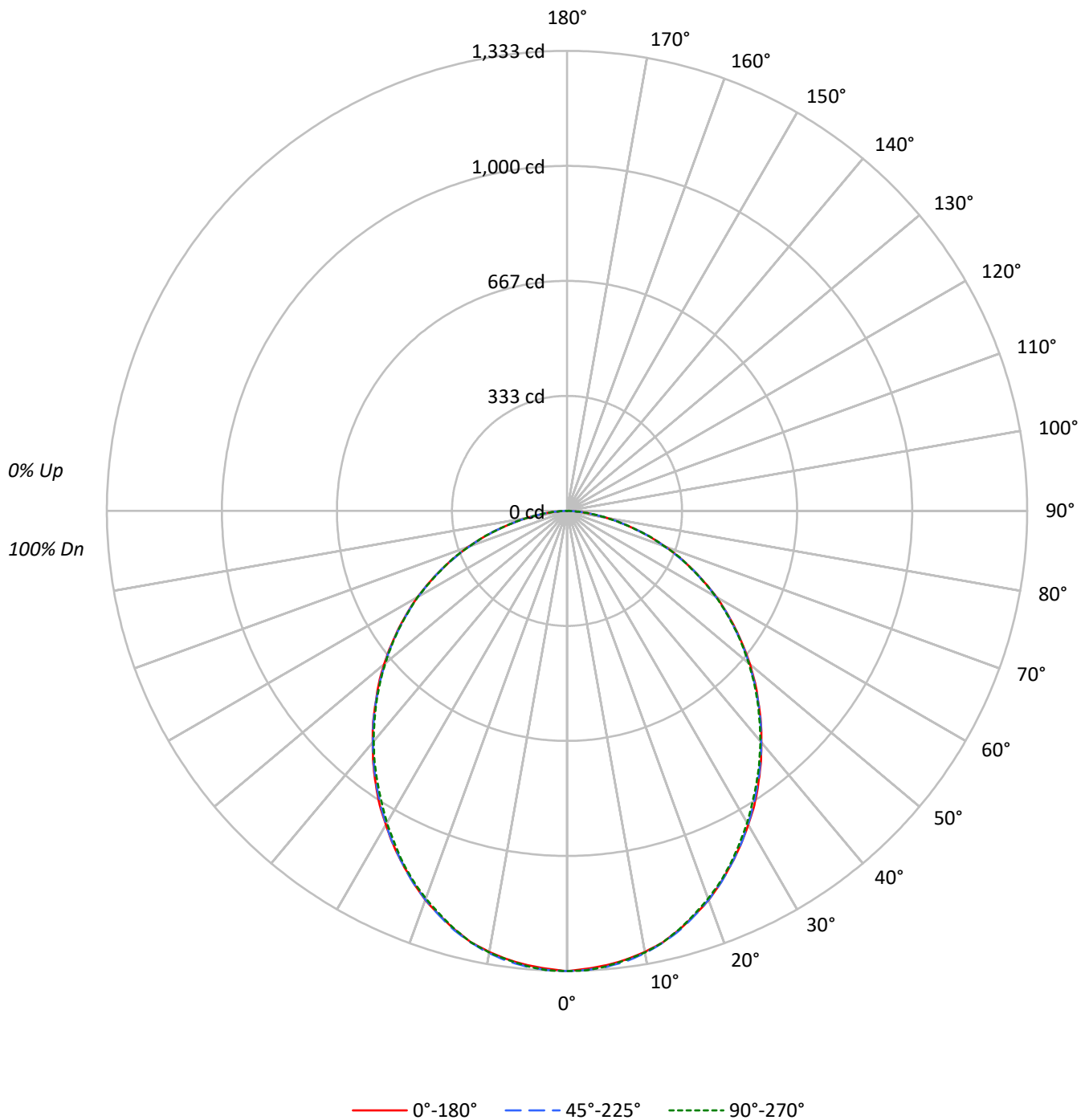
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3406.6 lumens
Efficiency: N/A
Efficacy: 98.7 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: P708788
CATALOG NUMBER: 22APR-34L850-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°	3588	3588	3588
5°	3569	3582	3577
10°	3545	3556	3550
15°	3499	3507	3497
20°	3436	3434	3423
25°	3349	3349	3339
30°	3262	3259	3242
35°	3173	3164	3146
40°	3076	3073	3060
45°	2982	2979	2968
50°	2895	2884	2876
55°	2795	2782	2782
60°	2691	2681	2686
65°	2551	2557	2539
70°	2384	2369	2369
75°	2125	2136	2136
80°	1798	1798	1812
85°	1365	1365	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.7
10°-20°	354.3	10.4
20°-30°	519.5	15.2
30°-40°	602.6	17.7
40°-50°	604.2	17.7
50°-60°	531.4	15.6
60°-70°	396.6	11.6
70°-80°	218.2	6.4
80°-90°	54.0	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°	999.5	29.3
0°-40°	1602.1	47.0
0°-60°	2737.8	80.4
0°-90°	3406.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1321	1326	1326	1326	1324	125
15°	1256	1262	1259	1257	1255	354
25°	1128	1133	1128	1127	1124	520
35°	966	967	963	960	958	604
45°	784	786	783	782	780	606
55°	596	597	593	594	593	533
65°	401	401	402	400	399	397
75°	204	205	205	204	205	218
85°	44	45	44	44	45	54
90°	0	0	0	0	0	

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CATALOG NUMBER: 22APR-34L850-X-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.4	1333.4	1333.4	1333.4	1333.4
2.5°	1327.9	1332.5	1331.6	1334.3	1332.5
5°	1321.4	1326.0	1326.0	1326.0	1324.2
7.5°	1311.3	1315.9	1315.9	1315.9	1312.2
10°	1297.5	1302.1	1301.2	1301.2	1299.3
12.5°	1280.9	1283.7	1281.8	1281.8	1280.9
15°	1256.0	1261.6	1258.8	1257.0	1255.1
17.5°	1228.4	1233.9	1229.3	1228.4	1225.7
20°	1199.9	1203.6	1199.0	1199.0	1195.3
22.5°	1164.9	1168.6	1165.8	1164.0	1162.1
25°	1128.0	1132.7	1128.0	1127.1	1124.4
27.5°	1090.3	1094.0	1089.4	1085.7	1083.8
30°	1049.8	1052.5	1048.9	1046.1	1043.3
32.5°	1010.2	1010.2	1006.5	1003.7	1000.0
35°	966.0	966.9	963.2	960.5	957.7
37.5°	921.8	923.6	919.9	917.2	915.3
40°	875.7	877.6	874.8	872.1	871.1
42.5°	831.5	831.5	829.7	826.9	825.1
45°	783.6	786.4	782.7	781.8	780.0
47.5°	739.4	739.4	735.8	733.9	733.9
50°	691.6	693.4	688.8	687.9	687.0
52.5°	643.7	642.8	641.8	640.9	640.0
55°	595.8	596.7	593.0	594.0	593.0
57.5°	547.9	547.0	546.1	545.1	544.2
60°	500.0	499.1	498.2	497.3	499.1
62.5°	450.3	451.2	448.5	451.2	447.5
65°	400.6	400.6	401.5	399.7	398.7
67.5°	352.7	352.7	350.8	350.8	354.5
70°	303.0	303.9	301.1	304.8	301.1
72.5°	254.2	255.1	254.2	253.2	255.1
75°	204.4	205.4	205.4	203.5	205.4
77.5°	159.3	160.2	159.3	158.4	159.3
80°	116.0	116.9	116.0	115.1	116.9
82.5°	77.4	78.3	77.4	77.4	78.3
85°	44.2	45.1	44.2	44.2	45.1
87.5°	17.5	18.4	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)