

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: P708797

Luminaire Tested: **22APR-38L935-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708797
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-38L935-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

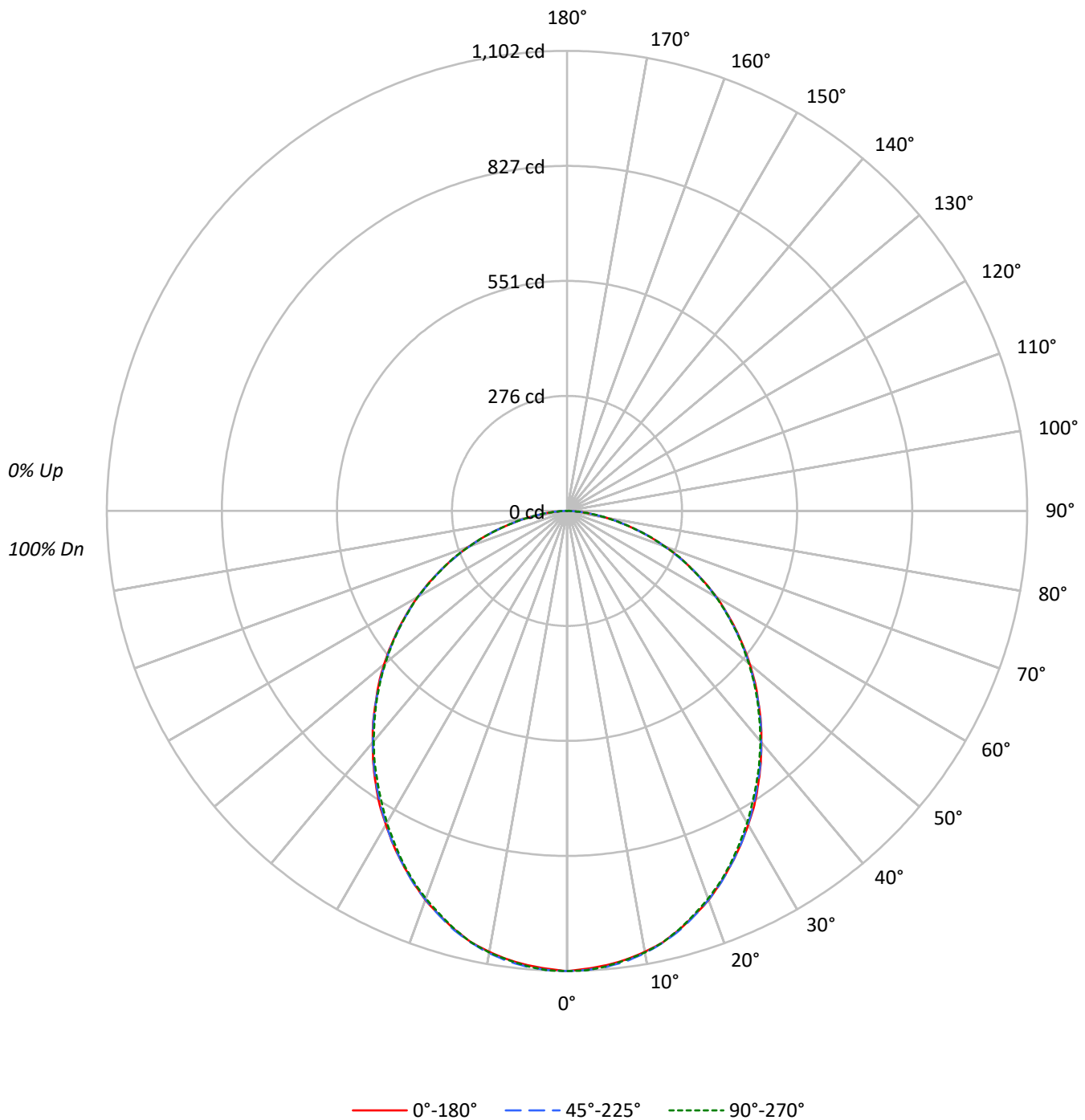
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2816.1 lumens
Efficiency: N/A
Efficacy: 72.2 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 (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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	62	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	53	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	47	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	41	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	37	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2966	2966	2966
5°	2951	2961	2957
10°	2931	2939	2935
15°	2893	2899	2891
20°	2840	2838	2830
25°	2769	2769	2760
30°	2696	2694	2680
35°	2623	2616	2601
40°	2543	2540	2530
45°	2465	2463	2454
50°	2393	2384	2377
55°	2311	2300	2300
60°	2225	2216	2221
65°	2108	2113	2099
70°	1970	1958	1958
75°	1757	1765	1765
80°	1486	1486	1499
85°	1127	1127	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	3.7
10°-20°	292.9	10.4
20°-30°	429.4	15.2
30°-40°	498.2	17.7
40°-50°	499.5	17.7
50°-60°	439.3	15.6
60°-70°	327.8	11.6
70°-80°	180.4	6.4
80°-90°	44.6	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°	826.3	29.3
0°-40°	1324.4	47.0
0°-60°	2263.2	80.4
0°-90°	2816.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2816.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1092	1096	1096	1096	1095	104
15°	1038	1043	1041	1039	1038	293
25°	932	936	932	932	930	430
35°	798	799	796	794	792	499
45°	648	650	647	646	645	501
55°	492	493	490	491	490	441
65°	331	331	332	330	330	328
75°	169	170	170	168	170	180
85°	36	37	36	36	37	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.3	1102.3	1102.3	1102.3	1102.3
2.5°	1097.7	1101.5	1100.8	1103.0	1101.5
5°	1092.4	1096.2	1096.2	1096.2	1094.7
7.5°	1084.0	1087.8	1087.8	1087.8	1084.8
10°	1072.6	1076.4	1075.6	1075.6	1074.1
12.5°	1058.9	1061.2	1059.7	1059.7	1058.9
15°	1038.3	1042.9	1040.6	1039.1	1037.6
17.5°	1015.5	1020.1	1016.3	1015.5	1013.2
20°	991.9	994.9	991.1	991.1	988.1
22.5°	963.0	966.0	963.7	962.2	960.7
25°	932.5	936.3	932.5	931.8	929.5
27.5°	901.3	904.4	900.6	897.5	896.0
30°	867.8	870.1	867.1	864.8	862.5
32.5°	835.1	835.1	832.0	829.8	826.7
35°	798.5	799.3	796.3	794.0	791.7
37.5°	762.0	763.5	760.5	758.2	756.7
40°	723.9	725.5	723.2	720.9	720.1
42.5°	687.4	687.4	685.9	683.6	682.1
45°	647.8	650.1	647.1	646.3	644.8
47.5°	611.3	611.3	608.2	606.7	606.7
50°	571.7	573.2	569.4	568.6	567.9
52.5°	532.1	531.3	530.6	529.8	529.1
55°	492.5	493.3	490.2	491.0	490.2
57.5°	452.9	452.2	451.4	450.7	449.9
60°	413.4	412.6	411.8	411.1	412.6
62.5°	372.2	373.0	370.7	373.0	370.0
65°	331.1	331.1	331.9	330.4	329.6
67.5°	291.6	291.6	290.0	290.0	293.1
70°	250.4	251.2	248.9	252.0	248.9
72.5°	210.1	210.9	210.1	209.3	210.9
75°	169.0	169.8	169.8	168.2	169.8
77.5°	131.7	132.5	131.7	130.9	131.7
80°	95.9	96.7	95.9	95.2	96.7
82.5°	63.9	64.7	63.9	63.9	64.7
85°	36.5	37.3	36.5	36.5	37.3
87.5°	14.5	15.2	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)