

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: P708784

Luminaire Tested: **22APR-30L840-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708784
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30L840-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

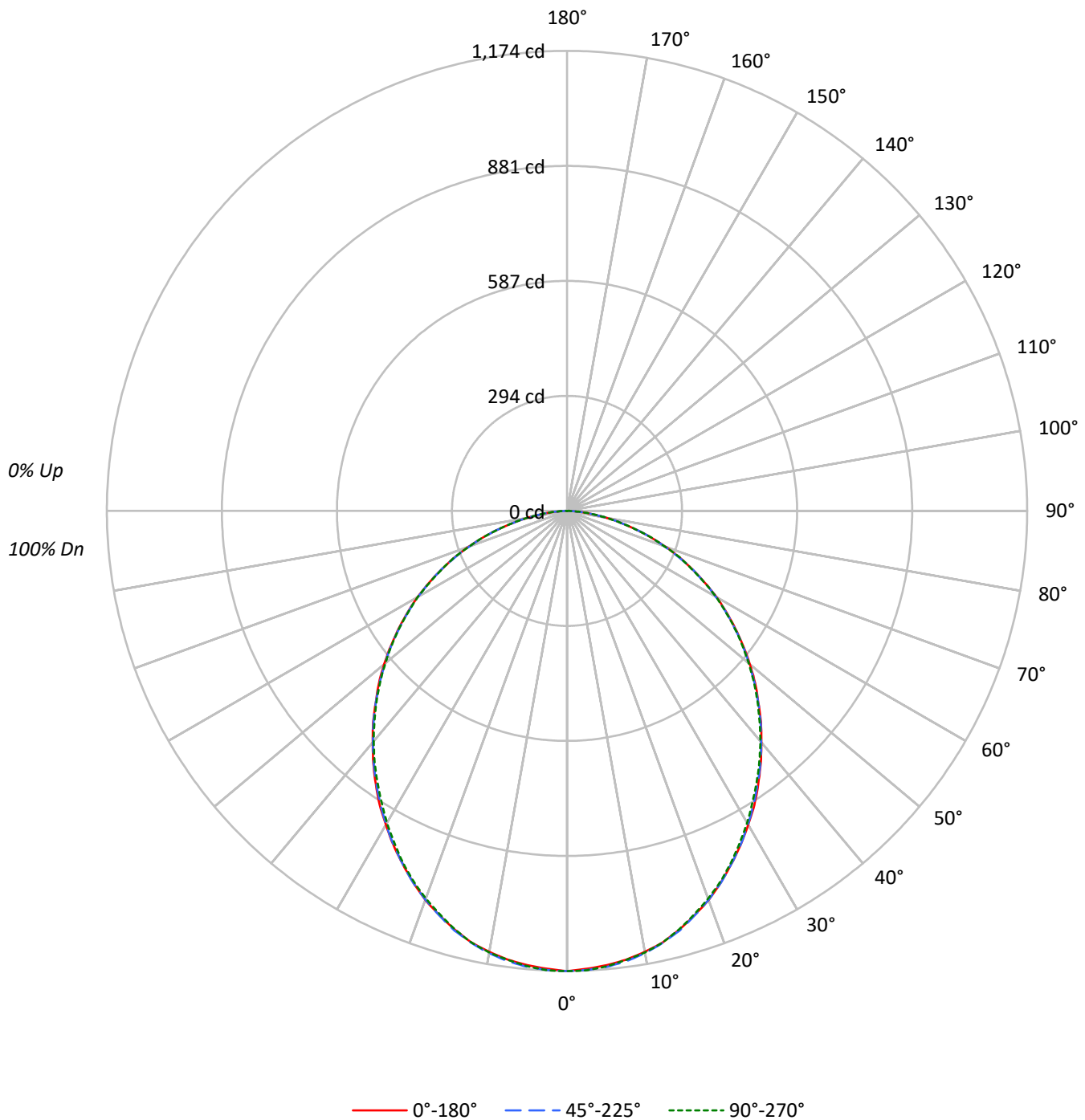
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.3 lumens
Efficiency: N/A
Efficacy: 99.7 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): 30.1
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°	3160	3160	3160
5°	3144	3155	3150
10°	3122	3131	3127
15°	3082	3089	3080
20°	3026	3024	3015
25°	2950	2950	2940
30°	2873	2871	2855
35°	2795	2787	2771
40°	2709	2707	2695
45°	2627	2624	2614
50°	2550	2540	2533
55°	2462	2450	2450
60°	2370	2362	2366
65°	2246	2252	2236
70°	2099	2087	2087
75°	1871	1881	1881
80°	1584	1584	1596
85°	1201	1201	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.7
10°-20°	312.0	10.4
20°-30°	457.5	15.2
30°-40°	530.8	17.7
40°-50°	532.2	17.7
50°-60°	468.0	15.6
60°-70°	349.3	11.6
70°-80°	192.2	6.4
80°-90°	47.6	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°	880.3	29.3
0°-40°	1411.1	47.0
0°-60°	2411.3	80.4
0°-90°	3000.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1164	1168	1168	1168	1166	110
15°	1106	1111	1109	1107	1105	312
25°	994	998	994	993	990	458
35°	851	852	848	846	844	532
45°	690	693	689	689	687	533
55°	525	526	522	523	522	469
65°	353	353	354	352	351	350
75°	180	181	181	179	181	192
85°	39	40	39	39	40	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1169.5	1173.6	1172.7	1175.2	1173.6
5°	1163.8	1167.9	1167.9	1167.9	1166.3
7.5°	1154.9	1159.0	1159.0	1159.0	1155.7
10°	1142.7	1146.8	1146.0	1146.0	1144.4
12.5°	1128.1	1130.6	1129.0	1129.0	1128.1
15°	1106.2	1111.1	1108.7	1107.1	1105.4
17.5°	1081.9	1086.8	1082.7	1081.9	1079.5
20°	1056.8	1060.0	1056.0	1056.0	1052.7
22.5°	1026.0	1029.2	1026.8	1025.1	1023.5
25°	993.5	997.6	993.5	992.7	990.3
27.5°	960.3	963.5	959.4	956.2	954.6
30°	924.6	927.0	923.8	921.3	918.9
32.5°	889.7	889.7	886.5	884.0	880.8
35°	850.8	851.6	848.3	845.9	843.5
37.5°	811.8	813.5	810.2	807.8	806.2
40°	771.3	772.9	770.5	768.0	767.2
42.5°	732.4	732.4	730.7	728.3	726.7
45°	690.2	692.6	689.4	688.6	686.9
47.5°	651.3	651.3	648.0	646.4	646.4
50°	609.1	610.7	606.7	605.8	605.0
52.5°	566.9	566.1	565.3	564.5	563.7
55°	524.7	525.5	522.3	523.1	522.3
57.5°	482.6	481.8	480.9	480.1	479.3
60°	440.4	439.6	438.8	438.0	439.6
62.5°	396.6	397.4	395.0	397.4	394.2
65°	352.8	352.8	353.6	352.0	351.2
67.5°	310.6	310.6	309.0	309.0	312.2
70°	266.8	267.6	265.2	268.5	265.2
72.5°	223.8	224.7	223.8	223.0	224.7
75°	180.0	180.9	180.9	179.2	180.9
77.5°	140.3	141.1	140.3	139.5	140.3
80°	102.2	103.0	102.2	101.4	103.0
82.5°	68.1	68.9	68.1	68.1	68.9
85°	38.9	39.7	38.9	38.9	39.7
87.5°	15.4	16.2	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)