

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: P708976

Luminaire Tested: **24APR-67L840-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708976
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67L840-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

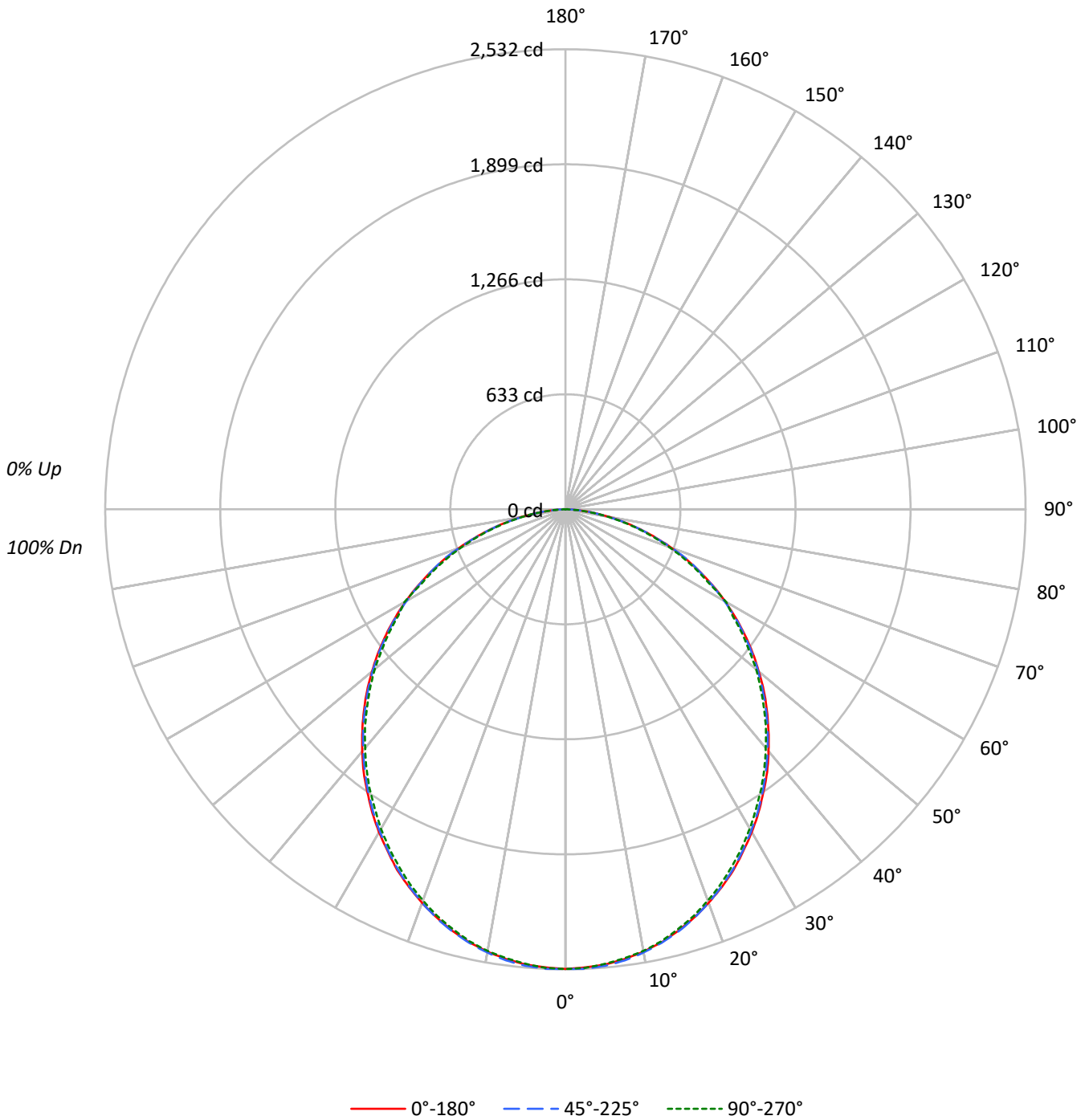
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6738.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	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	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	61	61	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3404	3404	3404
5°	3396	3406	3392
10°	3377	3385	3373
15°	3345	3351	3333
20°	3301	3300	3281
25°	3251	3244	3219
30°	3187	3176	3152
35°	3120	3110	3085
40°	3054	3039	3012
45°	2984	2969	2938
50°	2907	2896	2867
55°	2828	2813	2777
60°	2733	2716	2753
65°	2608	2601	2552
70°	2448	2451	2384
75°	2222	2205	2155
80°	1910	1884	1835
85°	1459	1447	1335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	3.5
10°-20°	676.9	10.0
20°-30°	1004.7	14.9
30°-40°	1182.7	17.6
40°-50°	1201.9	17.8
50°-60°	1068.4	15.9
60°-70°	805.9	12.0
70°-80°	447.7	6.6
80°-90°	111.3	1.7
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°	1920.6	28.5
0°-40°	3103.3	46.1
0°-60°	5373.7	79.7
0°-90°	6738.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6738.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2530	2530	2530	2530	2530	
5°	2515	2519	2522	2518	2511	239
15°	2402	2404	2406	2400	2393	677
25°	2190	2188	2185	2175	2168	1008
35°	1900	1900	1893	1882	1878	1189
45°	1568	1568	1560	1547	1544	1210
55°	1206	1197	1199	1186	1184	1077
65°	819	814	817	806	802	811
75°	427	422	424	421	414	453
85°	94	92	94	90	86	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2530.0	2530.0	2530.0	2530.0	2530.0
2.5°	2523.5	2528.3	2531.6	2527.5	2526.7
5°	2514.6	2518.6	2521.9	2517.8	2511.4
7.5°	2496.8	2501.7	2504.1	2500.1	2491.2
10°	2471.8	2476.6	2477.4	2473.4	2468.5
12.5°	2441.1	2444.3	2444.3	2441.1	2435.4
15°	2401.5	2403.9	2405.5	2399.9	2392.6
17.5°	2356.2	2360.3	2358.7	2349.8	2346.5
20°	2305.3	2308.6	2304.5	2298.9	2291.6
22.5°	2249.6	2250.4	2247.1	2240.7	2233.4
25°	2189.8	2188.2	2184.9	2175.2	2168.0
27.5°	2120.3	2123.5	2115.4	2106.5	2101.7
30°	2051.6	2052.4	2044.3	2033.0	2029.0
32.5°	1978.1	1976.5	1970.8	1958.7	1952.2
35°	1899.7	1900.5	1893.2	1881.9	1877.9
37.5°	1823.7	1818.9	1813.2	1800.3	1797.9
40°	1738.9	1738.1	1730.0	1718.7	1714.6
42.5°	1654.0	1653.2	1646.8	1635.5	1632.2
45°	1568.4	1568.4	1560.3	1547.4	1544.2
47.5°	1481.1	1477.9	1472.2	1460.9	1456.9
50°	1389.0	1386.6	1383.4	1370.4	1369.6
52.5°	1298.5	1296.9	1291.2	1279.9	1273.5
55°	1205.6	1196.7	1199.1	1186.2	1183.8
57.5°	1110.2	1101.3	1106.2	1094.9	1090.0
60°	1015.7	1006.8	1009.2	1002.0	1023.0
62.5°	918.7	913.1	913.1	930.0	899.3
65°	819.3	814.5	816.9	806.4	801.6
67.5°	721.6	714.3	729.7	710.3	702.2
70°	622.2	617.3	623.0	611.7	606.0
72.5°	523.6	519.6	517.9	513.9	509.1
75°	427.4	421.8	424.2	421.0	414.5
77.5°	333.7	332.1	331.3	327.3	322.4
80°	246.5	244.8	243.2	240.0	236.8
82.5°	164.8	163.2	162.4	160.8	160.0
85°	94.5	92.1	93.7	89.7	86.5
87.5°	35.6	34.7	36.4	33.1	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)