

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: P708971

Luminaire Tested: **24APR-67L835-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708971
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67L835-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

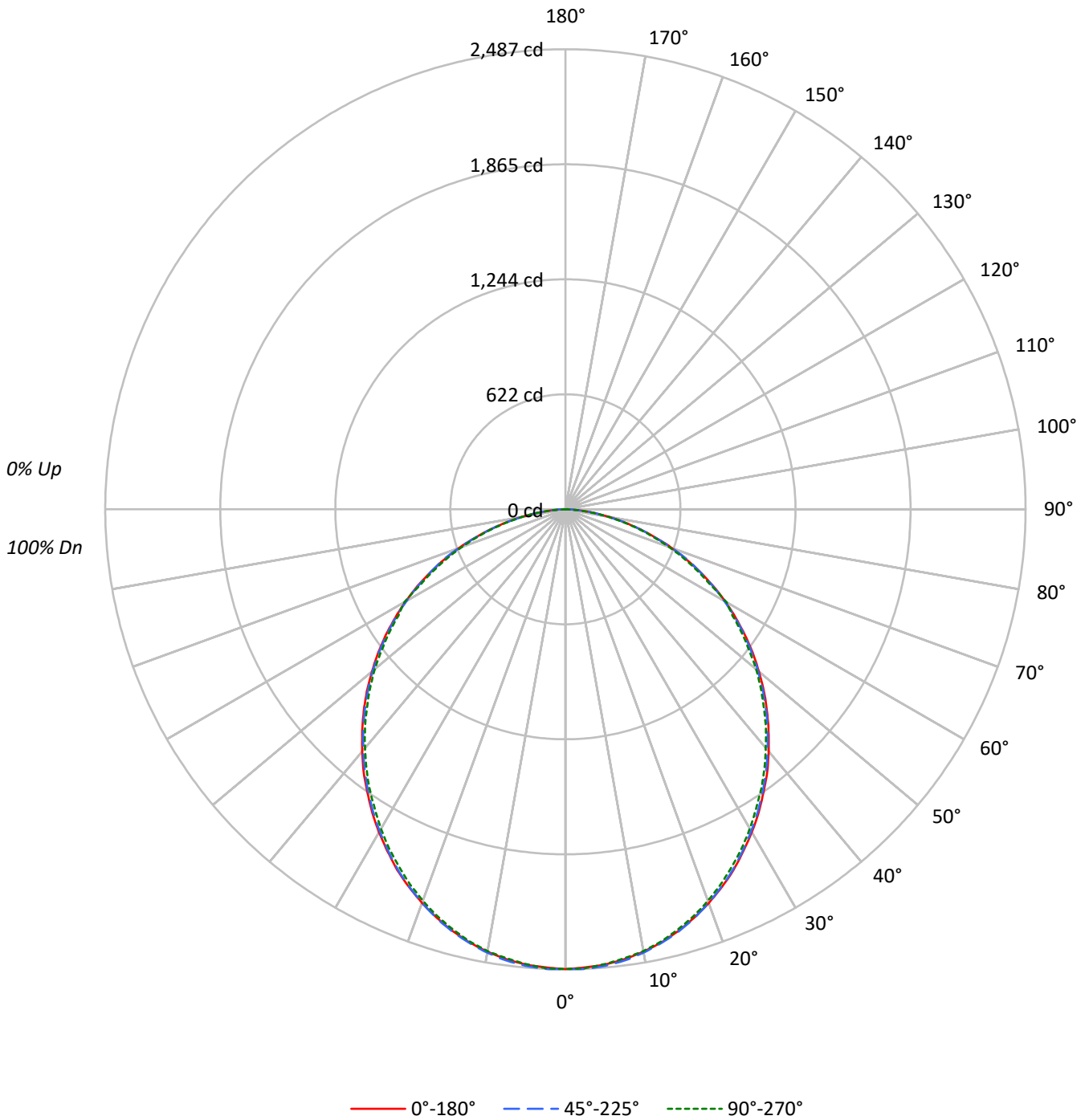
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6620.6 lumens
Efficiency: N/A
Efficacy: 109.8 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				
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°	3344	3344	3344
5°	3337	3346	3333
10°	3318	3326	3314
15°	3287	3292	3274
20°	3243	3242	3224
25°	3194	3187	3162
30°	3132	3120	3097
35°	3066	3055	3030
40°	3001	2985	2959
45°	2932	2917	2887
50°	2857	2845	2817
55°	2779	2764	2728
60°	2685	2668	2705
65°	2563	2555	2507
70°	2405	2408	2342
75°	2183	2167	2117
80°	1876	1852	1802
85°	1434	1422	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	3.5
10°-20°	665.1	10.0
20°-30°	987.2	14.9
30°-40°	1162.0	17.6
40°-50°	1180.9	17.8
50°-60°	1049.7	15.9
60°-70°	791.8	12.0
70°-80°	439.8	6.6
80°-90°	109.4	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°	1887.0	28.5
0°-40°	3049.0	46.1
0°-60°	5279.6	79.7
0°-90°	6620.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6620.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2471	2475	2478	2474	2467	234
15°	2359	2362	2363	2358	2351	665
25°	2151	2150	2147	2137	2130	990
35°	1866	1867	1860	1849	1845	1168
45°	1541	1541	1533	1520	1517	1189
55°	1184	1176	1178	1165	1163	1058
65°	805	800	803	792	788	797
75°	420	414	417	414	407	445
85°	93	90	92	88	85	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2479.3	2484.1	2487.3	2483.3	2482.5
5°	2470.6	2474.6	2477.7	2473.8	2467.4
7.5°	2453.1	2457.9	2460.3	2456.3	2447.6
10°	2428.5	2433.3	2434.1	2430.1	2425.3
12.5°	2398.4	2401.5	2401.5	2398.4	2392.8
15°	2359.4	2361.8	2363.4	2357.9	2350.7
17.5°	2315.0	2319.0	2317.4	2308.6	2305.5
20°	2265.0	2268.2	2264.2	2258.6	2251.5
22.5°	2210.2	2211.0	2207.8	2201.5	2194.3
25°	2151.4	2149.9	2146.7	2137.2	2130.0
27.5°	2083.2	2086.4	2078.4	2069.7	2064.9
30°	2015.7	2016.5	2008.5	1997.4	1993.5
32.5°	1943.5	1941.9	1936.3	1924.4	1918.0
35°	1866.4	1867.2	1860.1	1849.0	1845.0
37.5°	1791.8	1787.1	1781.5	1768.8	1766.4
40°	1708.5	1707.7	1699.7	1688.6	1684.6
42.5°	1625.1	1624.3	1618.0	1606.8	1603.7
45°	1540.9	1540.9	1533.0	1520.3	1517.1
47.5°	1455.2	1452.0	1446.5	1435.4	1431.4
50°	1364.7	1362.3	1359.1	1346.4	1345.6
52.5°	1275.8	1274.2	1268.6	1257.5	1251.2
55°	1184.5	1175.8	1178.1	1165.4	1163.1
57.5°	1090.8	1082.1	1086.8	1075.7	1071.0
60°	997.9	989.2	991.6	984.4	1005.1
62.5°	902.7	897.1	897.1	913.8	883.6
65°	805.0	800.2	802.6	792.3	787.5
67.5°	708.9	701.8	716.9	697.8	689.9
70°	611.3	606.5	612.1	601.0	595.4
72.5°	514.4	510.5	508.9	504.9	500.2
75°	420.0	414.4	416.8	413.6	407.3
77.5°	327.9	326.3	325.5	321.5	316.8
80°	242.1	240.5	239.0	235.8	232.6
82.5°	162.0	160.4	159.6	158.0	157.2
85°	92.9	90.5	92.1	88.1	84.9
87.5°	34.9	34.1	35.7	32.5	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)