

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: P708820

Luminaire Tested: **24APR-X-62L835-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708820
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-X-62L835-UNV
Description: ArcMed Patient Recessed 2x2 Fixture EXAM Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

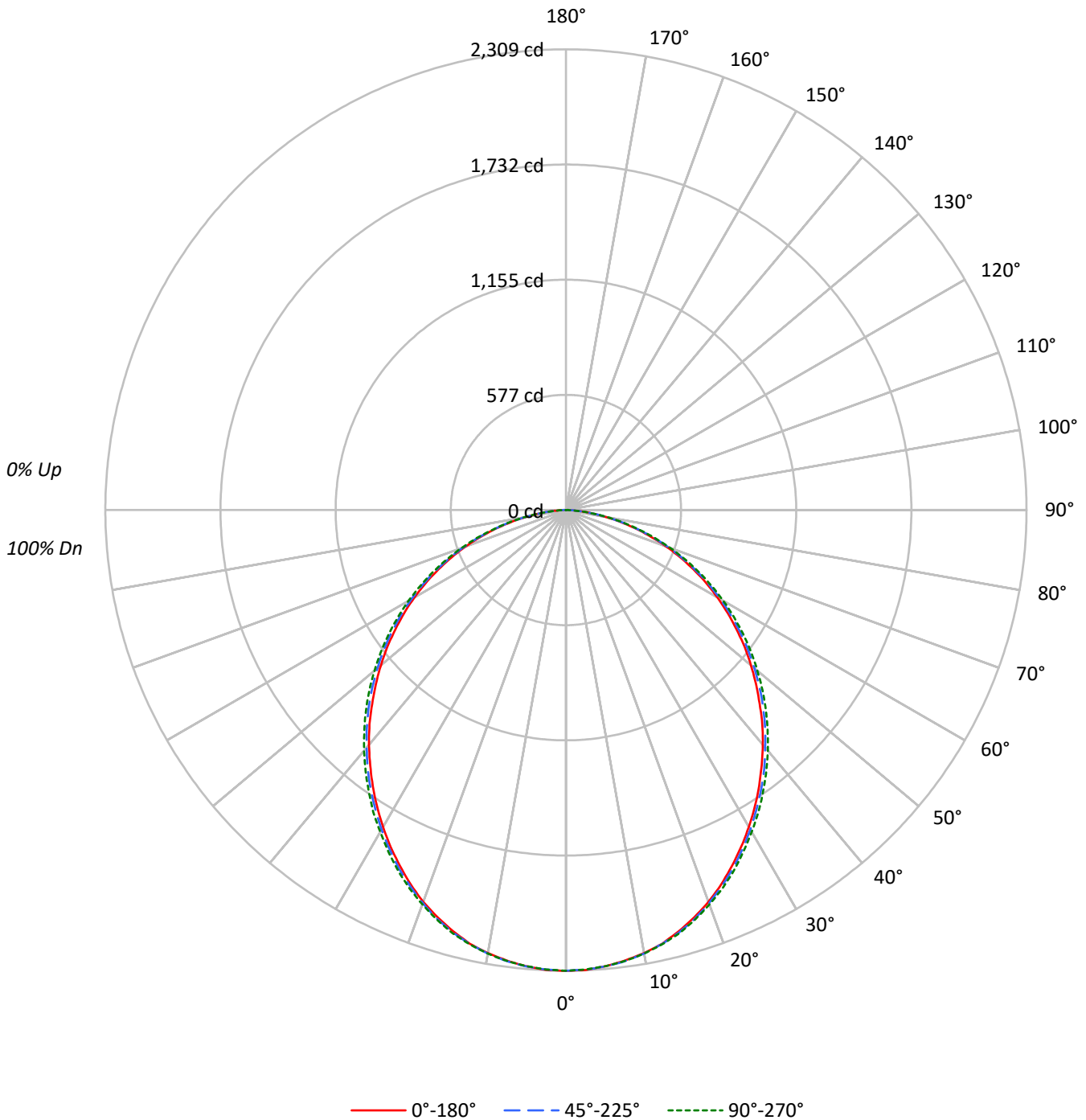
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6052.5 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 51.3
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	73	73	73	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6215	6215	6215
5°	6199	6201	6197
10°	6162	6168	6169
15°	6089	6106	6117
20°	5986	6006	6026
25°	5845	5884	5918
30°	5697	5744	5787
35°	5546	5607	5661
40°	5396	5459	5531
45°	5227	5321	5394
50°	5069	5164	5245
55°	4896	4999	5086
60°	4719	4815	4908
65°	4491	4592	4679
70°	4205	4297	4384
75°	3795	3889	3960
80°	3202	3319	3352
85°	2381	2532	2489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	3.6
10°-20°	617.4	10.2
20°-30°	912.1	15.1
30°-40°	1067.2	17.6
40°-50°	1077.8	17.8
50°-60°	952.6	15.7
60°-70°	713.1	11.8
70°-80°	396.3	6.5
80°-90°	98.0	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°	1747.4	28.9
0°-40°	2814.6	46.5
0°-60°	4845.1	80.1
0°-90°	6052.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6052.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2309	2309	2309	2309	2309	
5°	2295	2296	2296	2296	2294	218
15°	2186	2187	2192	2196	2196	616
25°	1968	1971	1982	1988	1993	907
35°	1688	1693	1707	1718	1723	1056
45°	1373	1384	1398	1413	1418	1061
55°	1044	1052	1066	1079	1084	934
65°	705	710	721	731	735	699
75°	365	367	374	381	381	387
85°	77	80	82	81	81	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2309.4	2309.4	2309.4	2309.4	2309.4
2.5°	2307.4	2307.4	2305.3	2306.0	2304.6
5°	2295.0	2295.7	2295.7	2296.4	2294.3
7.5°	2277.1	2278.4	2280.5	2281.2	2279.1
10°	2255.0	2256.4	2257.1	2259.8	2257.8
12.5°	2226.1	2226.8	2227.5	2231.6	2229.5
15°	2185.5	2186.8	2191.7	2195.8	2195.8
17.5°	2140.0	2142.8	2148.3	2153.8	2152.4
20°	2090.4	2092.5	2097.3	2104.9	2104.2
22.5°	2031.9	2033.9	2040.8	2049.1	2051.1
25°	1968.5	1971.3	1981.6	1987.8	1993.3
27.5°	1903.1	1906.5	1916.2	1925.8	1928.5
30°	1833.5	1839.0	1848.7	1859.0	1862.4
32.5°	1762.6	1765.3	1778.4	1789.4	1796.3
35°	1688.2	1693.0	1706.8	1718.5	1723.3
37.5°	1611.7	1618.6	1633.1	1645.5	1649.6
40°	1536.0	1541.5	1553.9	1569.7	1574.5
42.5°	1457.4	1462.3	1477.4	1491.2	1496.0
45°	1373.4	1383.7	1398.2	1412.7	1417.5
47.5°	1292.1	1301.8	1316.2	1330.7	1336.2
50°	1210.9	1221.2	1233.6	1248.7	1252.9
52.5°	1129.6	1137.8	1150.9	1164.0	1170.2
55°	1043.5	1051.7	1065.5	1078.6	1084.1
57.5°	962.2	967.7	980.8	993.2	998.0
60°	876.8	882.3	894.7	907.8	911.9
62.5°	792.8	796.2	807.9	820.3	823.1
65°	705.3	710.1	721.1	730.8	734.9
67.5°	619.9	624.0	633.7	644.0	646.1
70°	534.5	537.2	546.2	553.8	557.2
72.5°	448.4	451.1	460.8	464.9	468.4
75°	365.0	367.1	374.0	380.9	380.9
77.5°	283.8	287.2	292.7	295.5	296.9
80°	206.6	210.1	214.2	217.0	216.3
82.5°	136.4	139.8	142.6	144.0	142.6
85°	77.1	79.9	82.0	80.6	80.6
87.5°	30.3	31.7	33.1	32.4	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)