

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: P708830

Luminaire Tested: **24APR-X-62L850-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708830
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-X-62L850-UNV
Description: ArcMed Patient Recessed 2x2 Fixture EXAM Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

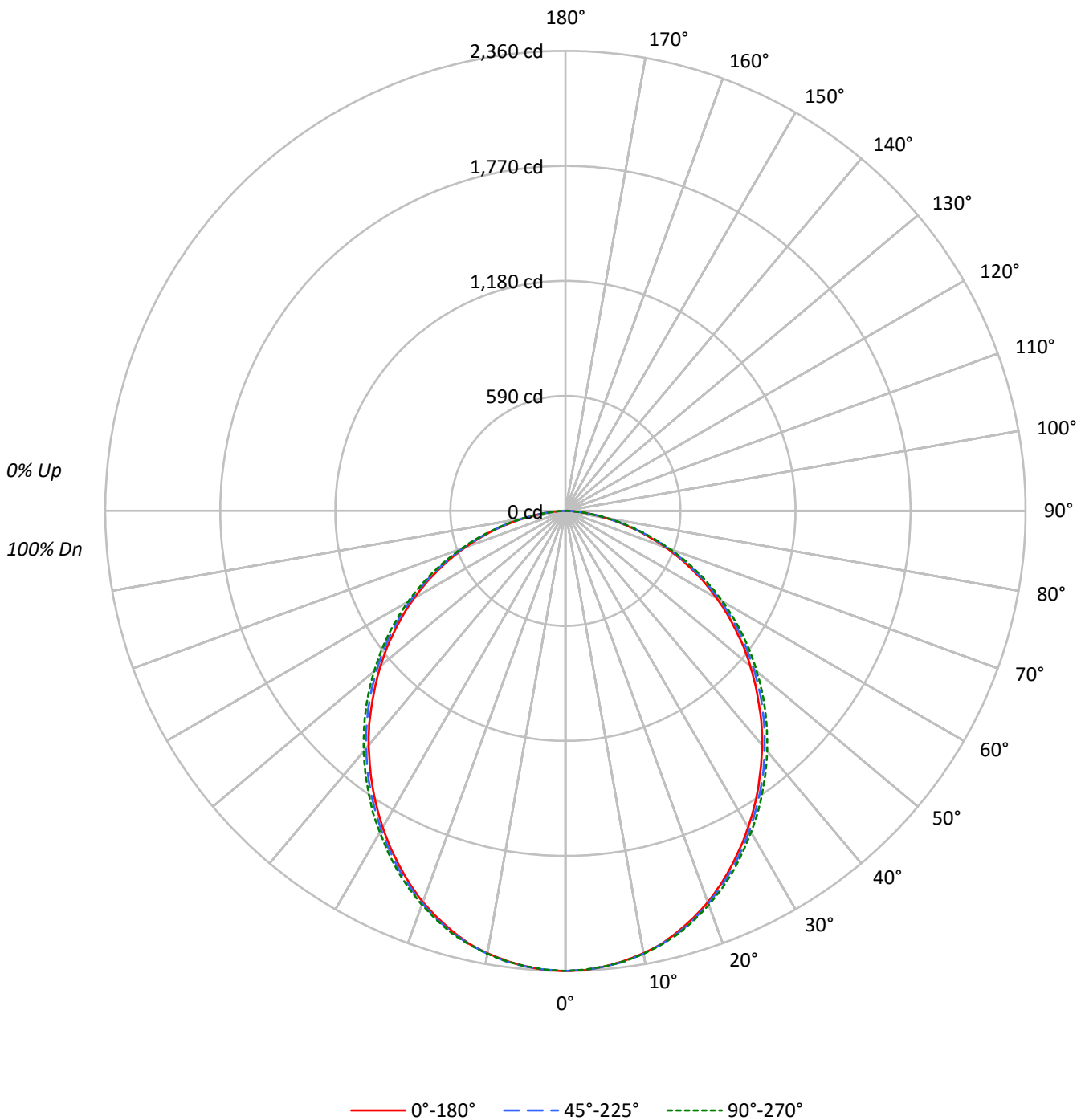
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6186.2 lumens
Efficiency: N/A
Efficacy: 120.6 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°	6352	6352	6352
5°	6336	6338	6334
10°	6298	6304	6305
15°	6223	6241	6252
20°	6119	6139	6159
25°	5974	6014	6049
30°	5823	5871	5915
35°	5668	5731	5786
40°	5515	5579	5653
45°	5342	5439	5514
50°	5181	5278	5361
55°	5004	5110	5199
60°	4823	4922	5017
65°	4590	4693	4783
70°	4298	4393	4481
75°	3879	3975	4048
80°	3273	3392	3425
85°	2433	2587	2544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	3.6
10°-20°	631.1	10.2
20°-30°	932.2	15.1
30°-40°	1090.7	17.6
40°-50°	1101.6	17.8
50°-60°	973.7	15.7
60°-70°	728.9	11.8
70°-80°	405.1	6.5
80°-90°	100.2	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°	1786.0	28.9
0°-40°	2876.7	46.5
0°-60°	4952.1	80.1
0°-90°	6186.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6186.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2360	2360	2360	2360	2360	
5°	2346	2346	2346	2347	2345	223
15°	2234	2235	2240	2244	2244	629
25°	2012	2015	2025	2032	2037	927
35°	1726	1730	1744	1756	1761	1079
45°	1404	1414	1429	1444	1449	1084
55°	1066	1075	1089	1102	1108	955
65°	721	726	737	747	751	714
75°	373	375	382	389	389	395
85°	79	82	84	82	82	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2360.4	2360.4	2360.4	2360.4	2360.4
2.5°	2358.3	2358.3	2356.2	2356.9	2355.5
5°	2345.7	2346.4	2346.4	2347.1	2345.0
7.5°	2327.4	2328.8	2330.9	2331.6	2329.5
10°	2304.8	2306.2	2306.9	2309.8	2307.6
12.5°	2275.3	2276.0	2276.7	2280.9	2278.8
15°	2233.7	2235.1	2240.1	2244.3	2244.3
17.5°	2187.3	2190.1	2195.7	2201.3	2199.9
20°	2136.6	2138.7	2143.6	2151.4	2150.7
22.5°	2076.7	2078.9	2085.9	2094.3	2096.5
25°	2012.0	2014.8	2025.4	2031.7	2037.3
27.5°	1945.1	1948.6	1958.5	1968.3	1971.1
30°	1874.0	1879.6	1889.5	1900.0	1903.6
32.5°	1801.5	1804.3	1817.7	1828.9	1836.0
35°	1725.5	1730.4	1744.5	1756.4	1761.4
37.5°	1647.3	1654.4	1669.1	1681.8	1686.0
40°	1569.9	1575.5	1588.2	1604.4	1609.3
42.5°	1489.6	1494.5	1510.0	1524.1	1529.0
45°	1403.7	1414.3	1429.1	1443.9	1448.8
47.5°	1320.7	1330.5	1345.3	1360.1	1365.7
50°	1237.6	1248.2	1260.8	1276.3	1280.5
52.5°	1154.5	1163.0	1176.4	1189.7	1196.1
55°	1066.5	1075.0	1089.1	1102.4	1108.1
57.5°	983.5	989.1	1002.5	1015.1	1020.1
60°	896.2	901.8	914.5	927.8	932.1
62.5°	810.3	813.8	825.8	838.4	841.3
65°	720.9	725.8	737.1	746.9	751.1
67.5°	633.6	637.8	647.7	658.2	660.3
70°	546.3	549.1	558.3	566.0	569.5
72.5°	458.3	461.1	471.0	475.2	478.7
75°	373.1	375.2	382.3	389.3	389.3
77.5°	290.0	293.6	299.2	302.0	303.4
80°	211.2	214.7	218.9	221.8	221.0
82.5°	139.4	142.9	145.7	147.1	145.7
85°	78.8	81.7	83.8	82.4	82.4
87.5°	31.0	32.4	33.8	33.1	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)