

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: P708840

Luminaire Tested: **24APR-X-62L935-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708840
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-X-62L935-UNV
Description: ArcMed Patient Recessed 2x2 Fixture EXAM Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

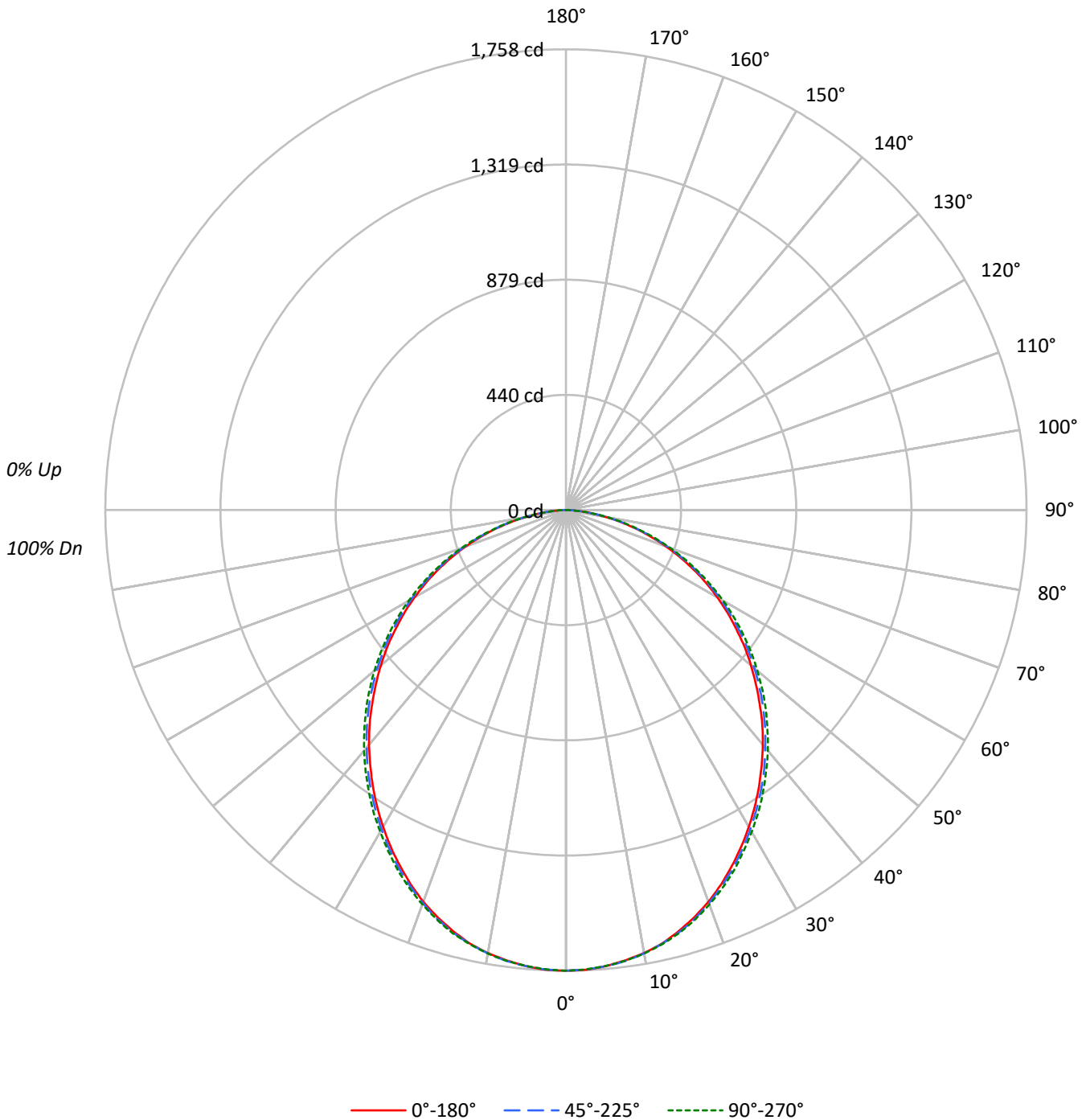
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4607.3 lumens
Efficiency: N/A
Efficacy: 89.8 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				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°	4731	4731	4731
5°	4719	4720	4718
10°	4691	4695	4696
15°	4635	4648	4657
20°	4557	4572	4587
25°	4449	4479	4505
30°	4337	4373	4405
35°	4222	4268	4309
40°	4107	4155	4210
45°	3979	4050	4106
50°	3859	3931	3993
55°	3727	3805	3872
60°	3592	3666	3736
65°	3419	3495	3562
70°	3201	3271	3338
75°	2889	2960	3014
80°	2438	2528	2551
85°	1812	1927	1893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	3.6
10°-20°	470.0	10.2
20°-30°	694.3	15.1
30°-40°	812.3	17.6
40°-50°	820.5	17.8
50°-60°	725.2	15.7
60°-70°	542.8	11.8
70°-80°	301.7	6.5
80°-90°	74.6	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°	1330.2	28.9
0°-40°	2142.5	46.5
0°-60°	3688.2	80.1
0°-90°	4607.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4607.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1747	1748	1748	1748	1746	166
15°	1664	1665	1668	1672	1672	469
25°	1498	1501	1508	1513	1517	690
35°	1285	1289	1299	1308	1312	804
45°	1046	1053	1064	1075	1079	807
55°	794	801	811	821	825	711
65°	537	541	549	556	559	532
75°	278	280	285	290	290	295
85°	59	61	62	61	61	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.0	1758.0	1758.0	1758.0	1758.0
2.5°	1756.4	1756.4	1754.8	1755.4	1754.3
5°	1747.0	1747.5	1747.5	1748.0	1746.5
7.5°	1733.4	1734.4	1736.0	1736.5	1734.9
10°	1716.6	1717.6	1718.1	1720.2	1718.7
12.5°	1694.6	1695.1	1695.6	1698.7	1697.2
15°	1663.6	1664.7	1668.3	1671.5	1671.5
17.5°	1629.0	1631.1	1635.3	1639.5	1638.5
20°	1591.3	1592.8	1596.5	1602.3	1601.8
22.5°	1546.7	1548.3	1553.5	1559.8	1561.4
25°	1498.5	1500.6	1508.4	1513.1	1517.3
27.5°	1448.7	1451.3	1458.6	1466.0	1468.1
30°	1395.7	1399.9	1407.2	1415.1	1417.7
32.5°	1341.7	1343.8	1353.8	1362.1	1367.4
35°	1285.1	1288.7	1299.2	1308.1	1311.8
37.5°	1226.9	1232.1	1243.1	1252.6	1255.7
40°	1169.2	1173.4	1182.8	1194.9	1198.6
42.5°	1109.4	1113.1	1124.6	1135.1	1138.8
45°	1045.5	1053.3	1064.3	1075.3	1079.0
47.5°	983.6	990.9	1001.9	1013.0	1017.2
50°	921.7	929.6	939.0	950.6	953.7
52.5°	859.9	866.2	876.1	886.1	890.8
55°	794.3	800.6	811.1	821.1	825.3
57.5°	732.5	736.6	746.6	756.0	759.7
60°	667.4	671.6	681.1	691.0	694.2
62.5°	603.5	606.1	615.0	624.4	626.5
65°	536.9	540.6	548.9	556.3	559.4
67.5°	471.9	475.0	482.4	490.2	491.8
70°	406.9	409.0	415.8	421.5	424.2
72.5°	341.3	343.4	350.8	353.9	356.5
75°	277.9	279.5	284.7	289.9	289.9
77.5°	216.0	218.6	222.8	224.9	226.0
80°	157.3	159.9	163.1	165.2	164.6
82.5°	103.8	106.4	108.5	109.6	108.5
85°	58.7	60.8	62.4	61.3	61.3
87.5°	23.1	24.1	25.2	24.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)